

# Department of Energy

## FY 2027

### Congressional Justification



## Environmental Management

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### Congressional Justification



## Environmental Management



**Environmental Management  
Proposed Appropriations Language**

**Defense Environmental Cleanup**

*For Department of Energy expenses, including the purchase, construction, and acquisition of plant and capital equipment and other expenses necessary for atomic energy defense environmental cleanup activities in carrying out the purposes of the Department of Energy Organization Act (42 U.S.C. 7101 et seq.), [ \$7,375,000,000 ] \$6,983,318,000, to remain available until expended: Provided, that of such amount, [ \$312,818,000 ] \$297,482,000 shall be available until September 30, [ 2026 ] 2027, for program direction.*

**(INCLUDING TRANSFER OF FUNDS)**

*For an additional amount for atomic energy defense environmental cleanup activities for Department of Energy contributions for uranium enrichment decontamination and decommissioning activities, \$253,000,000, to be deposited into the Defense Environmental Cleanup account, which shall be transferred to the "Uranium Enrichment Decontamination and Decommissioning Fund".*

**Non-Defense Environmental Cleanup**

*For Department of Energy expenses, including the purchase, construction, and acquisition of plant and capital equipment and other expenses necessary for nondefense environmental cleanup activities in carrying out the purposes of the Department of Energy Organization Act (42 U.S.C. 7101 et seq.), [ \$322,371,000 ] \$338,490,000 to remain available until expended: Provided, That in addition, fees collected pursuant to subsection (b)(1) of section 6939f of title 42, United States Code, and deposited under this heading in fiscal year 2024 pursuant to section 309 of title III of division C of Public Law 116–94 are appropriated, to remain available until expended, for mercury storage costs.*

**Uranium Enrichment Decontamination and Decommissioning Fund**

*For Department of Energy expenses necessary in carrying out uranium enrichment facility decontamination and decommissioning, remedial actions, and other activities of title II of the Atomic Energy Act of 1954, and title X, subtitle A, of the Energy Policy Act of 1992, [ \$865,000,000 ] \$854,583,000, to be derived from the Uranium Enrichment Decontamination and Decommissioning Fund, to remain available until expended, of which \$0 shall be available in accordance with title X, subtitle A, of the Energy Policy Act of 1992.*

**Environmental Management**  
**(\$K)**

	<b>FY2025 Enacted</b>	<b>FY2026 Enacted</b>	<b>FY2027 Request</b>	<b>FY 2027 Request vs FY 2026 Enacted</b>
Defense EM Funded UE D&D Fund Contribution	285,000	0	253,000	+253,000
Defense Environmental Cleanup	7,285,000	7,396,833	6,983,318	-413,515
Non-Defense Environmental Cleanup	345,000	325,371	341,490	+16,119
Uranium Enrichment Decontamination and Decommissioning Fund	855,000	865,000	854,583	-10,417
<b>Subtotal, Environmental Management</b>	<b>8,770,000</b>	<b>8,587,204</b>	<b>8,432,391</b>	<b>-154,813</b>
D&D Fund Offset	-285,000	0	-253,000	-253,000
Mercury Storage Receipts	-3,000	-3,000	-3,000	0
Use of Prior Year (Defense Environmental Cleanup)	0	-21,833	0	+21,833
<b>Total, Environmental Management</b>	<b>8,482,000</b>	<b>8,562,371</b>	<b>8,176,391</b>	<b>-385,980</b>

**Overview**

The Office of Environmental Management (EM) mission is 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 priority is to ensure the safety and health of the public and EM's workforce while continuing to protect the environment. The EM program is responsible for the cleanup of millions of gallons of radioactive waste; the safe management and disposition of thousands of tons of spent nuclear fuel and nuclear material; disposition of large volumes of transuranic waste and mixed low-level waste; remediation of huge quantities of contaminated soil and groundwater; and deactivation and decommissioning of thousands of excess facilities.

**FY 2025 Key Accomplishments**

- Began cold commissioning testing process for the Waste Treatment and Immobilization Plant at Hanford
- Treated and shipped 2,000 gallons of Hanford tank waste to commercial facilities in Texas and Utah where it was solidified in grout for disposal, demonstrating a solution that could shave decades and billions off the mission
- Completed demolition of the second naval reactor prototype at Idaho for DOE's Naval Nuclear Propulsion Program ahead of schedule and on budget
- Completed construction and commissioning of a modern ventilation system at the Waste Isolation Pilot Plant (WIPP)
- Began demolition of the second of three uranium enrichment process buildings at the Portsmouth Site – a priority that will create beneficial reuse opportunities for a strong economy and American energy future in the region
- Completed demolition of the last major facility at the West Valley Demonstration Project on time and under budget, positioning the site for the next phase of cleanup success

- Opened the Advanced Manufacturing Collaborative at the Savannah River Site serving as an economic driver and spurring innovation in South Carolina
- Completed removal of a cumulative 15 million tons of radioactive material from the Moab Site.
- Completed demolition of Building 175 at the Lawrence Livermore National Laboratory making land available for future science and technology missions

### **FY 2027 Budget Request**

In FY 2027, EM will expedite remediation and redevelopment of legacy DOE sites to enable the Department’s three pillared mission of: 1) unleashing American energy dominance and affordability, 2) igniting American innovation and technology starting with the flagship Genesis Mission, and 3) modernizing America’s nuclear deterrent that supports President Trump’s Peace Through Strength Agenda. EM will change the course of the future in American communities by remediating and revitalizing sites to become hubs for nuclear energy, advanced manufacturing and AI infrastructure that create generational jobs and build long-term security and prosperity.

The FY 2027 request will fund activities to maintain a safe and secure posture in the EM complex, while maximizing cleanup activities. EM will engage with our federal and state regulators regarding compliance requirements and achieving cleanup progress and expedited remediation. EM is committed to effectively and efficiently utilizing the resources in the request to advance remediation of sites that served our great nation for decades.

### **Working Capital Fund**

In FY 2027, EM’s share of the Working Capital Fund is estimated at \$31,255,000 which is split funded between Program Direction (through Headquarters Working Capital Fund Other Related Expenses line of account) and EM’s environmental cleanup program activities.

The table below provides a complete breakout of the Working Capital Fund Business Lines and how the activities are funded between Program Direction and EM cleanup activities.

#### **FY 2027 Working Capital Fund Estimate**

	Program Direction	EM Cleanup	Total
A123	0	392	392
Building Occupancy	5,834	0	5,834
Copy Services	0	60	60
Corporate Business Systems	3,510	6,243	9,753
Corp Training Services	347	0	347
Financial Statement Audits	0	2,499	2,499

	Program Direction	EM Cleanup	Total
Health Services	153	0	153
Human Resources Information Technology	1,025	0	1,025
Interagency Transfers	0	1,488	1,488
Mail & Transportation	0	155	155
Overseas Presence	583	0	583
Pension Studies	0	137	137
PMCDP	0	703	703
Print & graphics	0	104	104
Procurement Management	0	5,787	5,787
Supply	68	0	68
Telecom	2,167	0	2,167
Total	13,687	17,568	31,255

**Environmental Management  
Funding by Congressional Control (\$K)**

	FY 2025 Enacted	FY 2026 Enacted	FY 2027 Request	FY 2027 Request vs FY 2026 Enacted	
				\$	%
<b>Defense EM Funded UE D&amp;D Fund Contribution</b>					
<b>Contribution to the Uranium Enrichment D&amp;D Fund</b>	<b>285,000</b>	<b>0</b>	<b>253,000</b>	<b>+253,000</b>	<b>0%</b>
<b>Closure Sites</b>					
Closure Sites Administration	1,350	500	500	+0	0%
<b>Hanford Site</b>					
Central Plateau Remediation	797,000	843,772	795,124	-48,648	-6%
Richland Community and Regulatory Support	11,130	10,700	12,000	+1,300	+12%
River Corridor and Other Cleanup Operations	155,000	151,000	69,000	-82,000	-54%
<b>Construction</b>					
24-D-401: Environmental Restoration Disposal Facility	25,000	35,000	0	-35,000	-100%
Supercell 11 Expansion Project					
22-D-401: Eastern Plateau Fire Station	13,500	3,900	0	-3,900	-100%
22-D-402: 200 Area Water Treatment Facility	7,800	1,000	0	-1,000	-100%
23-D-405: 181B Export Water System Reconfiguration and Upgrade	1,168	0	0	+0	0%
26-D-403 200 East Potable Water Tank Replacement	0	6,518	0	-6,518	-100%
<b>Total, Construction</b>	<b>47,468</b>	<b>46,418</b>	<b>0</b>	<b>-46,418</b>	<b>-100%</b>
<b>Total, Hanford Site</b>	<b>1,010,598</b>	<b>1,051,890</b>	<b>876,124</b>	<b>-175,766</b>	<b>-17%</b>
<b>Idaho National Laboratory</b>					
Idaho Cleanup and Waste Disposition	435,006	485,000	472,726	-12,274	-3%
Idaho Community and Regulatory Support	2,705	3,779	3,295	-484	-13%
<b>Construction</b>					
22-D-403: Idaho Spent Nuclear Fuel Staging Facility	2,000	2,000	2,000	+0	0%
23-D-402: Calcine Disposition Project	2,000	2,000	2,000	+0	0%
22-D-404: Additional ICDF Landfill Disposal Cell and Evaporation Ponds Project	39,300	0	0	+0	0%

<b>Total, Construction</b>	<b>43,300</b>	<b>4,000</b>	<b>4,000</b>	<b>+0</b>	<b>0%</b>
<b>Total, Idaho National Laboratory</b>	<b>481,011</b>	<b>492,779</b>	<b>480,021</b>	<b>-12,758</b>	<b>-3%</b>
<b>NNSA Sites</b>					
Lawrence Livermore National Laboratory	1,879	1,955	1,955	+0	0%
Los Alamos Excess Facilities D&D	13,648	1,693	0	-1,693	-100%
Los Alamos National Laboratory	285,831	278,288	293,937	+15,649	+6%
Nevada	63,377	64,835	64,835	+0	0%
Sandia National Laboratories	2,264	1,030	1,030	+0	0%
Separations Processing Research Unit	1,300	950	950	+0	0%
<b>Total, NNSA Sites</b>	<b>368,299</b>	<b>348,751</b>	<b>362,707</b>	<b>+13,956</b>	<b>+4%</b>
<b>Oak Ridge</b>					
OR Cleanup and Disposition	72,000	75,000	85,800	+10,800	+14%
OR Nuclear Facility D&D	385,673	400,000	289,297	-110,703	-28%
OR Reservation Community and Regulatory Support	5,500	5,900	5,100	-800	-14%
OR Technology Development and Deployment	3,000	3,300	3,500	+200	+6%
U233 Disposition Program	60,000	63,000	70,000	+7,000	+11%
Construction					
14-D-403: Outfall 200 Mercury Treatment Facility, OR (OR-0041)	44,000	0	0	+0	0%
17-D-401: On-Site Disposal Facility	10,000	54,885	57,828	+2,943	+5%
<b>Total, Construction</b>	<b>54,000</b>	<b>54,885</b>	<b>57,828</b>	<b>+2,943</b>	<b>+5%</b>
<b>Total, Oak Ridge</b>	<b>580,173</b>	<b>602,085</b>	<b>511,525</b>	<b>-90,560</b>	<b>-15%</b>
<b>Office of River Protection</b>					
Tank Farm Activities	847,065	994,000	984,000	-10,000	-1%
Waste Treatment and Immobilization Plant	165,003	480,000	466,000	-14,000	-3%
Construction					
15-D-409: Low-Activity Waste Pretreatment System	37,500	50,000	75,000	+25,000	+50%
23-D-403: Hanford 200 West Area Tank Farms Risk Management Project	37,809	37,500	90,000	+52,500	+140%
01-D-416: Waste Treatment and Immobilization Plant, RL	600,000	611,585	330,000	-281,585	-46%
18-D-16: Waste treatment and immobilization plant LBL/Direct feed LAW	250,000	0	0	+0	0%
<b>Total, Construction</b>	<b>925,309</b>	<b>699,085</b>	<b>495,000</b>	<b>-204,085</b>	<b>-29%</b>
<b>Total, Office of River Protection</b>	<b>1,937,377</b>	<b>2,173,085</b>	<b>1,945,000</b>	<b>-228,085</b>	<b>-10%</b>

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<b>Savannah River Site</b>					
Radioactive Liquid Tank Waste Stabilization and Disposition	1,066,000	1,112,955	1,066,000	-46,955	-4%
Savannah River National Laboratory O&M	42,000	100,719	90,719	-10,000	-10%
Savannah River Risk Management Operations	472,422	396,394	465,620	+69,226	+17%
SR Community and Regulatory Support	12,389	5,317	5,450	+133	+3%
<b>Construction</b>					
20-D-401: Saltstone Disposal Unit #10 11 12	56,250	82,500	82,500	+0	0%
19-D-701: SR Security Systems Replacement	0	708	0	-708	-100%
<b>Total, Construction</b>	<b>56,250</b>	<b>83,208</b>	<b>82,500</b>	<b>-708</b>	<b>-1%</b>
<b>Total, Savannah River Site</b>	<b>1,649,061</b>	<b>1,698,593</b>	<b>1,710,289</b>	<b>+11,696</b>	<b>+1%</b>
<b>Program Support</b>					
Mission Support	17,504	20,320	20,320	+0	0%
<b>Program Direction</b>	<b>326,893</b>	<b>312,818</b>	<b>297,318</b>	<b>-15,500</b>	<b>-5%</b>
<b>Safeguards and Security</b>	<b>387,645</b>	<b>260,000</b>	<b>291,482</b>	<b>+31,482</b>	<b>+12%</b>
<b>Technology Development and Deployment</b>					
Mission Support	35,569	16,012	16,012	+0	0%
<b>Waste Isolation Pilot Plant</b>					
Waste Isolation Pilot Plant	447,320	410,000	400,020	-9,980	-2%
WIPP Community and Regulatory Support	0	10,000	0	-10,000	-100%
<b>Construction</b>					
15-D-411: Safety Significant Confinement Ventilation System	1,000	0	0	+0	0%
15-D-412: Utility Shaft	1,200	0	0	+0	0%
21-D-401: Hoisting Capability Project	40,000	0	72,000	+72,000	0%
<b>Total, Construction</b>	<b>42,200</b>	<b>0</b>	<b>72,000</b>	<b>+72,000</b>	<b>0%</b>
<b>Total, Waste Isolation Pilot Plant</b>	<b>489,520</b>	<b>420,000</b>	<b>472,020</b>	<b>+52,020</b>	<b>+12%</b>
Use of Prior Year (Defense Environmental Cleanup)	0	-21,833	0	+21,833	-100%
<b>Total, Defense Environmental Cleanup</b>	<b>7,285,000</b>	<b>7,375,000</b>	<b>6,983,318</b>	<b>-391,682</b>	<b>-5%</b>
<b>Non-Defense Environmental Cleanup</b>					
Mercury Storage Receipts	3,000	3,000	3,000	+0	0%
Use of Mercury Storage Receipts	-3,000	-3,000	-3,000	+0	0%
Management and Storage of Elemental Mercury	5,000	0	0	+0	0%

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Fast Flux Test Reactor Facility D&D	3,200	3,200	3,200	+0	0%
<b>Gaseous Diffusion Plants</b>					
Paducah Gaseous Diffusion Plant	76,317	70,416	80,804	+10,388	+15%
Portsmouth Gaseous Diffusion Plant	71,683	72,110	77,841	+5,731	+8%
<b>Total, Gaseous Diffusion Plants</b>	<b>148,000</b>	<b>142,526</b>	<b>158,645</b>	<b>+16,119</b>	<b>+11%</b>
<b>Small Sites</b>					
Energy Technology Engineering Center	10,000	10,000	10,000	+0	0%
Idaho National Laboratory	11,500	12,500	12,500	+0	0%
Moab	74,420	64,265	64,265	+0	0%
<b>Total, Small Sites</b>	<b>95,920</b>	<b>86,765</b>	<b>86,765</b>	<b>+0</b>	<b>0%</b>
West Valley Demonstration Project	89,880	89,880	89,880	+0	0%
<b>Total, Non-Defense Environmental Cleanup</b>	<b>342,000</b>	<b>322,371</b>	<b>338,490</b>	<b>+16,119</b>	<b>+5%</b>
<b>Uranium Enrichment Decontamination and Decommissioning Fund</b>					
<b>U/Th Reimbursements</b>					
Mission Support	0	5,115	5,115	+0	0%
<b>Oak Ridge</b>	<b>91,000</b>	<b>75,000</b>	<b>65,000</b>	<b>-10,000</b>	<b>-13%</b>
<b>Paducah</b>					
Nuclear Facility D&D	247,552	240,209	270,757	+30,548	+13%
Construction					
26-U-401: Administrative Support Building	0	41,000	0	-41,000	-100%
<b>Total, Construction</b>	<b>0</b>	<b>41,000</b>	<b>0</b>	<b>-41,000</b>	<b>-100%</b>
<b>Total, Paducah</b>	<b>247,552</b>	<b>281,209</b>	<b>270,757</b>	<b>-10,452</b>	<b>-4%</b>
<b>Portsmouth</b>					
Portsmouth Gaseous Diffusion Plant	418,258	453,106	480,480	+27,374	+6%
Construction					
20-U-401: On Site Waste Disposal Facility (Cell Line 2&3)	82,000	30,125	15,000	-15,125	-50%
25-U-401: On Site Waste Disposal Facility Liner Buildout and Final Cover System	0	3,875	1,000	-2,875	-74%
<b>Total, Construction</b>	<b>82,000</b>	<b>34,000</b>	<b>16,000</b>	<b>-18,000</b>	<b>-53%</b>
<b>Total, Portsmouth</b>	<b>500,258</b>	<b>487,106</b>	<b>496,480</b>	<b>+9,374</b>	<b>+2%</b>
<b>Pension and Community and Regulatory Support</b>					

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Oak Ridge	9,792	10,115	10,115	+0	0%
Paducah Gaseous Diffusion Plant	2,838	2,895	3,609	+714	+25%
Portsmouth Gaseous Diffusion Plant	3,560	3,560	3,507	-53	-1%
<b>Total, Pension and Community and Regulatory Support</b>	<b>16,190</b>	<b>16,570</b>	<b>17,231</b>	<b>+661</b>	<b>+4%</b>
<b>Total, Uranium Enrichment Decontamination and Decommissioning Fund</b>	<b>855,000</b>	<b>865,000</b>	<b>854,583</b>	<b>-10,417</b>	<b>-1%</b>
Environmental Management	8,767,000	8,562,371	8,429,391	-132,980	-2%
D&D Fund Offset	-285,000	0	-253,000	-253,000	0%
<b>Total, Environmental Management</b>	<b>8,482,000</b>	<b>8,562,371</b>	<b>8,176,391</b>	<b>-385,980</b>	<b>-5%</b>

SBIR/STTR:

- FY 2025 Enacted: SBIR \$1,408; STTR \$0
- FY 2026 Enacted: SBIR \$705; STTR \$0
- FY 2027 Request: SBIR \$712; STTR \$0

The SBIR/STTR authorization expired on September 30, 2025.

**Environmental Management  
Funding by Budget Chapters (\$K)**

	FY 2025 Enacted	FY 2026 Enacted	FY 2027 Request	FY 2027 Request vs FY 2026 Enacted	
				\$	%
Carlsbad	504,829	430,902	483,020	+52,118	+12%
Idaho	492,511	505,279	492,521	-12,758	-3%
Oak Ridge	694,965	701,200	603,640	-97,560	-14%
Paducah	343,617	370,954	373,598	+2,644	+1%
Portsmouth	593,264	580,039	597,059	+17,020	+3%
Richland	1,133,564	1,174,856	1,009,324	-165,532	-14%
River Protection	1,937,377	2,173,085	1,945,000	-228,085	-10%
Savannah River	1,819,061	1,769,187	1,785,124	+15,937	+1%
Lawrence Livermore National Laboratory	1,879	1,955	1,955	+0	0%
Los Alamos National Laboratory	304,479	280,937	295,937	+15,000	+5%
Nevada	63,377	64,835	64,835	+0	0%

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Sandia National Laboratories	2,264	1,030	1,030	+0	0%
Separations Process Research Unit	1,300	950	950	+0	0%
West Valley Demonstration Project	97,688	97,469	97,868	+399	0%
Energy Technology Engineering Center	10,000	10,000	10,000	+0	0%
Moab	74,420	64,265	64,265	+0	0%
Other Sites					
Closure Sites	1,350	500	500	+0	0%
<b>Subtotal, Other Sites</b>	<b>1,350</b>	<b>500</b>	<b>500</b>	<b>+0</b>	<b>0%</b>
Program Direction	326,893	312,818	297,318	-29,575	-9%
D&D Fund Deposit	285,000	0	253,000	-32,000	-11%
Mission Support	46,593	30,931	39,435	-7,158	-15%
Headquarters	331,593	30,931	292,435	-39,158	-12%
<b>Field Sites</b>	<b>8,770,000</b>	<b>8,587,204</b>	<b>8,432,391</b>	<b>-154,813</b>	<b>-2%</b>
D&D Fund Offset	-285,000	0	-253,000	-253,000	0%
Mercury Storage Receipts	-3,000	-3,000	-3,000	+0	0%
Use of Prior Year (Defense Environmental Cleanup)	0	-21,833	0	+21,833	-100%
<b>Total, Environmental Management</b>	<b>8,482,000</b>	<b>8,562,371</b>	<b>8,176,391</b>	<b>-385,980</b>	<b>-5%</b>

**Environmental Management Minor Construction Summary (MC)**

**Notification & Reporting (Use of Authority) (\$K)**

Appr	Program	Site	Icon	Project Title	Project Description	✓	✓	Percent Complete	Previous TEC	Original			Current		
						New Notif.	Auth. - Con. Design			Project Start	Design Complete	Constr. Complete	Project Start	Design Complete	Constr. Complete
								Original TEC		Current TEC	Current Constr. Design	Prior Years	FY 2025 Request	FY 2026 Request	FY 2027 Request
						✓		0%		FY 2027	FY 2027	FY 2028	FY 2027	FY 2027	FY 2028
D	Waste Isolation Pilot Plant	Carlsbad	↶	Demolition and Decommissioning of old Underground Ventilation Filtration System (UVFS) and Isolation Valve System (IVS)	Upon commissioning of the Safety Significant Confinement Ventilation System (SSCVS), project will demolish and decommission/remove old Underground Geotechnical Vertical Shafts (UGVS) including UVFS and IVS electrical and mechanical systems and support structures, 700A-C Fans/motors and appurtenances, Bldgs. 413, 413A, 413B, 364, and 365.			9,330	NA	9,330	933	0	0	0	9,330
			↶			✓		0%		FY 2027	FY 2027	FY 2028	FY 2027	FY 2027	FY 2028
D	Waste Isolation Pilot Plant	Carlsbad	↶	Subtotal for individual FY 2027 projects that are less than \$5M each	Subtotal for individual FY 2027 projects that are less than \$5M each			10,670	NA	10,670	1,067	0	0	0	10,670
			↶			✓		0%		FY 2026	FY 2026	FY 2027	FY 2026	FY 2026	FY 2027
D	Waste Isolation Pilot Plant	Carlsbad	↶	Trunked Radio Comm Network and Towers <sup>1</sup>	Design, Install and Test a Trunked communication system that meet guidelines for immediate emergency communication for facility personnel. This system will provide effective communications from the WIPP Site to the Skeen-Whitlock Emergency Operations Center (EOC) to support emergency response. The subcontractor will coordinate with the WIPP Project Team on installation of this system. It will include implementing, optimization, test acceptance and training of WIPP personnel.			6,453	NA	6,453	645	0	0	0	6,453
			↶			✓		0%		FY 2026	FY 2026	FY 2027	FY 2026	FY 2026	FY 2027
D	Waste Isolation Pilot Plant	Carlsbad	↶	Parking Lot Reconfiguration and Repaving <sup>1</sup>	Reconfigure and repave the main WIPP parking lot to make traffic flow safer for employees. Will include new solar light standards throughout.			5,543	NA	5,543	554	0	0	0	5,543

Appr	Program	Site	Icon	Project Title	Project Description	✓	✓	Percent Complete	Previous TEC	Original			Current		
						New Notif.	Auth. - Con. Design			Project Start	Design Complete	Constr. Complete	Project Start	Design Complete	Constr. Complete
								Original TEC		Current TEC	Current Constr. Design	Prior Years	FY 2025 Request	FY 2026 Request	FY 2027 Request
			↕			✓		0%		FY 2026	FY 2026	FY 2027	FY 2026	FY 2026	FY 2027
D	Waste Isolation Pilot Plant	Carlsbad	↕	Subtotal for individual FY 2026 projects that are less than \$5M each <sup>1</sup>	Subtotal for individual FY 2026 projects that are less than \$5M each			11,752	NA	11,752	1,175	0	0	0	11,752
<b>Carlsbad</b>				<b>SUBTOTAL</b>			<b>43,748</b>	<b>NA</b>	<b>43,748</b>	<b>4,374</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>43,748</b>
								N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
D	MC (TEC <\$5M)	Idaho	↕	MC (TEC <\$5M)	MC (TEC <\$5M)			20,218		20,218	5,803	0	0	0	20,218
								0%		FY 2025	FY 2025	FY 2027	FY 2027	FY 2027	FY 2029
D	Idaho Cleanup and Waste Disposition	ID	↕	Road Ready Facility Modifications	Facility modifications in support of Packaging Demonstration activities			11,399	11,399	11,399	1,710	0	0	0	11,399
								0%		FY 2025	FY 2025	FY 2027	FY 2027	FY 2027	FY 2029
D	Idaho Cleanup and Waste Disposition	ID	↕	Cask Transfer Station	Transfer Station construction in support of Packaging Demonstration activities			15,000	15,000	15,000	2,250	0	0	0	15,000
								0%		FY 2027	FY 2027	FY 2029	FY 2027	FY 2027	FY 2029
D	Idaho Cleanup and Waste Disposition	ID	↕	Product Storage Building III	Treated Sodium Bearing Waste storage			25,000	25,000	25,000	1,000	0	0	0	25,000
								0%		FY 2027	FY 2027	FY 2028	FY 2027	FY 2027	FY 2028
D	Idaho Cleanup and Waste Disposition	ID	↕	TF - Ventilation Upgrades	Treatment Facility - Upgrade Ventillation and Electrical Control System			6,000	0	6,000	500	0	0	0	6,000
								0%		FY 2027	FY 2027	FY 2029	FY 2027	FY 2027	FY 2029
D	Idaho Cleanup and Waste Disposition	ID	↕	Substation Construction	Substation 10 Construction			15,000	0	15,000	2,000	0	0	0	15,000
<b>Idaho</b>				<b>SUBTOTAL</b>			<b>92,617</b>	<b>51,399</b>	<b>92,617</b>	<b>13,263</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>92,617</b>
								0%		FY2027	FY2028	FY2029	FY2027	FY2028	FY2029
D	OR Nuclear Facility D&D	Oak Ridge	↕	LLW Backup Evaporator	Design, procure and install LLLW Backup Evaporator at ORNL			32,000	NA	32,000	4,000	0	0	0	32,000
								0%		FY2027	FY2027	FY2028	FY2027	FY2027	FY2028
D	OR Nuclear Facility D&D	Oak Ridge	↕	LGWO Underground Piping Upgrades	Replacement and modifications to aging underground piping which supports Liquid, Gaseous, and Waste Operations at ORNL			10,000	NA	10,000	1,500	0	0	0	10,000

					✓	✓	Original					Current		
					New Notif.	Auth. - Con. Design	Percent Complete		Project Start	Design Complete	Constr. Complete	Project Start	Design Complete	Constr. Complete
Appr	Program	Site	Project Title	Project Description			Original TEC	Previous TEC	Current TEC	Current Constr. Design	Prior Years	FY 2025 Request	FY 2026 Request	FY 2027 Request
			↕		✓		0%		FY2027	FY2027	FY2029	FY2027	FY2027	FY2029
D	OR Nuclear Facility D&D	Oak Ridge	ORNL Aging Facility Upgrades	Replacement and modifications to aging facilities at ORNL			20,000	NA	20,000	3,000	0	0	0	20,000
			↕		✓		0%		FY2027	FY2027	FY2029	FY2027	FY2027	FY2029
D	OR Cleanup and Disposition	Oak Ridge	TWPC Major Component Upgrades	Supports major component upgrades at TWPC			15,000	NA	15,000	2,300	0	0	0	15,000
			↕		✓		0%		FY2027	FY2027	FY2027	FY2027	FY2027	FY2027
D	OR Nuclear Facility D&D	Oak Ridge	White Oak Dam Upgrades	Upgrade for White Oak Dam if current repairs are not sufficient			10,000	NA	10,000	1,500	0	0	0	10,000
			↕		✓		0%		FY2027	FY2027	FY2030	FY2027	FY2027	FY2030
D	OR Cleanup and Disposition	Oak Ridge	Melton Valley National Center of Excellence - Process Building Upgrade	Upgrade the Process Building to include ventilation system upgrade, electrical distribution systems upgrade, equipment, etc.			24,000	NA	24,000	3,500	0	0	0	24,000
			↕		✓		0%		FY2027	FY2027	FY2028	FY2027	FY2027	FY2028
D	OR Nuclear Facility D&D	Oak Ridge	Building 7582 Retrofit	Retrofit Building 7582 into a weld shop.			11,200	NA	11,200	2,200	0	0	0	11,200
			↕		✓		0%		FY2027	FY2027	FY2030	FY2027	FY2027	FY2030
D	OR Nuclear Facility D&D	Oak Ridge	Central Waste Facility	Provide areas for covered storage, recycling, waste consolidation, repack/overpack activities, etc.			25,000	NA	25,000	3,500	0	0	0	25,000
							0%		FY2026	FY2027	FY2029	FY2026	FY2027	FY2029
D	OR Nuclear Facility D&D	Oak Ridge	LLLW/Sludge Solidification System	Design, build and installation of a process facility for treatment of Liquid Low-Level and Sludge Waste to solidify waste for shipment for off-site disposal.			23,500	23,500	23,500	4,500	0	0	23500	0
							0%		FY2026	FY2026	FY2029	FY2026	FY2026	FY2029
D	OR Nuclear Facility D&D	Oak Ridge	7961 Pipe Replacement	Replace piping, valves, & flanges at ORNL 7961.			21,000	21,000	21,000	3,525	0	0	21000	0
							0%		FY2026	FY2026	FY2027	FY2026	FY2026	FY2027
D	OR Nuclear Facility D&D	Oak Ridge	Nuclear Operations Infrastructure	Replacement of 15-30 year old Nuclear Operations trailers at ORNL.			7,000	7,000	7,000	500	0	0	7000	0
							0%		FY2026	FY2026	FY2029	FY2026	FY2026	FY2029
D	OR Nuclear Facility D&D	Oak Ridge	Y-12 East Maintenance Facility	Infrastructure support for Y-12 workers/equipment.			5,000	5,000	5,000	500	0	0	5000	

Appr	Program	Site	Icon	Project Title	Project Description	✓	✓	Percent Complete	Previous TEC	Original			Current		
						New Notif.	Auth. - Con. Design			Project Start	Design Complete	Constr. Complete	Project Start	Design Complete	Constr. Complete
								Original TEC		Current TEC	Current Constr. Design	Prior Years	FY 2025 Request	FY 2026 Request	FY 2027 Request
								0%		FY2026	FY2026	FY2029	FY2026	FY2026	FY2029
D	OR Nuclear Facility D&D	Oak Ridge	ORNL Cleanup Infrastructure Complex Buildout	As originally notified Infrastructure support for ORNL cleanup workers				11,600	11,600	11,600	2,000	0	0	11600	0
								0%		FY2026	FY2026	FY2027	FY2026	FY2026	FY2027
D	OR Nuclear Facility D&D	Oak Ridge	Oak Ridge Reservation Landfill Closure Turf Cap	Install partial closure turf cap on LF V and LF VII.				4,300	4,300	4,300	150	0	0	4300	0
								0%		FY2026	FY2026	FY2029	FY2026	FY2026	FY2029
D	OR Cleanup and Disposition	Oak Ridge	TWPC Material Storage Facility	Construct facility for TWPC material storage.				15,000	15,000	15,000	1,500	0	0	15000	
								0%		FY2026	FY2026	FY2027	FY2026	FY2026	FY2027
D	OR Nuclear Facility D&D	Oak Ridge	SWSA 1 Piping Replacement	Emergency pipe replacement due to recent bust at SWSA 1				20,000	20,000	20,000	3,500	0	0	20000	0
								20%		FY2024	FY2024	FY2025	FY2024	FY2024	FY2025
D	OR Nuclear Facility D&D	Oak Ridge	LGWO Cathodic Protection.	As originally notified.				5,000	5,000	5,000	520	2,000	3,000	0	0
								35%		FY2024	FY2024	FY2026	FY2024	FY2024	FY2026
D	OR Nuclear Facility D&D	Oak Ridge	LGWO Pipe Replacement 2600	As originally notified.				23,500	23,500	23,500	3,100	9,500	14,000	0	0
								16%		FY2024	FY2024	FY2025	FY2024	FY2024	FY2029
D	OR Nuclear Facility D&D	Oak Ridge	ORNL Infrastructure Buildout	As originally notified.				20,500	20,500	20,500	2,300	15,500	5,000	0	0
								39%		FY2024	FY2024	FY2026	FY2024	FY2024	FY2029
D	OR Nuclear Facility D&D	Oak Ridge	Y-12 Infrastructure Buildout	As originally notified.				21,500	21,500	21,500	2,500	16,500	5,000	0	0
								100%		FY2023	FY2023	FY2024		FY2023	FY2023
D	OR Nuclear Facility D&D	Oak Ridge	Landfill Expansion	Complete				23,000	23,000	16,200	150	23,000	0	0	0
								100%		FY2023	FY2023	FY2024		FY2023	FY2023
D	OR Nuclear Facility D&D	Oak Ridge	Bldg. 3608 Above Ground Pipe Replacement.	Complete				25,106	25,106	17,300	2,760	25,106	0	0	0
								48%		FY2024	FY2023	FY2025	FY2024	FY2023	FY2026
D	OR Nuclear Facility D&D	Oak Ridge	Disposal Area Remedial Action Facility Upgrade.	As originally notified.				9,000	9,000	9,000	1,100	9,000	0	0	0

Appr	Program	Site	Project Title	Project Description	New Notif.	Auth. - Con. Design	Percent Complete	Previous TEC	Current TEC	Original			Current		
										Design Complete	Constr. Complete	Prior Years	Project Start	Design Complete	Constr. Complete
							Original TEC	Previous TEC	Current TEC	Current Constr. Design	Prior Years	FY 2025 Request	FY 2026 Request	FY 2027 Request	
			Icon				0%		FY2024	FY2024	FY2025		NA	NA	
D	OR Nuclear Facility D&D	Oak Ridge	Transportation Center Relocation	On hold.			11,000	11,000	11,000	1,300	11,000	0	0	0	
							0%		2024	2024	FY2025		NA	NA	
D	OR Nuclear Facility D&D	Oak Ridge	LGWO Chemical Addition	Project cancelled.			4,500	4,500	4,500	500	4,500	0	0	0	
		<b>Oak Ridge</b>	<b>SUBTOTAL</b>				<b>345,100</b>	<b>197,900</b>	<b>345,100</b>	<b>48,495</b>	<b>63,500</b>	<b>27,000</b>	<b>107,400</b>	<b>147,200</b>	
							N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
D	Radioactive Liquid Tank Waste Stabilization and Disposition	Hanford Field Office (ORP)	MC (TEC <\$5M)	N/A			0	0	0	0	0	16,200	0	0	
							14%		FY 2025	FY 2025	FY 2026	FY 2025	FY 2026	FY 2027	
D	Radioactive Liquid Tank Waste Stabilization and Disposition	Hanford Field Office (ORP)	Tank Farms Operations Modular Trailer	10-wide modular trailer for personnel supporting tank waste pretreatment operations.			10,000	20,800	20,800	1,300	0	20,800	0	0	
							21%		FY 2025	FY 2025	FY 2027	FY 2025	FY 2026	FY 2028	
D	Radioactive Liquid Tank Waste Stabilization and Disposition	Hanford Field Office (ORP)	SY Farm Flush Water System	New SY Tank Farm water building to facilitate cross-site transfers, inter-farm transfers, and flushes.			23,600	12,400	12,400	2,800	0	12,400	0	0	
							0%		FY 2026	FY 2027	FY 2028	FY 2028	FY 2029	FY 2030	
D	Radioactive Liquid Tank Waste Stabilization and Disposition	Hanford Field Office (ORP)	242-A Evaporator Electrode Boilers	Additions and upgrades to the 242-A Boiler Annex and associated steam system, including conversion from diesel to electric power.			16,400	17,300	17,300	800	0	17,300	0	0	
							0%		FY 2025	FY 2026	FY 2027	FY 2025	FY 2027	FY 2028	
D	Radioactive Liquid Tank Waste Stabilization and Disposition	Hanford Field Office (ORP)	242-A Evaporator Slurry Sampling Station	Upgrade the slurry sampling station and associated piping connections and controls. Existing components (isolation valves and flowmeter) have limited life and are showing increasing signs of deterioration. Project provides a new slurry sample station and a mockup slurry sample station.			5,000	6,600	6,600	600	0	6,600	0	0	

					✓	✓	Original					Current		
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Appr	Program	Site	Project Title	Project Description			Original TEC	Previous TEC	Current TEC	Current Constr. Design	Prior Years	FY 2025 Request	FY 2026 Request	FY 2027 Request
							0%		FY 2025	FY 2025	FY 2026	FY 2026	FY 2027	FY 2028
D	Radioactive Liquid Tank Waste Stabilization and Disposition	Hanford Field Office (ORP)	200 East Area Administration Trailer	Design, procure, place and turnover a new administration trailer to support Tank Operations Contract 24/7 Direct-Feed Low- Activity Waste Operations.			10,000	28,100	28,100	1,100	0	0	28,100	0
							0%		FY 2026	FY 2027	FY 2028	FY 2027	FY 2027	FY 2029
D	Radioactive Liquid Tank Waste Stabilization and Disposition	Hanford Field Office (ORP)	Tank Farms Transfer Line Water Flush Capability	Design, fabricate, install, test and turnover a permanent inhibited water flush system for the 200 East Area waste transfer system in order to further mitigate corrosion and ensure reliant operability in support of 24/7 Direct-Feed Low-Activity Waste Operations.			10,000	31,300	31,300	2,100	0	0	31,300	0
					✓		0%		FY 2026	FY 2026	FY 2026	FY 2026	TBD	TBD
D	Radioactive Liquid Tank Waste Stabilization and Disposition	Hanford Field Office (ORP)	AP Tank Farm Material Conveyance System <sup>2</sup>	Design, fabricate, install, test and turnover a material conveyance system and associated ancillary equipment to facilitate pumping of waste from Tank AP-106 into shipping containers for final disposition in support of Direct- Feed Low-Activity Waste Operations.			19,000	N/A	19,000	4,000	0	0	0	19,000
					✓		0%		FY 2026	FY 2026	FY 2026	FY 2026	TBD	TBD
D	Radioactive Liquid Tank Waste Stabilization and Disposition	Hanford Field Office (ORP)	200 West Area Operations Trailer <sup>2</sup>	Design, procure, place and turnover a new operations trailer to support tank waste treatment operations in the 200 West Area.			20,000	N/A	20,000	1,000	0	0	0	20,000
							0%		FY 2025	FY 2026	FY 2027	FY 2026	FY 2027	FY 2028
D	Radioactive Liquid Tank Waste Stabilization and Disposition	Hanford Field Office (ORP)	222-S Ancillary Equipment Addition (Lab Operations Center)	New lab operations center to include new locker rooms, showers, lunchroom, and conference rooms, replacing failing infrastructure in the western portion of 222-S.			11,920	17,780	17,780	1,700	0	17,780	0	0

				✓	✓				Original			Current		
		Icon		New Notif.	Auth. - Con. Design	Percent Complete		Project Start	Design Complete	Constr. Complete	Project Start	Design Complete	Constr. Complete	
Appr	Program	Site	Project Title	Project Description		Original TEC	Previous TEC	Current TEC	Current Constr. Design	Prior Years	FY 2025 Request	FY 2026 Request	FY 2027 Request	
						0%		FY 2025	FY 2026	FY 2028	FY 2027	FY 2027	FY 2028	
D	Radioactive Liquid Tank Waste Stabilization and Disposition	Hanford Field Office (ORP)	222-S Standards Laboratory	Building to prepare calibration standards for analytical methods and receive and store chemicals used in performing analytical techniques within the 222 S Laboratory.		7,800	14,700	14,700	740	0	14,700	0	0	
						0%		FY 2025	FY 2026	FY 2028	FY 2027	FY 2028	FY 2030	
D	Radioactive Liquid Tank Waste Stabilization and Disposition	Hanford Field Office (ORP)	222-S Ancillary Equipment Remodel	Facility remodel with manipulator repair stations, manipulator storage, and radiological and analytical support areas.		7,800	7,800	7,800	740	0	7,800	0	0	
		<b>Hanford Field Office (ORP)</b>		<b>SUBTOTAL</b>		<b>141,520</b>	<b>156,780</b>	<b>195,780</b>	<b>16,880</b>	<b>0</b>	<b>113,580</b>	<b>59,400</b>	<b>39,000</b>	
						0%		FY 2024	FY 2024	FY 2025	FY 2027	FY 2027	FY 2028	
U	Paducah	PAD	Fire Department / Emergency Services Building	Installation of the new Fire Department Facility in FY28 to replace a 1950's vintage facility.		8,414	8,414	14,013	TBD	0	0	0	50	
						0%		FY 2025	FY 2025	FY 2027	FY 2025	FY 2025	FY 2027	
U	Paducah	PAD	Northwest Plume Interim Remedial Action Optimization	Regulatory Northwest (NW) Plume Interim Remedial Action Optimization project in FY26. Specifically helps to maintain C-400 momentum by upgrading the NW Plume Pump & Treat to enhance capture of the NW Plume Centroid.		10,000	18,767	18,767	TBD	0	1,431	1,385	8,551	
						0%		FY 2026	FY 2026	FY 2028	FY 2026	FY 2026	FY 2028	
U	Paducah	PAD	Utility Optimization / Reconfiguration	Reconfiguration of site utilities in FY29 to align with the long-term cleanup mission at the site and reduce base operational power costs.		20,000	20,704	20,704	TBD	0	0	0	50	
						0%		FY2026	TBD		FY2026	TBD		
U	Paducah	PAD	Public Water System Upgrades	Sanitary Water System Upgrades that are needed for potable water at the site.		8,484	8,484	8,484	TBD	0	0	422	3,201	
		<b>Paducah</b>		<b>SUBTOTAL</b>		<b>46,898</b>	<b>56,369</b>	<b>61,968</b>	<b>TBD</b>	<b>0</b>	<b>1,431</b>	<b>1,807</b>	<b>11,852</b>	

					✓	✓	Original					Current		
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Appr	Program	Site	Project Title	Project Description			Original TEC	Previous TEC	Current TEC	Current Constr. Design	Prior Years	FY 2025 Request	FY 2026 Request	FY 2027 Request
							26%		FY 2019	TBD	FY 2024	FY 2020		FY 2028
U	Portsmouth	PORTS	Electrical Supply and Distribution Gaseous Diffusion Plant	Right sizing the X-555 electrical distribution for the closure of the site by constructing a new substation.			13,440	20,713	21,955		5,304	0	12,750	3,901
							0%		FY 2025	NA	FY 2025	Outyear	TBD	Outyear
U	Portsmouth Gaseous Diffusion Plant	PORTS	Sanitary Water Treatment Facility Equipment Upgrade	Reconfigure X-611 in order to eliminate lime usage.			7,600	7,600	8,231	TBD	0	0	0	
					✓				FY 2029	TBD	FY 2029	Outyear	TBD	Outyear
U	Portsmouth Gaseous Diffusion Plant	PORTS	Relocate out of the D&D footprint - X-744K Warehouse Modifications	Renovations to the X-744K in order to move personnel out of the D&D footprint.			5,983		5,983	TBD	0	0	0	0
					✓				Outyear	TBD	Outyear	Outyear	TBD	Outyear
U	Portsmouth Gaseous Diffusion Plant	PORTS	Butler Building for S&S	Facility for S&S out of the D&D footprint			8,837		8,837	TBD	0	0	0	0
<b>PORTS</b>				<b>SUBTOTAL</b>			<b>35,860</b>	<b>28,313</b>	<b>45,006</b>	<b>TBD</b>	<b>5,304</b>	<b>0</b>	<b>12,750</b>	<b>3,901</b>
U	Portsmouth Gaseous Diffusion Plant	PORTS	MC (TEC <\$5M)	SUBTOTAL			1,748	0	1,748	0	0	0	0	0
U	Portsmouth Gaseous Diffusion Plant	PORTS	MC UED&D Total	TOTAL UED&D			<b>37,608</b>	<b>28,313</b>	<b>46,754</b>	<b>TBD</b>	<b>5,304</b>	<b>0</b>	<b>12,750</b>	<b>3,901</b>
							0%		FY 2025	FY 2026	FY 2028	FY 2026	FY 2027	FY 2028
D	Central Plateau Remediation	Richland	W-220 CH Shipping Facility	Design and construct a shipping facility to support the contact handled Transuranic waste shipments offsite.			7,000	7,000	13,000	4,500	0	0	0	0
							0%		FY 2025	FY 2025	FY 2025	FY 2026	FY 2026	FY 2026
D	Central Plateau Remediation	Richland	W-215 MWT Leachate Tanks	Design, remove and replace the Mixed Waste Trenches leachate tanks.			2,150	2,150	2,100	100	0	0	2,100	0

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							Original TEC		Current TEC	Current Constr. Design	Prior Years	FY 2025 Request	FY 2026 Request	FY 2027 Request
							0%		FY 2026	FY 2026	FY2029	FY 2026	FY 2026	FY2029
	Central Plateau Remediation	Richland	CH Permacon Installation <sup>3</sup>	Design and install Permacon in CWC for CH TRU processing			N/A	N/A	7,000	2,000	0	2,000	0	5,000
							0%		FY 2026	FY 2027	FY 2028			
N	Fast Flux Test Reactor Facility D&D	Richland	XXX 400 Area Water Systems	Design and construct the 400 Area water system upgrade.			6,000	6,000	0	0	0	0	0	0
							94%	Prior Contractor				FY 2020	FY 2020	FY 2027
D	Environmental Management - Defense	Richland	L-894, Raw Water Cross Connection Isolation 200E/W	Design, procure, and construct water system components that will eliminate cross-connections between the RW systems and the potable and export water systems in accordance with WAC 246-290.			8,181	7,835	7,795	546	7,400	0	302	461
							86%	Prior Contractor				FY 2020	FY 2020	FY 2027
D	Environmental Management - Defense	Richland	L-895, Fire Protection Infrastructure for Plateau Raw Water	The project will add the necessary fire protection infrastructure to the RW systems in the 200E and 200W Areas.			8,637	27,419	27,187	1,966	24,385	4,973	829	977
							67%		FY 2020	NA	NA	FY 2020	FY 2024	FY 2026
D	Environmental Management - Defense	Richland	L-898, 100 Area Mission Critical Distribution Feeders Replacement	Design, rebuild, and reroute the 100 Area electrical distribution system (lines C9-L3 and C9-L4) to align with post River Corridor cleanup (current) and future main load centers at 100K, 100B, and 100D Areas.			7,100	28,230	24,362	1,064	16,803	7,200	9,432	41
							2%		FY2027		FY 2027			FY 2031
D	Environmental Management - Defense	Richland	L-927, Sanitary Water Cross-tie Line 200E/W	Sanitary Water Cross-Tie Line between 200 East and 200 West will provide approximately 5 mi of 16-in. sanitary water (SW) line to augment the existing 12-in. SW line. The current 12-in. SW line is the only SW line between 200 West and the Fire Station – 200 Areas (609A).			7,436	13,631	15,879	344	344	0	0	17,700

					✓	✓	Original					Current		
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Appr	Program	Site	Project Title	Project Description			Original TEC	Previous TEC	Current TEC	Current Constr. Design	Prior Years	FY 2025 Request	FY 2026 Request	FY 2027 Request
							0%					FY 2025	FY 2026	FY 2027
D	Environmental Management - Defense	Richland	RF-004, New 200 Area Occupational Medical Facility	Includes planning, design, procurement, construction, and selection of a location to provide a new/renovated space for Hanford Sitewide medical. The facility will provide emergency medical care, quick response, and a location for health services. Several options are currently being evaluated that include a mobile facility or utilizing existing infrastructure on site.			5,000	8,313	8,683	358	0	5,000	311	12,065
							29%					FY 2025		FY 2026
D	Environmental Management - Defense	Richland	Z-402, ETF Extension (C8L8)	Provides an extension off the 12th street distribution line allowing a backup source to the Direct Feed Low Activity Waste critical systems and the Effluent treatment facility, allowing for the continual operations and ease of maintenance.			2,500	2,558	1,705	0	0	2,558	0	0
					X		20%							FY2027
D	Environmental Management - Defense	Richland	Z-378, Moving Shielded Counting Enclosures to 851 Smartpark <sup>3</sup>	Relocation of the Hanford Internal Dosimetry Program (HIDP) including whole-body counters from the vulnerable 805 Goethals facility to 851 Smartpark including transferring existing equipment, ensuring DOELAP compliance, and terminating the Goethals lease after successful transition.			6,700	0	6,700	0	0	0	6,700	0
					X				FY 2026	FY 2026	FY 2027			
D	Environmental Management - Defense	Richland	RF-XXX, Rattlesnake Barricade Upgrade <sup>3</sup>	Upgrade and relocate the main barricade for improved security and operations, including new ballistic-rated barricade, enhanced utilities, and advanced gate controls.			0	0	11,000	0	0	0	11,000	0

			Icon		✓	✓	Percent Complete		Original			Current		
					New Notif.	Auth. - Con. Design			Project Start	Design Complete	Constr. Complete	Project Start	Design Complete	Constr. Complete
Appr	Program	Site	Project Title	Project Description			Original TEC	Previous TEC	Current TEC	Current Constr. Design	Prior Years	FY 2025 Request	FY 2026 Request	FY 2027 Request
					X				FY 2026	FY 2026	FY 2027			
D	Environmental Management - Defense	Richland	RF-XXX, Maintenance Shop New Construct <sup>3</sup>	Design and build a new 25,000 sq ft maintenance shop to replace the outdated warehouse, providing adequate amenities and improved operational space.			0	0	8,000	0	0	0	8,000	0
							95%		FY 2023	FY 2023	FY 2024	FY 2023	FY 2023	FY 2026
D	Environmental Management - Defense	Richland	G-840, Procure/Install WMA C/A-AX Farm Ext System	This work scope places necessary pipelines and a transfer station needed to convey contaminated groundwater from extraction wells at the C/A-AX Tank Farms to the existing 200 West Pump & Treat facility for treatment.			7,130	12,064	14,666	141	12,064	0	0	0
							92%		FY 2025	FY 2025	FY 2025	FY 2025	FY 2025	FY 2026
D	Environmental Management - Defense	Richland	G-895 200-ZP-1 Air Stripper Installation	Installation of an additional air stripper to accomodate increased capacity needs.			3,800	3,800	9,949	100	0	9,561	0	0
							0%		FY 2025	FY 2025	FY 2026	FY 2026	FY 2027	FY 2028
D	Environmental Management - Defense	Richland	XXX 200-BP-5/200-PO-1 Cross Site Transfer Line	Installation of a cross-site transfer line from the 200 East Area to the 200 West Pump & Treat Facility			6,400	6,400	6,400	250	0	6,400	0	0
<b>D</b>	<b>Environmental Management - Defense</b>	<b>Richland</b>	<b>SUBTOTAL</b>				<b>78,034</b>	<b>125,400</b>	<b>164,426</b>	<b>11,369</b>	<b>60,996</b>	<b>37,692</b>	<b>38,674</b>	<b>36,244</b>
							47%		FY2017	FY2020	NA	FY2017	FY2026	FY2027
INST	SRNL	Savannah River	Renovate Labs C-155 Hood & Glovebox	Renovation of Lab C155 to standard lab model, including the procurement and installation of an Inert GB.			2,873	4,000	5,000	0	1,820	900	2,600	580
							80%		FY22	FY2023	FY2025	FY2022	FY2025	FY2026
INST	SRNL	Savannah River	Upgrade SRNL Stack Monitors - Sand Filter Stacks	Upgrade SRNL Sand Filter Stack Monitoring System to a PIC Level 1. Scope includes upgrading the SCDHEC Permit to a PIC Level 1 from PIC Level 3, Design and Fabrication of PIC Level Stack Monitor and Installation.			3,292	3,771	3,963	0	3,260	1,400	500	0

					✓	✓	Original					Current		
Icon					New Notif.	Auth. - Con. Design	Percent Complete		Project Start	Design Complete	Constr. Complete	Project Start	Design Complete	Constr. Complete
Appr	Program	Site	Project Title	Project Description			Original TEC	Previous TEC	Current TEC	Current Constr. Design	Prior Years	FY 2025 Request	FY 2026 Request	FY 2027 Request
							0%		FY2018	N/A	N/A	N/A	N/A	N/A
INST	SRNL	Savannah River	Renovate Lab B-126/130, 773-A	The Project will provide design and construction to facilitate the renovation of lab B-126 / 130. Project put on hold after Conceptual Design FY20.			1,718	1,718	0	0	0	0	0	0
							100%		FY2020	FY2021	FY2022	FY2020	FY2021	FY2022
INST	SRNL	Savannah River	Replace Diesel Generator 503-2A	Design for replacing 503-2A Diesel Generator (DG), including D&R of fuel tank, piping, weather protective shelter and diked wall. Generator 400kW, 480V, outdoor rated Diesel Generator (DG) with integral fuel tank, load bank, and all accessories. Project Closed FY2025.			1,400	1,250	1,233	0	1,233	0	0	0
							100%		FY2021	FY2022	FY2023	FY2021	FY2022	FY2023
INST	SRNL	Savannah River	Reno Lab B-065/067 for High Accuracy Isotope Ratio Measurement	Renovation of 773-A Labs B-065/B-067 to configure the lab to support the Installation of a Thermal Ionization Mass Spectrometer (TIMS) unit to perform analysis on radiologically contaminated samples. Project Closed FY2025.			1,858	3,500	3,492	0	3,492	0	0	0
							7%		FY2023	FY2024	NA	FY2023	FY2026	NA
INST	SRNL	Savannah River	S-TAC Campus Utilities & Build	Design and Build of Non-Rad Facility. (Project put on hold after completion of Title II Design.) Project Placed On-Hold FY2025			14,177	22,000	30,000	0	1,434	0	3,500	12,000
							100%		FY2025	FY2026	FY2026	FY2025	FY2026	FY2026
INST	SRNL	Savannah River	705-A Compute Facility	Project TEC forecasted at under original ROM. Funding in FY2025 forecasted not to exceed \$300K.			2,000	2,000	3,500	0	524	500	1,500	1,476

					✓	✓	Original					Current		
Icon					New Notif.	Auth. - Con. Design	Percent Complete		Project Start	Design Complete	Constr. Complete	Project Start	Design Complete	Constr. Complete
Appr	Program	Site	Project Title	Project Description			Original TEC	Previous TEC	Current TEC	Current Constr. Design	Prior Years	FY 2025 Request	FY 2026 Request	FY 2027 Request
							10%		FY2025	FY2026	FY2026	FY2025	FY2026	FY2026
INST	SRNL	Savannah River	B-070 Vault Type Room	The conversion of B070 to a separate standalone MBA, with the installation of a VTR is being proposed as a solution to enable increased overall SNM inventory within Bldg 773A. Current 773-A SNM inventory limits significantly constrain SRNL programmatic growth. The current facility limit is based both on Material-at-Risk (MAR) and Nuclear Materials Control and Accountability (NMC&A) requirements.			1,000	1,000	1,000	0	78	400	900	0
							5%		FY2025	FY2026	FY2026	FY2025	FY2026	FY2026
INST	SRNL	Savannah River	C-142/C-146 Standard Lab Renovation	Modernize Laboratory C-142/C-146 to create a flexible, functional space enabling a variety of research and operational missions. Project activities include relocating existing R&D activities, followed by renovation of C-142-/C-146 to a "clean slate" condition (electrical, plumbing, HVAC, and basic architectural elements).			1,000	1,000	1,000	0	23	80	1,000	0
							2%		FY2025	N/A	FY2030	FY2025	FY2026	FY2030
INST	SRNL	Savannah River	Renovate Building 779-A	Modernize abandoned Building 779-A to create a flexible, functional space enabling a variety of future research and operational missions. Project activities include renovation of Building 779-A to a "clean slate" condition (electrical, plumbing, HVAC, and basic architectural elements).			7,500	7,500	7,500	0	124	50	0	0

					✓	✓	Original					Current		
Icon					New Notif.	Auth. - Con. Design	Percent Complete		Project Start	Design Complete	Constr. Complete	Project Start	Design Complete	Constr. Complete
Appr	Program	Site	Project Title	Project Description			Original TEC	Previous TEC	Current TEC	Current Constr. Design	Prior Years	FY 2025 Request	FY 2026 Request	FY 2027 Request
							0%		FY2026	FY2026	FY2029	FY2026	FY2026	FY2026
D	PBS41	Savannah River	F-canyon roof replacement	Replaces roof over nuclear facility			20,000	0	20,000	0	0	0	0	0
<b>Savannah River</b>				<b>SUBTOTAL</b>			<b>56,818</b>	<b>47,739</b>	<b>76,688</b>	<b>0</b>	<b>11,988</b>	<b>3,330</b>	<b>10,000</b>	<b>14,056</b>
<b>Office of Environmental Management</b>				<b>TOTAL</b>			<b>842,343</b>	<b>663,900</b>	<b>1,027,081</b>	<b>0</b>	<b>141,788</b>	<b>183,033</b>	<b>230,031</b>	<b>388,618</b>

<sup>1</sup> These capital investments represent expenditures that may be accelerated to FY 2026 based on emerging or identified risks.

<sup>2</sup> These capital investments represent expenditures that may be accelerated to FY 2026 based on emerging or identified risks.

<sup>3</sup> CH Permacon Installation project is a split out from the previously notified CHWP line item project that has been put on hold. The design is expected to start in FY26.

Savannah River Note: This table reflects notification to Congress of SRNL minor construction projects, including Institutional General Plant Projects in progress and planned to start in FY 2026. It represents planning under the new SRNL M&O contract. Except for previous year costs, previous year table values associated with the Site M&O contract were not carried forward. This table constitutes a rebaselining of minor construction projects with TEC > \$5M and < \$34M for SRNL that are funded by resources drawn from SRNL indirects.

**Environmental Management  
Construction Summary (\$K)**

Total	Prior Years	FY 2025 Enacted	FY 2025 Actuals	FY 2026 Enacted	FY 2027 Request	FY 2027 Request vs FY 2026 Enacted (\$)
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Carlsbad

**21-D-401, Hoisting Capability Project (CB-0080)**

Total Estimate Cost (TEC)	TBD	0	0	0	0	72,000	+72,000
Other Project Costs (OPC)	TBD	10,000	40,000	250	0	0	+0
<b>Total Project Cost (TPC) 21-D-401</b>	<b>TBD</b>	<b>10,000</b>	<b>40,000</b>	<b>250</b>	<b>0</b>	<b>72,000</b>	<b>+72,000</b>

Idaho

**22-D-403 Idaho Spent Nuclear Fuel Staging Facility (ID-0012B)**

Total Estimate Cost (TEC)	TBD	8,000	0	0	0	0	+0
Other Project Costs (OPC)	TBD	5,000	2,000	800	2,000	2,000	+0
<b>Total Project Cost (TPC) 22-D-403</b>	<b>TBD</b>	<b>13,000</b>	<b>2,000</b>	<b>800</b>	<b>2,000</b>	<b>2,000</b>	<b>+0</b>

**23-D-402 Calcine Construction (ID-0014B)**

Total Estimate Cost (TEC)	TBD	0	0	0	0	0	+0
Other Project Costs (OPC)	TBD	17,000	2,000	4,850	2,000	2,000	+0
<b>Total Project Cost (TPC) 23-D-402</b>	<b>TBD</b>	<b>17,000</b>	<b>2,000</b>	<b>4,850</b>	<b>2,000</b>	<b>2,000</b>	<b>+0</b>

Oak Ridge

Total	Prior Years	FY 2025 Enacted	FY 2025 Actuals	FY 2026 Enacted	FY 2027 Request	FY 2027 Request vs FY 2026 Enacted (\$)
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**17-D-401, On Site Disposal Facility (OR-0041)**

Total Estimate Cost (TEC)	TBD	**	10,000	21,125	54,685	57,628	+2,943
Other Project Costs (OPC)	TBD	**	0	200	560	200	-360
<b>Total Project Cost (TPC) 17-D-401</b>	<b>TBD</b>	<b>153,414</b>	<b>10,000</b>	<b>21,325</b>	<b>55,245</b>	<b>57,828</b>	<b>+2,583</b>

\*\* Congress appropriated line-item funds for TPC beginning in FY 2017.

Portsmouth

**20-U-401, On Site Waste Disposal Facility – Remaining Infrastructure and Cell 2, 3, and 6 Liner Construction**

Total Estimate Cost (TEC)	341,212	208,483	76,610	79,509	27,331	12,500	-14,831
Other Project Costs (OPC)	31,788	14,624	5,390	5,742	2,794	2,500	-294
<b>Total Project Cost (TPC) 20-U-401</b>	<b>373,000</b>	<b>223,107</b>	<b>82,000</b>	<b>85,251</b>	<b>30,125</b>	<b>15,000</b>	<b>-15,125</b>

**25-U-401, On Site Waste Disposal Facility – Liner Buildout and Final Cover System (PO-0040)**

Total Estimate Cost (TEC)	TBD	0	0	0	2,969	500	-2,469
Other Project Costs (OPC)	TBD	0	0	0	906	500	-406
<b>Total Project Cost (TPC) 25-U-401</b>	<b>TBD</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3,875</b>	<b>1,000</b>	<b>-2,875</b>

Total	Prior Years	FY 2025 Enacted	FY 2025 Actuals	FY 2026 Enacted	FY 2027 Request	FY 2027 Request vs FY 2026 Enacted (\$)
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Office of River Protection

**15-D-409 Low-Activity Waste Pretreatment System (ORP-0014)**

Total Estimated Cost (TEC)	TBD	380,053	37,500	23,000	50,000	75,000	+25,000
Other Project Cost (OPC)	TBD	31,181	3,875	700	15,400	25,000	+9,600
<b>Total Project Cost (TPC) 15-D-409</b>	<b>TBD</b>	<b>411,234</b>	<b>41,375</b>	<b>23,700</b>	<b>65,400</b>	<b>100,000</b>	<b>+34,600</b>

**Waste Treatment and Immobilization Plant, Hanford WA (ORP-0060)**

*18-D-16, Waste Treatment and Immobilization Plant LBL/Direct Feed LAW*

Total Estimate Cost (TEC)	9,152,700	8,902,700	250,000	448,190	0	0	+0
Other Project Costs (OPC)	0	0	0	0	0	0	+0
<i>01-D-16D, High-Level Waste Facility</i>							
Total Estimate Cost (TEC)	5,497,391	3,967,391	600,000	500,000	611,585	330,000	-281,585
Other Project Costs (OPC)	0	0	0	0	0	0	+0
<i>01-D-16E Pretreatment Facility</i>							
Total Estimate Cost (TEC)	3,817,050	3,817,050	0	5,000	0	0	+0
Other Project Costs (OPC)	0	0	0	0	0	0	+0
Total Estimate Cost (TEC)	18,467,141	16,687,141	850,000	953,190	611,585	330,000	- 281,585
Other Project Costs (OPC)	0	0	0	0	0	0	+0
<b>Total Project Cost (TPC) 01-D-416</b>	<b>18,467,141</b>	<b>16,687,141</b>	<b>850,000</b>	<b>953,190</b>	<b>611,585</b>	<b>330,000</b>	<b>-281,585</b>

**23-D-403 200 West Area Tank Farms Risk Management Project (ORP-0014)**

Total Estimated Cost (TEC)	TBD	19,717	37,809	0	37,500	90,000	+52,500
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Total	Prior Years	FY 2025 Enacted	FY 2025 Actuals	FY 2026 Enacted	FY 2027 Request	FY 2027 Request vs FY 2026 Enacted (\$)	
Other Project Cost (OPC)	TBD	9,500	6,000	5,462	18,900	19,000	+100
<b>Total Project Cost (TPC) 23-D-403</b>	<b>TBD</b>	<b>29,217</b>	<b>43,809</b>	<b>5,462</b>	<b>56,400</b>	<b>109,000</b>	<b>+52,600</b>
<u>Savannah River</u>							
<b>20-D-401, Saltstone Disposal Unit #10, #11 and #12, SR (SR-0014C)</b>							
Total Estimate Cost (TEC)	451,507	112,787	56,250	56,250	82,500	82,500	+0
Other Project Costs (OPC)	44,493	17,155	6,700	6,700	6,800	6,800	+0
<b>Total Project Cost (TPC) 20-D-401</b>	<b>496,000</b>	<b>129,942</b>	<b>62,950</b>	<b>62,950</b>	<b>89,300</b>	<b>89,300</b>	<b>+0</b>
<b>Total All Construction Projects</b>							
<b>0</b>	<b>19,259,860</b>	<b>17,416,181</b>	<b>1,068,169</b>	<b>1,133,074</b>	<b>866,570</b>	<b>720,128</b>	<b>-140,442</b>
<b>Other Project Costs (OPC)<sup>c</sup></b>	<b>76,281</b>	<b>104,460</b>	<b>65,965</b>	<b>24,704</b>	<b>49,360</b>	<b>58,000</b>	<b>+8,640</b>
<b>Operating Expense Funded (OPEX)</b>	<b>0</b>	<b>15,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>+0</b>
<b>Total Project Cost (TPC) All Construction Projects<sup>d</sup></b>	<b>19,336,141</b>	<b>17,689,055</b>	<b>1,134,134</b>	<b>1,157,778</b>	<b>915,930</b>	<b>778,128</b>	<b>-137,802</b>

# ANCILLARY TABLES

**Environmental Management  
Appropriation/Fund Type/Site (\$K)**

	FY 2025 Enacted	FY 2026 Enacted	FY 2027 Request	FY 2027 Request vs FY 2026 Enacted	
				\$	%
<b>Defense Environmental Cleanup</b>					
<b>Operating</b>					
<b>Carlsbad</b>					
CB-0020	15,309	10,902	11,000	+98	+1%
CB-0080	325,000	280,227	324,020	+43,793	+16%
CB-0081	29,000	27,344	20,000	-7,344	-27%
CB-0083	47,325	57,171	20,000	-37,171	-65%
CB-0090	45,995	45,258	36,000	-9,258	-20%
CB-0100	0	10,000	0	-10,000	-100%
<b>Subtotal, Carlsbad</b>	<b>462,629</b>	<b>430,902</b>	<b>411,020</b>	<b>-19,882</b>	<b>-5%</b>
<b>Idaho</b>					
ID-0012B-D	28,806	34,787	40,977	+6,190	+18%
ID-0013B	156,400	175,270	176,190	+920	+1%
ID-0014B	218,000	239,398	228,223	-11,175	-5%
ID-0030B	20,800	27,762	19,024	-8,738	-31%
ID-0040	11,000	7,783	8,312	+529	+7%
ID-0100	2,705	3,779	3,295	-484	-13%
<b>Subtotal, Idaho</b>	<b>437,711</b>	<b>488,779</b>	<b>476,021</b>	<b>-12,758</b>	<b>-3%</b>
<b>Lawrence Livermore National Lab</b>					
VL-FOO-0013B-D	430	447	447	+0	0%
VL-LLNL-0031	1,449	1,508	1,508	+0	0%
<b>Subtotal, Lawrence Livermore National Lab</b>	<b>1,879</b>	<b>1,955</b>	<b>1,955</b>	<b>+0</b>	<b>0%</b>
<b>Los Alamos National Lab</b>					
CBC-LANL-0040	13,648	1,693	0	-1,693	-100%
VL-FAO-0101	6,111	5,380	6,111	+731	+14%
VL-LANL-0013	127,264	114,552	109,050	-5,502	-5%
VL-LANL-0020	5,000	956	2,000	+1,044	+109%
VL-LANL-0030	152,456	158,356	178,776	+20,420	+13%
<b>Subtotal, Los Alamos National Lab</b>	<b>304,479</b>	<b>280,937</b>	<b>295,937</b>	<b>+15,000</b>	<b>+5%</b>

**Environmental Management/  
Overview**

**FY 2027 Congressional Justification**

<b>Mission Support</b>					
HQ-HBCU-0100	10,000	10,000	10,000	+0	0%
HQ-0020	21,089	2,496	11,000	+8,504	+341%
HQ-MS-0100	7,504	10,320	10,320	+0	0%
<b>Subtotal, Mission Support</b>	<b>38,593</b>	<b>22,816</b>	<b>31,320</b>	<b>+8,504</b>	<b>+37%</b>
<b>Nevada</b>					
VL-NV-0030	37,977	47,480	46,674	-806	-2%
VL-NV-0080	20,223	14,355	12,985	-1,370	-10%
VL-NV-0100	5,177	3,000	5,176	+2,176	+73%
<b>Subtotal, Nevada</b>	<b>63,377</b>	<b>64,835</b>	<b>64,835</b>	<b>+0</b>	<b>0%</b>
<b>Oak Ridge</b>					
OR-0011D	60,000	63,000	70,000	+7,000	+11%
OR-0013B	72,000	75,000	85,800	+10,800	+14%
OR-0020	14,000	14,000	17,000	+3,000	+21%
OR-0041	194,626	175,000	148,411	-26,589	-15%
OR-0042	191,047	225,000	140,886	-84,114	-37%
OR-0100	5,500	5,900	5,100	-800	-14%
OR-TD-0100	3,000	3,300	3,500	+200	+6%
<b>Subtotal, Oak Ridge</b>	<b>540,173</b>	<b>561,200</b>	<b>470,697</b>	<b>-90,503</b>	<b>-16%</b>
<b>Other Sites</b>					
CBC-0100-EM	750	300	300	+0	0%
CBC-0100-FN	500	100	100	+0	0%
CBC-0100-RF	100	100	100	+0	0%
<b>Subtotal, Other Sites</b>	<b>1,350</b>	<b>500</b>	<b>500</b>	<b>+0</b>	<b>0%</b>
<b>Paducah</b>					
PA-0020	16,910	16,434	18,428	+1,994	+12%
<b>Portsmouth</b>					
PO-0020	17,763	17,263	19,231	+1,968	+11%
<b>Program Direction</b>					
HQ-PD-0100	315,747	301,672	283,631	-18,041	-6%
HQ-PDWCF-0100	11,146	11,146	13,687	+2,541	+23%
<b>Subtotal, Program Direction</b>	<b>326,893</b>	<b>312,818</b>	<b>297,318</b>	<b>-15,500</b>	<b>-5%</b>
<b>Richland</b>					
RL-0013C	201,000	245,000	199,000	-46,000	-19%
RL-0020	119,766	119,766	130,000	+10,234	+9%

**Environmental Management/  
Overview**

**FY 2027 Congressional Justification**

RL-0030	142,475	135,439	132,000	-3,439	-3%
RL-0040	43,000	41,000	42,000	+1,000	+2%
RL-0041	112,000	110,000	27,000	-83,000	-75%
RL-0100	11,130	10,700	12,000	+1,300	+12%
RL-0201	453,525	463,333	464,124	+791	0%
<b>Subtotal, Richland River Protection</b>	<b>1,082,896</b>	<b>1,125,238</b>	<b>1,006,124</b>	<b>-119,114</b>	<b>-11%</b>
ORP-0014	847,065	994,000	984,000	-10,000	-1%
ORP-0070	165,003	480,000	466,000	-14,000	-3%
<b>Subtotal, River Protection Sandia National Lab</b>	<b>1,012,068</b>	<b>1,474,000</b>	<b>1,450,000</b>	<b>-24,000</b>	<b>-2%</b>
VL-SN-0030	2,264	1,030	1,030	+0	0%
<b>Savannah River</b>					
SR-0011C	311,343	240,482	271,013	+30,531	+13%
SR-0013	47,951	49,876	48,599	-1,277	-3%
SR-0014C	1,066,000	1,112,955	1,066,000	-46,955	-4%
SR-0020	170,000	70,594	74,835	+4,241	+6%
SR-0030	67,514	84,478	123,032	+38,554	+46%
SR-0041	24,582	21,558	22,976	+1,418	+7%
SR-0042	21,032	0	0	+0	0%
SR-0100	12,389	5,317	5,450	+133	+3%
SR-SRNL-0100	42,000	100,719	90,719	-10,000	-10%
<b>Subtotal, Savannah River</b>	<b>1,762,811</b>	<b>1,685,979</b>	<b>1,702,624</b>	<b>+16,645</b>	<b>+1%</b>
VL-SPRU-0040	1,300	950	950	+0	0%
<b>West Valley Demonstration Project</b>					
OH-WV-0020	7,808	7,589	7,988	+399	+5%
<b>Subtotal, Operating Line Item Construction</b>	<b>6,116,473</b>	<b>6,509,237</b>	<b>6,271,990</b>	<b>-237,247</b>	<b>-4%</b>
<b>Carlsbad</b>					
CB-0080	42,200	0	72,000	+72,000	0%
<b>Idaho</b>					
ID-0012B-D	2,000	2,000	2,000	+0	0%
ID-0014B	2,000	2,000	2,000	+0	0%
ID-0030B	39,300	0	0	+0	0%
<b>Subtotal, Idaho</b>	<b>43,300</b>	<b>4,000</b>	<b>4,000</b>	<b>+0</b>	<b>0%</b>

Environmental Management/  
Overview

FY 2027 Congressional Justification

<b>Oak Ridge</b>					
OR-0041	54,000	54,885	57,828	+2,943	+5%
<b>Richland</b>					
RL-0013C	25,000	35,000	0	-35,000	-100%
RL-0201	22,468	11,418	0	-11,418	-100%
<b>Subtotal, Richland</b>	<b>47,468</b>	<b>46,418</b>	<b>0</b>	<b>-46,418</b>	<b>-100%</b>
<b>River Protection</b>					
ORP-0014	75,309	87,500	165,000	+77,500	+89%
ORP-0060	850,000	611,585	330,000	-281,585	-46%
<b>Subtotal, River Protection</b>	<b>925,309</b>	<b>699,085</b>	<b>495,000</b>	<b>-204,085</b>	<b>-29%</b>
<b>Savannah River</b>					
SR-0014C	56,250	82,500	82,500	+0	0%
SR-0042	0	708	0	-708	-100%
<b>Subtotal, Savannah River</b>	<b>56,250</b>	<b>83,208</b>	<b>82,500</b>	<b>-708</b>	<b>-1%</b>
<b>Subtotal, Line Item Construction</b>	<b>1,168,527</b>	<b>887,596</b>	<b>711,328</b>	<b>-176,268</b>	<b>-20%</b>
<b>Subtotal, Environmental Management</b>	<b>7,285,000</b>	<b>7,396,833</b>	<b>6,983,318</b>	<b>-413,515</b>	<b>-6%</b>
<b>Defense EM Funded UE D&amp;D Fund Contribution</b>					
<b>Operating</b>					
<b>D&amp;D Fund Deposit</b>					
HQ-DD-0100	285,000	0	253,000	+253,000	0%
<b>Non-Defense Environmental Cleanup</b>					
<b>Operating</b>					
<b>Energy Technology Engineering Center</b>					
CBC-ETEC-0040	10,000	10,000	10,000	+0	0%
<b>Idaho</b>					
ID-0012B-N	11,500	12,500	12,500	+0	0%
<b>Mission Support</b>					
HQ-MSF	3,000	3,000	3,000	+0	0%
HQ-MSF-0100	5,000	0	0	+0	0%
<b>Subtotal, Mission Support</b>	<b>8,000</b>	<b>3,000</b>	<b>3,000</b>	<b>+0</b>	<b>0%</b>
<b>Moab</b>					
CBC-MOAB-0031	74,420	64,265	64,265	+0	0%
<b>Other Sites</b>					
<b>Subtotal, Other Sites</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>+0</b>	<b>0%</b>

<b>Paducah</b>					
PA-0011X	76,317	70,416	80,804	+10,388	+15%
<b>Subtotal, Paducah</b>	<b>76,317</b>	<b>70,416</b>	<b>80,804</b>	<b>+10,388</b>	<b>+15%</b>
<b>Portsmouth</b>					
PO-0011X	71,683	72,110	77,841	+5,731	+8%
<b>Richland</b>					
RL-0042	3,200	3,200	3,200	+0	0%
<b>West Valley Demonstration Project</b>					
OH-WV-0013	23,714	14,962	27,944	+12,982	+87%
OH-WV-0040	66,166	74,918	61,936	-12,982	-17%
<b>Subtotal, West Valley Demonstration Project</b>	<b>89,880</b>	<b>89,880</b>	<b>89,880</b>	<b>+0</b>	<b>0%</b>
<b>Subtotal, Operating</b>	<b>345,000</b>	<b>325,371</b>	<b>341,490</b>	<b>+16,119</b>	<b>+5%</b>
<b>Uranium Enrichment Decontamination and Decommissioning Fund</b>					
<b>Operating</b>					
<b>Mission Support</b>					
HQ-UR-0100	0	5,115	5,115	+0	0%
<b>Oak Ridge</b>					
OR-0040	91,000	75,000	65,000	-10,000	-13%
OR-0102	9,792	10,115	10,115	+0	0%
<b>Subtotal, Oak Ridge</b>	<b>100,792</b>	<b>85,115</b>	<b>75,115</b>	<b>-10,000</b>	<b>-12%</b>
<b>Paducah</b>					
PA-0040	247,552	240,209	270,707	+30,498	+13%
PA-0045	0	0	50	+50	0%
PA-0102	0	30	20	-10	-33%
PA-0103	2,838	2,865	3,589	+724	+25%
<b>Subtotal, Paducah</b>	<b>250,390</b>	<b>243,104</b>	<b>274,366</b>	<b>+31,262</b>	<b>+13%</b>
<b>Portsmouth</b>					
PO-0040	418,258	453,106	480,480	+27,374	+6%
PO-0103	125	125	82	-43	-34%
PO-0104	3,435	3,435	3,425	-10	0%
<b>Subtotal, Portsmouth</b>	<b>421,818</b>	<b>456,666</b>	<b>483,987</b>	<b>+27,321</b>	<b>+6%</b>
<b>Subtotal, Operating Construction</b>	<b>773,000</b>	<b>790,000</b>	<b>838,583</b>	<b>+48,583</b>	<b>+6%</b>

<b>Portsmouth</b>					
Subtotal, Portsmouth	82,000	34,000	16,000	-18,000	-53%
<b>Subtotal, Uranium Enrichment Decontamination and Decommissioning Fund</b>	<b>855,000</b>	<b>865,000</b>	<b>854,583</b>	<b>-10,417</b>	<b>-1%</b>
<b>Subtotal, Environmental Cleanup</b>	<b>8,770,000</b>	<b>8,587,204</b>	<b>8,432,391</b>	<b>-154,813</b>	<b>-2%</b>
D&D Fund Offset	-285,000	0	-253,000	-253,000	0%
Mercury Storage Receipts	-3,000	-3,000	-3,000	+0	0%
UE D&D Contribution	0	0	0	+0	0%
<b>Total, Environmental Cleanup</b>	<b>8,482,000</b>	<b>8,562,371</b>	<b>8,176,391</b>	<b>-385,980</b>	<b>-5%</b>

### Summary

	FY 2025 Enacted	FY 2026 Enacted	FY 2027 Request	FY 2027 Request vs FY 2026 Enacted	
				\$	%
<b>Defense Environmental Cleanup</b>					
Operating	6,116,473	6,509,237	6,271,990	-237,247	-4%
Line Item Construction	1,168,527	887,596	711,328	-176,268	-20%
Subtotal, Defense Environmental Cleanup	7,285,000	7,396,833	6,983,318	-413,515	-6%
<b>Defense EM Funded UE D&amp;D Fund Contribution</b>					
Operating	285,000	0	253,000	+253,000	0%
Line Item Construction	0	0	0	+0	0%
Subtotal, Defense Environmental Cleanup	285,000	0	253,000	+253,000	0%
<b>Non-Defense Environmental Cleanup</b>					
Operating	345,000	325,371	341,490	+16,119	+5%
Line Item Construction	0	0	0	+0	0%
Subtotal, Non-Defense Environmental Cleanup	345,000	325,371	341,490	+16,119	+5%
<b>Uranium Enrichment Decontamination and Decommissioning Fund</b>					
Operating	773,000	790,000	838,583	+48,583	+6%
Line Item Construction	82,000	75,000	16,000	-59,000	-79%

Subtotal, Uranium Enrichment Decontamination and Decommissioning Fund	855,000	865,000	854,583	-10,417	-1%
<b>Subtotal, Environmental Cleanup</b>	<b>8,770,000</b>	<b>8,587,204</b>	<b>8,432,391</b>	<b>-154,813</b>	<b>-2%</b>
Offsets	-288,000	-24,833	-256,000	-231,167	+931%
<b>Total, Environmental Cleanup</b>	<b>8,482,000</b>	<b>8,562,371</b>	<b>8,176,391</b>	<b>-385,980</b>	<b>-5%</b>
Total Operating	7,519,473	7,624,608	7,705,063	+80,455	+1%
Total Line Item Construction	1,250,527	962,596	727,328	-235,268	-24%
<b>Subtotal, Environmental Management</b>	<b>8,770,000</b>	<b>8,587,204</b>	<b>8,432,391</b>	<b>-154,813</b>	<b>-2%</b>
Offsets	-288,000	-24,833	-256,000	-231,167	+931%
<b>Total, Environmental Management</b>	<b>8,482,000</b>	<b>8,562,371</b>	<b>8,176,391</b>	<b>-385,980</b>	<b>-5%</b>

### Environmental Management Federal Staffing

	FY2025 Enacted	FY2026 Enacted	FY2027 Request	FY 2027 Request vs FY 2026 Enacted	
				\$	%
Carlsbad	51	48	48	0	0%
Idaho	40	38	38	0	0%
Oak Ridge	71	65	65	0	0%
Portsmouth/Paducah Project Office	52	48	48	0	0%
Richland	180	160	160	0	0%
River Protection	95	85	85	0	0%
Savannah River	176	135	135	0	0%
Small Sites	23	20	20	0	0%
Nevada Site Office	13	12	12	0	0%
Los Alamos Site Office	22	25	25	0	0%
<b>Subtotal, Field, Full-Time Equivalents</b>	<b>723</b>	<b>636</b>	<b>636</b>	<b>0</b>	<b>0%</b>
HQ Operations	339	235	205	-30	-13%
Consolidated Business Center	152	129	129	0	0%
<b>Total, Field, Full-Time Equivalents</b>	<b>1,214</b>	<b>1,000</b>	<b>970</b>	<b>-30</b>	<b>-3%</b>

### Environmental Management Project Schedule Range

(Single date indicates both lower and higher confidence level dates are the same.)

Site	Completion Date
Energy Technology Engineering Center	2045
Separations Process Research Unit	2030
Lawrence Livermore National Laboratory	2033
Sandia National Laboratory	2030
Nevada Nuclear Security Site	2045
Moab	2029-2033
Waste Isolation Pilot Plant (Carlsbad)	Supporting Mission <sup>a</sup>
Los Alamos National Laboratory	2043
West Valley Demonstration Project	2051
Idaho National Laboratory	2087-2094
Portsmouth Gaseous Diffusion Plant	2058-2060
Oak Ridge	2047
Paducah Gaseous Diffusion Plant	2082
Savannah River Site	2080-2088
Hanford Site	2086-2100

<sup>a</sup> As a facility that supports the completion of EM work at other sites, the Waste Isolation Pilot Plant end date will be determined by the completion of cleanup at other sites, as well as the achievement of its capacity, as defined in the *WIPP Land Withdrawal Act of 1992*.

**Environmental Management  
Lifecycle Cost by Project Baseline Summary (PBS) (\$M)**

PBS Name	Prior Cost	Lifecycle Cost Remaining (FY 2026 to FY 2100)		Lifecycle Total	
	(97-2025)	Low Range	High Range	Low Range	High Range
<b>ACTIVE SITES</b>					
<b>Carlsbad</b>					
CB-0020	122	486	561	609	683
CB-0083	131	403	461	535	592
CB-0100	11	-	-	11	11
CB-0900	7	-	-	7	7
CB-0080	5,865	11,153	12,873	17,019	18,738
CB-0081	575	381	439	956	1,014
CB-0082	97	-	-	97	97
CB-0090	705	732	844	1,437	1,549
CB-0101	289	-	-	289	289
<b>TOTAL</b>	<b>7,803</b>	<b>13,156</b>	<b>15,178</b>	<b>20,959</b>	<b>22,981</b>
<b>Idaho</b>					
HQ-SNF-0012X	60	-	-	60	60
HQ-SNF-0012X-ID	19	-	-	18,995	18,995
HQ-SNF-0012Y	67	-	-	67	67
ID-0011	19	-	-	19	19
ID-0012B-D	955	5,350	5,645	6,304	6,600
ID-0012B-N	156	455	487	611	643
ID-0012C	20	-	-	20	20
ID-0013B	5,281	1,768	1,933	7,050	7,214

ID-0014B	4,124	10,516	11,603	14,640	15,727
ID-0014B-T	71	-	-	71	71
ID-0030B	1,848	709	772	2,557	2,620
ID-0040-EF	3	-	-	3	3
ID-0040	905	1,378	1,676	2,283	2,581
ID-0050B	123	-	-	123	123
ID-0100	112	43	45	155	157
ID-0900	310	-	-	310	310
<b>TOTAL</b>	<b>14,073</b>	<b>20,219</b>	<b>22,161</b>	<b>34,291</b>	<b>36,233</b>
<b>Oak Ridge</b>					
HQ-SW-0013X	92	-	-	92	92
HQ-SW-0013X-OR	144	-	-	144	144
HQ-SW-0013Y-OR	208	-	-	208	208
OR-0011D	697	398	405	1,095	1,102
OR-0011Y	52	-	-	52	52
OR-0011Z	164	-	-	164	164
OR-0013A	465	-	-	465	465
OR-0013B	2,323	1,171	1,194	3,494	3,517
OR-0020	413	398	401	811	814
OR-0030	351	8	9	359	360
OR-0031	60	10	10	70	70
OR-0040	4,724	394	396	5,118	5,120
OR-0041	2,224	4,915	4,942	7,139	7,166
OR-0042	2,248	3,771	3,797	6,019	6,045
OR-0042-IFDP	-	-	-	-	-

OR-0043	87	-	-	87	87
OR-0044-EF	125	-	-	125	125
OR-0100	179	166	166	345	345
OR-0101	105	-	-	105	105
OR-0102	439	135	135	573	573
OR-0103	44	-	-	44	44
OR-0104	30	-	-	30	30
OR-0900-D	17	-	-	17	17
OR-0900-N	619	-	-	619	619
OR-TD-0100	33	17	17	50	50
<b>TOTAL</b>	<b>15,842</b>	<b>11,383</b>	<b>11,472</b>	<b>27,225</b>	<b>27,314</b>
<b>Paducah</b>					
PA-0011	61	(1)	(1)	60	60
PA-0011X	1,295	13,749	14,290	15,044	15,585
PA-0013	285	-	-	285	285
PA-0020	245	1,230	1,780	1,475	2,026
PA-0040	3,944	35,573	40,492	39,516	44,436
PA-0100	11	-	-	11	11
PA-0101	(2)	-	-	(2)	(2)
PA-0102	42	3	3	45	45
PA-0103	56	198	243	254	299
<b>TOTAL</b>	<b>5,936</b>	<b>50,752</b>	<b>56,808</b>	<b>56,688</b>	<b>62,744</b>
<b>Portsmouth</b>					
PO-0011	107	-	-	107	107
PO-0011X	1,313	5,156	5,530	6,470	6,843

PO-0013	445	-	-	445	445
PO-0020	349	786	788	1,135	1,137
PO-0040	5,992	10,770	10,951	16,761	16,943
PO-0041	69	-	-	69	69
PO-0101	366	-	-	366	366
PO-0103	15	3	3	18	18
PO-0104	32	108	109	140	141
<b>TOTAL</b>	<b>8,688</b>	<b>16,823</b>	<b>17,381</b>	<b>25,510</b>	<b>26,069</b>
<b>Richland</b>					
HQ-SNF-0012X-RL	3	-	-	3	3
RL-0011	3,039	-	-	3,039	3,039
RL-0012	3,088	-	-	3,088	3,088
RL-0013B	1	-	-	1	1
RL-0013C	4,554	23,466	40,790	28,020	45,345
RL-0020	1,757	20,389	34,602	22,145	36,358
RL-0030	3,367	19,100	19,584	22,467	22,951
RL-0040	2,751	39,802	39,992	42,553	42,743
RL-0041	5,684	6,607	7,184	12,291	12,868
RL-0042	347	1,193	1,241	1,540	1,588
RL-0043	7	-	-	7	7
RL-0044	2	-	-	2	2
RL-0080	71	-	-	71	71
RL-0100	425	2,307	2,438	2,732	2,862
RL-0201	2,609	118,322	123,126	120,931	125,734
RL-0900	133	-	-	133	133

<b>TOTAL</b>	<b>27,837</b>	<b>231,185</b>	<b>268,957</b>	<b>259,023</b>	<b>296,794</b>
<b>River Protection</b>					
ORP-0014	15,023	197,217	320,190	212,241	335,213
ORP-0014A	11	-	-	11	11
ORP-0060	17,841	12,340	13,823	30,181	31,665
ORP-0061	433	-	-	433	433
ORP-0070	139	-	-	139	139
ORP-0100	1	-	-	1	1
ORP-TD-0100	0	-	-	0	0
ORP-TDD-0014	0	-	-	0	0
<b>TOTAL</b>	<b>33,450</b>	<b>209,557</b>	<b>334,013</b>	<b>243,007</b>	<b>367,463</b>
<b>Savannah River</b>					
SR-0100	341	531	531	872	872
SR-0101	428	-	-	428	428
SR-0900	198	-	-	198	198
HQ-SNF-0012X-SR	68	-	-	68	68
SR-0011A	134	-	-	134	134
SR-0011B	3,640	-	-	3,640	3,640
SR-0011C	6,184	10,797	16,512	16,981	22,696
SR-0012	680	-	-	680	680
SR-0013	2,437	8,789	12,240	11,226	14,677
SR-0014C	20,050	16,541	22,221	36,591	42,271
SR-0014C-T	138	-	-	138	138
SR-0020	3,566	8,468	8,720	12,034	12,286
SR-0030	2,771	9,822	14,452	12,594	17,223

SR-0040	494	-	-	494	494
SR-0040B	1	-	-	1	1
SR-0041	172	780	780	952	952
SR-0042	213	194	194	407	407
SR-SRNL-0100	121	2,970	2,970	3,090	3,090
<b>TOTAL</b>	<b>41,635</b>	<b>58,892</b>	<b>78,619</b>	<b>100,527</b>	<b>120,254</b>
<b>Lawrence Livermore</b>					
CBC-LLNL-0040	101	37	111	138	213
HQ-SW-0013Y-LLNL	159	-	-	159	159
VL-FOO-0013B-D	17	4	4	20	20
VL-LLNL-0013	72	-	-	72	72
VL-LLNL-0030	136	-	-	136	136
VL-LLNL-0031	155	61	78	216	233
<b>TOTAL</b>	<b>640</b>	<b>102</b>	<b>193</b>	<b>742</b>	<b>833</b>
<b>Los Alamos</b>					
VL-FAO-0101	134	83	83	217	217
VL-LANL-0013	1,977	1,116	1,751	3,094	3,729
VL-LANL-0020	6	129	129	135	135
VL-LANL-0030	3,003	3,228	5,873	6,230	8,876
VL-LANL-0040-D	-	14	14	14	14
VL-LANL-0040-N	-	-	-	-	-
CBC-LANL-0040	80	-	43	80	124
<b>TOTAL</b>	<b>5,200</b>	<b>4,570</b>	<b>7,893</b>	<b>9,770</b>	<b>13,094</b>
<b>Nevada</b>					
NV-0030	88	-	-	88	88
VL-NV-0013	108	-	-	108	108

VL-NV-0030	1,453	220	249	1,673	1,703
VL-NV-0080	378	492	525	871	904
VL-NV-0100	110	85	89	196	199
<b>TOTAL</b>	<b>2,138</b>	<b>798</b>	<b>864</b>	<b>2,936</b>	<b>3,002</b>
<b>Sandia</b>					
VL-SN-0030	283	9	10	292	293
<b>TOTAL</b>	<b>283</b>	<b>9</b>	<b>10</b>	<b>292</b>	<b>293</b>
<b>Separations Process Research Unit</b>					
VL-SPRU-0040	258	19	19	277	277
<b>TOTAL</b>	<b>258</b>	<b>19</b>	<b>19</b>	<b>277</b>	<b>277</b>
<b>West Valley</b>					
OH-WV-0012	32	-	-	32	32
OH-WV-0013	484	402	1,864	886	2,348
OH-WV-0020	76	183	183	259	259
OH-WV-0040	1,499	2,033	2,344	3,532	3,843
OH-WV-0100	0	-	-	0	0
<b>TOTAL</b>	<b>2,091</b>	<b>2,617</b>	<b>4,391</b>	<b>4,708</b>	<b>6,482</b>
<b>Energy Technology Engineering Center</b>					
CBC-ETEC-0040	427	281	281	708	708
VL-ETEC-0040	2	-	-	2	2
<b>TOTAL</b>	<b>429</b>	<b>281</b>	<b>281</b>	<b>710</b>	<b>710</b>
<b>Moab</b>					
CBC-MOAB-0031	971	187	193	1,158	1,164
<b>TOTAL</b>	<b>971</b>	<b>187</b>	<b>193</b>	<b>1,158</b>	<b>1,164</b>
<b>Other Sites</b>					
CBC-0040-EF	29	-	-	29	29
CBC-0100-EM	7	14	14	21	21

CBC-0100-FN	70	6	6	76	76
CBC-0100-MD	2	-	-	2	2
CBC-0100-RF	48	0	0	48	48
CBC-ND-0100	11	-	-	11	11
CBC-UM-0100	0	-	-	0	0
OH-FN-0100	-	-	-	-	-
<b>TOTAL</b>	<b>168</b>	<b>20</b>	<b>20</b>	<b>188</b>	<b>188</b>
<b>Mission Support</b>					
HQ-CDP-0100-N	(0)	-	-	(0)	(0)
HQ-MS-0100	927	757	878	1,684	1,805
HQ-MSF	4	-	-	4	4
HQ-SS-0020	0	-	-	0	0
HQ-TD-0100	2,000	1,402	1,460	3,402	3,460
EM-HBCU-0100	52	-	-	52	52
<b>TOTAL</b>	<b>2,982</b>	<b>2,160</b>	<b>2,339</b>	<b>5,142</b>	<b>5,321</b>
<b>Program Direction</b>					
HQ-PD-0100	8,513	18,331	19,245	26,844	27,759
<b>TOTAL</b>	<b>8,513</b>	<b>18,331</b>	<b>19,245</b>	<b>26,844</b>	<b>27,759</b>
<b>SUBTOTAL ACTIVE SITES</b>	<b>178,939</b>	<b>641,058</b>	<b>840,034</b>	<b>819,997</b>	<b>1,018,973</b>

**COMPLETED  
SITES**

<b>Argonne</b>					
CH-ANLW-0030	8	-	-	8	8
CH-ANLE-0030	30	-	-	30	30
CH-ANLE-0040	149	-	-	149	149
<b>TOTAL</b>	<b>187</b>	<b>-</b>	<b>-</b>	<b>187</b>	<b>187</b>

Ashtabula					
OH-AB-0030	138	-	-	138	138
<b>TOTAL</b>	<b>138</b>	<b>-</b>	<b>-</b>	<b>138</b>	<b>138</b>
Brookhaven					
BRNL-0030	262	-	-	262	262
BRNL-0040	137	-	-	137	137
BRNL-0041	86	-	-	86	86
BRNL-0100	3	-	-	3	3
<b>TOTAL</b>	<b>488</b>	<b>-</b>	<b>-</b>	<b>488</b>	<b>488</b>
California Site Support					
VL-FOO-0100-D	6	-	-	6	6
CBC-CA-0013B-N	6	-	-	6	6
CBC-CA-0100-N	3	-	-	3	3
VL-FOO-0013B-N	0	-	-	0	0
VL-FOO-0100-N	0	-	-	0	0
VL-FOO-0900-N	21	-	-	21	21
<b>TOTAL</b>	<b>36</b>	<b>-</b>	<b>-</b>	<b>36</b>	<b>36</b>
Chicago Operations Office					
CH-OPS-0900	99	-	-	99	99
<b>TOTAL</b>	<b>99</b>	<b>-</b>	<b>-</b>	<b>99</b>	<b>99</b>
Columbus					
OH-CL-0040	172	-	-	172	172
<b>TOTAL</b>	<b>172</b>	<b>-</b>	<b>-</b>	<b>172</b>	<b>172</b>
Fernald					
OH-FN-0013	1,627	-	-	1,627	1,627
OH-FN-0020	16	-	-	16	16
OH-FN-0030	1,338	-	-	1,338	1,338

OH-FN-0050	226	-	-	226	226
OH-FN-0101	14	-	-	14	14
<b>TOTAL</b>	<b>3,220</b>	<b>-</b>	<b>-</b>	<b>3,220</b>	<b>3,220</b>
<b>General Atomics</b>					
VL-GA-0012	15	-	-	15	15
<b>TOTAL</b>	<b>15</b>	<b>-</b>	<b>-</b>	<b>15</b>	<b>15</b>
<b>Inhalation Toxicology Laboratory</b>					
CBC-ITL-0030	13	-	-	13	13
VL-ITL-0030	0	-	-	0	0
<b>TOTAL</b>	<b>13</b>	<b>-</b>	<b>-</b>	<b>13</b>	<b>13</b>
<b>Kansas City Plant</b>					
VL-KCP-0030	30	-	-	30	30
VL-KCP-0040	0	-	-	0	0
<b>TOTAL</b>	<b>30</b>	<b>-</b>	<b>-</b>	<b>30</b>	<b>30</b>
<b>Laboratory for Energy-Related Health Research</b>					
LEHR-0040	40	-	-	40	40
VL-LEHR-0040	1	-	-	1	1
<b>TOTAL</b>	<b>40</b>	<b>-</b>	<b>-</b>	<b>40</b>	<b>40</b>
<b>Lawrence Berkeley</b>					
CBC-LBNL-0030	35	-	-	35	35
CBC-LBNL-0040	117	-	-	117	117
VL-LBNL-0030	2	-	-	2	2
<b>TOTAL</b>	<b>154</b>	<b>-</b>	<b>-</b>	<b>154</b>	<b>154</b>
<b>Miamisburg</b>					
OH-MB-0013	265	-	-	265	265
OH-MB-0020	28	-	-	28	28
OH-MB-0030	265	-	-	265	265

OH-MB-0031	18	-	-	18	18
OH-MB-0040	(0)	-	-	(0)	(0)
OH-MB-0100	87	-	-	87	87
OH-MB-0101	10	-	-	10	10
<b>TOTAL</b>	<b>671</b>	<b>-</b>	<b>-</b>	<b>671</b>	<b>671</b>
<b>New Mexico Site Support</b>					
VL-FAO-0100-D	109	-	-	109	109
VL-FAO-0100-N	15	-	-	15	15
VL-FAO-0900	233	-	-	233	233
<b>TOTAL</b>	<b>357</b>	<b>-</b>	<b>-</b>	<b>357</b>	<b>357</b>
<b>NNSA Service Center</b>					
VL-SV-0100	6	-	-	6	6
<b>TOTAL</b>	<b>6</b>	<b>-</b>	<b>-</b>	<b>6</b>	<b>6</b>
<b>Ohio Field Office</b>					
OH-OPS-0900-D	58	-	-	58	58
OH-OPS-0900-N	397	-	-	397	397
<b>TOTAL</b>	<b>455</b>	<b>-</b>	<b>-</b>	<b>455</b>	<b>455</b>
<b>Pantex</b>					
VL-PX-0030	191	-	-	191	191
VL-PX-0040	15	-	-	15	15
<b>TOTAL</b>	<b>206</b>	<b>-</b>	<b>-</b>	<b>206</b>	<b>206</b>
<b>Princeton</b>					
CH-PPPL-0030	0	-	-	0	0
<b>TOTAL</b>	<b>0</b>	<b>-</b>	<b>-</b>	<b>0</b>	<b>0</b>
<b>Rocky Flats</b>					
RF-0011	470	-	-	470	470
RF-0013	893	-	-	893	893

RF-0020	300	-	-	300	300
RF-0030	2,089	-	-	2,089	2,089
RF-0040	1,921	-	-	1,921	1,921
RF-0041	757	-	-	757	757
CBC-RF-0102	3	-	-	3	3
RF-0100	103	-	-	103	103
RF-0101	37	-	-	37	37
<b>TOTAL</b>	<b>6,573</b>	<b>-</b>	<b>-</b>	<b>6,573</b>	<b>6,573</b>
<b>SEFOR</b>					
CBC-SEFOR-0040N	24	-	-	24	24
<b>TOTAL</b>	<b>24</b>	<b>-</b>	<b>-</b>	<b>24</b>	<b>24</b>
<b>Stanford Linear Accelerator Center</b>					
CBC-SLAC-0030	69	-	-	69	69
VL-SLAC-0030	1	-	-	1	1
<b>TOTAL</b>	<b>70</b>	<b>-</b>	<b>-</b>	<b>70</b>	<b>70</b>
<b>Tuba City</b>					
CBC-TUBA-0031	1	-	-	1	1
<b>TOTAL</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>1</b>
<b>SUBTOTAL COMPLETED SITES</b>	<b>12,954</b>	<b>0</b>	<b>0</b>	<b>12,954</b>	<b>12,954</b>
<b>EM GRAND TOTAL</b>	<b>191,893</b>	<b>641,058</b>	<b>840,034</b>	<b>832,951</b>	<b>1,031,927</b>

Note: Year-to-year changes in estimated remaining lifecycle cost are substantially driven by updated escalation assumptions. Long-duration projects are especially sensitive to fluctuations in projected future escalation/inflation, even when the underlying lifecycle scope hasn't materially changed.

## Carlsbad

### Overview

The Carlsbad Field Office (CBFO) supports ongoing national security missions and the cleanup of radioactive and chemical waste resulting from the Manhattan Project and Cold War activities. The Carlsbad Field Office is responsible for the National Transuranic Waste Program and the Waste Isolation Pilot Plant (WIPP), the nation's only deep geologic repository that permanently disposes of defense-generated transuranic waste. The National Transuranic Waste Program coordinates with DOE generator sites to retrieve, repackage, characterize, ship, and dispose of defense transuranic waste, reducing risks to the Nation and public while decreasing nuclear footprints. Based on current estimates, the Office of Environmental Management (EM) is responsible for addressing \$9 billion in identified transuranic waste (TRU) clean-up liability across the EM sites – roughly 2 percent of the \$418 billion total liability across all EM sites. Successful implementation of current plans and milestones would result in completion of the identified TRU clean-up mission in the 2080 to 2090 timeframe.

Direct maintenance and repair for operations at WIPP is estimated to be \$20,000,000 in FY 2027.

### Highlights of the FY 2027 Budget Request

This request supports disposal facility operations, regulatory and environmental compliance actions, the Central Characterization Project (which performs transuranic waste characterization and certification activities) and transuranic waste transportation to maintain progress toward transuranic waste removal milestones from generator sites, maintaining and modernizing facilities infrastructure, continued emphasis on prioritized maintenance and repair of infrastructure, minor construction projects to enhance the WIPP serviceable life, physical security and cyber security, and continued progress on the Hoisting Capability project (21-D-401) which will address the hoisting needs of the WIPP for approximately the next fifty years.

In FY 2027, within Operate Waste Disposal Facility (Carlsbad-0080), the WIPP will work with the New Mexico Environment Department to obtain regulatory approval for continued use of water control ponds as well as other improvements at the WIPP. In FY 2027, funding is being requested for the Hoisting Capability project (21-D-401). The Hoisting Capability project is vital to the long-term viability of operations at the WIPP. This project will provide safe, efficient, and reliable hoisting systems for mined salt, equipment, and personnel. It will also provide backup capability for waste hoist operations (excluding waste transport). Within Central Characterization Project (Carlsbad-0081), overall management and administration of transuranic waste characterization program certifications and transportation certification activities performed by the Central Characterization Project are supported for Savannah River Site, Oak Ridge National Laboratory, Lawrence Livermore National Laboratory, Hanford, Argonne National Laboratory, and Los Alamos National Laboratory in FY 2027. The total number of waste streams has increased as waste streams are further examined. Therefore, it is critical for the Central Characterization Project to accelerate its ability to efficiently certify waste streams. The project activities within Critical Infrastructure Repair/Replacement Waste Isolation Pilot Plant (Carlsbad-0083) include General Plant Projects, Maintenance and Repair Projects, and Major Items of Equipment to address the Waste Isolation Pilot Plant's degraded and beyond design life infrastructure that is caused by the harsh environmental conditions of salt dust, high heat, and high humidity (during the summer monsoonal seasons) combined with historical management practices that deferred routine maintenance and repair. Transportation activities within Transportation-WIPP (Carlsbad-0090) include support of a core shipping capability for transuranic waste shipments to the Waste Isolation Pilot Plant, U.S. Nuclear Regulatory Commission licensed Type B transportation packages, maintenance and support for transportation packages, U.S. Nuclear Regulatory Commission Certificate of Compliance maintenance for transportation containers, and

maintenance of established shipping corridors and associated stakeholder support activities with state organizations and consultation with Tribal Nations. Safeguards and Security (Carlsbad-0020) provides physical security and cyber security coverage at the Waste Isolation Pilot Plant.

### **FY 2026 - 2027 Key Milestones/Outlook**

- (December 2026) Expected achievement of CD-1 for the Hoisting Capability project.
- (July 2026) 5-Year Waste Isolation Pilot Plant Discharge Permit Renewal Application.
- (April 2027) Completion of Waste Hoist infrastructure and control system repairs.
- (September 2027) Ongoing repair/replacement of critical infrastructure.

### **Regulatory Framework**

The WIPP has five primary regulators: 1) the U.S. Environmental Protection Agency, which regulates radioactive (transuranic) constituents and certifies that WIPP will comply with the long-term radioactive waste disposal regulations (40 Code of Federal Regulations Part 191, Subparts B and C); 2) the New Mexico Environment Department, which regulates the hazardous constituents of waste in accordance with the requirements in the WIPP Hazardous Waste Facility Permit (Resource Conservation and Recovery Act Permit for the repository during the operational time frame); 3) the U.S. Nuclear Regulatory Commission, which certifies the design and capability of Type B radioactive material shipping packages; 4) the U.S. Department of Transportation, which regulates highway transportation and radioactive and hazardous material shipping packages; and 5) the U.S. Mine Safety and Health Administration, which is responsible for quarterly Waste Isolation Pilot Plant inspections.

### **Contractual Framework**

Program planning and management at the CBFO is conducted through the issuance and execution of contracts and task orders to large and small businesses. The CBFO develops near-term and long-term planning approaches to develop contract strategies and operations plans at a more detailed level. Selected contractors then execute these plans to perform the cleanup mission.

The WIPP contract is a Management and Operating contract. A new Management and Operating contract was awarded in July 2022 and began executing in February of FY 2023. The contract is a cost-plus award fee basis (with mostly performance-based incentives) with an original base performance period of February 4, 2023, to November 7, 2026, with six additional one-year option periods.

The WIPP is managed and operated by a Management and Operating (M&O) contractor. In July of 2022, a new M&O contract was awarded. After the contract transition period, DOE CBFO reviewed and approved the new M&O contractor's Declaration of Readiness to Accept Responsibility for Operation of the Waste Isolation Pilot Plant site, effective February 4, 2023. The M&O contract type is Cost Plus Award Fee which utilizes a Performance Evaluation and Measurement Plan as a tool for contract oversight. The Performance Evaluation and Measurement Plan is made up of both subjective and objective criteria; the objective criteria are in the form of Performance Based Incentives.

The CBFO also manages contracts, task orders, cooperative and financial agreements, interagency agreements, purchase orders, work authorizations, and grants that provide management and scientific analysis, technical assistance, oversight, site integration, transportation and emergency management services, waste transportation

tracking and communications support, and community support for workforce development training at local and DOE facilities to ensure efforts at the WIPP site are conducted safely, effectively, and efficiently and ensure the mission is successful. The transportation services prime contract is a \$100M indefinite delivery/indefinite quantity contract with a one-year base year period (a two-month transition and ten-month period) and four one-year option periods, for a total of five years. The contract period of performance is through July 2027.

### **Strategic Management**

The DOE will work to reduce contamination and dispose of transuranic waste from across the complex. The CBFO and the WIPP are the cornerstone to the ultimate cleanup of transuranic waste across the DOE complex, as well as supporting other DOE national security mission programs.

**Carlsbad**

**Funding (\$K)**

	FY 2025 Enacted	FY 2026 Enacted	FY 2027 Request	FY 2027 Request vs FY 2026 Enacted	
				\$	%
<b>Defense Environmental Cleanup</b>					
<b>Waste Isolation Pilot Plant</b>					
<b>Waste Isolation Pilot Plant</b>					
CB-0080 / Operate Waste Disposal Facility					
Operating	325,000	280,227	324,020	+43,793	+16%
Construction					
15-D-411: Safety Significant Confinement Ventilation System	1,000	0	0	+0	0%
15-D-412: Utility Shaft	1,200	0	0	+0	0%
21-D-401: Hoisting Capability Project	40,000	0	72,000	+72,000	0%
	<hr/> 367,200	<hr/> 280,227	<hr/> 396,020	<hr/> +115,793	<hr/> +41%
CB-0081 / Central Characterization Project	29,000	27,344	20,000	-7,344	-27%
CB-0083 / Critical Infrastructure Repair/Replacement	47,325	57,171	20,000	-37,171	-65%
CB-0090 / Transportation	45,995	45,258	36,000	-9,258	-20%
<b>WIPP Community and Regulatory Support</b>					
CB-0100 / Community and Regulatory Support	0	10,000	0	-10,000	-100%
<b>Subtotal, Waste Isolation Pilot Plant</b>	<hr/> <b>489,520</b>	<hr/> <b>420,000</b>	<hr/> <b>472,020</b>	<hr/> <b>+52,020</b>	<hr/> <b>+12%</b>
<b>Safeguards and Security</b>					
CB-0020 / Safeguards and Security	15,309	10,902	11,000	+98	+1%
<b>Total, Defense Environmental Cleanup</b>	<hr/> <b>504,829</b>	<hr/> <b>430,902</b>	<hr/> <b>483,020</b>	<hr/> <b>+52,118</b>	<hr/> <b>+12%</b>

**Carlsbad**  
**Explanation of Major Changes (\$K)**

		<b>FY 2027 Request vs FY 2026 Enacted</b>
<b>FY 2026 Enacted</b>	<b>FY 2027 Request</b>	

**Defense Environmental Cleanup**

**Waste Isolation Pilot Plant**

**CB-0080 / Operate Waste Disposal Facility**

- Increase to the Waste Isolation Pilot Plant operations will address the escalated costs associated with disposal facility operations, environmental compliance actions, and funding the Hoisting Capability Project. Funding these activities will ensure continued progress toward meeting EM’s transuranic waste removal/emplacement milestones.

280,227    396,020    +115,793

**CB-0081 / Central Characterization Project**

- Decrease will maintain all requirement characterization and certification activities.

27,344    20,000    -7,344

**CB-0083 / Critical Infrastructure Repair/Replacement**

- Decrease reflects funding necessary to execute the minor construction projects planned for FY 2027 in accordance with the WIPP Integrated Priority List. These projects will improve the WIPP’s overall logistical processing, worker safety and mine capacity to help sustain future waste emplacement operations.

57,171    20,000    -37,171

**CB-0090 / Transportation**

- Decrease represents new economies of scale procurement strategies while still maintaining a focus on waste certifications, maintenance/repair of Type B packaging, and adequate bench stock levels to enable the accomplishment of planned waste shipments to WIPP.

45,258    36,000    -9,258

**CB-0100 / Community and Regulatory Support**

- The decrease is due to a one-time payment of \$10,000,000 in FY 2026 to the State of New Mexico for WIPP route related road infrastructure projects. These funds shall only be used for projects mutually agreed to by the Department and the State of New Mexico.

10,000    0    -10,000

**Safeguards and Security**

**CB-0020 / Safeguards and Security**

- Increase will maintain a focus on cyber and physical security requirements necessary with the implementations of revised Safeguards and Security DOE Orders, EM Cyber Security Program Plan; including Zero Trust, network infrastructure upgrades, and endpoint detection and response implementation.

10,902    11,000    +98

**Total, Carlsbad**

**430,902    483,020    +52,118**

## **Operate Waste Disposal Facility (PBS: CB-0080)**

### **Overview**

This PBS can be found within the Defense Environmental Cleanup appropriation.

This PBS includes all activities necessary for the disposal of contact-handled and remote-handled transuranic waste at the Waste Isolation Pilot Plant. Key operations elements include: 1) operation of the disposal facility – including mining, waste handling, and the maintenance/repair of infrastructure to safely maintain the facility and operations in compliance with all Federal and state laws, regulations, and environmental requirements; and 2) environmental compliance – maintenance of compliance certification through monitoring and verifying the performance of the system’s sensitive parameters.

FY 2027 funding includes the following activities: surface and underground operations, including transuranic waste emplacement in existing approved disposal panels and mine stability (ground control); maintenance and repair of facilities and equipment; quality assurance; nuclear safety measures, including Documented Safety Analysis maintenance; security, safety and health programs, including safety management program and oversight program enhancements such as fire protection systems; regulatory compliance; project planning and control; mining and panel closure activities, procurement, finance and accounting; information systems; working with local, state, and national partners in filling vacancies through recruiting events which include purchase of merchandise that highlights the WIPP mission; and management and oversight and interagency programs. It is estimated that around 300 shipments will be completed in FY 2027 which equates to about 2,200 cubic meters of TRU waste disposed -- about 3% of the total identified TRU waste remaining to be disposed (~73,000 cubic meters) and about 8.5% of the TRU waste currently stored and available for dispositioning (~26,000 cubic meters). In FY 2027, WIPP is projected to ship less than the anticipated 400-425 shipments per year in other years due to the long maintenance outage to repair/refurbish the Waste Handling Shaft and Hoist Controller.

In FY 2027, funding is being requested for the Hoisting Capability project (21-D-401). This project will provide safe, efficient, and reliable hoisting for mined salt, equipment, and personnel. The project will also provide backup capability for waste hoist operations (excluding waste transport) to allow the facility to continue to operate more efficiently and safely to meet the transuranic waste disposal mission for approximately the next fifty years.

In FY 2027, the Waste Isolation Pilot Plant will work to obtain regulatory approval for continued use of water control. Data necessary to support a Planned Change Request will be submitted to the U.S. Environmental Protection Agency for additional panels to support the disposal of the Land Withdraw Act volume will be collected. The Planned Change Request will be developed in FY 2029, for submittal in FY 2030. Also, approval will be requested from the New Mexico Environment Department on the 5-Year Waste Isolation Pilot Plant Discharge Permit Renewal and Modification (DP-831).

The request for this Project Baseline Summary supports direct maintenance and repair activities required in the course of daily operations.

**Environmental Management/  
Carlsbad**

**FY 2027 Congressional Justification**

**Activities and Explanation of Changes**

FY 2026 Enacted	FY 2027 Request	Explanation of Changes FY 2027 Request vs FY 2026 Enacted
<b>\$280,227,000</b>	<b>\$396,020,000</b>	<b>+\$115,793,000</b>
<ul style="list-style-type: none"> <li>• Perform activities for continued waste emplacement operations including sustainment of safety management program improvements, active mining, mine stabilization, and habitability activities in all underground areas, radiological contamination control activities, High Efficiency Particulate Air Filter change out, purchase of mining equipment and infrastructure improvements.</li> <li>• Maintain safety and personnel health programs, surface and underground operations, program administration, generator site interface, public affairs programs, interagency and cooperative agreements for independent oversight, environmental oversight, and rights-of-way.</li> <li>• Support 40 Code of Federal Regulations Part 191/194 compliance, site environmental compliance, Resource Conservation and Recovery Act permit Waste Isolation Pilot Plant Hazardous Waste Facility Permit compliance, quality assurance, and payments to regulatory agencies.</li> </ul>	<ul style="list-style-type: none"> <li>• Perform activities for continued waste emplacement operations including sustainment of safety management program improvements, active mining, mine stabilization, and habitability activities in all underground areas, radiological contamination control activities, High Efficiency Particulate Air Filter change out, purchase of mining equipment and infrastructure improvements.</li> <li>• Maintain safety and personnel health programs, surface and underground operations, program administration, generator site interface, public affairs programs, interagency and cooperative agreements for independent oversight, environmental oversight, and rights-of-way.</li> <li>• Support 40 Code of Federal Regulations Part 191/194 compliance, site environmental compliance, Resource Conservation and Recovery Act permit Waste Isolation Pilot Plant Hazardous Waste Facility Permit compliance, quality assurance, and payments to regulatory agencies.</li> </ul>	<ul style="list-style-type: none"> <li>• Increase to the Waste Isolation Pilot Plant operations will address the escalated costs associated with disposal facility operations, environmental compliance actions, and funding the Hoisting Capability Project. Funding these activities will ensure continued progress toward meeting EM’s transuranic waste removal/emplacement milestones.</li> </ul>

- Support routine facility and equipment maintenance items and activities.
  - Provide upgrades to existing hoist capabilities.
  - Continue emplacement in Panel 8.
  - Continue emplacement in Panel 11.
  - Continue regulatory activities to support mining replacement and additional panels needed to continue the mission.
  - Procure bulk-ordered shielded container assemblies for shipment of remote-handled transuranic waste to the Waste Isolation Pilot Plant.
- Support routine facility and equipment maintenance items and activities.
  - Provide upgrades to existing hoist capabilities.
  - Continue mining and outfitting in Panel 11 to support planned TRU shipments.
  - Continue regulatory activities to support mining replacement and additional panels needed to continue the mission.
  - Procure bulk-ordered shielded container assemblies for shipment of remote-handled transuranic waste to the Waste Isolation Pilot Plant.

## Central Characterization Project (PBS: CB-0081)

### Overview

This PBS can be found within the Defense Environmental Cleanup appropriation.

This project consists of Central Characterization Project activities, which are managed by Department of Energy’s National Transuranic Program. The project consists of two primary areas of overall program scope. First, the National Transuranic Program-Central Characterization Project provides certifications of waste generator sites’ programs, systems, and processes utilized for characterization of transuranic waste to be disposed of at the Waste Isolation Pilot Plant. Second, the National Transuranic Program-Central Characterization Project maintains the on-site resources at each generator site to certify all transuranic waste shipments both between Department of Energy sites (inter-site) and directly to the Waste Isolation Pilot Plant. As part of the transuranic waste certification scope, the National Transuranic Program-Central Characterization Project maintains the resources to manage the Department of Energy-wide transuranic waste shipping certification process required by the Waste Isolation Pilot Plant’s Hazardous Waste Facility Permit.

Day-to-day waste characterization activities performed by the Central Characterization Project such as acceptable knowledge, visual examination, real time radiography, nondestructive assay, dose to curie conversion and flammable gas analysis and subsequent transuranic waste certification activities are planned within each respective generator site’s budget.

The Central Characterization Project program is critical to addressing a new paradigm in waste stream approvals. While the number of containers per waste stream has gone down, the requirements for characterization and certification have increased and the total number of waste streams has increased. Therefore, it is critical for the Central Characterization Project to continue advancing its ability to efficiently certify waste streams.

### Activities and Explanation of Changes

FY 2026 Enacted	FY 2027 Request	Explanation of Changes FY 2027 Request vs FY 2026 Enacted
<b>\$27,344,000</b>	<b>\$20,000,000</b>	<b>-\$7,344,000</b>
<ul style="list-style-type: none"> <li>• Provide acceptable knowledge and procedural support, and mobile waste loading support at actively shipping generator sites.</li> </ul>	<ul style="list-style-type: none"> <li>• Provide acceptable knowledge and procedural support, and mobile waste loading support at actively shipping generator sites.</li> </ul>	<ul style="list-style-type: none"> <li>• Decrease will maintain all requirement characterization and certification activities.</li> </ul>

- Support generator site interface for the Central Characterization Project activities, Central Characterization Project administration, and Performance Demonstration Program for Resource Conservation and Recovery Act constituents.
- Conduct Central Characterization Project certifications for transuranic waste disposition and transportation at the Savannah River Site, Oak Ridge National Laboratory, Lawrence Livermore National Laboratory, Argonne National Laboratory, and Los Alamos National Laboratory. Provide transportation certification and characterization and certification at Idaho National Laboratory (Idaho National Laboratory funds waste certification).

- Support generator site interface for the Central Characterization Project activities, Central Characterization Project administration, and Performance Demonstration Program for Resource Conservation and Recovery Act constituents.
- Conduct Central Characterization Project certifications for transuranic waste disposition and transportation at the Savannah River Site, Oak Ridge National Laboratory, Hanford, Lawrence Livermore National Laboratory, Argonne National Laboratory, and Los Alamos National Laboratory. Provide transportation certification and Remote Handled transuranic waste characterization and certification at Idaho National Laboratory (Idaho National Laboratory funds Contact Handled transuranic waste certification).

**Critical Infrastructure Repair/Replacement (PBS: CB-0083)**

This PBS can be found within the Defense Environmental Cleanup appropriation.

This PBS was established to address the Waste Isolation Pilot Plant’s degraded and beyond design life infrastructure, which includes General Plant Projects and Major Items of Equipment that are needed for worker safety and regulatory compliance and to sustain mining and waste emplacement operations.

FY 2027 funding is requested for the projects on the table below.

<b>Project Title</b>	<b>Total Project</b>	<b>Current Status</b>	<b>Mission Impact</b>	<b>FY 2027 Request</b>
Demolition and Decommissioning of old Underground Ventilation Filtration System (UVFS) and Isolation Valve System (IVS)	9,330,000	End of life	Upon commissioning of the Safety Significant Confinement Ventilation System (SSCVS), project will demolish and decommission/remove old Underground Geotechnical Vertical Shafts (UGVS) including UVFS and IVS electrical and mechanical systems and support structures, 700A-C Fans/motors and appurtenances, Bldgs. 413, 413A, 413B, 364, and 365.	9,330,000
Subtotal for projects that are less than \$5M individually	\$10,670,000	End of life	Site maintenance and repair	\$10,670,000

**Activities and Explanation of Changes**

FY 2026 Enacted	FY 2027 Request	Explanation of Changes FY 2027 Request vs FY 2026 Enacted
<b>\$57,171,000</b>	<b>\$20,000,000</b>	<b>-\$37,171,000</b>

- Repair, replace, and modernize Waste Isolation Pilot Plant’s degraded facility structures, systems, and components.

- Repair, replace, and modernize the Waste Isolation Pilot Plant’s degraded facility structures, systems, and components.

- Decrease reflects funding necessary to execute the minor construction projects planned for FY 2027 in accordance with the WIPP Integrated Priority List. These projects will improve the WIPP’s overall logistical processing, worker safety and mine capacity to help sustain future waste emplacement operations.

## Transportation (PBS: CB-0090)

### Overview

This PBS can be found within the Defense Environmental Cleanup appropriation.

This program includes all transportation activities required to support the disposal of both contact-handled and remote-handled transuranic waste to the Waste Isolation Pilot Plant, and transport in U.S. Nuclear Regulatory Commission licensed containers to other designated sites for treatment and/or characterization prior to shipment for disposal. This includes carrier services, transportation packaging, shipping coordination, and stakeholder interfaces related to transportation. As required in the Waste Isolation Pilot Plant Land Withdrawal Act, as amended, this program provides for technical assistance to states, Indian Tribes, and communities for the purpose of training public safety officials and other emergency responders in any State or Indian Tribal lands through which the Department of Energy plans to transport transuranic waste to or from the Waste Isolation Pilot Plant and inter-site transfers of transuranic waste.

FY 2027 funding supports waste shipment capabilities and coordination between generator sites and waste shipment capabilities to the Waste Isolation Pilot Plant, as well as transportation corridor grants with Tribes and stakeholders.

### Activities and Explanation of Changes

FY 2026 Enacted	FY 2027 Request	Explanation of Changes FY 2027 Request vs FY 2026 Enacted
<b>\$45,258,000</b>	<b>\$36,000,000</b>	<b>-\$9,258,000</b>
<ul style="list-style-type: none"> <li>• Provide transportation activities from multiple locations required for sustained operations at a rate of up to 16 shipments per week.</li> <li>• Maintain package certification and associated required maintenance for packages used: TRUPACT II's, Half PACTS, TRUPACT III's, and Remote-Handled-72B's.</li> <li>• Procure additional Type-B over-the-highway HalfPact Shipping Containers.</li> </ul>	<ul style="list-style-type: none"> <li>• Provide improved reliability transportation activities from multiple locations required for sustained operations at a rate of up to 16 shipments per week.</li> <li>• Maintain package certification and associated required maintenance for packages used: TRUPACT II's, Half PACTS, TRUPACT III's, and Remote-Handled-72B's.</li> <li>• Procurement of additional Type-B over-the-highway HalfPact Shipping Containers.</li> </ul>	<ul style="list-style-type: none"> <li>• Decrease represents new economies of scale procurement strategies while still maintaining a focus on waste certifications, maintenance/repair of Type B packaging, and adequate bench stock levels to enable the accomplishment of planned waste shipments to WIPP.</li> </ul>

**Environmental Management/  
Carlsbad**

**FY 2027 Congressional Justification**

**Community and Regulatory Support (PBS: CB-0100)**

**Overview**

This Project Baseline Summary can be found within the Defense Environmental Cleanup appropriation.

FY 2026 Enacted included a one-time payment of \$10,000,000 in FY 2026 to the State of New Mexico for WIPP route related road infrastructure projects. These funds shall only be used for projects mutually agreed to by the Department and the State of New Mexico. No funds are requested for this activity in FY 2027.

**Activities and Explanation of Changes**

FY 2026 Enacted	FY 2027 Request	Explanation of Changes FY 2027 Request vs FY 2026 Enacted
<b>\$10,000,000</b>	<b>\$0</b>	<b>-\$10,000,000</b>
<ul style="list-style-type: none"> <li>FY 2026 Enacted included a one-time payment of \$10,000,000 in FY 2026 to the State of New Mexico for WIPP route related road infrastructure projects. These funds shall only be used for projects mutually agreed to by the Department and the State of New Mexico.</li> </ul>	<ul style="list-style-type: none"> <li>No funds are requested for this activity in FY 2027.</li> </ul>	<ul style="list-style-type: none"> <li>The decrease is due to a one-time payment of \$10,000,000 in FY 2026 to the State of New Mexico for WIPP route related road infrastructure projects. These funds shall only be used for projects mutually agreed to by the Department and the State of New Mexico.</li> </ul>

**Safeguards and Security (PBS: CB-0020)**

**Overview**

This PBS can be found within the Defense Environmental Cleanup appropriation.

The scope of the Waste Isolation Pilot Plant Security Program includes, but is not limited to, planning, administrating and executing a program that protects government assets and ensures the security of disposed sensitive wastes.

The Cyber Security Program at the Carlsbad Field Office protects government information and technology systems to support both disposal operations at the Waste Isolation Pilot Plant and transuranic waste characterization, packaging, certification, and transportation activities within the National Transuranic Waste Program.

**Activities and Explanation of Changes**

FY 2026 Enacted	FY 2027 Request	Explanation of Changes FY 2027 Request vs FY 2026 Enacted
<b>\$10,902,000</b>	<b>\$11,000,000</b>	<b>+\$98,000</b>
<ul style="list-style-type: none"> <li>• Provide security coverage at Waste Isolation Pilot Plant.</li> <li>• Provide cyber security to ensure Department of Energy information resources are identified and protected.</li> </ul>	<ul style="list-style-type: none"> <li>• Provide security coverage at the Waste Isolation Pilot Plant.</li> <li>• Provide cyber security to ensure Department of Energy information resources are identified and protected.</li> <li>• Implement cyber security requirements in accordance with the National Institute of Standards and Technology and Executive Order 14028.</li> <li>• Support implementation of Zero Trust Initiative.</li> <li>• Provide network infrastructure upgrades and endpoint detection and response.</li> </ul>	<ul style="list-style-type: none"> <li>• Increase will maintain a focus on cyber and physical security requirements necessary with the implementations of revised Safeguards and Security DOE Orders, EM Cyber Security Program Plan; including Zero Trust, network infrastructure upgrades, and endpoint detection and response implementation.</li> </ul>

**21-D-401, Hoisting Capability Project (CB-0080)**  
**Waste Isolation Pilot Plant, Carlsbad, New Mexico**  
**Project is for Design and Construction**

**1. Summary, Significant Changes, and Schedule and Cost History**

**Summary**

The FY 2027 Request for the Hoisting Capability is \$72,000,000: \$72,000,000 for construction and \$0 other project costs. Funding in FY 2027 based on a Design/Bid/Build contract model which includes the design portion and project level of effort (federal and contractor project support staff).

The Hoisting Capability project is vital to the long-term viability of operations at the Waste Isolation Pilot Plant. This project will provide safe, efficient, and reliable hoisting systems for mined salt, equipment, and personnel. It will also provide backup capability for waste hoist operations (excluding waste transport). This redundancy will significantly enhance worker safety and reduce downtime in the event of equipment maintenance or failure. Successful completion of the project will allow the Waste Isolation Pilot Plant to continue to operate more safely and efficiently to meet the transuranic waste disposal mission for approximately the next fifty years at the nation's only repository for the disposal of transuranic waste.

The Department of Energy (DOE) Order (O) 413.3B, *Program and Project Management for the Acquisition of Capital Assets*, approved Critical Decision (CD) is Critical Decision-0, *Approve Mission Need*, which was approved on February 7, 2020, with a Rough-Order of Magnitude (ROM) cost range between \$88,000,000 and \$200,000,000 with a CD-4, *Project Completion*, in fiscal year (FY) 2030. DOE placed the project on hold in October 2021, while other capital projects were prioritized.

In accordance with DOE Order 413.3B, the Federal Project Director has been assigned. The Federal Project Director has a Level IV certification. Congressional Control Level for Hoisting Capability Project is Total Project Cost.

**Significant Changes**

This is an updated Construction Project Data Sheet. This project was placed on hold in October 2021. CBFO requested re-activation of the project in February 2024 which was approved in June 2024.

**Critical Milestone History**

(fiscal quarter or date)

	CD-0	Conceptual Design Complete	CD-1	CD-2	Final Design Complete	CD-3	D&D Complete	CD-4
FY 2021	02/7/2020	TBD	TBD	TBD	TBD	TBD	N/A	TBD
FY 2022	02/7/2020	TBD	TBD	TBD	TBD	TBD	N/A	TBD
FY 2023	02/7/2020	TBD	TBD	TBD	TBD	TBD	N/A	TBD
FY 2024	02/7/2020	TBD	TBD	TBD	TBD	TBD	N/A	TBD
FY 2025	02/7/2020	TBD	TBD	TBD	TBD	TBD	N/A	TBD
FY 2026	02/7/2020	4QFY25	4QFY26	TBD	TBD	TBD	N/A	TBD
FY 2027	02/7/2020	4QFY25	4QFY26	TBD	TBD	TBD	N/A	TBD

**CD-0** – Approve Mission Need for a construction project with a conceptual scope and cost range

**Conceptual Design Complete** - Estimated date the conceptual design was completed

**CD-1** - Approve Design Scope and Project Cost and Schedule Ranges

**CD-2 - Approve Project Performance Baseline**

**Final Design Complete** - Estimated date the project design will be completed

**CD-3A** – Approve Long-lead Procurements and Site Preparation

**CD-3** -Approve Start of Construction

**D&D Complete** - Completion of D&D work (see Section 5)

**CD-4** - Approve Start of Operations or Project Closeout

**Project Cost History**

(Dollars in Thousands)

	TEC, Design	TEC, Construction	TEC, Total	OPC Except D&D	OPC, D&D	OPC, Total	TPC
FY 2021	TBD	TBD	TBD	TBD	N/A	TBD	TBD
FY 2022	TBD	TBD	TBD	TBD	N/A	TBD	TBD
FY 2023	TBD	TBD	TBD	TBD	N/A	TBD	TBD
FY 2024	TBD	TBD	TBD	TBD	N/A	TBD	TBD
FY 2025	TBD	TBD	TBD	250	N/A	250	250
FY 2026	TBD	TBD	TBD	TBD	N/A	TBD	TBD
FY 2027	TBD	TBD	TBD	TBD	N/A	TBD	TBD

No construction, excluding for approved long-lead procurement and site preparation, will be performed until the project performance baseline has been validated and CD-3 has been approved.

## 2. Project Scope and Justification

### Scope

Design and construct a new hoisting capability to provide for multiple capabilities including the ability to move (hoist) the following: salt, equipment, personnel, and provide backup capability for waste hoist operations (excluding waste transport).

### Justification

Conceptual planning for additional disposal panels is underway. These additional panels along with accompanying main connecting transport and infrastructure tunnels (drifts) are required to be mined at WIPP to achieve the completion of the TRU waste disposal mission according to the volumetric limits defined in the WIPP Land Withdrawal Act.

The current salt hoist will need a significant overhaul which could take almost a year to complete. This would impact WIPP's mine operations as salt mining will need to be curtailed until the overhaul is complete. Also, the increased mining required for the additional panels and drifts is expected to challenge the existing WIPP hoisting systems, particularly the Salt Handling Shaft (SHS) which was constructed in 1983. In addition, the proposed direction and location of the new drifts and panels is a significantly increased distance to the west of the current repository that creates a need for an additional emergency egress. Specifically, the distance of the new drifts and panels from the existing hoisting systems can challenge the Mine Safety and Health Administration (MSHA) requirements to be at an emergency egress point for evacuation within another 30 minutes (total one hour from the time of an event to all personnel evacuated).

The hoisting capability project would increase the existing salt hoisting capability and material/personnel hoist capability for "just-in-time" mining at WIPP where excavation, outfitting, and regulatory certification are completed a few months before actual transuranic waste is emplaced.

Failure to address hoisting capabilities would slow mining operations as well as waste emplacement, personnel egress, and equipment transport. Addressing hoisting capabilities is also essential to maintain mine safety and health administration (MSHA) requirements for personnel egress.

This project is being conducted in accordance with the project management requirements in DOE Order 413.3B, *Program and Project Management for the Acquisition of Capital Assets*.

### Key Performance Parameters (KPPs)

The Threshold KPPs, represent the acceptable performance that the project must achieve. Achievement of the Threshold KPPs will be a prerequisite for approval of CD-4, Project Completion. The Objective KPPs represent the desired project performance and will be defined at CD-2.

Performance Measure	Threshold	Objective
TBD	TBD	TBD

### 3. Project Cost and Schedule

#### Financial Schedule

(Dollars in Thousands)

	Budget Authority (Appropriations)	Obligations	Costs
Total Estimated Cost (TEC)			
Design			
FY 2021	0	0	0
FY 2022	0	0	0
FY 2023	0	0	0
FY 2024	0	0	0
FY 2025	30,000	30,000	0
FY 2026	0	0	20,000
FY 2027	0	0	12,000
Outyears	TBD	TBD	TBD
Total, Design	TBD	TBD	TBD
Construction			
FY 2021	0	0	0
FY 2022	0	0	0
FY 2023	0	0	0

FY 2024	0	0	0
FY 2025	0	0	0
FY 2026	0	0	0
FY 2027	72,000	72,000	0
Outyears	TBD	TBD	TBD
Total, Construction	TBD	TBD	TBD

Total Estimated Cost (TEC)

FY 2021	0	0	0
FY 2022	0	0	0
FY 2023	0	0	0
FY 2024	0	0	0
FY 2025	30,000	30,000	0
FY 2026	0	0	20,000
FY 2027	72,000	72,000	12,000
Outyears	TBD	TBD	TBD
Total, TEC	TBD	TBD	TBD

Other Project Cost (OPC)

FY 2021	10,000	0	0
FY 2022	0	0	0
FY 2023	0	0	0
FY 2024	0	1,000	0
FY 2025	10,000	19,000	250
FY 2026	0	0	5,000
FY 2027	0	0	5,000

Outyears	TBD	TBD	TBD
Total, OPC	TBD	TBD	TBD
Total Project Costs			
FY 2021	10,000	0	0
FY 2022	0	0	0
FY 2023	0	0	0
FY 2024	0	1,000	0
FY 2025	40,000	49,000	250
FY 2026	0	0	25,000
FY 2027	72,000	72,000	17,000
Outyears	TBD	TBD	TBD
Total, TPC	TBD	TBD	TBD

## Details of Project Cost Estimate

(Dollars in Thousands)

	Current Total Estimate	Previous Total Estimate	Original Validated Baseline
Total Estimated Cost (TEC)			
Design			
Design	TBD	N/A	TBD
Contingency	TBD	N/A	TBD
Total, Design	TBD	N/A	TBD
Construction			
Site Work	TBD	N/A	TBD
Long-lead Equipment	TBD	N/A	TBD
Construction	TBD	N/A	TBD
Contingency	TBD	N/A	TBD
Total, Construction	TBD	N/A	TBD
Total, TEC	TBD	N/A	TBD
Contingency, TEC	TBD	N/A	TBD
Other Project Cost (OPC)			
OPC except D&D			
Conceptual Planning	TBD	N/A	TBD
Conceptual Design	TBD	N/A	TBD
Independent Reviews & Estimates	TBD	N/A	TBD

Contingency	TBD	N/A	TBD
Other OPC	TBD	N/A	TBD
Total, OPC except D&D	TBD	N/A	TBD
Total, OPC	TBD	N/A	TBD
Contingency, OPC	TBD	N/A	TBD
Total, TPC	TBD	N/A	TBD
Total, Contingency	TBD	N/A	TBD

**Schedule of Appropriation Requests**

(Dollars in Thousands)

Request		Prior Years	FY 2024	FY 2025	FY 2026	FY 2027	Outyears	Total
FY 2021	TEC	10,000					TBD	TBD
	OPC	0					TBD	TBD
	TPC	10,000					TBD	TBD
FY 2022	TEC	10,000					TBD	TBD
	OPC	0					TBD	TBD
	TPC	10,000					TBD	TBD
FY 2023	TEC	10,000					TBD	TBD
	OPC	0					TBD	TBD
	TPC	10,000					TBD	TBD
FY 2024	TEC	10,000	0				TBD	TBD
	OPC	0	0				TBD	TBD
	TPC	10,000	0				TBD	TBD
FY 2025	TEC	10,000	0	0			TBD	TBD
	OPC	0	0	0			TBD	TBD
	TPC	10,000	0	0			TBD	TBD
FY 2026	TEC	0	0	30,000	0		TBD	TBD
	OPC	10,000*	0	10,000	2,000		TBD	TBD
	TPC	10,000	0	40,000	2,000		TBD	TBD
FY 2027	TEC	0	0	0	0	72,000	TBD	TBD
	OPC	10,000	0	40,000	0	0	TBD	TBD
	TPC	10,000	0	40,000	0	72,000	TBD	TBD

\*Change from FY 2025 to FY2026 in order to accurately correct listing of OPC for this project.

**4. Related Operations and Maintenance Funding Requirements**

Start of Operation or Beneficial Occupancy (fiscal quarter or date)	TBD
Expected Useful Life (number of years)	TBD
Expected Future Start of decontamination and decommissioning of this capital asset (fiscal quarter)	TBD

Related Funding requirements

(dollars in thousands)

	Annual Costs		Life Cycle Costs	
	Current Total Estimate	Previous Total Estimate	Current Total Estimate	Previous Total Estimate
Operations	TBD	TBD	TBD	TBD
Utilities	TBD	TBD	TBD	TBD
<u>Maintenance &amp; Repair</u>	TBD	TBD	TBD	TBD
Total	TBD	TBD	TBD	TBD

**5. D&D Information**

This project will design and construct a new hoisting capability for the Waste Isolation Pilot Plant repository. There is no cost estimated for decontamination and decommissioning in this construction project.

The location of this construction project is an environmental closure site and, therefore, is exempt from the “one-for-one” requirement.

**6. Acquisition Approach**

The acquisition approach is to use the existing cost-plus award management and operations contract with Salado Isolation Mining Contractors, LLC (SIMCO).

## Idaho

### Overview

The Idaho Site supports the Department's cleanup activities to address the environmental legacy that resulted from decades of nuclear weapons production and government-sponsored nuclear energy research. The Idaho Cleanup Project is responsible for the treatment, storage and disposition of a variety of radioactive and hazardous waste streams, removal and disposition of targeted buried and transuranic waste, protection of the Snake River Plain Aquifer, removal or deactivation of unneeded facilities, and the removal of DOE's inventory of spent nuclear fuel and high-level radioactive waste from Idaho. Based on current estimates, the Office of Environmental Management is responsible for addressing \$16 billion in identified clean-up liability at the Idaho site – roughly four percent of the \$418 billion total liability across all EM sites. Successful implementation of current plans would result in completion of the identified clean-up mission at the Idaho site in the 2060-2080 timeframe (not including long term stewardship activities).

The Idaho Cleanup Project has achieved significant risk reduction in exhuming and processing radioactive waste for off-site disposition; deactivating and decommissioning excess facilities, remediating contaminated soils, and transferring spent nuclear fuel from wet to dry storage at the Idaho Nuclear Technology and Engineering Center. Near-term remaining work includes emptying remaining waste tanks; processing of stored legacy remote-handled and contact-handled transuranic waste, Radioactive Waste Management Complex Resource Conservation and Recovery Act closure and demolition and dismantlement, treatment of sodium bearing waste, continuing progress towards capping the Subsurface Disposal Area, and placement of all nuclear materials in safe storage ready for disposal.

Longer-term work scope will include completion of packaging, certification and shipping of transuranic waste to the Waste Isolation Pilot Plant; calcine high-level waste disposition; demolition and dismantlement of remaining excess facilities; completing Comprehensive Environmental Response, Compensation and Liability Act Record of Decision cleanup requirements, including Test Area North groundwater remediation and closure of the tank farm; installing final caps; maintaining long-term stewardship functions; and making legacy spent nuclear fuel road ready for final dispositioning.

Direct maintenance and repair at the Idaho Site are estimated to be \$50,800,011 for FY 2027.

### Highlights of the FY 2027 Budget Request

The funding request continues progress in characterizing, packaging and shipping stored contact-handled and remote-handled transuranic waste to the Waste Isolation Pilot Plant. The request also maintains processing, characterizing, packaging and shipping mixed low-level radioactive waste and remote-handled mixed low-level radioactive waste to off-site disposal facilities. The funding request also provides for nominal progress for the construction of the Subsurface Disposal Area cap.

The funding request supports the operations of the Integrated Waste Treatment Unit treatment of sodium-bearing waste which was initiated in FY 2023 including the fabrication of storage vaults and cans necessary for operations.

This request also supports ongoing surveillance, maintenance and risk reduction related activities for spent nuclear fuel and makes nominal progress on spent nuclear fuel packaging demonstration activities.

## **FY 2026 - 2027 Key Milestones/Outlook**

### **The following are the Idaho Cleanup Projects' regulatory milestones:**

- (September 2026) Certify 650 cubic meters (m<sup>3</sup>)(original volume) transuranic contaminated waste (contact-handled waste).
- (September 2026) Ship 100 m<sup>3</sup> (original volume) transuranic contaminated waste reclassified as mixed low-level waste (sludge waste).
- (September 2026) Certify 6 m<sup>3</sup> of original volume remote-handled waste (annual milestone).
- (September 2026) Treat 3.5 m<sup>3</sup> Radioactive Waste Disposition Project backlog. (complete)
- (September 2026) Sodium Bearing Waste Treatment Facility: Complete 15 percent treatment (128,095 gal) (annual milestone).
- (March 2027) Calcine P2 - Identify and develop treatment technology for Calcine waste.
- September 2027) Certify 400 m<sup>3</sup> (original volume) transuranic contaminated waste (contact-handled waste).
- (September 2027) Ship 100 m<sup>3</sup> (Original Volume) transuranic contaminated waste reclassified as mixed low-level waste (sludge waste).
- (September 2027) Sodium Bearing Waste Treatment Facility: Complete 15 percent treatment (128,095 gal) (annual milestone).
- (September 2027) Treat 3.5 m<sup>3</sup> Radioactive Waste Disposition Project backlog.
- (September 2027) Certify 3 m<sup>3</sup> of original volume remote-handled waste (annual milestone).

### **Regulatory Framework**

There are two primary regulators of the Idaho National Laboratory Site: the United States Environmental Protection Agency and the state of Idaho Department of Environmental Quality. The United States Nuclear Regulatory Commission monitors DOE activities related to radioactive liquid waste tank stabilization and disposition. It also licenses the Independent Spent Fuel Storage Installations containing Three Mile Island fuel debris and some Fort St. Vrain spent nuclear fuel. Six primary compliance agreements, amendments and consent orders executed between 1991 and 2019 govern cleanup work at the Idaho National Laboratory Site. Those six agreements encompass most of the cleanup requirements and commitments. The six primary agreements are:

1. Federal Facility Agreement and Consent Order (FFA/CO) (1991) – DOE/Environmental Protection Agency/Department of Environmental Quality
2. Notice of Non-Compliance Consent Order (1992) – DOE/Department of Environmental Quality
3. Idaho Settlement Agreement (1995) – DOE/State of Idaho/United States Navy (and associated adjustments)
4. Colorado Agreement (1996) – DOE/State of Colorado
5. Site Treatment Plan – DOE/Enforceable by State of Idaho (updated annually)
6. Section 3116 of the Ronald W. Reagan National Defense Authorization Act of FY 2005 (Public Law 108-375)

## **Contractual Framework**

As of January 1, 2022, the Idaho Cleanup Project is being managed by the Idaho Environmental Coalition, LLC. The program planning and contract management at the Idaho Cleanup Project will be conducted primarily under an end state Indefinite-Delivery/Indefinite-Quantity Contract under which Cost-Reimbursement and/or Fixed-Priced task orders will be issued. The end state contract has a ten (10) year ordering period. Performance of all Task Orders issued before the end of the Contract ordering period shall not exceed five (5) years beyond the end of the Contract ordering period. The estimated value of this end state contract is \$6,400,000,000.

In addition to Idaho Environmental Coalition's Nuclear Regulatory Commission licensed facilities program management in Fort St. Vrain in Colorado and Three Mile Island 2 in Idaho, physical security services at Fort St. Vrain in Colorado are managed by Protection Strategies Incorporated under a time and materials contract and a service-disabled, veteran-owned, small business set-aside with a period of performance of five (5) years and an estimated value of \$25,000,000.

## **Strategic Management**

The Idaho Site will identify disposal pathways and schedules for transuranic waste and liquid sodium bearing waste as well as pursue schedules for tank farm closure, calcined waste treatment and packaging, capping of the Subsurface Disposal Area, and spent nuclear fuel packaging to meet key Idaho National Laboratory Site commitments.

The following factors present the strongest impacts to the overall achievement of the program's strategic goal:

- Availability of the Waste Isolation Pilot Plant to include shipping allotments and assets (shipping, overpack containers/consumables tractors, trailers and drivers) for legacy transuranic waste.
- Beginning construction of the Subsurface Disposal Area cap with sufficient time to meet the re-negotiated FFA/CO milestone.
- Stable operations of the Integrated Waste Treatment Unit, with associated maintenance outages.
- Identification of viable treatment methods for high-level radioactive waste (calcine).
- Off-site disposition of high-level radioactive waste (calcine) and spent nuclear fuel.
- Technical and legal basis to disposition treated sodium bearing waste as non-high-level waste.
- Development and support from all parties of an Idaho site-wide (integrated) spent nuclear fuel management plan and associated implementation schedule. Idaho intends to re-utilize as many facilities as possible to treat, condition, package, and store spent nuclear fuel (avoiding new facility construction if possible).

**Idaho**

**Funding (\$K)**

	FY 2025 Enacted	FY 2026 Enacted	FY 2027 Request	FY 2027 Request vs FY 2026 Enacted	
				\$	%
<b>Defense Environmental Cleanup</b>					
<b>Idaho National Laboratory</b>					
<b>Idaho Cleanup and Waste</b>					
<b>Disposition</b>					
ID-0012B-D / SNF Stabilization and Disposition-2012					
Operating	28,806	34,787	40,977	+6,190	+18%
Construction					
22-D-403: Idaho Spent Nuclear Fuel Staging Facility	2,000	2,000	2,000	+0	0%
	<b>30,806</b>	<b>36,787</b>	<b>42,977</b>	<b>+6,190</b>	<b>+17%</b>
ID-0013 / Solid Waste Stabilization and Disposition					
	156,400	175,270	176,190	+920	+1%
ID-0014B / Radioactive Liquid Tank Waste Stabilization and Disposition-2012					
Operating	218,000	239,398	228,223	-11,175	-5%
Construction					
23-D-402: Calcine Disposition Project	2,000	2,000	2,000	+0	0%
	<b>220,000</b>	<b>241,398</b>	<b>230,223</b>	<b>-11,175</b>	<b>-5%</b>
ID-0030B / Soil and Water Remediation-2012					
Operating	20,800	27,762	19,024	-8,738	-31%
Construction					

22-D-404: Additional ICDF Landfill Disposal Cell and Evaporation Ponds Project	39,300	0	0	+0	0%
	<b>60,100</b>	<b>27,762</b>	<b>19,024</b>	<b>-8,738</b>	<b>-31%</b>
ID-0040 / Idaho Demolition and Dismantlement	11,000	7,783	8,312	+529	+7%
<b>Subtotal, Idaho Cleanup and Waste Disposition Idaho Community and Regulatory Support</b>	<b>478,306</b>	<b>489,000</b>	<b>476,726</b>	<b>-12,274</b>	<b>-3%</b>
ID-0100 / Idaho Community and Regulatory Support	2,705	3,779	3,295	-484	-13%
<b>Total, Idaho National Laboratory Non-Defense Environmental Cleanup Small Sites Idaho National Laboratory</b>	<b>481,011</b>	<b>492,779</b>	<b>480,021</b>	<b>-12,758</b>	<b>-3%</b>
ID-0012B-N / SNF Stabilization and Disposition-2012	11,500	12,500	12,500	+0	0%
<b>Total, Idaho</b>	<b>492,511</b>	<b>505,279</b>	<b>492,521</b>	<b>-12,758</b>	<b>-3%</b>

**Idaho**  
**Explanation of Major Changes (\$K)**

	<b>FY 2026 Enacted</b>	<b>FY 2027 Request</b>	<b>FY 2027 Request vs FY 2026 Enacted</b>
<b>Defense Environmental Cleanup</b>			
<b>Idaho National Laboratory</b>			
<b>Idaho Cleanup and Waste Disposition</b>			
<b>ID-0012B-D / SNF Stabilization and Disposition-2012</b>			
• The increase reflects maintaining qualified crews in Idaho to support the anticipated increase in nuclear materials from research and development activities.	36,787	42,977	+6,190
<b>ID-0013 / Solid Waste Stabilization and Disposition</b>			
• No significant change.	175,270	176,190	+920
<b>ID-0014B / Radioactive Liquid Tank Waste Stabilization and Disposition-2012</b>			
• Decrease reflects full funding for Integrated Waste Treatment Unit additional storage capacity received in prior year.	241,398	230,223	-11,175
<b>ID-0030B / Soil and Water Remediation-2012</b>			
• Decrease reflects completion of Subsurface Disposal Area Cap preparatory activities.	27,762	19,024	-8,738
<b>ID-0040 / Idaho Demolition and Dismantlement</b>			
• No significant change.	7,783	8,312	+529
<b>Idaho Community and Regulatory Support</b>			
<b>ID-0100 / Idaho Community and Regulatory Support</b>			
• No significant change.	3,779	3,295	-484
<b>Non-Defense Environmental Cleanup</b>			
<b>Small Sites</b>			
<b>ID-0012B-N / SNF Stabilization and Disposition-2012</b>			
• No change.	12,500	12,500	+0
<b>Total, Idaho</b>	<b>505,279</b>	<b>492,521</b>	<b>-12,758</b>

**SNF Stabilization and Disposition-2012 (PBS: ID-0012B-D)**

**Overview**

This Project Baseline Summary can be found within the Defense Environmental Cleanup appropriation.

This project includes safe and secure storage of legacy spent nuclear fuel and managing the receipt of off-site spent nuclear fuel shipments. EM currently manages and stores approximately 267 metric tons of spent nuclear fuel at the Idaho Site and in Colorado. The EM plan includes the receipt of approximately 28 metric tons of spent nuclear fuel from off-site locations, including Foreign and Domestic Research Reactor spent nuclear fuel, from FY 1998 through disposition.

The scope associated with this Project Baseline Summary supports progress towards removing all Spent Nuclear Fuel out of the State of Idaho and Colorado by 2035. Progress toward this milestone is limited to planning for long term repackaging operations and staging activities in preparation for removal from the State.

The long-term liability of Idaho site SNF Stabilization and Disposition is currently estimated to cost \$3.6 billion and take up to 40 years to complete. Activities funded in FY 2027 will reduce the liability by \$43 million and support the technical capabilities and program infrastructure to manage used nuclear fuel inventories and position the program to reduce the long term environmental and financial liabilities.

**Activities and Explanation of Changes**

FY 2026 Enacted	FY 2027 Request	Explanation of Changes FY 2027 Request vs FY 2026
<b>\$36,787,000</b>	<b>\$42,977,000</b>	<b>+\$6,190,000</b>
<ul style="list-style-type: none"> <li>Maintain all spent nuclear fuel storage facilities with accompanying spent nuclear fuel in a safe and secure state.</li> <li>Maintain the capability to receive and store up to 15 shipments of Advanced Test Reactor spent nuclear fuel.</li> <li>Maintain capability for receipt of foreign and domestic research reactor spent nuclear fuel from off-site.</li> </ul>	<ul style="list-style-type: none"> <li>Maintain all spent nuclear fuel storage facilities with accompanying spent nuclear fuel in a safe and secure state.</li> <li>Maintain the capability to receive and store shipments of Advanced Test Reactor spent nuclear fuel.</li> <li>Maintained capability for receipt of foreign and domestic research reactor spent nuclear fuel from off-site.</li> </ul>	<ul style="list-style-type: none"> <li>The increase reflects maintaining qualified crews in Idaho to support the anticipated increase in nuclear materials from research and development activities.</li> </ul>

**Environmental Management/Idaho**

**FY 2027 Congressional Justification**

- 
- Continue progress on the Idaho Spent Nuclear Fuel Staging Facility.
  - Continue support of the spent nuclear fuel packaging demonstration effort.
  - Supports engineering, logistical planning, and execution efforts to transfer spent nuclear fuel offsite.

- Continue progress on the Idaho Spent Nuclear Fuel Staging Facility.
- Continue support of the spent nuclear fuel packaging demonstration effort.
- Supports engineering, logistical planning, and execution efforts to transfer spent nuclear fuel offsite.

**Solid Waste Stabilization and Disposition (PBS: ID-0013)**

**Overview**

This Project Baseline Summary can be found within the Defense Environmental Cleanup appropriation.

This waste treatment and disposal activity dispositions stored transuranic waste, low-level radioactive waste, Resource Conservation and Recovery Act hazardous waste, and mixed low-level radioactive waste in compliance with the Idaho Settlement Agreement requirements; closes on-site low-level radioactive waste disposal facilities at the Radioactive Waste Management Complex; and accelerates the consolidation of waste management facilities to reduce operating costs. The various waste inventories to be disposed by this project were generated primarily by other DOE sites and also active operations at the Idaho Site. Completion of these activities is necessary for compliance with the Idaho Settlement Agreement and Site Treatment Plan and contributes to reducing the footprint and completing cleanup of the site which also includes direct maintenance and repair that are applicable to these areas.

Treatment, certification, and shipping of transuranic waste for disposal at the Waste Isolation Pilot Plant (WIPP), and disposal and shipment of mixed low-level radioactive waste for disposal will continue. The inventory of certified transuranic waste will be safely and compliantly stored at the Idaho Site pending shipment to the WIPP.

Project Baseline Summary has completed retrieval of approximately 65,000 cubic meters of contact-handled transuranic waste (100 percent) and is approximately 95 percent complete with treatment, packaging, and shipment for disposal. The remaining long-term liability associated with Idaho Site Solid Waste Stabilization and Disposition is primarily driven by remote-handled transuranic waste disposition and mixed low-level waste management.

The total remaining lifecycle liability is currently estimated at approximately \$1.5 billion and will take up to 20 years to complete. Activities funded in FY 2027 will continue treatment, packaging, and shipment of waste for disposal and reduce the associated long-term environmental liability by \$176 million.

**Activities and Explanation of Changes**

FY 2026 Enacted	FY 2027 Request	Explanation of Changes FY 2027 Request vs FY 2026 Enacted
\$175,270,000	\$176,190,000	+\$920,000

- |   |   |  |
|---|---|--|
| <ul style="list-style-type: none"> <li>• Provide for site-wide environmental compliance and oversight.</li> </ul> | <ul style="list-style-type: none"> <li>• Provide for site-wide environmental compliance and oversight.</li> </ul> | <ul style="list-style-type: none"> <li>• No significant change.</li> </ul> |
|---|---|--|

**Environmental Management/Idaho**

**FY 2027 Congressional Justification**

- 
- Maintain and operate the Radioactive Waste Management Complex infrastructure outside the subsurface disposal area including utility systems, project management, engineering, training, environmental safety and health and quality assurance. This project also includes monitoring of air, water, soils, and biota surveillance.
  - Continue certifying and shipping transuranic waste to the Waste Isolation Pilot Plant.
  - Treat and dispose mixed low-level radioactive waste and low-level radioactive waste offsite.
  - Provide for storage of processed and certified transuranic waste pending shipment to the Waste Isolation Pilot Plant.
  - Characterize, package, and certify Remote Handled transuranic waste using a Carlsbad Field Office certified program.
  - Procure overpack commodities to support shipments of waste.
- Maintain and operate the Radioactive Waste Management Complex infrastructure outside the subsurface disposal area including utility systems, project management, engineering, training, environmental safety and health and quality assurance. This project also includes monitoring of air, water, soils, and biota surveillance.
  - Continue certifying and shipping transuranic waste to the Waste Isolation Pilot Plant.
  - Treat and dispose mixed low-level radioactive waste and low-level radioactive waste offsite.
  - Provide for storage of processed and certified transuranic waste pending shipment to the Waste Isolation Pilot Plant.
  - Characterize, package, and certify Remote Handled transuranic waste using a Carlsbad Field Office certified program.
  - Procure overpack commodities to support shipments of waste.

## Radioactive Liquid Tank Waste Stabilization and Disposition-2012 (PBS: ID-0014B)

### Overview

This Project Baseline Summary can be found within the Defense Environmental Cleanup appropriation.

The overall objectives of this project are to treat and dispose of the sodium bearing tank waste; close the tank farm tanks, associated piping and infrastructure; and operate and maintain the Idaho Nuclear Technology and Engineering Center. This project also includes activities to support the preparation of stored calcined high-level radioactive waste for final disposition. Completion of this project will close the last four liquid waste tanks and cap the tank farm area leading to the reduction of the most significant environmental, safety and health threat which also includes direct maintenance and repair for these areas.

This Project Baseline Summary supports progress toward milestones established in the Settlement Agreement for high-level waste and the Site Treatment Plan requirement to treat approximately 15 percent per year of the sodium-bearing tank waste inventory in Idaho. To date, approximately 30 percent of the tank waste inventory has been treated, and the program has successfully achieved the annual 15 percent treatment milestones since operations began. The FY 2027 request will continue progress toward completion of these tank waste treatment milestones.

The long-term liability associated with Idaho site Radioactive Liquid Tank Waste Stabilization and Disposition is primarily driven by the calcined high-level waste inventory and aging infrastructure, while nearer-term liabilities are associated with treatment of sodium-bearing tank waste. The total lifecycle liability for this mission is currently estimated at approximately \$8.1 billion over a period of up to 40 years.

Activities funded in FY 2027 will continue treatment of sodium-bearing tank waste and reduce the associated near-term environmental liability by approximately \$230 million while maintaining critical treatment capabilities and sustaining progress toward long-term waste disposition.

### Activities and Explanation of Changes

FY 2026 Enacted	FY 2027 Request	Explanation of Changes FY 2027 Request vs FY 2026 Enacted
\$241,398,000	\$230,223,000	-\$11,175,000
<ul style="list-style-type: none"> <li>Make progress to develop and further the regulatory path forward for disposal of the sodium bearing waste treatment product.</li> </ul>	<ul style="list-style-type: none"> <li>Make progress to develop and further the regulatory path forward for disposal of the sodium bearing waste treatment product.</li> </ul>	<ul style="list-style-type: none"> <li>Decrease reflects full funding for Integrated Waste Treatment Unit additional storage capacity received in prior year.</li> </ul>

**Environmental Management/Idaho**

**FY 2027 Congressional Justification**

- 
- Continue sodium bearing waste processing operations at the Integrated Waste Treatment Unit.
  - Initiate activities to provide additional storage capacity for treated sodium bearing waste.
  - Maintain tank farm and systems necessary for safe delivery of sodium bearing waste until treatment and tank closure is complete.
  - Provide infrastructure support to Idaho Nuclear Technology and Engineering Center including utilities, maintenance and operations for the process waste system, support laboratories, existing process facilities, and support cyber security improvements (e.g., EO 14028, DOE O 205.1C, EM Cybersecurity Program Plan requirements).
  - Provide support for the retrieval and transfer of calcine.
  - Provide support for the Calcine Disposition Project.
- Continue sodium bearing waste processing operations at the Integrated Waste Treatment Unit.
  - Maintain tank farm and systems necessary for safe delivery of sodium bearing waste until treatment and tank closure is complete.
  - Provide infrastructure support to Idaho Nuclear Technology and Engineering Center including utilities, maintenance and operations for the process waste system, support laboratories, existing process facilities, and support cyber security improvements (e.g., EO 14028, DOE O 205.1C, EM Cybersecurity Program Plan requirements).
  - Provide support for the retrieval and transfer of calcine.
  - Provide support for the Calcine Disposition Project.

## Soil and Water Remediation (PBS: ID-0030B)

### Overview

This Project Baseline Summary can be found within the Defense Environmental Cleanup appropriation.

The objective of this project is remediation of contaminated soil and groundwater and closure of legacy Comprehensive Environmental Response, Compensation, and Liability Act sites at the Idaho National Laboratory. Completion of this project will contribute to reducing the footprint and the completion of the Idaho Cleanup Project.

The Project Baseline Summary continues execution of scope necessary to complete milestones established in the Settlement Agreement and the Idaho Site Treatment Plan. To date, the project has achieved 100 percent of targeted waste removal from the Subsurface Disposal Area, completed three of the four planned remediation activities, and initiated preparatory activities for the final evapotranspiration cap over the Subsurface Disposal Area.

The long-term liability associated with Idaho site Soil and Water Remediation is currently estimated at approximately \$590 million and may extend up to 40 years to complete. Activities funded in FY 2027 will continue progress toward remediation objectives and reduce the associated long-term environmental liability by \$19 million.

### Activities and Explanation of Changes

FY 2026 Enacted	FY 2027 Request	Explanation of Changes FY 2027 Request vs FY 2026 Enacted
<b>\$27,762,000</b>	<b>\$19,024,000</b>	<b>-\$8,738,000</b>

- Provide risk reduction through implementation of the Comprehensive Environmental Response, Compensation, and Liability Act Record of Decision for buried transuranic waste at the Radioactive Waste Management Complex subsurface disposal area.
- Disposition transuranic buried waste
- Maintain the remedies at Test Reactor Area; Central Facilities Area; Power Burst Facility/Auxiliary Reactor Area;

- Provide risk reduction through implementation of the Comprehensive Environmental Response, Compensation, and Liability Act Record of Decision for buried transuranic waste at the Radioactive Waste Management Complex subsurface disposal area.
- Disposition of transuranic buried waste.
- Maintain the remedies at Test Reactor Area; Central Facilities Area; Power Burst Facility/Auxiliary Reactor Area;

- Decrease reflects completion of Subsurface Disposal Area Cap preparatory activities.

- 
- and Experimental Breeder Reactor/Boiling Water Reactor Experiment (BORAX).
- Implement the Comprehensive Environmental Response, Compensation, and Liability Act Record of Decision for Idaho Nuclear Technology and Engineering Center tank farm soils and groundwater.
  - Implement the Comprehensive Environmental Response, Compensation, and Liability Act Record of Decision for Test Area North (TAN) Groundwater.
  - Implement the Comprehensive Environmental Response, Compensation, and Liability Act Record of Decision for site wide ground water, miscellaneous sites, and future sites.
  - Implement the Comprehensive Environmental Response, Compensation, and Liability Act Record of Decision for unexploded ordinance.
  - Maintain Radioactive Waste Management Complex infrastructure for Comprehensive Environmental Response, Compensation, and Liability Act activities.
  - Maintain Idaho Comprehensive Environmental Response, Compensation, and Liability Act Disposal Facility operations.
  - Perform ground water monitoring and subsurface investigation with analysis of

- and Experimental Breeder Reactor/BORAX.
- Implement the Comprehensive Environmental Response, Compensation, and Liability Act Record of Decision for Idaho Nuclear Technology and Engineering Center tank farm soils and groundwater.
  - Implement the Comprehensive Environmental Response, Compensation, and Liability Act Record of Decision for TAN Groundwater.
  - Implement the Comprehensive Environmental Response, Compensation, and Liability Act Record of Decision for site wide ground water, miscellaneous sites, and future sites.
  - Implement the Comprehensive Environmental Response, Compensation, and Liability Act Record of Decision for unexploded ordinance.
  - Maintain Radioactive Waste Management Complex infrastructure for Comprehensive Environmental Response, Compensation, and Liability Act activities.
  - Maintain Idaho Comprehensive Environmental Response, Compensation, and Liability Act Disposal Facility operations.
  - Perform ground water monitoring and subsurface investigation with analysis of contaminants and transport mechanisms affecting the Snake River Aquifer.

- 
- contaminants and transport mechanisms affecting the Snake River Aquifer.
  - Continue activities in support of the design and construction of the Subsurface Disposal Area cap at Radioactive Waste Management Complex.
  - Continue activities in support of construction on the Additional Idaho Comprehensive Environmental Response, Compensation, and Liability Act Disposal Facility (ICDF) Landfill Disposal Cell Evaporation Pond project.
  - Continue activities in support of construction of the Subsurface Disposal Area cap at Radioactive Waste Management Complex.

## Idaho Community and Regulatory Support

### Overview

This Project Baseline Summary can be found within the Defense Environmental Cleanup appropriation.

This project scope includes work in three major areas for environmental regulatory oversight and stakeholder interactions and support: 1) State of Idaho Department of Environmental Quality execution of requirement in the Federal Facility Agreement Consent Order and Environmental Oversight and Monitoring support; 2) the Idaho Site Citizens Advisory Board is chartered by the DOE as an EM Site-Specific Advisory Board; and 3) Shoshone-Bannock Tribal Agreement in Principle.

DOE acknowledges its trust responsibility to consult and work cooperatively with the Shoshone-Bannock Tribes, to exercise statutory and legal authorities to protect Tribal lands, assets, resources, and treaty rights, and will strive to fulfill this responsibility through the Agreement in Principle, DOE American Indian and Alaska Native Tribal Government Policy and other American Indian program initiatives.

### Activities and Explanation of Changes

FY 2026 Enacted	FY 2027 Request	Explanation of Changes FY 2027 Request vs FY 2026 Enacted
<b>\$3,779,000</b>	<b>\$3,295,000</b>	<b>-\$484,000</b>
<ul style="list-style-type: none"> <li>• Provide for site-wide environmental compliance and oversight including the Shoshone-Bannock Tribe Agreement in Principle.</li> <li>• Provide grant to the State of Idaho Department of Environmental Quality.</li> <li>• Provide for Citizens Advisory Board requirements.</li> </ul>	<ul style="list-style-type: none"> <li>• Provide for site-wide environmental compliance and oversight including the Shoshone-Bannock Tribe Agreement in Principal.</li> <li>• Provide grant to the State of Idaho Department of Environmental Quality.</li> <li>• Provide for Citizens Advisory Board requirements.</li> </ul>	<ul style="list-style-type: none"> <li>• No significant change.</li> </ul>

## Idaho Demolition and Dismantlement (PBS: ID-0040)

### Overview

This Project Baseline Summary (PBS) can be found within the Defense Environmental Cleanup appropriation.

The objective of this PBS is to perform demolition and dismantlement scope across the Idaho Site to progress toward site closure. The near-term focus of this PBS will be the closure and preparation for capping of the Radioactive Waste Management Complex where buried waste exhumations were performed along with transuranic and mixed/low level waste processing for disposal. Demolition and dismantlement of excess facilities include planning and engineering, deactivation of utilities, asbestos and other hazardous material abatement, equipment dismantlement and disposal, structure demolition, and waste disposition and related remedial actions.

The long-term liability of Idaho site demolition and dismantlement is currently estimated to cost \$992 million and take up to 45 years to complete. Activities funded in FY 2027 reduce the long term liability by \$8 million and will maintain essential demolition and dismantlement related infrastructure at the Radioactive Waste Management Complex in support of ongoing remediation efforts and preparatory work for the Subsurface Disposal Area cap.

### Activities and Explanation of Changes

FY 2026 Enacted	FY 2027 Request	Explanation of Changes FY 2027 Request vs FY 2026 Enacted
<b>\$7,783,000</b>	<b>\$8,312,000</b>	<b>+\$529,000</b>
<ul style="list-style-type: none"> <li>• Support decontamination and decommissioning planning activities and continue demolition and dismantlement on the following Radioactive Waste Management Complex facilities:                             <ul style="list-style-type: none"> <li>○ Accelerated Retrieval Projects and related ancillary facilities.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Support decontamination and decommissioning planning activities and continue demolition and dismantlement on the following Radioactive Waste Management Complex facilities:                             <ul style="list-style-type: none"> <li>○ Accelerated Retrieval Projects related ancillary facilities.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• No significant change.</li> </ul>

- 
- Transuranic Storage Area/Retrieval Enclosure and related ancillary facilities.
  - Advanced Mixed Waste Treatment Project facility and related ancillary facilities.

- Transuranic Storage Area/Retrieval Enclosure and related ancillary facilities.
- Advanced Mixed Waste Treatment Project facility and related ancillary facilities.

**SNF Stabilization and Disposition-2012 (PBS: ID-0012B-N)**

**Overview**

This Project Baseline Summary can be found within the Non-Defense Environmental Cleanup appropriation.

The purpose of this project is to maintain and operate the Nuclear Regulatory Commission-licensed Independent Spent Fuel Storage Installations in accordance with license basis documents. This includes the management of spent nuclear fuel presently stored at Fort St. Vrain in Colorado and the Three Mile Island Independent Spent Fuel Storage Installation on the Idaho Site.

The scope associated with this Project Baseline Summary supports progress towards removing Used Nuclear Fuel out of the State of Idaho and Colorado by 2035. Progress toward this milestone is limited to maintaining Nuclear Regulatory Commission fuel facilities in a stable condition until a path is determined for removal from the State.

The long-term liability of Idaho site SNF Stabilization and Disposition is currently estimated to cost \$358 million and take up to 40 years to complete. Activities funded in FY 2027 will reduce the liability by \$12.5 million and sustain safe storage conditions, preserve critical infrastructure and capabilities, and maintain readiness to support future fuel disposition.

**Activities and Explanation of Changes**

<b>FY 2026 Enacted</b>	<b>FY 2027 Request</b>	<b>Explanation of Changes FY 2027 Request vs FY 2026 Enacted</b>
<b>\$12,500,000</b>	<b>\$12,500,000</b>	<b>+\$0</b>
<ul style="list-style-type: none"> <li>Department of Energy Idaho (DOE ID): Provide payments to the Nuclear Regulatory Commission to implement license and licensing-related activities related to the Fort St. Vrain and Three Mile Island-2. Also includes other miscellaneous direct to DOE contract support activities.</li> </ul>	<ul style="list-style-type: none"> <li>DOE-ID: Provide payments to the Nuclear Regulatory Commission to implement license and licensing-related activities for Fort St. Vrain in Colorado and Three Mile Island-2 in Idaho. Also includes other miscellaneous direct to DOE contract support activities.</li> <li>Physical Security Contract: Provide physical security for Fort St. Vrain Spent Nuclear Fuel facility in Colorado.</li> </ul>	<ul style="list-style-type: none"> <li>No Change</li> </ul>

- 
- Physical Security Contract: Provide security for Fort St. Vrain Spent Nuclear Fuel facility in Colorado.
  - Prime Contract: Continue to operate and maintain facilities to meet Nuclear Regulatory Commission license requirements at Fort St. Vrain and Three Mile Island-2 Independent Spent Fuel Storage Installations located in Idaho and Colorado.
  - Prime Contract - Continue to operate and maintain facilities to meet Nuclear Regulatory Commission license requirements at Fort St. Vrain and Three Mile Island-2 Independent Spent Fuel Storage Installations located in Idaho and Colorado.

**22-D-403, Idaho Spent Nuclear Fuel Staging Facility  
Idaho National Laboratory, Idaho Falls, Idaho  
Project is for Design and Construction**

**1. Summary, Significant Changes, and Schedule and Cost History**

**Summary**

The FY 2027 Request for the Idaho Spent Nuclear Fuel Staging Facility is \$2,000,000. The project will utilize the FY 2027 funding along with prior year uncosted funds on the detailed design to continue progress toward critical decision 2/3 completion. The project is based on a design/build contract model which includes the design portion and project level of effort (federal and contractor project support staff).

The most recent Department of Energy (DOE) Order 413.3B, *Program and Project Management for the Acquisition of Capital Assets*, approved Critical Decision was on March 5, 2026, for Critical Decision 1, *Alternative Selection and Cost Range*. The cost range is between \$30,000,000 and \$62,000,000 with a Critical Decision 4, *Project Completion*, range between fiscal year (FY) 2030 - 2032. The congressional control is for Total Project Costs (TPC).

A Level I Federal Project Director has been assigned to this project.

**Significant Changes**

This Construction Project Data Sheet is an update of the FY 2025 Construction Project Data Sheet and does not represent a new start for the budget year. During FY 2025, Critical Decision 1 documents were drafted and submitted. The critical decision schedule was updated and a decision to a complete combined Critical Decision 2/3 was made.

**Critical Milestone History**

(fiscal quarter or date)

Fiscal Year (FY)	CD-0	Conceptual Design Complete	CD-1	CD-2	Final Design Complete	CD-3	CD-4	D&D Complete
FY 2022	5/21/2021	FY 2022	TBD	TBD	TBD	TBD	TBD	N/A
FY 2023	5/21/2021	FY 2022	TBD	TBD	TBD	TBD	TBD	N/A
FY 2024	5/21/2021	10/2024	2Q2024	TBD	TBD	TBD	TBD	N/A

FY 2026	5/21/2021	10/2024	1QFY2026	TBD	TBD	TBD	TBD	N/A
FY 2027	5/21/2021	10/2024	3/5/2026	TBD	TBD	TBD	TBD	N/A

**CD-0**–Approve Mission Need

**Conceptual Design Complete** - Actual date the conceptual design was completed

**CD-1** - Approve Alternative Selection and Cost Range

**CD-2 - Approve Performance Baseline**

**Final Design Complete** - Estimated date the project design will be completed

**CD-3A** – Approve Long-lead Procurements and Site Preparation

**CD-3** -Approve Start of Construction

**CD-4** - Approve Start of Operations or Project Completion

**D&D Complete** -Completion of Demolition and Dismantlement work (see Section 5)

**Project Cost History**

(Dollars in Thousands)

Fiscal Year (FY)	TEC Design	TEC Construction	TEC Total	OPC Except	OPC, D&D	OPC Total	TPC
FY 2022	TBD	TBD	TBD	TBD	N/A	TBD	TBD
FY 2023	7,000	TBD	TBD	TBD	N/A	TBD	TBD
FY 2024	8,000	TBD	TBD	TBD	N/A	TBD	TBD
FY 2026	TBD	TBD	TBD	TBD	N/A	TBD	TBD
FY 2027	TBD	TBD	TBD	TBD	N/A	TBD	TBD

No construction, excluding for approved long-lead procurement and site preparation, will be performed until the project performance baseline has been validated and Critical Decision-2/3 has been approved.

**2. Project Scope and Justification**

**Scope**

Provide the capability to support near-term and long-term spent nuclear fuel packaging efforts and staging at the Idaho National Laboratory Site for an estimated 25 storage overpacks that will be generated from the packaging efforts.

**Justification**

The DOE’s Spent Nuclear Fuel Program located at the Idaho National Laboratory Site needs the capability to safely, compliantly, and efficiently stage packaged Spent Nuclear Fuel. Storage is needed to support near-term and long-term Spent Nuclear Fuel packaging efforts. Staging at the Idaho National Laboratory Site will be

**Environmental Management/  
Idaho/22-D-403 Idaho Spent Nuclear  
Fuel Staging Facility,  
Idaho Falls, ID**

required until the packaged Spent Nuclear Fuel is shipped out of Idaho. Space will be required to stage the estimated 25 storage overpacks that will be generated from the future packaging efforts.

The project is being conducted in accordance with the project management requirements in DOE O 413.3B, Program and Project Management for the Acquisition of Capital Assets, and all appropriate project management requirements have been met.

**Key Performance Parameters**

The Threshold Key Performance Parameters represent the acceptable performance that the project must achieve. Achievement of the Threshold Key Performance Parameters will be a prerequisite for approval of Critical Decision-4, Project Completion. The Objective Key Performance Parameters represent the desired project performance and will be defined at Critical Decision 2/3.

Performance Measure	Threshold
Capability to efficiently stage packaged Spent Nuclear Fuel at the Idaho National Laboratory	Have capability to stage up to 25 storage overpacks

**3. Project Cost and Schedule**

**Financial Schedule**

(Dollars in Thousands)

	Budget Authority (Appropriations)	Obligations	Costs
Total Estimated Cost (TEC)			
Design			
FY 2022	0	0	0
FY 2023	7,000	7,000	0
FY 2024	1,000	1,000	0
FY 2025	0	0	0
FY 2026	0	0	
FY 2027	0	0	0
Outyears	TBD	TBD	TBD
Total, Design	TBD	TBD	TBD
Construction			
FY 2022	0	0	0
FY 2023	0	0	0
FY 2024	0	0	0
FY 2025	0	0	0
FY 2026	0	0	0
FY 2027	0	0	0

	Budget Authority (Appropriations)	Obligations	Costs
Outyears	TBD	TBD	TBD
Total, Construction	TBD	TBD	TBD
Total Estimated Cost (TEC)			
FY 2022	0	0	0
FY 2023	7,000	7,000	0
FY 2024	1,000	1,000	0
FY 2025	0	0	0
FY 2026	0	0	0
FY 2027	0	0	0
Outyears	0	0	0
Total, TEC	TBD	TBD	TBD
Other Project Cost (OPC)			
FY 2022	3,000	2,000	22
FY 2023	1,000	2,000	930
FY 2024	1,000	1,000	1,900
FY 2025	2,000	2,000	800
FY 2026	2,000	2,000	4,000
FY 2027	2,000	2,000	2,348
Outyears	TBD	TBD	TBD
Total, OPC	TBD	TBD	TBD
Total Project Costs			
FY 2022	3,000	2,000	22
FY 2023	8,000	8,000	930
FY 2024	2,000	2,000	1,900
FY 2025	2,000	3,000	800
FY 2026	2,000	2,000	0
FY 2027	2,000	2,000	0
Outyears	TBD	TBD	TBD
Total, TPC	TBD	TBD	TBD

#### 4. Details of Project Cost Estimate

(Dollars in Thousands)

	Current Total Estimate	Previous Total Estimate	Original Validated Baseline
Total Estimated Cost (TEC)			
Design			
Design	TBD	TBD	N/A
Contingency	TBD	TBD	N/A
Total, Design	TBD	TBD	N/A
Construction		TBD	
Site Work	TBD	TBD	N/A
Long-lead Equipment	TBD	TBD	N/A
Construction	TBD	TBD	N/A
Contingency	TBD	TBD	N/A
Total, Construction	TBD	TBD	N/A
Total, TEC	TBD	TBD	N/A
<i>Contingency, TEC</i>	TBD	TBD	<i>N/A</i>
Other Project Cost (OPC)			
OPC except D&D			
Conceptual Planning	N/A	N/A	N/A
Conceptual Design	TBD	TBD	N/A
Independent Reviews & Estimates	N/A	N/A	N/A
Contingency	TBD	TBD	N/A
Other OPC	TBD	TBD	N/A
Total, OPC except D&D	TBD	TBD	N/A
Total, OPC	TBD	TBD	N/A
<i>Contingency, OPC</i>	TBD	TBD	<i>N/A</i>
Total, TPC	TBD	TBD	N/A
<i>Total, Contingency</i>	TBD	TBD	<i>N/A</i>

**5. Schedule of Appropriation Requests**

(Dollars in Thousands)

Request		FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Outyears	Total
FY 2022	TEC	0	TBD	TBD	TBD	TBD	TBD	TBD	TBD
	OPC	3,000	TBD	TBD	TBD	TBD	TBD	TBD	TBD
	TPC	3,000	TBD	TBD	TBD	TBD	TBD	TBD	TBD
FY 2023	TEC	0	7,000	TBD	TBD	TBD	TBD	TBD	TBD
	OPC	3,000	1,000	TBD	TBD	TBD	TBD	TBD	TBD
	TPC	3,000	8,000	TBD	TBD	TBD	TBD	TBD	TBD
FY 2024	TEC	0	7,000	9,159	TBD	TBD	TBD	TBD	TBD
	OPC	3,000	1,000	1,000	TBD	TBD	TBD	TBD	TBD
	TPC	3,000	8,000	10,159	TBD	TBD	TBD	TBD	TBD
FY 2025	TEC	0	7,000	1,000	0	TBD	TBD	TBD	TBD
	OPC	3,000	1,000	1,000	0	TBD	TBD	TBD	TBD
	TPC	3,000	8,000	2,000	0	TBD	TBD	TBD	TBD
FY 2026	TEC	0	7,000	1,000	0	0	TBD	TBD	TBD
	OPC	3,000	1,000	1,000	2,000	2,000	TBD	TBD	TBD
	TPC	3,000	8,000	2,000	2,000	2,000	TBD	TBD	TBD
FY 2027	TEC	0	7,000	1,000	0	0	0	TBD	TBD
	OPC	3,000	1,000	1,000	2,000	2,000	2,000	TBD	TBD
	TPC	3,000	8,000	2,000	2,000	2,000	2,000	TBD	TBD

**6. Related Operations and Maintenance Funding Requirements**

Start of Operation or Beneficial Occupancy (fiscal quarter or date) TBD

Expected Useful Life (number of years) TBD

Expected Future Start of decontamination and decommissioning of this capital asset (fiscal quarter) TBD

Related Funding requirements  
(dollars in thousands)

Annual Costs		Life Cycle Costs	
Current Total Estimate	Previous Total Estimate	Current Total Estimate	Previous Total Estimate
0	0	0	0

Operations

**Environmental Management/  
Idaho/22-D-403 Idaho Spent Nuclear  
Fuel Staging Facility,  
Idaho Falls, ID**

**FY 2027 Congressional Justification**

Utilities	0	0	0	0
<u>Maintenance &amp; Repair</u>	TBD	0	TBD	0
Total	TBD	0	TBD	0

## 7. D&D Information

Demolition and dismantlement of the facilities currently holding the spent nuclear fuel after this mission is completed will be a separate effort and is not included in the current mission needs. There is no cost estimated for demolition and dismantlement in this construction project.

The location of this construction project is an environmental closure site and, therefore, is exempt from the “one-for-one” requirement.

## 8. Acquisition Approach

The acquisition approach is to use the indefinite delivery/indefinite quantity end state contracting model with new Idaho Cleanup Project contractor (contract in place January 2022).

**23-D-402: Calcine Disposition Project  
Idaho National Laboratory, Idaho Falls, Idaho  
Project is for Design and Construction**

**1. Summary, Significant Changes, and Schedule and Cost History**

**Summary**

The FY 2027 Request for the Calcine Disposition Project is \$2,000,000: \$0 for construction and \$2,000,000 for other project costs. Congressional Control level for the Calcine Disposition Project is Total Project Cost (TPC).

The original Department of Energy (DOE) Order 413.3B, *Program and Project Management for the Acquisition of Capital Assets*, approved Critical Decision (CD) is CD-0, *Approve Mission Need*, which was approved on June 29, 2007 by the Deputy Secretary of Energy as the Chief Executive of Project Management for this project. The original cost range for the project was \$2,300,000,000 to \$16,300,000,000, with a CD-4 completion date of Fiscal Year (FY) 2012. Since that time a need was identified to develop a CD-0R, *Approve Mission Need (Revised)* due to a variety of factors, primarily:

- Realign the project with current cost and schedule projections.
- Remove operational costs from the cost range.
- Evaluate the cost and schedule range considering current technologies that represent the best balance between cost, risk, and regulatory acceptance.

The CD-0R was approved on September 20, 2024, by the Deputy Secretary of Energy as the Chief Executive of Project Management for this project. The approved, revised cost and schedule range for the project is \$3,000,000,000 to \$7,500,000,000 with a CD-4 completion date range from FY 2042 to FY 2047, respectively.

In addition to providing an approved CD-0R, accomplishments to date include completion of preliminary siting studies for potential processing facility locations, preconceptual designs of potential processing facilities, evaluation of specific treatment capabilities' technology readiness levels and their associated lifecycle cost estimates, and NEPA strategy development. FY 2027 funds will enable the project to initiate conceptual design activities and evaluation of ongoing technology validation efforts, develop critical plans and project documentation required by DOE O 413.3B, and continued development of regulatory compliance documentation to support a Record of Decision at CD-1, *Approve Alternative Selection*.

A certified Federal Project Director is yet to be assigned to the Project. A prospective FPD has been identified, and the appointment will be formally requested prior to CD-1 approval.

**Significant Changes**

This Project Data Sheet has been revised as a result of the approved CD-0R. The project name has been changed from "23-D-402: Idaho Calcine Construction" to "23-D-402: Calcine Disposition Project" to more accurately reflect the nature of the project and for consistency with the documentation of this project spanning back to 2007. A request has been made that the congressional budget line-item title be changed to "Calcine Disposition Project" to be aligned with the approved project name which has been consistently used since 2007.

**Critical Milestone History**

(fiscal quarter or date)

	CD-0	Conceptual Design Complete	CD-1	CD-2	Final Design Complete	CD-3	CD-4	D&D Complete
FY 2023	FY 2007	TBD	TBD	TBD	TBD	TBD	TBD	N/A
FY 2024	9/20/2024*	TBD	TBD	TBD	TBD	TBD	TBD	N/A

Notes: \*A revised CD-0 was approved for this project on September 20, 2024.

**CD-0** - Approve Mission Need

**Conceptual Design Complete** - Actual date the conceptual design was completed

**CD-1** - Approve Alternative Selection and Cost Range

**CD-2** - Approve Project Performance Baseline

**Final Design Complete** - Estimated date the project design will be completed

**CD-3A** - Approve Long-lead Procurements and Site Preparation

**CD-3** - Approve Start of Construction

**CD-4** - Approve Start of Operations or Project Closeout

**D&D Complete** -Completion of D&D work (see Section 5)

**Project Cost History**

(Dollars in Thousands)

	TEC, Design	TEC, Construction	TEC, Total	OPC Except D&D	OPC, D&D	OPC, Total	TPC
FY 2023	TBD	TBD	TBD	TBD	N/A	TBD	TBD
FY 2024	TBD	TBD	TBD	TBD	N/A	TBD	TBD
FY 2025	TBD	TBD	TBD	TBD	N/A	TBD	TBD
FY 2026	TBD	TBD	TBD	TBD	N/A	TBD	TBD

No construction, excluding for approved long-lead procurement and site preparation, will be performed until the project performance baseline has been validated and Critical Decision 3 has been approved.

**2. Project Scope and Justification**

**Scope**

The mission of the Calcine Disposition Project is to retrieve and process approximately 4,400 m<sup>3</sup> of high-level waste (HLW) calcine and package it to support a road ready configuration for future shipment and disposal outside the State of Idaho.

## **Justification**

As a result of past spent nuclear fuel reprocessing activities at the Idaho Nuclear Technology Engineering Center on the Idaho National Laboratory Site, approximately 4,400 m<sup>3</sup> (155,000 ft<sup>3</sup> or 1.2 million gallons) of granular-solid HLW calcine was generated and is stored in six bin sets which overlie the Snake River Plain Aquifer, designated by the Environmental Protection Agency as a Sole Source Aquifer. The Idaho Settlement Agreement requires that the Department of Energy put calcine in a form suitable for shipment from Idaho by a target date of December 31, 2035. Interim milestones required a National Environmental Policy Act Record of Decision by December 31, 2009, to identify the methods that will be used to dispose of calcine, including treatment (if necessary), and submission of a Resource Conservation and Recovery Act Part B permit application for the selected treatment by December 1, 2012. As a result, Environmental Management (EM) identified a need to establish the Calcine Disposition Project to determine and implement the final disposition of calcine including characterization, retrieval, treatment (if necessary), packaging, loading, and onsite interim storage pending shipment out of Idaho. In December 2009, DOE issued the Calcine Treatment Record of Decision which identified Hot Isostatic-Pressing as the preferred treatment process. In preparation for the Calcine Disposition Project Critical Decision-1, DOE conducted two Analyses of Alternatives (2016 and 2020) required to support a National Environmental Policy Act Supplement Analysis (a necessary regulatory requirement) for an amended Record of Decision. The respective teams were asked to evaluate the potential treatment technologies, consider risks associated with technology readiness, and evaluate any newly available disposal pathways. The most recent Analysis of Alternatives noted vitrification as one of the best processing options for calcine HLW. It also identified packaging for direct disposal as the lowest cost option; however, there are significantly more regulatory challenges for the direct disposal option that would require multiple agency involvement (e.g., petitioning EPA for a rulemaking action) and stakeholder acceptance. As such the Calcine Disposition Project has continued with activities dedicated to maturing calcine retrieval technology. Various treatment technologies are being evaluated to inform the National Environmental Policy Act Supplement Analysis to support an amended Record of Decision allowing for treatment of calcine for disposition or direct disposal.

This project is being conducted in accordance with the project management requirements in DOE Order 413.3B Chg 7, *Program and Project Management for the Acquisition of Capital Assets*, and all current appropriate project management requirements have been met.

## **Key Performance Parameters**

The Threshold key performance parameters (KPPs), represent the acceptable performance that the project must achieve. Achievement of the Threshold KPPs will be a prerequisite for approval of Critical Decision 4, Project Completion. The Objective Key Performance Parameters represent the desired project performance and will be defined at Critical Decision 2.

Performance Measure	Threshold	Objective
TBD	TBD	TBD

### 3. Project Cost and Schedule

#### Financial Schedule

(Dollars in Thousands)

	Budget Authority (Appropriations)	Obligations	Costs
Total Estimated Cost (TEC)			
Design			
FY 2023	0	0	0
FY 2024	0	0	0
FY 2025	0	0	0
FY 2026	0	0	0
FY 2027	0	0	0
Outyears	TBD	TBD	TBD
Total, Design	TBD	TBD	TBD
Construction			
FY 2023	0	0	0
FY 2024	0	0	0
FY 2025	0	0	0
FY 2026	0	0	0
FY 2027	0	0	0
Outyears	TBD	TBD	TBD
Total, Construction	TBD	TBD	TBD
Total Estimated Cost (TEC)			
FY 2023	0	0	0
FY 2024	0	0	0
FY 2025	0	0	0
FY 2026	0	0	0
FY 2027	0	0	0
Outyears	TBD	TBD	TBD
Total, TEC	TBD	TBD	TBD
Other Project Cost (OPC)			
FY 2023	15,000	4,500	1,150
FY 2024	2,000	12,500	6,222
FY 2025	2,000	2,000	4,850

FY 2026	2,000	2,000	8,777
FY 2027	2,000	2,000	TBD
Outyears	TBD	TBD	TBD
Total, OPC	TBD	TBD	TBD

Total Project Costs

FY 2023	15,000	4,500	1,150
FY 2024	2,000	12,500	6,222
FY 2025	2,000	2,000	4,850
FY 2026	2,000	2,000	8,777
FY 2027	2,000	2,000	TBD
Outyears	TBD	TBD	TBD
Total, TPC	TBD	TBD	TBD

4. Details of Project Cost Estimate

(Dollars in Thousands)

	Current Total Estimate	Previous Total Estimate	Original Validated Baseline
Total Estimated Cost			
Design			
Design	TBD	TBD	N/A
Contingency	TBD	TBD	N/A
Total, Design	TBD	TBD	N/A
Construction			N/A
Site Work	TBD	TBD	N/A
Long-lead Equipment	TBD	TBD	N/A
Construction	TBD	TBD	N/A
Contingency	TBD	TBD	N/A
Total, Construction	TBD	TBD	N/A
Total, TEC	TBD	TBD	N/A
Contingency, TEC	TBD	TBD	N/A
Other Project Cost (OPC)			N/A
OPC except D&D			N/A
Conceptual Planning	TBD	TBD	N/A
Conceptual Design	TBD	TBD	N/A
Independent Reviews & Contingency	TBD	TBD	N/A
Other OPC	TBD	TBD	N/A
Total, OPC except D&D	TBD	TBD	N/A
Total, OPC	TBD	TBD	N/A
Contingency, OPC	TBD	TBD	N/A
Total, TPC	TBD	TBD	N/A

Current Total Estimate	Previous Total Estimate	Original Validated Baseline
------------------------	-------------------------	-----------------------------

Total, Contingency

TBD

TBD

N/A

## 5. Schedule of Appropriation Requests

(Dollars in Thousands)

Request		FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Outyears	Total
FY 2023	TEC	0	N/A	N/A	N/A	N/A	TBD	TBD
	OPC	10,000	N/A	N/A	N/A	N/A	TBD	TBD
	TPC	10,000	N/A	N/A	N/A	N/A	TBD	TBD
FY 2024	TEC	0	0	TBD	TBD	TBD	TBD	TBD
	OPC	15,000	10,000	TBD	TBD	TBD	TBD	TBD
	TPC	15,000	10,000	TBD	TBD	TBD	TBD	TBD
FY 2025	TEC	0	0	0	TBD	TBD	TBD	TBD
	OPC	15,000	2,000	0	TBD	TBD	TBD	TBD
	TPC	15,000	2,000	0	TBD	TBD	TBD	TBD
FY 2026	TEC	0	0	0	0	0	TBD	TBD
	OPC	15,000	2,000	2,000	2,000	0	TBD	TBD
	TPC	15,000	2,000	2,000	2,000	0	TBD	TBD
FY 2027	TEC	0	0	0	0	0	TBD	TBD
	OPC	15,000	2,000	2,000	2,000	2,000	TBD	TBD
	TPC	15,000	2,000	2,000	2,000	2,000	TBD	TBD

## 6. Related Operations and Maintenance Funding Requirements

Start of Operation or Beneficial Occupancy (fiscal quarter or date)	TBD
Expected Useful Life (number of years)	TBD
Expected Future Start of decontamination and decommissioning of this capital asset (fiscal quarter)	TBD

Related Funding requirements  
(dollars in thousands)

	Annual Costs		Life Cycle Costs	
	Current Total Estimate	Previous Total Estimate	Current Total Estimate	Previous Total Estimate
Operations	TBD	TBD	TBD	TBD
Utilities	TBD	TBD	TBD	TBD
Maintenance &	TBD	TBD	TBD	TBD
Total	TBD	TBD	TBD	TBD

## 7. D&D Information

Deactivation and decommissioning of the facilities currently holding the calcine after this mission is completed

Environmental Management/  
Idaho/23-D-402 Calcine  
Disposition Project, Idaho Falls, ID

FY 2027 Congressional Justification

will be a separate effort and is not included in the current mission needs. There is no cost estimated for deactivation and decommissioning in this construction project.

The location of this construction project is an environmental closure site and, therefore, is exempt from the “one-for-one” requirement.

## **8. Acquisition Approach**

The acquisition approach is to use the Indefinite Delivery/Indefinite Quantity end-state contracting model with the current Idaho Cleanup Project contractor.

## Oak Ridge

### Overview

The Oak Ridge Office of Environmental Management (OREM) supports the efforts of the Department of Energy (DOE) to clean up the Manhattan Project and Cold War legacies on the Oak Ridge site. Based on the Fiscal Year 2025 4<sup>th</sup> Quarter environmental liability estimate (in Fiscal Year 2025 constant dollars), the OREM is responsible for addressing \$9 billion in identified clean-up liability at the Oak Ridge site – roughly 2 percent of the \$418 billion total liability across all EM sites. On an annual basis, estimates for the remaining work are evaluated and updated in constant dollars to establish the remaining long-term liability. OREM's budgets also include estimates for future scope currently owned by Office of Science at Oak Ridge National Laboratory and the National Nuclear Security Administration at the Y-12 National Security Complex. Inclusion of this scope in OREM budget planning is required to enable contract authorization. As scope of these programs is added to the OREM contract, the liability for OREM will increase. The Fiscal Year 2025 4Q estimated value of this potential future scope to be transferred from the Offices of Science and NNSA in FY 2025 was \$3 billion. Successful implementation of current plans and milestones would result in completion of the identified clean-up mission at the Oak Ridge site in the 2047-2065 timeframe.

The OREM manages scope within three portfolios tied to sites located within the Oak Ridge Site. OREM performs remediation and demolition projects, manages waste, and implements controls to prevent the transport of contaminants off-site from past federal operations.

- The East Tennessee Technology Park (ETTP) site managed by the Office of Environmental Management (EM) occupies approximately 2,200 acres adjacent to the Clinch River. EM addresses this area in compliance with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). The site was a former gaseous diffusion plant that was shut down in 1987. EM crews have completed facility demolition and soil remediation, marking the first time an entire uranium enrichment complex has been successfully removed anywhere in the world. Crews are currently addressing groundwater and closure activities. EM's efforts have successfully transitioned the enrichment complex into a multi-use industrial park that is attracting companies that are investing billions of dollars, creating new jobs, and advancing energy to meet the Department of Energy's goal for energy dominance.
- The Oak Ridge National Laboratory (ORNL) managed by the Office of Science covers 3,300 acres and conducts multi-program energy and basic research. Historically, it supported both defense production operations and civilian energy research. Manhattan Project and Cold War era legacies co-exist with modernized laboratory facilities.
- The Y-12 National Security Complex, managed by the National Nuclear Security Administration, spans 811 acres. It began as a uranium processing facility, but now it refurbishes nuclear weapon components and serves as the nation's storehouse for uranium-235 and carries out other national security activities. Manhattan Project and Cold War era legacies co-exist with revitalized national security facilities. The Environmental Management Waste Management Facility (a CERCLA disposal facility supporting cleanup of all three sites) is adjacent to Y-12 National Security Complex.

The Office of Environmental Management conducts cleanup to remediate the nuclear weapons production legacy while protecting workers, public health, and the environment. The priorities and sequencing of scope are done in accordance with the regulatory framework and milestones contained within the Oak Ridge Federal Facility Agreement, the Site Treatment Plan, and a Polychlorinated Biphenyl Federal Facilities Compliance Agreement with the United States Environmental Protection Agency and/or the State of Tennessee.

Oak Ridge was placed on the National Priorities List in 1989; therefore, cleanup of the Oak Ridge site is conducted under CERCLA.

Direct maintenance and repairs at Oak Ridge are estimated to be \$73,371,637 (\$72,579,008 for Oak Ridge National Laboratory and Y-12 National Security Complex and \$792,629 for East Tennessee Technology Park) in FY 2027.

### **Highlights of the FY 2027 Budget Request**

The following represents the most significant activities for the Oak Ridge Office of Environmental Management:

- Maintaining Oak Ridge Office of Environmental Management facilities in a safe, compliant, and secure manner.
- Operating Oak Ridge Office of Environmental Management waste treatment and disposal facilities, including an on-site CERCLA disposal facility and sanitary landfills adjacent to the Y-12 National Security Complex, and wastewater and gaseous waste treatment operations at Oak Ridge National Laboratory.
- Continuing cleanup of high-risk excess facilities at Oak Ridge National Laboratory and Y-12 National Security Complex.
- Continuing down-blending of uranium-233 material at Oak Ridge National Laboratory.
- Addressing remaining CERCLA and groundwater activities at the ETP.
- Transferring remaining acreage available for reuse from DOE to non-federal ownership.
- Delisting acreage from the National Priorities List.
- Continuing processing and shipping transuranic debris waste to the Waste Isolation Pilot Plant.
- Designing and constructing a second CERCLA On-Site Waste Disposal Facility necessary for cleanup at Y-12 National Security Complex and Oak Ridge National Laboratory.
- Developing and deploying mercury-related technology

The FY 2027 request includes funding for one-line item construction project:

#### **On-Site Waste Disposal Facility (\$57,828,000)**

The purpose of the second On-Site Waste Disposal Facility project is to provide waste disposal capacity for demolition debris and soils from Y-12 National Security Complex and Oak Ridge National Laboratory cleanup projects once the existing disposal facility has reached capacity. This second facility will enable EM to avoid costly transportation operations and allows the program to address high-risk contaminated facilities. The request includes funding for design and other project costs.

#### **FY 2026-FY 2027 Key Milestones/Outlook**

- (March 2026) Screen Arts Characterization (start).
- (March 2026) Review Y-12 National Security Complex Cleanup Mercury analysis of alternatives to inform OREM priorities (start).
- (April 2026) Beta-1 Preparation for Demolition (complete).
- (April 2026) White Wing Scrap Yard North Boundary Area Removal Action (start).
- (August 2026) Alpha 2 Demolition (complete).
- (August 2026) Second Wet Season Groundwater Field Demonstration Technical Memorandum (submittal).

- (September 2026) Processing of oxides containing DE and RCP-06 material (restart).
- (September 2026) Processing of 50 U-233 Oxide canisters (complete).
- (October 2026) LGWO Pipe Replacement 2600 (complete).
- (October 2026) 9401-1 Demolition (start).
- (January 2027) Deactivation of select Isotope Row Facilities (complete).
- (January 2027) 3042 Preparation for Demolition (complete).
- (March 2027) Demolition of 3026 A-Cell (complete).
- (September 2027) Demolition of Select Isotope Row Facilities (complete).
- (September 2026) Establish one or more transfer/lease/redevelopment agreements to support industry in response to Executive Order (EO 14154) Unleashing American Energy.

## **Regulatory Framework**

Cleanup of the Oak Ridge site is primarily governed by three regulatory agreements/compliance orders:

- The Federal Facility Agreement for the Oak Ridge Reservation was signed by DOE, the United States Environmental Protection Agency, and the Tennessee Department of Environment and Conservation on January 1, 1992. The document establishes a procedure framework and schedule for developing, implementing, and monitoring appropriate site response actions under the Comprehensive Environmental Response, Compensation, and Liability Act.
- The Oak Ridge Site Compliance Order was signed on September 26, 1995, by DOE and the Tennessee Department of Environment and Conservation. The document enforces treatment of mixed low-level wastes and transuranic wastes under the Resource Conservation and Recovery Act. This order established milestones in the Site Treatment Plan to complete treatment of all Oak Ridge mixed low-level wastes with a known disposition path by 2012 (accomplished in 2011). This order also established milestones for processing and shipment certification of transuranic wastes.
- The Oak Ridge Site Polychlorinated Biphenyl Federal Facilities Compliance Agreement was signed by DOE and the Environmental Protection Agency on October 28, 1996, to establish a framework for treatment of polychlorinated biphenyl contaminated wastes under the Toxic Substances Control Act. This agreement requires substantive annual progress in disposition of polychlorinated biphenyl contaminated waste at Oak Ridge.

## **Contractual Framework**

Oak Ridge has multiple contracts with large and small businesses to accomplish the effective and safe execution of cleanup of the Oak Ridge site. The major contracts for performing/supporting environmental management cleanup at Oak Ridge include:

- The United Cleanup Oak Ridge LLC contract:
  - Scope - Environmental cleanup on the Oak Ridge site including decontamination and demolition, remediation, waste treatment and disposal operations, and other environmental cleanup support activities.
  - Period of Performance – February 28, 2022 – May 9, 2033.
  - Contract Value - \$8.3 billion
  - Type – Indefinite-Delivery/Indefinite-Quantity contract with cost reimbursable and/or fixed price task orders. Cost reimbursable task orders can include no fee, cost plus incentive fee, cost plus award

fee and cost-plus fixed fee task orders. Task orders will define objective performance criteria for completion of End States. The term end state is defined as the specific situation, including accomplishment of completion criteria, for an environmental cleanup activity within and/or at the end of a task order period of performance, consistent with the Environmental Management End-state contract model. Performance of all Task Orders issued before the end of the Contract ordering period shall not exceed five (5) years beyond the end of the Contract ordering period.

- The Isotek Systems LLC contract:
  - o Scope - Complete the disposition of Uranium-233 material stored in Building 3019 at Oak Ridge National Laboratory. The contractor has completed the direct disposition campaign and is preparing to process the remainder of the inventory.
  - o Period of Performance - Ends December 2028.
  - o Contract Value - \$1.06 billion
  - o Type - The contract, originally awarded as a cost-reimbursement type, was converted to a firm-fixed price beginning with the direct disposition campaign. It is currently processing the low-dose portion of the remaining inventory in gloveboxes and began processing the high-dose portion of the remaining inventory in hot cells in 2022.
  - o The conversion to firm-fixed price has been a successful model for this contract and is expected to continue for the remaining options.

## **Strategic Management**

The near-term OREM priorities are: (1) complete closure and continue reindustrialization of the East Tennessee Technology Park; (2) cleanup of the excess contaminated facilities at the Oak Ridge National Laboratory and the Y-12 National Security Complex; (3) process and disposition the remaining uranium-233 inventory; (4) process and ship the remaining transuranic debris waste to the Waste Isolation Pilot Plant; (5) construct a new on-site Comprehensive Environmental Response, Compensation, and Liability Act disposal facility; (6) safely maintain and operate enduring waste facilities including LLLW and landfills; and (7) continue the groundwater monitoring program for the site.

EM will continue to focus on decommissioning of legacy nuclear sites and environmental remediation, while playing a vital role working for the American people through redevelopment of land and reuse of materials. Revitalization will transform legacy sites with unique capabilities, and skilled workers into hubs of economic strength, affordable American energy and infrastructure to power the AI race. EM will also play a vital role in completing the nuclear fuel cycle and be future focused on redeveloping sites for new nuclear energy, digital infrastructure and advanced manufacturing.

**Oak Ridge  
Funding (\$K)**

	FY 2025 Enacted	FY 2026 Enacted	FY 2027 Request	FY 2027 Request vs FY 2026 Enacted	
				\$	%
<b>Defense Environmental Cleanup</b>					
<b>Oak Ridge</b>					
<b>OR Cleanup and Disposition</b>					
OR-0013B / Solid Waste Stabilization and Disposition-2012	72,000	75,000	85,800	+10,800	+14%
<b>OR Nuclear Facility D&amp;D</b>					
OR-0041 / Nuclear Facility D&D- Y-12					
Operating	194,626	175,000	148,411	-26,589	-15%
<b>Construction</b>					
14-D-403: Outfall 200 Mercury Treatment Facility, OR (OR- 0041)	44,000	0	0	+0	0%
On-Site Disposal Facility	0	0	0	+0	0%
17-D-401: On-Site Disposal Facility	10,000	54,885	57,828	+2,943	+5%
Environmental Management Disposal Facility, Oak Ridge, TN (PBS OR-0041)	0	0	0	+0	0%
	248,626	229,885	206,239	-23,646	-10%
OR-0042 / Nuclear Facility D&D- Oak Ridge National Laboratory	191,047	225,000	140,886	-84,114	-37%
<b>Subtotal, OR Nuclear Facility D&amp;D</b>	<b>439,673</b>	<b>454,885</b>	<b>347,125</b>	<b>-107,760</b>	<b>-24%</b>

**OR Reservation Community and  
Regulatory Support**

OR-0100 / Oak Ridge Reservation Community & Regulatory Support (Defense)	5,500	5,900	5,100	-800	-14%
<b>OR Technology Development and Deployment</b>					
OR-TD-0100 / Technology Development Activities - Oak Ridge	3,000	3,300	3,500	+200	+6%
<b>U233 Disposition Program</b>					
OR-0011D / U233 Disposition Program	60,000	63,000	70,000	+7,000	+11%
<b>Total, Oak Ridge</b>	<b>580,173</b>	<b>602,085</b>	<b>511,525</b>	<b>-90,560</b>	<b>-15%</b>
<b>Safeguards and Security</b>					
OR-0020 / Safeguards and Security	14,000	14,000	17,000	+3,000	+21%
<b>Total, Defense Environmental Cleanup</b>	<b>594,173</b>	<b>616,085</b>	<b>528,525</b>	<b>-87,560</b>	<b>-14%</b>
<b>Uranium Enrichment Decontamination and Decommissioning Fund</b>					
<b>Oak Ridge</b>					
<b>Oak Ridge</b>					
OR-0040 / Nuclear Facility D&D- East Tennessee Technology Park (D&D Fund)	91,000	75,000	65,000	-10,000	-13%
<b>Pension and Community and Regulatory Support</b>					
<b>Oak Ridge</b>					
OR-0102 / East Tennessee Technology Park Contract/Post- Closure Liabilities/Administration	9,792	10,115	10,115	+0	0%
<b>Total, Uranium Enrichment Decontamination and Decommissioning Fund</b>	<b>100,792</b>	<b>85,115</b>	<b>75,115</b>	<b>-10,000</b>	<b>-12%</b>
<b>Total, Oak Ridge</b>	<b>694,965</b>	<b>701,200</b>	<b>603,640</b>	<b>-97,560</b>	<b>-14%</b>

**Environmental Management/  
Oak Ridge**

**FY 2027 Congressional Justification**

**Oak Ridge**  
**Explanation of Major Changes (\$K)**

<b>FY 2026 Enacted</b>	<b>FY 2027 Request</b>	<b>FY 2027 Request vs FY 2026 Enacted</b>
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**Defense Environmental Cleanup**

**Oak Ridge**

**OR Cleanup and Disposition**

**OR-0013B / Solid Waste Stabilization and Disposition-2012**

- Increase supports continued progress on processing transuranic (TRU) debris and mixed low-level radioactive legacy waste. The increase also enables the performance of minor modifications of the facility to support the repacking of TRU waste.

75,000      85,800      +10,800

**OR Nuclear Facility D&D**

**OR-0041 / Nuclear Facility D&D-Y-12**

- Decrease reflects changes to when Deactivation and Demolition is being conducted to better support the mission needs of the Y-12 National Nuclear Security Complex.

229,885      206,239      -23,646

**OR-0042 / Nuclear Facility D&D-Oak Ridge National Laboratory**

- Decrease reflects completion of some ongoing cleanup activities and sequencing of Deactivation and Demolition activities to address contamination to support the mission of the Oak Ridge National Laboratory.

225,000      140,886      -84,114

**OR Reservation Community and Regulatory Support**

**OR-0100 / Oak Ridge Reservation Community & Regulatory Support (Defense)**

- Decrease reflects what is currently needed to fully support State of the Tennessee emergency management and oversight grant.

5,900      5,100      -800

**OR Technology Development and Deployment**

**OR-TD-0100 / Technology Development Activities - Oak Ridge**

- Increase supports test of critical technologies to aid in the removal of mercury from various sources.

3,300      3,500      +200

**U233 Disposition Program**

**Environmental Management/  
Oak Ridge**

**FY 2027 Congressional Justification**

<b>OR-0011D / U233 Disposition Program</b>			
• Increase supports continued progress on dispositioning U-233 material.	63,000	70,000	+7,000
<b>Safeguards and Security</b>			
<b>OR-0020 / Safeguards and Security</b>			
• Increase supports emerging cybersecurity requirements.	14,000	17,000	+3,000
<b>Uranium Enrichment Decontamination and Decommissioning Fund</b>			
<b>OR-0040 / Nuclear Facility D&amp;D-East Tennessee Technology Park (D&amp;D Fund)</b>			
• Decrease reflects resequencing of activities.	75,000	65,000	-10,000
<b>Pension and Community and Regulatory Support</b>			
<b>OR-0102 / East Tennessee Technology Park Contract/Post-Closure Liabilities/Administration</b>			
• No changes in funding levels requested.	10,115	10,115	+0
<b>Total, Oak Ridge</b>	<b>701,200</b>	<b>603,640</b>	<b>-97,560</b>

**Solid Waste Stabilization and Disposition (PBS: OR-0013B)**

**Overview**

This Project Baseline Summary (PBS) is within the Defense Environmental Cleanup appropriation.

This PBS funds the storage and disposition of the Oak Ridge site’s transuranic (TRU) debris and sludges and mixed low-level radioactive waste. The long-term liability of Oak Ridge site TRU and mixed low-level radioactive waste treatment and disposition is currently estimated to cost \$1 billion and take up to 30 years to complete. Activities funded in FY 2027 will reduce this long-term liability by \$86 million.

Contact-handled transuranic debris processing began in FY 2006 and remote-handled transuranic debris processing began in FY 2008 at the Transuranic Waste Processing Center. All processed transuranic debris will be safely stored at Oak Ridge until off-site shipments to the Waste Isolation Pilot Plant are complete. Waste characterization and certification activities conducted by the National TRU Program Central Characterization project are included in this PBS.

**Activities and Explanation of Changes**

FY 2026 Enacted	FY 2027 Request	Explanation of Changes - FY 2027 Request vs FY 2026 Enacted
\$75,000,000	\$85,800,000	+\$10,800,000
<ul style="list-style-type: none"> <li>Maintain regulatory and safety basis documents and permits and operated waste storage facilities at the Oak Ridge National Laboratory.</li> <li>Operate the Transuranic Waste Processing Center to process transuranic debris waste and shipped processed waste to the Waste Isolation Pilot Plant.</li> <li>Manage mixed low-level radioactive waste in compliance with regulations.</li> </ul>	<ul style="list-style-type: none"> <li>Maintain regulatory and safety basis documents and permits and operate waste storage facilities at the Oak Ridge National Laboratory.</li> <li>Operate the Transuranic Waste Processing Center to process transuranic debris waste and ship processed waste to the Waste Isolation Pilot Plant.</li> <li>Continue to manage and develop disposition alternatives for mixed low-</li> </ul>	<ul style="list-style-type: none"> <li>Increase supports continued progress on processing transuranic debris and mixed low-level radioactive legacy waste.</li> <li>Performance of minor modifications of the facility to support the repacking of TRU waste from Removable Lid Canisters to Shielded Canisters Assembly.</li> </ul>

- 
- Continue testing of sludge processing facility critical technologies.

level radioactive waste currently with no path to disposal.

**Nuclear Facility D&D-Y-12 (PBS: OR-0041)**

**Overview**

This Project Baseline Summary (PBS) is within the Defense Environmental Cleanup appropriation.

This PBS funds the Oak Ridge Office of Environmental Management (OREM) operations and cleanup activities at the Y-12 National Security Complex. Y-12 is the source of mercury contamination in the Upper East Fork Poplar Creek that flows through the City of Oak Ridge. OREM performs the following work at Y-12: surveillance and maintenance of current EM owned excess facilities awaiting decontamination and decommissioning; operations of a Comprehensive, Environmental, Response, Compensation and Liability Act (CERCLA) disposal facility for cleanup debris; operations of landfills for disposition of sanitary waste; groundwater and surface water monitoring to assess the effectiveness of completed cleanup actions that support future remediation decisions identified in CERCLA Records of Decision; and deactivation and demolition of excess contaminated facilities. The long-term liability of Oak Ridge site Y-12 nuclear facility D&D is currently estimated to cost \$3.9 billion and take up to 40 years to complete. Activities funded in FY 2027 will reduce this long-term liability by \$206 million.

This PBS also includes one line-item construction project that will provide the infrastructure for the cost-effective cleanup of Y-12. The On-Site Waste Disposal Facility will provide on-site waste disposal capacity for demolition debris and remediation waste from the cleanup of ORNL and Y-12.

**Activities and Explanation of Changes**

FY 2026 Enacted	FY 2027 Request	Explanation of Changes - FY 2027 Request vs FY 2026 Enacted
<b>\$229,885,000</b>	<b>\$206,239,000</b>	<b>-\$23,646,000</b>
<ul style="list-style-type: none"> <li>Continue routine surveillance and maintenance for EM-owned excess contaminated facilities at Y-12.</li> <li>Operate the Environmental Management Waste Management</li> </ul>	<ul style="list-style-type: none"> <li>Continue routine surveillance and maintenance for EM-owned excess contaminated facilities at Y-12.</li> </ul>	<ul style="list-style-type: none"> <li>Decrease reflects changes to when D&amp;D is being conducted to better support the mission needs of the Y-12 National Security Complex.</li> </ul>

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- Facility and other Oak Ridge site landfills.
- Continue to implement Oak Ridge site groundwater strategy.
  - Pause Outfall Mercury Treatment Facility construction and start S&M of the partially built facility.
  - Continue Y-12 cleanup of high priority excess facilities.
  - Continue the design of the Environmental Management Disposal Facility needed to support cleanup of Oak Ridge National Laboratory and Y-12.
- Operate the Environmental Management Waste Management Facility and other Oak Ridge site landfills.
  - Continue implementing Oak Ridge site groundwater strategy.
  - Continue Y-12 cleanup of high priority excess facilities.
  - Continue the design and construction of the Environmental Management Disposal Facility needed to support cleanup of Oak Ridge National Laboratory and Y-12.

**Nuclear Facility D&D-Oak Ridge National Laboratory (PBS: OR-0042)**

**Overview**

This Project Baseline Summary (PBS) is within the Defense Environmental Cleanup appropriation.

This PBS funds the following Oak Ridge Office of Environmental Management operations and cleanup activities at the Oak Ridge National Laboratory; operation of liquid, gaseous, and process waste treatment systems that support Office of Environmental Management and Office of Science missions; surveillance and maintenance of Environmental Management owned facilities awaiting future decontamination and decommissioning; groundwater and surface water monitoring; and deactivation and demolition of excess contaminated facilities. The long-term liability of Oak Ridge site ORNL nuclear facility D&D is currently estimated to cost \$2.8 billion and take up to 40 years to complete. Activities funded in FY 2027 will reduce this long-term liability by \$141 million.

**Activities and Explanation of Changes**

FY 2026 Enacted	FY 2027 Request	Explanation of Changes - FY 2027 Request vs FY 2026 Enacted
<b>\$225,000,000</b>	<b>\$140,886,000</b>	<b>-\$84,114,000</b>
<ul style="list-style-type: none"> <li>• Monitor groundwater and surface water in accordance with the Melton Valley and Bethel Valley Records of Decision.</li> <li>• Maintain liquid, gaseous and process waste operations systems in support of the missions of the Offices of Environmental Management and Science.</li> <li>• Continue Oak Ridge National Laboratory cleanup of high priority excess facilities.</li> <li>• Perform surveillance and maintenance required by the Melton Valley</li> </ul>	<ul style="list-style-type: none"> <li>• Monitor groundwater and surface water in accordance with the Melton Valley and Bethel Valley Records of Decision.</li> <li>• Maintain liquid, gaseous and process waste operations systems in support of the missions of the Offices of Environmental Management and Science.</li> <li>• Continue Oak Ridge National Laboratory cleanup of high priority excess facilities.</li> <li>• Perform surveillance and maintenance required by the Melton Valley CERCLA</li> </ul>	<ul style="list-style-type: none"> <li>• Decrease reflects completion of some ongoing cleanup activities and sequencing of Deactivation and Demolition activities to address contamination to support the mission of the Oak Ridge National Laboratory.</li> </ul>

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Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) Record of Decision and for inactive facilities and reactors at the Oak Ridge National Laboratory in a safe and compliant manner.

- Conduct infrastructure upgrades to the Liquid and Gaseous Waste Operations facilities to ensure mission critical activities continue at Oak Ridge Environmental Management and the Oak Ridge National Laboratory.
- Perform enhanced surveillance and maintenance activities at the Molten Salt Reactor Experiment Facility to address issues with safety systems.

Record of Decision and for inactive facilities and reactors at the Oak Ridge National Laboratory in a safe and compliant manner.

- Conduct infrastructure upgrades to the Liquid and Gaseous Waste Operations facilities to ensure mission critical activities continue at Oak Ridge Environmental Management and the Oak Ridge National Laboratory.
- Perform enhanced surveillance and maintenance activities at the Molten Salt Reactor Experiment Facility to address issues with safety systems.

**Oak Ridge Reservation Community & Regulatory Support (Defense) (PBS: OR-0100)**

**Overview**

This Project Baseline Summary (PBS) is within the Defense Environmental Cleanup appropriation.

This PBS funds the Environmental Surveillance Oversight and Federal Facility Agreement grants with the state of Tennessee and the activities of the Oak Ridge Site Specific Advisory Board. The Environmental Surveillance Oversight grant supports the Tennessee Department of Environment and Conservation's independent oversight and monitoring of the Department of Energy (DOE) activities taking place both on-site and off-site associated with the Oak Ridge DOE programs. The Federal Facility Agreement regulatory grant provides funding for regulatory requirements of cleanup activities under the interagency Federal Facility Agreement under Comprehensive Environmental Response and Liability Act. The support for the Site-Specific Advisory Board is chartered under the Federal Advisory Committee Act.

**Activities and Explanation of Changes**

FY 2026 Enacted	FY 2027 Request	Explanation of Changes - FY 2027 Request vs FY 2026 Enacted
<b>\$5,900,000</b>	<b>\$5,100,000</b>	<b>-\$800,000</b>
<ul style="list-style-type: none"> <li>Continue support to the State of Tennessee for conducting annual oversight, monitoring, and reporting. This included annual reports to the public; independent monitoring program of all environmental media; off-site monitoring program of wells owned by private citizens adjacent to DOE land; establishment of background levels; oversight of DOE facility surveillance walkthroughs; Federal Facility Agreement support activities; and emergency management exercises.</li> </ul>	<ul style="list-style-type: none"> <li>Continue support to the State of Tennessee for conducting annual oversight, monitoring, and reporting. This includes annual reports to the public; independent monitoring program of all environmental media; off-site monitoring program of wells owned by private citizens adjacent to DOE land; establishment of background levels; oversight of DOE facility surveillance walkthroughs; Federal Facility Agreement support activities; and emergency management exercises.</li> </ul>	<ul style="list-style-type: none"> <li>Decrease reflects what is currently needed to fully support State of the Tennessee emergency management and oversight grant.</li> </ul>

- 
- Continue activities by the Site-Specific Advisory Board sponsored by DOE-EM to assist in public participation activities and outreach assistance.
  - Continue activities by the Site-Specific Advisory Board sponsored by DOE-EM to assist in public participation activities and outreach assistance.

**Technology Development Activities (PBS: OR-TD-0100)**

This Project Baseline Summary (PBS) is within the Defense Environmental Cleanup appropriation.

This PBS funds technology development and deployment activities that focus on resolving technical challenges through the application of science and innovation to develop practical solutions for environmental cleanup in response to the highest priority needs of the Office of Environmental Management sites. These activities improve the technical maturity of current technologies, develop cost-effective alternative technologies, and improve and/or provide the next generation of technologies for insertion into program activities. EM is enhancing its technology development and deployment efforts with a coordinated two-prong approach in which select projects will be managed at Headquarters while others will be managed at the field sites:

- Longer-term activities with low technology readiness levels (higher development risks) are managed at Headquarters; and
- Shorter-term activities with higher technology readiness levels are managed at the sites where the technology will result in direct mission-related benefits.

The largest environmental risks on the Department of Energy Oak Ridge Reservation stem from ongoing offsite release of mercury from the Y-12 National Security Complex. Downstream bioaccumulation of mercury in fish is a regulatory concern and mercury migration into and through other media such as groundwater, poses challenges to environmental remediation and management. To protect human health and the environment, the Department of Energy is initiating a series of early actions that can be taken pending demolition of the former mercury process buildings. The challenges associated with the remediation of mercury in soil and water are unique across the complex in both scale and complexity. Current mercury discharges from the Y-12 National Security Complex exceed regulatory standards. Early actions are required to address mercury sources; characterize areas that are accessible pending building demolition; and treat surface water to meet regulatory standards at the site boundary. The goal of this technology development and deployment investment is to reduce the overall remediation scope, schedule, and cost through improved understanding of mercury sources and transport through environmental media and the watershed; and to develop characterization, removal, and waste treatment/disposition techniques.

**Activities and Explanation of Changes**

FY 2026 Enacted	FY 2027 Request	Explanation of Changes - FY 2027 Request vs FY 2026 Enacted
\$3,300,000	\$3,500,000	+\$200,000

- 
- Continue planned mercury technology development activities, to include focus areas related to understanding soil and groundwater source control, water chemistry and sediment manipulation, and ecological manipulation.
  - Continue planned mercury technology development activities, to include focus areas related to understanding soil and groundwater source control, water chemistry and sediment manipulation, and ecological manipulation.
  - Increase supports test of critical technologies to aid in the removal of mercury from various sources.

## U233 Disposition Program (PBS: OR-0011D)

### Overview

This Project Baseline Summary (PBS) is within the Defense Environmental Cleanup appropriation.

This PBS funds the storage, processing, and disposition of the inventory of uranium-233 stored in Building 3019 at the Oak Ridge National Laboratory. Uranium-233 is a special nuclear material that requires strict safeguards and security controls to protect against access. The Defense Nuclear Facilities Safety Board issued Recommendation 97-1, *Safe Storage of Uranium-233*, which identified concerns related to long-term storage of the inventory in Building 3019. The direct disposition campaign disposed of approximately half of the inventory (Consolidated Edison Uranium Solidification Project). The processing campaign that is underway will down blend and dispose of the remaining inventory. Disposition of the remaining uranium-233 inventory will reduce the substantial annual costs associated with safeguards and security requirements. Further, the risk of a nuclear criticality event will be eliminated, as well as the need for future facility upgrades to Building 3019 to ensure safe storage of the inventory. . The long-term liability of the Oak Ridge U233 Disposition Program is currently estimated to cost \$356 million and take up to 8 years to complete. Activities funded in FY 2027 will reduce this long-term liability by \$70 million.

### Activities and Explanation of Changes

FY 2026 Enacted	FY 2027 Request	Explanation of Changes - FY 2027 Request vs FY 2026 Enacted
<b>\$63,000,000</b>	<b>\$70,000,000</b>	<b>+\$7,000,000</b>
<ul style="list-style-type: none"> <li>• Continue required surveillance and maintenance and other activities at Building 3019 and Building 2026 to maintain a safe and secure condition.</li> <li>• Continue Uranium-233 down blending operations in Building 2026 hot cells.</li> </ul>	<ul style="list-style-type: none"> <li>• Continue required surveillance and maintenance and other activities at Building 3019 and Building 2026 to maintain a safe and secure condition.</li> <li>• Continue Uranium-233 down blending operations in Building 2026 hot cells.</li> </ul>	<ul style="list-style-type: none"> <li>• Increase supports continued progress on dispositioning U-233 material.</li> </ul>

**Safeguards and Security (PBS: OR-0020)**

**Overview**

This Project Baseline Summary (PBS) is within the Defense Environmental Cleanup appropriation

This PBS funds the safeguard and security services required to support the site’s cleanup program, the implementation of Homeland Security Presidential Directive-12 requirements, and the Cyber Security Program activities to maintain information and technology systems in compliance with legal, regulatory, government-wide, or DOE requirements including EO 14028, DOE O 205.1C, EM Cybersecurity Program Plan (EM-CSPP), vulnerability management, continuous diagnostic and mitigation implementation, cyber security awareness, and user training.

**Activities and Explanation of Changes**

FY 2026 Enacted	FY 2027 Request	Explanation of Changes - FY 2027 Request vs FY 2026 Enacted
<b>\$14,000,000</b>	<b>\$17,000,000</b>	<b>+\$3,000,000</b>
<ul style="list-style-type: none"> <li>Provide safeguard and security services for the following major facilities: Classified Burial Grounds, Environmental Management Waste Management Facility, Transuranic Waste Processing Facility, and the overall East Tennessee Technology Park was applied in the areas of: protection program management, emergency response, Physical Security, information protection, Protective Force, Personnel Security, Cyber Security (e.g., EO 14028, DOE O 205.1C, EM-CSPP), and Nuclear Material Control and Accountability.</li> </ul>	<ul style="list-style-type: none"> <li>Provide safeguard and security services for the following major facilities: Classified Burial Grounds, Environmental Management Waste Management Facility, Transuranic Waste Processing Facility, and the overall East Tennessee Technology Park will be applied in the areas of: protection program management, emergency response, Physical Security, information protection, Protective Force, Personnel Security, Cyber Security (e.g., EO 14028, DOE O 205.1C, EM-CSPP), and Nuclear Material Control and Accountability.</li> </ul>	<ul style="list-style-type: none"> <li>Increase supports emerging cybersecurity requirements.</li> </ul>

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- Site security services were applied using a graded, risk-based management approach supporting site cleanup mission priorities and protecting government equipment, materials, information, and the site workforce.
  - Site security services will be applied using a graded, risk-based management approach supporting site cleanup mission priorities and protecting government equipment, materials, information, and the site workforce.

**Nuclear Facility D&D-East Tennessee Technology Park (D&D Fund) (PBS: OR-0040)**

**Overview**

This Project Baseline Summary (PBS) is within the Uranium Enrichment Decontamination and Decommissioning Fund appropriation.

This PBS funds the cleanup and closure of the East Tennessee Technology Park (ETTP). The five large gaseous diffusion plants and their supporting facilities and other site supporting structures not needed to complete cleanup of the site have been demolished. The remaining scope to close the site includes slab removals, soil and groundwater remediation and closure activities. The long-term liability of Oak Ridge site ETTP D&D is currently estimated to cost \$358 million and take up to 10 years to complete. Activities funded in FY 2027 will reduce this long-term liability by \$65 million.

The end-state of most of the site will be appropriate for industrial reuse. EM’s effort is successfully transitioning the shuttered, contaminated enrichment complex into a multi-use industrial park that is attracting companies that are investing billions of dollars, creating new jobs, and advancing energy technologies to meet the nation’s future power needs.

**Activities and Explanation of Changes**

FY 2026 Enacted	FY 2027 Request	Explanation of Changes - FY 2027 Request vs FY 2026 Enacted
<b>\$75,000,000</b>	<b>\$65,000,000</b>	<b>-\$10,000,000</b>
<ul style="list-style-type: none"> <li>Maintain ETTP in a safe and secure condition.</li> <li>Conduct activities at ETTP to provide infrastructure and support to cleanup projects.</li> <li>Conduct characterization and slab and soil remediation and other activities required to close the site.</li> </ul>	<ul style="list-style-type: none"> <li>Maintain ETTP in a safe and secure condition.</li> <li>Conduct activities at ETTP to provide infrastructure and support to cleanup projects.</li> <li>Conduct characterization and slab and soil remediation and other activities required to close the site.</li> </ul>	<ul style="list-style-type: none"> <li>Decrease reflects resequencing of activities.</li> </ul>

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- Continue the transfer of remaining acreage available for reuse from DOE to non-federal ownership.
  - Continue the transfer of remaining acreage available for reuse from DOE to non-federal ownership.

**East Tennessee Technology Park Contract/Post-Closure Liabilities/Administration (PBS: OR-0102)**

**Overview**

This Project Baseline Summary (PBS) is within the Uranium Enrichment Decontamination and Decommissioning Fund appropriation.

This PBS funds ongoing, long-term contractor obligations including post-retirement life and medical, long-term disability and pension benefits for pre-April 1998 retirees, who supported the Oak Ridge enrichment facility programs.

**Activities and Explanation of Changes**

<b>FY 2026 Enacted</b>	<b>FY 2027 Request</b>	<b>Explanation of Changes - FY 2027 Request vs FY 2026 Enacted</b>
<b>\$10,115,000</b>	<b>\$10,115,000</b>	<b>+\$0</b>
<ul style="list-style-type: none"><li>• Continue funding of contractor liabilities associated with post-retirement life, medical benefits and pensions.</li></ul>	<ul style="list-style-type: none"><li>• Continue funding of contractor liabilities associated with post-retirement life, medical benefits, and pensions.</li></ul>	<ul style="list-style-type: none"><li>• No changes in funding levels requested.</li></ul>

**17-D-401**  
**On Site Waste Disposal Facility**  
**Y-12 National Security Complex, Oak Ridge Tennessee**  
**Project for Design and Construction**

**1. Summary and Significant Changes, and Schedule and Cost History**

**Summary**

The FY 2027 Request for the Oak Ridge On-Site Waste Disposal Facility is \$57,828,000. Congressional control is at Total Project Cost. Part of the FY 2027 scope of work to be performed includes finalizing design and working Critical Decision requirements approval.

The most recent DOE O 413.3B approved Critical Decision (CD) is Groundwater Field Demonstration Subproject two Critical Decision (CD)-4 on June 12, 2025. The project CD-1, was approved on August 23, 2018, for Phase 1 of 3 construction phases planned for this line item project. The 2018 CD-1 cost range was \$175,000,000-\$375,000,000 for the Phase 1 scope. The Phase 1 scope includes completion of final design for all three construction phases, early site preparation activities, and Phase 1 construction. On June 1, 2023 the Project Management Executive (PME) approved a revision to Preliminary Project Execution Plan (PPEP) which updated the cost range (\$335,000,000-\$555,000,000) to take into account the requirements in the approved Record of Decision (ROD) signed on September 30, 2022, and escalation due to the delays in getting regulatory approval. Also, the 2022 revised PPEP, in accordance with DOE O 413.3B, approved separating the project into three subprojects. On October 6, 2025 the PME approved a second revision to PPEP to separate the last project into two additional subprojects for a total of five subprojects. Also, the update documented CD-4 completion of the first two subprojects.

Phases 2 and 3 will have their own combined Critical Decision-1/2/3 prior to each subsequent phase of construction.

A Federal Project Director has been assigned to the project and has approved this data sheet. The Federal Project Director is currently certified at Level III.

**Significant Changes**

This FY 2027 Data Sheet is an update to the FY 2026 Construction Project Data Sheet for the On-Site Waste Disposal Facility and does not include a new start for the budget year.

**Critical Milestone History**

**Fiscal Year or Date**

**Overall Project (Phase 1) PARS ID 1080**

Request	CD-0	Conceptual Design Complete	CD-1	Final Design Complete	CD-3A	CD-2/3	D&D Complete	CD-4
<b>FY2018</b>	5/26/2016	4Q FY2017	4Q FY2018	TBD	N/A	TBD	N/A	TBD
<b>FY 2019</b>	5/26/2016	4Q FY2017	4Q FY2018	TBD	N/A	TBD	N/A	TBD
<b>FY 2020</b>	5/26/2016	1/12/2018	8/23/2018	4Q FY2020	TBD	TBD	N/A	TBD
<b>FY 2021</b>	5/26/2016	1/12/2018	8/23/2018	1Q FY2022	TBD	TBD	N/A	TBD
<b>FY 2022</b>	5/26/2016	1/12/2018	8/23/2018	3Q FY2025	3Q FY2022	TBD	N/A	TBD
<b>FY 2023</b>	5/26/2016	1/12/2018	8/23/2018	TBD	1Q FY2023	TBD	N/A	TBD
<b>FY 2024</b>	5/26/2016	1/12/2018	8/23/2018	TBD	1Q FY2023	TBD	N/A	TBD
<b>FY 2025</b>	5/26/2016	1/12/2018	8/23/2018	2Q FY2027	N/A	TBD	N/A	TBD
<b>FY 2026</b>	5/26/2016	1/12/2018	8/23/2018	2Q FY2027	N/A	TBD	N/A	TBD
<b>FY 2027</b>	5/26/2016	1/12/2018	8/23/2018	2Q FY2027	N/A	TBD	N/A	TBD

**Early Site Preparation Subproject 1 (Phase 1) PARS ID 1244**

Request	CD-0	Conceptual Design Complete	CD-1	Final Design Complete	CD-3A	CD-2/3	D&D Complete	CD-4
<b>FY 2025</b>	5/26/2016	1/12/2018	8/23/2018	12/14/2022	N/A	06/15/2023	N/A	2Q FY2025
<b>FY 2026</b>	5/26/2016	1/12/2018	8/23/2018	12/14/2022	N/A	06/15/2023	N/A	8/28/2024

**Groundwater Field Demonstration Subproject 2 (Phase 1) PARS ID 1245**

Request	CD-0	Conceptual Design Complete	CD-1	Final Design Complete	CD-3A	CD-2/3	D&D Complete	CD-4
<b>FY 2025</b>	5/26/2016	1/12/2018	8/23/2018	11/21/2023	TBD	2Q FY2024	N/A	4Q FY2029
<b>FY 2026</b>	5/26/2016	1/12/2018	8/23/2018	11/21/2023	TBD	1/30/2024	N/A	4Q FY2025
<b>FY 2027</b>	5/26/2016	1/12/2018	8/23/2018	11/21/2023	N/A	1/30/2024	N/A	06/12/2025

**Support Facilities & Infrastructure Subproject 3-1 (Phase 1) PARS ID 1296**

Request	CD-0	Conceptual Design Complete	CD-1	Final Design Complete	CD-3A	CD-2/3	D&D Complete	CD-4
<b>FY 2027</b>	5/26/2016	1/12/2018	8/23/2018	3Q FY2026	1Q FY2026	TBD	N/A	TBD

**Environmental Management/  
Oak Ridge/17-D-401 On Site Waste  
Disposal Facility Y-12 National Security  
Complex, Oak Ridge Tennessee**

**FY 2027 Congressional Justification**

**Landfill Water Treatment System Subproject 3-2 (Phase 1) PARS 1297**

Request	CD-0	Conceptual Design Complete	CD-1	Final Design Complete	CD-3A	CD-2/3	D&D Complete	CD-4
<b>FY 2027</b>	5/26/2016	1/12/2018	8/23/2018	2Q FY2027	4Q FY2026	TBD	N/A	TBD

**Balance of Construction Subproject 3 (Phase 1) PARS ID 1246**

Request	CD-0	Conceptual Design Complete	CD-1	Final Design Complete	CD-3A	CD-2/3	D&D Complete	CD-4
<b>FY 2025</b>	5/26/2016	1/12/2018	8/23/2018	2Q FY2027	TBD	TBD	N/A	TBD
<b>FY 2026</b>	5/26/2016	1/12/2018	8/23/2018	2Q FY2027	TBD	TBD	N/A	TBD
<b>FY 2027</b>	5/26/2016	1/12/2018	8/23/2018	2Q FY2027	4Q FY2026	TBD	N/A	TBD

**CD-0** – Approve Mission Need

**Conceptual Design Complete** – Actual date the conceptual design was completed

**CD-1** – Approve Alternative Selection and Cost Range

**CD-2** – Approve Performance Baseline

**Final Design Complete** – Estimated date the project design will be complete

**CD-3A** – Long-Lead Procurements/Early Site Preparation

**CD-3** – Approve Start of Construction

**D&D Complete** – Completion of D&D work

**CD-4** – Approve Start of Operations or Project Completion

**Project Cost History**

**Overall Project Cost History (Phase 1)**

**(Dollars in Thousands)**

Request	TEC, Design	TEC, Construction	TEC, Total	OPC, Except D&D	OPC, D&D	OPC, Total	TPC
<b>FY 2018</b>	21,396	TBD	TBD	TBD	TBD	TBD	TBD
<b>FY 2019</b>	21,396	TBD	TBD	TBD	TBD	TBD	TBD
<b>FY 2020</b>	26,396	TBD	TBD	TBD	TBD	TBD	TBD
<b>FY 2021</b>	26,396	TBD	TBD	TBD	TBD	TBD	TBD
<b>FY 2022</b>	47,888	TBD	TBD	TBD	TBD	TBD	TBD
<b>FY 2023</b>	TBD	TBD	TBD	TBD	N/A	TBD	TBD
<b>FY 2024</b>	TBD	TBD	TBD	TBD	N/A	TBD	TBD
<b>FY 2025</b>	TBD	TBD	TBD	TBD	TBD	TBD	TBD

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<b>FY 2026</b>	TBD	TBD	TBD	TBD	TBD	TBD	TBD
<b>FY 2027</b>	TBD	TBD	TBD	TBD	TBD	TBD	TBD

**Early Site Preparation Subproject 1(Phase 1)**

Request	TEC, Design	TEC, Construction	TEC, Total	OPC, Except D&D	OPC, D&D	OPC, Total	TPC
<b>FY 2025</b>	0	41,000	41,000	0	N/A	0	41,000
<b>FY 2026</b>	0	30,000*	30,000	0	N/A	0	30,000

\*Updated data based on initial project closeout estimate. The approved CD-2/3 TPC was \$41,000K. The FY 2026 TPC was adjusted to reflect savings.

**Groundwater Field Demonstration Subproject 2 (Phase 1)**

Request	TEC, Design	TEC, Construction	TEC, Total	OPC, Except D&D	OPC, D&D	OPC, Total	TPC
<b>FY 2025</b>	0	87,000	87,000	0	N/A	0	87,000
<b>FY 2026</b>	0	55,000*	55,000	0	N/A	0	55,000

\*Updated data based on the final cost for CD-4 approval in June 12, 2025. The approved CD-2/3 TPC was \$80,000K. The FY 2026 TPC was adjusted to reflect savings.

**Support Facilities & Infrastructure Subproject 3-1 (Phase 1)**

Request	TEC, Design	TEC, Construction	TEC, Total	OPC, Except D&D	OPC, D&D	OPC, Total	TPC
<b>FY 2027</b>	TBD	TBD	TBD	TBD	TBD	TBD	TBD

**Landfill Water Treatment System Subproject 3-2 (Phase 1)**

Request	TEC, Design	TEC, Construction	TEC, Total	OPC, Except D&D	OPC, D&D	OPC, Total	TPC
<b>FY 2027</b>	TBD	TBD	TBD	TBD	TBD	TBD	TBD

**Balance of Construction Subproject 3 (Phase 1)**

Request	TEC, Design	TEC, Construction	TEC, Total	OPC, Except D&D	OPC, D&D	OPC, Total	TPC
<b>FY 2025</b>	TBD	TBD	TBD	TBD	TBD	TBD	TBD
<b>FY 2026</b>	TBD	TBD	TBD	TBD	TBD	TBD	TBD
<b>FY 2027</b>	TBD	TBD	TBD	TBD	TBD	TBD	TBD

## 2. Project Scope and Justification

### Scope

The purpose of this line item is to provide safe, cost effective, long-term disposal of low-level radioactive waste and mixed low-level radioactive waste generated by activities associated with Comprehensive Environmental Response, Compensation, and Liability Act cleanup projects at the Oak Ridge site. The scope includes planning, design and construction of an engineered Comprehensive Environmental Response, Compensation, and Liability Act waste disposal facility including all necessary site development, infrastructure improvements, and support facilities, but does not include operations nor the final closure of the facility. The On-Site Waste Disposal Facility is expected to provide a disposal capacity of approximately 2,200,000 cubic yards with a 47-acre footprint. Components of the landfill include: bottom liner system, leachate collection/drainage/transfer systems, underdrain system, french drains and buttressing, and interim caps.

The On-Site Waste Disposal Facility is to be constructed in the three following phases.

Phase 1: This phase will consist of the full and final design of the entire disposal facility footprint that will consist of multiple disposal cells. The final cap will be conceptually designed but is not part of this project. The construction in Phase I will include two cells (approximately one-third capacity) along with all support facilities construction (e.g., water treatment system) and site preparation of entire footprint to support transition to operations.

Phase 1 consists of the following subprojects:

- **Early Site Preparations (ESP) Subproject one:** Subproject one includes work to reroute roads around the footprint of the Onsite Waste Disposal Facility (OSWDF) Project, initial access for the development of the Site 7b Borrow Area, develop spoils area, and installation of the construction support area.
- **Groundwater Field Demonstration (GWFD) Subproject two:** Subproject two includes site preparation such as clearing and grubbing, stormwater controls, partial excavation at the site, temporary geosynthetic liner installation to cut off recharge to the area of interest to validate groundwater levels under post construction conditions as required by the Record of Decision (ROD), development of Site 7b Borrow Area, and utilities distribution to the site. Subproject two to be performed to verify that there will be 15 feet of separation between the bottom of the landfill waste and the seasonal high-groundwater table.
- **Support Facilities & Infrastructure (SF&I) Subproject three - one:** Subproject three-one includes work to construct worker office buildings, site lighting and roads in the support facilities and Landfill Wastewater Treatment System areas, security features, sanitary/sewage, and connection to water, power, communication. Included in subproject 3-1 is a CD-3A for natural resource mitigation to fell bat trees before roosting season.
- **Landfill Water Treatment System (LWTS) Subproject three - two:** Subproject three-two includes work to construct wastewater treatment facility which includes building, tanks, piping, process equipment. A CD-3A is anticipated for late FY 2026 for long lead equipment list items.

- **Balance of Construction Subproject three:** Groundwater level data collected after construction of GWFD will be used to design the bottom of elevation of the landfill to maintain 15 feet separation between the bottom of landfilled waste and seasonal average high-groundwater elevation. Subproject three is the balance of the project, consisting of full and final design of the entire facility, conceptual final cap design, and construction of the first phase of the disposal facility (cells 1 and 2, approximately one-third of the capacity). A CD-3A is anticipated for late FY 2026 for long lead equipment list items.

Phase 2: This phase will consist of construction of one cell (approximately one-third capacity) after a full review of the final design and any necessary updates.

Phase 3: This phase will consist of construction of remaining cell (s) (final one-third capacity) after a full review of the final design and any necessary updates. The number of cells may change during preliminary design but the disposal capacity of up to 2.2 million cubic yards will remain the same.

The Comprehensive Environmental Response, Compensation, and Liability Act and DOE O 413.3B Critical Decision process to support design and construction of the facility is ongoing.

**Justification**

The projected waste volumes from the remaining Comprehensive Environmental Response, Compensation, and Liability Act cleanup of Y-12 and Oak Ridge National Laboratory (ORNL) will exceed the 2.21 million cubic yard capacity of the existing on-site disposal facility, the Environmental Management Waste Management Facility, which is projected to be full in late 2020’s. The scope of this line item is to construct a new on-site disposal facility, the On-Site Waste Disposal Facility, to provide the required additional waste disposal capacity.

The project is being conducted in accordance with the project management requirements in DOE O 413.3B, *Program and Project Management for the Acquisition of Capital Assets*.

**Preliminary Key Performance Parameters**

The Threshold Preliminary Key Performance Parameters represent the acceptable performance that the overall project must achieve. Achievement of the Threshold Preliminary Key Performance Parameters will be a prerequisite for approval of final subproject 3 CD-4, Project Completion.

Performance Measure	Threshold
Design an on-site disposal facility with an air space capacity of up to 2.2 million cubic yards and required infrastructure for the disposal of Oak Ridge Office of Environmental Management (OREM)-generated CERCLA waste in support of cleanup activities conducted under the Federal Facility Agreement (FFA).	Draft at CD-1

Performance Measure	Threshold
Construct and deliver to operations the initial set of disposal cells to provide a minimum of one-third (approximately 700,000 cubic yards) of the total capacity, and all supporting infrastructure as needed for waste disposal.	Draft at CD-1
Provide the necessary systems and infrastructure for the collection, storage, and treatment of landfill wastewater to ensure compliance with applicable or relevant and appropriate requirements (ARARs).	Draft at CD-1

### 3. Project Cost and Schedule

#### Phase 1 Financial Schedule

#### Early Site Preparation Subproject 1 (ESP)

	(Dollars in Thousands)		
	Appropriations	Obligations	Costs
Total Estimated Cost (TEC) Design <sup>a</sup>			
FY 2023 Phase 1	N/A	N/A	N/A
FY 2024 Phase 1	N/A	N/A	N/A
FY 2025 Phase 1	N/A	N/A	N/A
<b>Total, Design</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
TEC Construction <sup>b</sup>			
FY 2023 Phase 1	28,746	6,598	6,598
FY 2024 Phase 1	1,254	23,402	23,402
FY 2025 Phase 1	0	0	0
<b>Total, Construction</b>	<b>30,000</b>	<b>30,000</b>	<b>30,000</b>
TEC <sup>b</sup>			
FY 2023 Phase 1	28,746	6,598	6,598
FY 2024 Phase 1	1,254	23,402	23,402
FY 2025 Phase 1	0	0	0
<b>Total TEC</b>	<b>30,000</b>	<b>30,000</b>	<b>30,000</b>

	(Dollars in Thousands)		
	Appropriations	Obligations	Costs
OPC except D&D <sup>a</sup>	N/A	N/A	N/A
FY 2023	N/A	N/A	N/A
Phase 1			N/A
FY 2024	N/A	N/A	N/A
Phase 1			N/A
FY 2025	N/A	N/A	N/A
Phase 1			N/A
<b>Total, OPC except D&amp;D</b>	N/A	N/A	N/A
OPC <sup>a</sup>			
FY 2023	N/A	N/A	N/A
Phase 1			N/A
FY 2024	N/A	N/A	N/A
Phase 1			N/A
FY 2025	N/A	N/A	N/A
Phase 1			N/A
<b>Total, OPC</b>	N/A	N/A	N/A
Total ESP Sub- Project Cost (TPC) <sup>b</sup>			
FY 2023			
Phase 1	28,746	6,598	6,598
FY 2024			
Phase 1	1,254	23,402	23,402
FY 2025			
Phase 1	0	0	0
	<b>30,000</b>	<b>30,000</b>	<b>30,000</b>

**Groundwater Field Demonstration Subproject 2**

	(Dollars in Thousands)		
	Appropriations	Obligations	Costs
Total Estimated Cost (TEC) Design			
FY 2021			
Phase 1	14,787	0	0
FY 2022			
Phase 1	11,713	0	0
FY 2023			
Phase 1	0	26,500	0

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	(Dollars in Thousands)		
	Appropriations	Obligations	Costs
FY 2024 Phase 1	27,246	17,700	31,684
FY 2025 Phase 1	1,254	10,800	12,163
FY 2026 Phase 1	0		11,153
<b>Total, Design</b>	<b>55,000</b>	<b>55,000</b>	<b>55,000</b>
<b>Construction<sup>b</sup></b>			
FY 2021 Phase 1	N/A	N/A	N/A
FY 2022 Phase 1	N/A	N/A	N/A
FY 2023 Phase 1	N/A	N/A	N/A
FY 2024 Phase 1	N/A	N/A	N/A
FY 2025 Phase 1	N/A	N/A	N/A
FY 2026 Phase 1	N/A	N/A	N/A
<b>Total, Construction</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
<b>TEC<sup>b</sup></b>			
FY 2021 Phase 1	14,787	0	0
FY 2022 Phase 1	11,713	0	0
FY 2023 Phase 1	0	26,500	0
FY 2024 Phase 1	27,246	17,700	31,684
FY 2025 Phase 1	1,254	10,800	12,163
FY 2026 Phase 1	0		11,153
<b>Total TEC</b>	<b>55,000</b>	<b>55,000</b>	<b>55,000</b>
<b>OPC except D&amp;D<sup>a</sup></b>			
FY 2021 Phase 1	N/A	N/A	N/A
FY 2022 Phase 1	N/A	N/A	N/A

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	(Dollars in Thousands)		
	Appropriations	Obligations	Costs
FY 2023 Phase 1	N/A	N/A	N/A
FY 2024 Phase 1	N/A	N/A	N/A
FY 2025 Phase 1	N/A	N/A	N/A
FY 2026 Phase 1	N/A	N/A	N/A
<b>Total, OPC except D&amp;D</b>	N/A	N/A	N/A
<b>OPC<sup>a</sup></b>			
FY 2021 Phase 1	N/A	N/A	N/A
FY 2022 Phase 1	N/A	N/A	N/A
FY 2023 Phase 1	N/A	N/A	N/A
FY 2024 Phase 1	N/A	N/A	N/A
FY 2025 Phase 1	N/A	N/A	N/A
FY 2026 Phase 1	N/A	N/A	N/A
<b>Total, OPC</b>	N/A	N/A	N/A
<b>Total GWFD Subproject Cost (TPC)<sup>b</sup></b>			
FY 2021 Phase 1	14,787	0	0
FY 2022 Phase 1	11,713	0	0
FY 2023 Phase 1	0	26,500	0
FY 2024 Phase 1	27,246	17,700	31,684
FY 2025 Phase 1	1,254	10,800	12,163
FY 2026 Phase 1	0		11,153
	55,000	55,000	55,000

**SF&I Subproject 3-1**

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	(Dollars in Thousands)		
	Appropriations	Obligations	Costs
Total Estimated Cost (TEC) Design			
FY 2027 Phase 1	0	0	0
FY 2028 Phase 1	0	0	0
<b>Total, Design</b>	<b>0</b>	<b>0</b>	<b>0</b>
Construction <sup>b</sup>			
FY 2026 Phase 1	27,024	26,724	4,000
FY 2027 Phase 1	11,868	12,168	34,892
Outyears Phase 1	TBD	TBD	TBD
<b>Total, Construction</b>	<b>TBD</b>	<b>TBD</b>	<b>TBD</b>
TEC <sup>b</sup>			
FY 2026 Phase 1	27,024	26,724	4,000
FY 2027 Phase 1	11,868	12,168	34,892
Outyears Phase 1	TBD	TBD	TBD
<b>Total TEC</b>	<b>TBD</b>	<b>TBD</b>	<b>TBD</b>
OPC except D&D <sup>a</sup>			
FY 2026 Phase 1	N/A	N/A	N/A
FY 2027 Phase 1	N/A	N/A	N/A
Outyears Phase 1	N/A	N/A	N/A
<b>Total, OPC except D&amp;D</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
OPC <sup>a</sup>			
FY 2026 Phase 1	N/A	N/A	N/A
FY 2027 Phase 1	N/A	N/A	N/A
Outyears Phase 1	N/A	N/A	N/A
<b>Total, OPC</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

	(Dollars in Thousands)		
	Appropriations	Obligations	Costs
Total SF&I Subproject Cost (TPC) <sup>b</sup>			
FY 2026 Phase 1	27,024	26,724	4,000
FY 2027 Phase 1	11,868	12,168	34,892
Outyears Phase 1	5,773	5,773	5,773
Total TPC	TBD	TBD	TBD

### LWTS Subproject 3-2

	(Dollars in Thousands)		
	Appropriations	Obligations	Costs
Total Estimated Cost (TEC) Design			
FY 2026 Phase 1			
FY 2027 Phase 1	0	0	0
Outyears Phase 1			
Total, Design	0	0	0
Construction <sup>b</sup>			
FY 2026 Phase 1	14,000		
FY 2027 Phase 1	35,506	32,206	32,206
Outyears Phase 1	TBD	TBD	TBD
Total, Construction	TBD	TBD	TBD
TEC <sup>b</sup>			
FY 2026 Phase 1	14,000		
FY 2027 Phase 1	35,506	32,206	32,206
Outyears Phase 1	TBD	TBD	TBD
Total TEC	TBD	TBD	TBD
OPC except D&D <sup>a</sup>			
FY 2026 Phase 1			
FY 2027 Phase 1	N/A	N/A	N/A
Outyears Phase 1	N/A	N/A	N/A
Total, OPC except D&D	N/A	N/A	N/A
OPC <sup>a</sup>			
FY 2026 Phase 1			
FY 2027 Phase 1	N/A	N/A	N/A
Outyears Phase 1	N/A	N/A	N/A
Total, OPC	N/A	N/A	N/A

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(Dollars in Thousands)

Appropriations	Obligations	Costs
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Total LWFS Subproject Cost (TPC)<sup>b</sup>

FY 2026	Phase 1	14,000		
FY 2027	Phase 1	35,506	32,206	32,206
Outyears	Phase 1	TBD	TBD	TBD
Total, TPC		TBD	TBD	TBD

Balance of Construction (BOC) Subproject 3

(Dollars in Thousands)

Appropriations	Obligations	Costs
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Total Estimated Cost (TEC)Design<sup>a</sup>

FY 2017	Phase 1	6,000	0	0
FY 2018	Phase 1	10,000	16,000	812
FY 2019	Phase 1	9,979	302	10,153
FY 2020	Phase 1	0	9,539	4,225
FY 2021	Phase 1	7,527	5,364	2,266
FY 2022	Phase 1	0	843	2,587
FY 2023	Phase 1	6,254	12,254	1,800
FY 2024	Phase 1	6,300	0	3,482
FY 2025	Phase 1	8,546	5,000	9,112
FY 2026	Phase 1	11,661	2,505	9,258
FY 2027	Phase 1	1,254	2,129	9,879
Outyears	Phase 1	0	0	0
Total, Design		TBD	TBD	TBD

Construction<sup>b</sup>

FY 2017	Phase 1	0	0	0
FY 2018	Phase 1	0	0	0
FY 2019	Phase 1	0	0	0
FY 2020	Phase 1	0	0	0
FY 2021	Phase 1	0	0	0
FY 2022	Phase 1	0	0	0
FY 2023	Phase 1	0	0	0
FY 2024	Phase 1	0	0	0
FY 2025	Phase 1	0	0	0
FY 2026	Phase 1	2,000	2,000	2,000
FY 2027	Phase 1	9,000	9,000	9,000
Outyears	Phase 1	TBD	TBD	TBD
Total, Construction		TBD	TBD	TBD

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		Appropriations	Obligations	Costs
<b>TEC<sup>b</sup></b>				
FY 2017	Phase 1	6,000	0	0
FY 2018	Phase 1	10,000	16,000	812
FY 2019	Phase 1	9,979	302	10,153
FY 2020	Phase 1	0	9,539	4,225
FY 2021	Phase 1	7,527	5,364	2,266
FY 2022	Phase 1	0	843	2,587
FY 2023	Phase 1	6,254	12,254	1,800
FY 2024	Phase 1	6,300	0	3,482
FY 2025	Phase 1	8,546	5,000	9,112
FY 2026	Phase 1	13,661	4,505	11,258
FY 2027	Phase 1	10,254	11,129	18,879
Outyears	Phase 1	TBD	TBD	TBD
<b>Total TEC</b>		<b>TBD</b>	<b>TBD</b>	<b>TBD</b>
<b>OPC except D&amp;D<sup>a</sup></b>				
FY 2011	Phase 1	1,063	1,063	343
FY 2012	Phase 1	214	214	737
FY 2013	Phase 1	627	627	591
FY 2014	Phase 1	2,332	2,332	2,140
FY 2015	Phase 1	3,978	3,978	3,320
FY 2016	Phase 1	7,050	7,050	4,266
FY 2017	Phase 1	1,973	1,973	4,439
FY 2018	Phase 1	5,297	5,297	6,462
FY 2019	Phase 1	21	21	156
FY 2020	Phase 1	0	0	28
FY 2021	Phase 1	66	0	0
FY 2022	Phase 1	787	427	427
FY 2023	Phase 1	0	0	0
FY 2024	Phase 1	200	200	200
FY 2025	Phase 1	200	200	200
FY 2026	Phase 1	200	560	560
FY 2027	Phase 1	200	200	200
Outyears	Phase 1	TBD	TBD	TBD
<b>Total, OPC except D&amp;D</b>		<b>TBD</b>	<b>TBD</b>	<b>TBD</b>
<b>OPC<sup>a</sup></b>				
FY 2011	Phase 1	1,063	1,063	343
FY 2012	Phase 1	214	214	737
FY 2013	Phase 1	627	627	591
FY 2014	Phase 1	2,332	2,332	2,140
FY 2015	Phase 1	3,978	3,978	3,320
FY 2016	Phase 1	7,050	7,050	4,266
FY 2017	Phase 1	1,973	1,973	4,439

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		(Dollars in Thousands)		
		Appropriations	Obligations	Costs
FY 2018	Phase 1	5,297	5,297	6,462
FY 2019	Phase 1	21	21	156
FY 2020	Phase 1	0	0	28
FY 2021	Phase 1	66	0	0
FY 2022	Phase 1	787	427	427
FY 2023	Phase 1	0	0	0
FY 2024	Phase 1	200	200	200
FY 2025	Phase 1	200	200	200
FY 2026	Phase 1	200	560	560
FY 2027	Phase 1	200	200	200
Outyears	Phase 1	TBD	TBD	TBD
Total, OPC		TBD	TBD	TBD

Total BOC Subproject  
(TPC)<sup>b</sup>

FY 2011	Phase 1	1,063	1,063	343
FY 2012	Phase 1	214	214	737
FY 2013	Phase 1	627	627	591
FY 2014	Phase 1	2,332	2,332	2,140
FY 2015	Phase 1	3,978	3,978	3,320
FY 2016	Phase 1	7,050	7,050	4,266
FY 2017	Phase 1	7,973	1,973	4,439
FY 2018	Phase 1	15,297	21,297	7,274
FY 2019	Phase 1	10,000	323	10,309
FY 2020	Phase 1	0	9,539	4,253
FY 2021	Phase 1	7,593	5,364	2,266
FY 2022	Phase 1	787	1,270	3,014
FY 2023	Phase 1	6,254	12,254	1,800
FY 2024	Phase 1	6,500	200	3,682
FY 2025	Phase 1	8,746	5,200	9,312
FY 2026	Phase 1	13,861	5,065	11,818
FY 2027	Phase 1	10,454	11,329	19,079
Outyears	Phase 1	TBD	TBD	TBD
Total		TBD	TBD	TBD

**Overall Project (17-D-401)**

(Dollars in Thousands)

		Appropriations	Obligations	Costs
Design <sup>a</sup>				
FY 2017	Phase 1	6,000	0	0
FY 2018	Phase 1	10,000	16,000	812
FY 2019	Phase 1	9,979	302	10,153
FY 2020	Phase 1	0	9,539	4,225

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**FY 2027 Congressional Justification**

FY 2021	Phase 1	22,314	5,364	2,266
FY 2022	Phase 1	11,713	843	2,587
FY 2023	Phase 1	6,254	38,754	1,800
FY 2024	Phase 1	33,546	17,700	35,166
FY 2025	Phase 1	9,800	15,800	21,275
FY 2026	Phase 1	11,661	2,505	20,411
FY 2027	Phase 1	1,254	2,129	9,879
Outyears	Phase 1	TBD	TBD	TBD
Total, Design		TBD	TBD	TBD

Construction<sup>b</sup>

FY 2017	Phase 1	0	0	0
FY 2018	Phase 1	0	0	0
FY 2019	Phase 1	0	0	0
FY 2020	Phase 1	0	0	0
FY 2021	Phase 1	0	0	0
FY 2022	Phase 1	0	0	0
FY 2023	Phase 1	28,746	6,598	6,598
FY 2024	Phase 1	1,254	23,402	23,402
FY 2025	Phase 1	0	0	0
FY 2026	Phase 1	43,024	28,724	6,000
FY 2027	Phase 1	56,374	53,374	76,098
Outyears	Phase 1	TBD	TBD	TBD
Total, Construction		TBD	TBD	TBD

TEC<sup>b</sup>

FY 2017	Phase 1	6,000	0	0
FY 2018	Phase 1	10,000	16,000	812
FY 2019	Phase 1	9,979	302	10,153
FY 2020	Phase 1	0	9,539	4,225
FY 2021	Phase 1	22,314	5,364	2,266
FY 2022	Phase 1	11,713	843	2,587
FY 2023	Phase 1	35,000	45,352	8,398
FY 2024	Phase 1	34,800	41,102	58,568
FY 2025	Phase 1	9,800	15,800	21,275
FY 2026	Phase 1	54,685	31,229	26,411
FY 2027	Phase 1	57,628	55,503	85,977
Outyears	Phase 1	TBD	TBD	TBD
Total TEC		TBD	TBD	TBD

OPC except D&D<sup>a</sup>

FY 2011	Phase 1	1,063	1,063	343
FY 2012	Phase 1	214	214	737
FY 2013	Phase 1	627	627	591
FY 2014	Phase 1	2,332	2,332	2,140
FY 2015	Phase 1	3,978	3,978	3,320

**Environmental Management/  
Oak Ridge/17-D-401 On Site Waste  
Disposal Facility Y-12 National Security  
Complex, Oak Ridge Tennessee**

**FY 2027 Congressional Justification**

FY 2016	Phase 1	7,050	7,050	4,266
FY 2017	Phase 1	1,973	1,973	4,439
FY 2018	Phase 1	5,297	5,297	6,462
FY 2019	Phase 1	21	21	156
FY 2020	Phase 1	0	0	28
FY 2021	Phase 1	66	0	0
FY 2022	Phase 1	787	427	427
FY 2023	Phase 1	0	0	0
FY 2024	Phase 1	200	200	200
FY 2025	Phase 1	200	200	200
FY 2026	Phase 1	200	560	560
FY 2027	Phase 1	200	200	200
Outyears	Phase 1	TBD	TBD	TBD
Total, OPC except D&D		TBD	TBD	TBD

OPC<sup>a</sup>

FY 2011	Phase 1	1,063	1,063	343
FY 2012	Phase 1	214	214	737
FY 2013	Phase 1	627	627	591
FY 2014	Phase 1	2,332	2,332	2,140
FY 2015	Phase 1	3,978	3,978	3,320
FY 2016	Phase 1	7,050	7,050	4,266
FY 2017	Phase 1	1,973	1,973	4,439
FY 2018	Phase 1	5,297	5,297	6,462
FY 2019	Phase 1	21	21	156
FY 2020	Phase 1	0	0	28
FY 2021	Phase 1	66	0	0
FY 2022	Phase 1	787	427	427
FY 2023	Phase 1	0	0	0
FY 2024	Phase 1	200	200	200
FY 2025	Phase 1	200	200	200
FY 2026	Phase 1	200	560	560
FY 2027	Phase 1	200	200	200
Outyears	Phase 1	TBD	TBD	TBD
Total, OPC		TBD	TBD	TBD

Total Project Cost (TPC)<sup>b</sup>

FY 2011	Phase 1	1,063	1,063	343
FY 2012	Phase 1	214	214	737
FY 2013	Phase 1	627	627	591
FY 2014	Phase 1	2,332	2,332	2,140
FY 2015	Phase 1	3,978	3,978	3,320
FY 2016	Phase 1	7,050	7,050	4,266

**Environmental Management/  
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Disposal Facility Y-12 National Security  
Complex, Oak Ridge Tennessee**

**FY 2027 Congressional Justification**

FY 2017	Phase 1	7,973	1,973	4,439
FY 2018	Phase 1	15,297	21,297	7,274
FY 2019	Phase 1	10,000	323	10,309
FY 2020	Phase 1	0	9,539	4,253
FY 2021	Phase 1	22,380	5,364	2,266
FY 2022	Phase 1	12,500	1,270	3,014
FY 2023	Phase 1	35,000	45,352	8,398
FY 2024	Phase 1	35,000	41,302	58,768
FY 2025	Phase 1	10,000	16,000	21,475
FY 2026	Phase 1	54,885	31,789	26,971
FY 2027	Phase 1	57,828	55,703	86,177
Outyears	Phase 1	TBD	TBD	TBD
		TBD	TBD	TBD

<sup>a</sup> Design and OPC cost for ESP, SF&I, and LWTS were accrued under the BOC Sub-Project. GWFD OPC costs were accrued under the BOC Sub-Project.

<sup>b</sup> Note: Congress appropriated line item funds for TPC beginning in FY 2017. Congress also appropriated OPC funds through FY 2018 until CD-1 was approved.

#### 4. Details of Phase 1 Project Cost Estimate

(Dollars in Thousands)			
	Current Total Estimate	Previous Total Estimate	Original Validated Baseline
Total Estimated Cost (TEC)	TBD		
Design		TBD	
Construction			
Phase 1	TBD	TBD	N/A <sup>a</sup>
Total Construction	TBD	TBD	N/A <sup>a</sup>
Total Estimated Cost (TEC)	TBD	TBD	N/A <sup>a</sup>
Other Project Cost (OPC)			
Phase 1	TBD	TBD	N/A <sup>a</sup>
Total, OPC	TBD	TBD	N/A <sup>a</sup>
Total, TPC	TBD	TBD	N/A <sup>a</sup>

<sup>a</sup> This project has not received CD-2 at this time for Subproject 3-1, 3-2 and 3; therefore, a validated performance baseline has not been established.

**Environmental Management/  
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Complex, Oak Ridge Tennessee**

**FY 2027 Congressional Justification**

**5. Schedule of Phase 1 Appropriation Requests**

Request		Prior Years	FY 2025	FY 2026	FY 2027	Out years	Total
FY 2018	TEC	7,000				TBD	TBD
	OPC	21,237				TBD	TBD
	TPC	28,237				TBD	TBD
FY 2019	TEC	20,690				TBD	TBD
	OPC	22,834				TBD	TBD
	TPC	43,534				TBD	TBD
FY 2020	TEC	NA					
	OPC	NA					
	TPC	63,803				TBD	TBD
FY 2021	TEC	NA					
	OPC	NA					
	TPC	70,914				TBD	TBD
FY 2022	TEC	NA					
	OPC	NA					
	TPC	83,414				TBD	TBD
FY 2023	TEC	NA					
	OPC	NA					
	TPC	118,414				TBD	TBD
FY 2024	TEC	NA					
	OPC	NA					
	TPC	142,914				TBD	TBD
FY 2025	TEC	NA					
	OPC	NA					
	TPC	153,414	40,000			TBD	TBD
FY 2026	TEC	NA					
	OPC	NA					
	TPC	153,414	10,000	15,050		TBD	TBD
FY 2027	TEC	NA	9,800				
	OPC	NA	200				
	TPC	153,414	10,000	54,885	57,828	TBD	TBD

**6. Related Operations and Maintenance Funding Requirements**

Start of Operation or Beneficial Occupancy (fiscal quarter or date) TBD  
 Expected Useful Life (number of years) TBD

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**FY 2027 Congressional Justification**

Expected Future Start of D&D of this Capital Asset (fiscal quarter)

TBD

**(Related Funding Requirements)**

(Dollars in Thousands)

	Annual Costs		Life Cycle Costs	
	Current Total Estimate	Previous Total Estimate	Current Total Estimate	Previous Total Estimate
Operations	TBD	TBD	TBD	TBD
Utilities	0	0	0	0
Maintenance	0	0	0	0
Total, Operations & Maintenance	TBD	TBD	TBD	TBD

**7. D&D Information**

The new area being constructed in this project is not replacing existing facilities. D&D is not applicable for this project.

Area	Square Feet
New area being constructed by this project at Y-12 National Security Complex	(footprint)*
Area of D&D in this project at Y-12 National Security Complex	0
Area at Y-12 National Security Complex to be transferred, sold, and/or D&D outside the project including area previously “banked”	0
Area of D&D in this project at other sites	0
Area at other sites to be transferred, sold, and/or D&D outside the project including area previously “banked”	0
Total area eliminated	0

\* The one-for-one replacement requirement is met by using previously “banked” square footage from demolished facilities at the East Tennessee Technology Park, Oak Ridge, Tennessee.

Note: The On-Site Waste Disposal Facility will be constructed outside the footprint of the Y-12 National Security Complex.

**8. Acquisition Approach**

Awarded contract to URS/CH2M Oak Ridge, LLC (UCOR) on April 29, 2011. This contract includes the cleanup of East Tennessee Technology Park (ETTP) and other EM operations and activities, including the design of the On-Site Waste Disposal Facility and support for DOE Order 413.3B Critical Decision approval. The contract is a cost-plus award fee with performance-based incentives. Awarded a

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new contract to United Cleanup Oak Ridge, LLC (UCOR) on October 26, 2021, to continue this scope of work. This contract is an Indefinite-Delivery/Indefinite-Quantity (IDIQ) contract with 17 End State Task Orders. The scope under Task Orders for Line Item Projects is treated as cost plus incentive fee.

Completion of Phase 1 and 2 is included in the follow-on End State Contracting Model Oak Ridge Cleanup Contract acquisition, which is included under Task Order 8. An Acquisition Strategy (AS) will be developed to support Phase 3 Critical Decision-1/2/3. This AS will address the contracting approach for Phase 3 construction and transition to operations.

## Paducah

### Overview

Occupying 3,556 acres near Paducah, Kentucky, the Paducah Gaseous Diffusion Plant (GDP) enriched uranium and was the last government-owned uranium enrichment facility operating in the United States. The Paducah Gaseous Diffusion Plant produced low-enriched uranium originally as feedstock for nuclear weapons and later for commercial nuclear power plants until the extensive environmental cleanup program began. The Paducah Site cleanup will position the Department of Energy to meet the nation's Manhattan Project and Cold War legacy responsibilities. The overall cleanup strategy at Paducah includes near-term actions to control or eliminate ongoing sources of contamination, along with the continued investigation of other potential sources.

Based on current estimates, the Office of Environmental Management (EM) is responsible for addressing \$28 billion in identified clean-up liability at the Paducah site – roughly 7% of the \$418 billion total liability across all EM sites. Successful implementation of current plans and milestones would result in completion of the identified clean-up mission at the Paducah site in the FY 2060 to FY 2070 timeframe. Project performance is monitored monthly to determine earned value and completion of scope. On an annual basis, estimates for the remaining balance of work are evaluated and updated with current year rates to establish the remaining long-term liability.

To complete cleanup, Paducah will maintain a safe, secure, and compliant posture; support high priority groundwater remediation; deactivate and decommission excess facilities; and disposition mixed and low-level radioactive waste.

EM will continue to focus on decommissioning of legacy nuclear sites and environmental remediation, while playing a vital role working for the American people through redevelopment of land and reuse of materials. Revitalization can transform legacy sites with unique attributes such as existing infrastructure and skilled workers into hubs of economic strength anchored by nuclear energy, digital infrastructure, and advanced manufacturing.

Paducah will continue to operate the Depleted Uranium Hexafluoride Conversion Facility.

Direct maintenance and repair at Paducah estimated to be \$31,858,000 in FY 2027.

The Paducah Operations Office plans to purchase 2 heavy-duty trucks (line truck and bucket) in FY 2027.

### Highlights of the FY 2027 Budget Request

The FY 2027 Budget Request supports activities to integrate Paducah cleanup by applying a holistic approach consistent with what was implemented at the Portsmouth Site. This will facilitate early property transfer to the community for site reindustrialization. This budget request also supports the safe operation of the Depleted Uranium Hexafluoride Conversion Facility and the completion of plant throughput improvement projects.

### FY 2026 - 2027 Key Milestones/Outlook

- (September 2026) Continue Comprehensive Cleanup Strategy to Include Consideration for On-Site Waste Disposal Alternative, if selected.
- (September 2026) Continue limited C-337 Process Building Deactivation, Characterization and Uranium Deposit Removal.

- (September 2026) Continue Northwest Plume Pump and Treat Project Optimization Upgrades.
- (September 2026) Continue Property Transfer/Lease Activities in Support of Community Reuse/Site Repurposing Efforts
- (September 2027) Complete Regulatory Approvals for D&D and an On-Site Waste Disposal Alternative, if Selected, to Provide Cell Capacity for the Future Demolition of Gaseous Diffusion Plant Facilities.
- (September 2027) Complete (100%) Design and Initiate Site Preparation for an On-Site Waste Disposal Facility, if selected.
- (September 2027) Complete (100 %) Design of the Central Wastewater Treatment System to Support Future On-Site Waste Disposal Facility Operations, Soil Excavation De-Watering, and D&D of Gaseous Diffusion Plant Facilities.
- (September 2027) Continue limited C-337 Process Building Deactivation, Characterization and Uranium Deposit Removal.
- (September 2027) Continue Northwest Plume Pump and Treat Project Optimization Upgrades.
- (September 2027) Continue Property Transfer/Lease Activities in Support of Community Reuse/Site Repurposing Efforts.
- (September 2027) Complete Plant Safety and Process Improvement Modifications that will Yield an Additional 500 Metric Tons of DUF6 Processed Annually.

## **Regulatory Framework**

In May 1994, the Paducah Site was placed on the United States Environmental Protection Agency's National Priorities List under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980. The 1998 Federal Facility Agreement among the Department, the Commonwealth of Kentucky and the United States Environmental Protection Agency (Region 4) established the framework for cleanup at Paducah, instituted enforceable milestones, and coordinated site-specific cleanup requirements under the Comprehensive Environmental Response, Compensation, and Liability Act and the Resource Conservation and Recovery Act. Section XVIII of the Federal Facility Agreement requires that DOE submit an annual Site Management Plan (SMP), which outlines DOE's strategic approach for achieving cleanup with regulatory engagement and support. The FY 2025 Site Management Plan continues to integrate the DOE-proposed strategy to accelerate Paducah cleanup by applying a holistic approach consistent with what was implemented at the Portsmouth Site.

DOE and the Commonwealth of Kentucky have a separate Agreed Order addressing management of depleted uranium hexafluoride cylinders.

The United States Environmental Protection Agency and the Kentucky Department for Environmental Protection are the principal regulatory agencies for Paducah's waste management operations regarding compliance with provisions of the Resource Conservation and Recovery Act; Hazardous Waste Management Permits; the Toxic Substances Control Act regulations for polychlorinated biphenyl wastes; the Commonwealth of Kentucky surface water discharge regulations and the Commonwealth of Kentucky solid and hazardous waste regulations.

## **Contractual Framework**

Current contracts at Paducah include:

- Four Rivers Nuclear Partnership was awarded a cost-plus-award-fee contract with cost reimbursable and Indefinite Delivery/Indefinite Quantity contract for deactivation and remediation services, covering the

base period June 20, 2017 – June 19, 2022. A 36-month option period was awarded extending the contract to June 20, 2025, followed by a 24-month second option period that was awarded through June 19, 2027. A one-year extension is in process which extends the contract period to June 19, 2028.

- Mission Conversion Services Alliance, LLC is a cost-plus-award fee and Indefinite Delivery/Indefinite Quantity contract for operations and site mission support at the Paducah and Portsmouth facilities covering October 1, 2025 – September 30, 2030 with two options that could extend through September 30, 2035. Services performed include Depleted Uranium Hexafluoride conversion, uranium hexafluoride cylinder transfers, and site mission support.
- North Wind Dynamics, LLC, is a performance-based hybrid contract that includes Cost-Plus-Award-Fee (CPAF), Cost Reimbursement, Firm-Fixed-Price (FFP) and Indefinite-Delivery Indefinite-Quantity (IDIQ) type Contract Line Item Numbers (CLINs) with a 60-day transition period beginning August 2, 2025, to September 30, 2025, a 36 month base period (August 2, 2025 through July 31, 2028), and a 24 month option period (August 1, 2028 - July 31, 2030).

## Strategic Management

DOE has been working with the Kentucky Department for Environmental Protection and the United States Environmental Protection Agency (Region 4) to further define which projects can be sequenced, while optimizing resources and utilizing a risk-based approach, to ensure timely environmental cleanup.

In 2023, DOE proposed to integrate and accelerate Paducah cleanup decisions for environmental media, decontamination and decommissioning (D&D), and waste disposition. With this proposal, DOE intends to maintain momentum by taking additional actions to address the high-concentration centroid of the dissolved-phase plume emanating from the C-400 Complex documented in a technical memorandum. Three decision documents are proposed for submittal in 2029 (or earlier). These decision documents will propose and combine cleanup actions for (1) multiple environmental media areas (e.g., soils, surface water, groundwater, slabs, lagoons, burial grounds) into a single final decision, establishing final cleanup levels for the entire Paducah Site based on anticipated future use; (2) propose and combine multiple D&D buildings into a single final decision; and (3) make a final waste disposal alternative decision. A final comprehensive site Operable Unit would consider appropriate actions for off-site ditches and any remaining contamination after actions determined by the three decision documents are complete. The FY 2025 Site Management Plan continues to pave the pathway for this holistic approach by establishing milestones to position the site to accelerate clean up at the Paducah Site. The FY 2025 Site Management Plan was approved in December 2024, by both the Kentucky Department for Environmental Protection and the United States Environmental Protection Agency (Region 4). The complete integration of the new strategy and associated enforceable milestones is currently scheduled to be included in the FY 2026 Site Management Plan.

The factors that could have an impact on the overall cleanup scope, schedule, and costs are:

- DOE does not have a regulatory agreement on final cleanup levels, which remains a long-term, end-state issue.
- Future decontamination and decommissioning and remediation costs are subject to several uncertainties, including extent of contamination; disposal options; and stakeholder/regulator acceptance.

In addition, Paducah is operating a Depleted Uranium Hexafluoride Conversion Facility. Also, DOE must pay a designated portion of costs for employee severance, pension, and demolition of the Joppa Power Plant that was originally built to support the gaseous diffusion plant operations. The plant has been shut down and funding

will be needed to pay the liability. EM contactors are not performing the actual demolition work but reimbursing the owners of the Joppa facility. In FY26 funding was provided for construction of an Administrative Support Building to replace the 70-year old C-100 Program Support Facility at the Paducah Site based on a congressional report evaluating the operations for replacement.

**Paducah Project Office**

**Funding (\$K)**

	FY 2025 Enacted	FY 2026 Enacted	FY 2027 Request	FY 2027 Request vs FY 2026 Enacted	
				\$	%
<b>Defense Environmental Cleanup</b>					
<b>Safeguards and Security</b>					
PA-0020 / Safeguards and Security	16,910	16,434	18,428	+1,994	+12%
<b>Non-Defense Environmental Cleanup</b>					
<b>Gaseous Diffusion Plants</b>					
PA-0011X / NM Stabilization and Disposition-Depleted Uranium Hexafluoride Conversion	76,317	70,416	80,804	+10,388	+15%
<b>Uranium Enrichment</b>					
<b>Decontamination and Decommissioning Fund</b>					
<b>Paducah</b>					
PA-0040 / Nuclear Facility D&D	247,552	240,209	270,707	+30,498	+13%
PA-0045 / Joppa Power Plant	0	0	50	+50	0%
<b>Subtotal, Operating</b>	<b>247,552</b>	<b>240,209</b>	<b>270,757</b>	<b>+30,548</b>	<b>+13%</b>
<b>Construction</b>					
26-U-401: Administrative Support Building	0	41,000	0	-41,000	-100%
<b>Subtotal, Nuclear Facility D&amp;D, Paducah</b>	<b>247,552</b>	<b>281,209</b>	<b>270,757</b>	<b>-10,452</b>	<b>-4%</b>
<b>Pension and Community and Regulatory Support</b>					
PA-0102 / Paducah Contract/Post- Closure Liabilities/Administration	0	30	20	-10	-33%
PA-0103 / Paducah Community and Regulatory Support	2,838	2,865	3,589	+724	+25%

**Environmental Management/  
Paducah**

**FY 2027 Congressional Justification**

<b>Subtotal, Pension and Community and Regulatory Support</b>	<b>2,838</b>	<b>2,895</b>	<b>3,609</b>	<b>+714</b>	<b>+25%</b>
<b>Total, Uranium Enrichment Decontamination and Decommissioning Fund</b>	<b>250,390</b>	<b>284,104</b>	<b>274,366</b>	<b>-9,738</b>	<b>-3%</b>
<b>Total, Paducah</b>	<b>343,617</b>	<b>370,954</b>	<b>373,598</b>	<b>+2,644</b>	<b>+1%</b>

**Paducah Project Office  
Explanation of Major Changes (\$K)**

	<b>FY 2026 Enacted</b>	<b>FY 2027 Request</b>	<b>FY 2027 Request vs FY 2026 Enacted</b>
<b>Defense Environmental Cleanup</b>			
<b>Safeguards and Security</b>			
<b>PA-0020 / Safeguards and Security</b>			
• Increase in costs and requirements of Physical, Information, and Cyber Security.	16,434	18,428	+1,994
<b>Non-Defense Environmental Cleanup</b>			
<b>Gaseous Diffusion Plants</b>			
<b>Paducah Gaseous Diffusion Plants</b>			
<b>PA-0011X / NM Stabilization and Disposition-Depleted Uranium Hexafluoride Conversion</b>			
• Increase supports plant safety and process improvement modifications.	70,416	80,804	+10,388
<b>Uranium Enrichment Decontamination and Decommissioning Fund</b>			
<b>Paducah</b>			
<b>PA-0040 / Nuclear Facility D&amp;D</b>			
• Decrease is driven by reduced Central Wastewater Treatment System activities and lower support for On-Site Waste Disposal Facility operations, soil excavation/dewatering, and D&D of gaseous diffusion plant facilities.	281,209	270,707	-10,502
<b>PA-0045 / Joppa Power Plant</b>			
• Increase supports deactivation and decommissioning of the Joppa Power Plant.	0	50	+50
<b>Pension and Community and Regulatory Support</b>			
<b>PA-0102 / Paducah Contract/Post-Closure Liabilities/Administration</b>			
• No significant change.	30	20	-10
<b>PA-0103 / Paducah Community and Regulatory Support</b>			
• Increase supports Federal Facility Agreement and Agreement-in-Principle grants to support Comprehensive Environmental Response, Compensation, and Liability Act document and design package reviews to ensure regulatory compliance schedules are met.	2,865	3,589	+724

## Safeguards and Security (PBS: PA-0020)

### Overview

This Project Baseline Summary (PBS) can be found within the Defense Environmental Cleanup appropriation.

The safeguards and security program at the Paducah Gaseous Diffusion Plant provides security services to protect nuclear materials, classified uranium enrichment technology, equipment, personnel, and facilities. This program includes maintaining a security protective force to ensure safeguard of nuclear materials, classified technology/information, and personnel. The safeguards and security program also supports the Paducah remediation and cleanup programs. Within the safeguards and security program, the Department continues to pursue realignment of sensitive security areas to support accelerated and less costly cleanup of the site.

### Activities and Explanation of Changes

FY 2026 Enacted	FY 2027 Request	Explanation of Changes - FY 2027 Request vs FY 2026 Enacted
<b>\$16,434,000</b>	<b>\$18,428,000</b>	<b>+\$1,994,000</b>
<ul style="list-style-type: none"> <li>• Provide safeguards and security using a graded approach to include physical security systems, protective forces, information security, operational security, personnel security, material control and accountability, program management, and cybersecurity.</li> <li>• Continue compliance with Homeland Security Presidential Directive 12 requirements.</li> <li>• Implement cyber security requirements in accordance with Executive Order 14028, DOE O 205.1C, and the EM Cyber Security Program Plan.</li> <li>• Perform infrastructure to support optimization and DOE Order implementation to reduce the limited</li> </ul>	<ul style="list-style-type: none"> <li>• Provide safeguards and security using a graded approach to include physical security systems, protective forces, information security, operational security, personnel security, material control and accountability, program management, and cybersecurity.</li> <li>• Continue compliance with Homeland Security Presidential Directive 12 requirements.</li> <li>• Implement cyber security requirements in accordance with Executive Order 14028, DOE O 205.1C, and the EM Cyber Security Program Plan.</li> <li>• Perform infrastructure to support optimization and DOE Order implementation to reduce the limited</li> </ul>	<ul style="list-style-type: none"> <li>• Increase in costs and requirements of Physical, Information, and Cyber Security.</li> </ul>

area footprint and comply with DOE orders.

area footprint and comply with DOE orders.

**NM Stabilization and Disposition-Depleted Uranium Hexafluoride Conversion (PBS: PA-0011X)**

**Overview**

This PBS is within the Non-Defense Environmental Cleanup appropriation.

This PBS scope includes operating a depleted uranium hexafluoride conversion facility at the Portsmouth Gaseous Diffusion Plant site. The facility converts depleted uranium hexafluoride into a more stable chemical form (depleted uranium oxide) suitable for beneficial reuse or disposition. The depleted uranium oxide and cylinders will initially be stored on-site and ultimately sent to a disposal facility if beneficial reuses are not realized. The hydrogen fluoride co-product is sold on the commercial market for unrestricted use. The proceeds from the sale of hydrogen fluoride are used to offset project-operating costs. The scope of this PBS also includes direct maintenance and repair that are applicable to these areas. The long-term liability of stabilization and disposition of depleted uranium hexafluoride is currently estimated to cost \$6.1 billion and take up to 45 years to complete. Activities funded in FY2027 will reduce this long-term liability by \$80.8 million.

This PBS also includes surveillance and maintenance of all depleted uranium hexafluoride cylinders during conversion of the existing stockpile. Completion of these activities will contribute to reducing the footprint and total cleanup of the site.

**Activities and Explanation of Changes**

FY 2026 Enacted	FY 2027 Request	Explanation of Changes - FY 2027 Request vs FY 2026 Enacted
<b>\$70,416,000</b>	<b>\$80,804,000</b>	<b>+\$10,388,000</b>
<ul style="list-style-type: none"> <li>• Conduct operations of DUF6 conversion facility.</li> <li>• Package converted depleted uranium oxide and store on site.</li> <li>• Conduct cylinder surveillance and maintenance to keep material in a safe, stable condition.</li> <li>• Conduct annual plant maintenance outages.</li> <li>• Continue limited plant safety and reliability modifications.</li> <li>• Continue limited progress on cylinder evacuation project that will yield a 10-15%</li> </ul>	<ul style="list-style-type: none"> <li>• Conduct cylinder surveillance and maintenance to keep material in a safe, stable condition.</li> <li>• Conduct annual plant maintenance outages.</li> <li>• Conduct operations of DUF6 conversion facility.</li> <li>• Package converted depleted uranium oxide and store on site.</li> <li>• Complete plant safety and process improvement modifications that will yield an additional 500 metric tons of DUF6 processed annually.</li> </ul>	<ul style="list-style-type: none"> <li>• Increase supports plant safety and process improvement modifications.</li> </ul>

improvement in plant processing efficiency.

## Nuclear Facility D&D (PBS: PA-0040)

### Overview

This PBS is within the Uranium Enrichment Decontamination and Decommissioning Fund appropriation.

The scope of this PBS includes environmental cleanup and risk reduction through focused response actions and surveillance and maintenance activities. The response actions involve treatment of on-site and off-site groundwater plumes, remediation of contaminated soils and burial grounds, and deactivation, decontamination and decommissioning of inactive or excess facilities, including the gaseous diffusion plant facilities. The scope also includes landfill operations and maintenance activities. Compliance requirements at the Paducah site are subject to negotiations with the regulators. The long-term liability of nuclear facility D&D at the Paducah Site is currently estimated to cost \$20 billion and take up to 25 years to complete. Activities funded in FY 2027 will reduce this long-term liability by \$270.7 Million.

This PBS supports activities to continue environmental cleanup, further stabilize the gaseous diffusion plant to achieve a safe configuration, including facility modifications, surveillance and maintenance activities, and actions to remove hazardous materials. The scope of this PBS also includes direct maintenance and repair that are applicable to these areas.

Completion of these activities is required for reducing the site footprint and completing cleanup of the site.

### Activities and Explanation of Changes

FY 2026 Enacted	FY 2027 Request	Explanation of Changes - FY 2027 Request vs FY 2026 Enacted
<b>\$281,209,000</b>	<b>\$270,707,000</b>	<b>-\$10,502,000</b>
<ul style="list-style-type: none"> <li>Continue utility operations, pump-and-treat operations, waste and landfill operations, infrastructure support, environmental monitoring and reporting, surveillance, and maintenance of facilities.</li> <li>Complete a study to assess how the Department’s cleanup efforts complement the community’s long-term plans for reindustrialization and workforce development.</li> </ul>	<ul style="list-style-type: none"> <li>Continue utility operations, pump-and-treat operations, waste and landfill operations, infrastructure support, environmental monitoring and reporting, surveillance, and maintenance of facilities.</li> <li>Submit the D1 Waste Disposal Alternative, D&amp;D, and Environmental Media Records of Decision documents to regulators for final clean-up decisions.</li> <li>Complete regulatory approvals for D&amp;D and an On-Site Waste Disposal</li> </ul>	<ul style="list-style-type: none"> <li>Decrease is driven by reduced Central Wastewater Treatment System activities and lower support for On-Site Waste Disposal Facility operations, soil excavation/dewatering, and D&amp;D of gaseous diffusion plant facilities.</li> </ul>

- Continue Comprehensive Cleanup Strategy including activities that support an On-Site Waste Disposal Alternative, if selected, to provide cell capacity for demolition of Gaseous Diffusion Plant facilities.
  - Continue limited deactivation of the second Process Building (C-337) .
  - Continue Northwest Plume Pump and Treat project to support optimization and additional extraction well(s) at the C-400 in support of TCE groundwater remediation.
  - Initiate planning for a Cleanup Support Facility (to replace C-100) in support of long-term cleanup mission  
Continue property transfer activities in support of community reuse and site repurposing efforts.
- Alternative, if selected, to provide cell capacity for the future demolition of Gaseous Diffusion Plant facilities.
- Complete (100%) design and initiate site preparation for an On-Site Waste Disposal Facility, if selected.
  - Complete (100 %) design of the Central Wastewater Treatment system that will support future On-Site Waste Disposal Facility Operations, Soil Excavation De-Watering, and D&D of Gaseous Diffusion Plant facilities.
  - Continue to perform limited deactivation of the second Process Building (C-337).
  - Continue Northwest Plume Pump and Treat project to support optimization and additional extraction well(s) at the C-400 in support of TCE groundwater remediation.
  - Continue Sanitary Water System upgrades for potable water in compliance with Polyfluoroalkyl Substances requirements for drinking water.
  - Continue property transfer activities in support of community reuse and site repurposing efforts.

## Joppa Power Plant (PBS: PA-0045)

### Overview

This PBS is within the Uranium Enrichment Decontamination and Decommissioning Fund appropriation.

This scope of this PBS supports the strategy for shut down and demolition of the Joppa steam electrical power generating plant in Joppa, IL. This includes demolition and disposal of six steam boiler units, coal handling facilities, and infrastructure/support facilities. DOE is responsible for a portion of the demolition cost of this facility as part of an earlier agreement for the plant to provide power as needed by the Gaseous Diffusion Plant facility. DOE assumes that the Department is only responsible for the demolition and severance.

Completion will be when DOE has issued final payment for the Joppa Power Plant deactivation and decommissioning.

### Activities and Explanation of Changes

FY 2026 Enacted	FY 2027 Request	Explanation of Changes - FY 2027 Request vs FY 2026 Enacted
<b>\$0</b>	<b>\$50,000</b>	<b>+\$50,000</b>
<ul style="list-style-type: none"><li>No funding requested.</li></ul>	<ul style="list-style-type: none"><li>Supports deactivation and decommissioning of the Joppa Power Plant.</li></ul>	<ul style="list-style-type: none"><li>Increase supports deactivation and decommissioning of the Joppa Power Plant.</li></ul>

**Paducah Contract/Post-Closure Liabilities/Administration (PBS: PA-0102)**

**Overview**

This PBS is within the Uranium Enrichment Decontamination and Decommissioning Fund appropriation.

This PBS supports a contract liability to provide record searches performed for DOE and the Department of Justice investigations/studies, pending litigation expenses, severance and the administration of post-retirement life and medical support.

**Activities and Explanation of Changes**

<b>FY 2026 Enacted</b>	<b>FY 2027 Request</b>	<b>Explanation of Changes - FY 2027 Request vs FY 2026 Enacted</b>
<b>\$30,000</b>	<b>\$20,000</b>	<b>-\$10,000</b>
<ul style="list-style-type: none"> <li>• Provide support to DOE and Department of Justice for all investigations and litigation.</li> <li>• Provide payment into the Paducah pension program to remain in compliance with the Employee Retirement Income Security Act and other applicable laws, and DOE O 350.1 requirements.</li> </ul>	<ul style="list-style-type: none"> <li>• Provide support to DOE and Department of Justice for all investigations and litigation.</li> <li>• Provide payment into the Paducah pension program to remain in compliance with the Employee Retirement Income Security Act and other applicable laws, and DOE O 350.1 requirements.</li> </ul>	<ul style="list-style-type: none"> <li>• No significant change.</li> </ul>

**Paducah Community and Regulatory Support (PBS: PA-0103)**

**Overview**

This PBS is within the Uranium Enrichment Decontamination and Decommissioning Fund appropriation.

This PBS scope supports an Agreement-in-Principle grant to the Commonwealth of Kentucky to provide independent oversight of the environmental programs, including surface water, groundwater, air and other environmental monitoring; and a Federal Facility Agreement grant with the Commonwealth of Kentucky to assure Federal Facility Agreement conditions and compliance schedules are met in accordance with state, federal, and local guidance, regulations and statutes. This PBS also includes support to the Paducah Citizens Advisory Board for assistance in all public participation activities and a grant with Kentucky to support the groundwater program.

**Activities and Explanation of Changes**

FY 2026 Enacted	FY 2027 Request	Explanation of Changes - FY 2027 Request vs FY 2026 Enacted
<b>\$2,865,000</b>	<b>\$3,589,000</b>	<b>+\$724,000</b>
<ul style="list-style-type: none"> <li>• Continue support to the Citizens Advisory Board to assist in the public participation activities required by the Comprehensive Environmental Response, Compensation, and Liability Act.</li> <li>• Continue to ensure requirements are met regarding the Federal Facility Agreement and Agreement-In-Principle grants.</li> <li>• Continue support to the Kentucky Research Consortium for Energy and Environment for groundwater modeling program.</li> </ul>	<ul style="list-style-type: none"> <li>• Continue support to the Citizens Advisory Board to assist in the public participation activities required by the Comprehensive Environmental Response, Compensation, and Liability Act.</li> <li>• Continue to ensure requirements are met regarding the Federal Facility Agreement and Agreement-In-Principle grants.</li> <li>• Continue support to the Kentucky Research Consortium for Energy and Environment for groundwater modeling program.</li> </ul>	<ul style="list-style-type: none"> <li>• Increase supports Federal Facility Agreement and Agreement-in-Principle grants to support Comprehensive Environmental Response, Compensation, and Liability Act document and design package reviews to ensure regulatory compliance schedules are met.</li> </ul>

## Portsmouth

### Overview

The Portsmouth Site, occupying approximately 3,424 acres in Portsmouth, Ohio, is one of the three gaseous diffusion plants that enriched uranium for nuclear weapons. In the 1960s, Portsmouth's mission changed to focus on producing fuel for commercial nuclear power plants and other national security applications until the extensive environmental cleanup program began. The Portsmouth Site cleanup will position the Department of Energy to meet the nation's Cold War legacy responsibilities, including environmental cleanup, waste management, depleted uranium hexafluoride conversion, deactivation and demolition, and long-term stewardship.

Based on current estimates, the office of Environmental Management (EM) is responsible for addressing \$14 billion in identified cleanup liability at the Portsmouth site – roughly 3% percent of the \$418 billion total liability across all EM sites. Successful implementation of current plans and milestones would result in completion of the identified cleanup mission at the Portsmouth site in the FY 2050 to FY 2060 timeframe. Project performance is monitored monthly to determine earned value and completion of scope. On an annual basis, estimates for the remaining balance of work are evaluated and updated with current year rates to establish the remaining long-term liability.

To complete cleanup, Portsmouth will maintain a safe, secure, and compliant posture; perform deactivation and demolition of the gaseous diffusion plant; dispose of all low-level radioactive waste and mixed low-level radioactive waste resulting from deactivation and demolition activities; dispose of all excess materials; and perform excavation of groundwater trichloroethylene plumes and landfills to provide fill for the placement of demolition debris in the On-Site Waste Disposal Facility.

EM will continue to focus on decommissioning of legacy nuclear sites and environmental remediation, while playing a vital role working for the American people through redevelopment of land and reuse of materials. Revitalization can transform legacy sites with unique attributes such as existing infrastructure and skilled workers into hubs of economic strength anchored by nuclear energy, digital infrastructure, and advanced manufacturing.

Portsmouth will continue to operate the Depleted Uranium Hexafluoride Conversion Facility.

Direct maintenance and repair at Portsmouth are estimated to be \$36,492,000 in FY 2027.

Portsmouth plans to purchase One medium size bucket truck in FY 2027.

### Highlights of the FY 2027 Budget Request

The FY 2027 Budget Request continues progress on the deactivation and decommissioning of the former Portsmouth Gaseous Diffusion Plant. This budget request also supports the safe operation of the Depleted Uranium Hexafluoride Conversion Facility and the completion of plant throughput improvement projects.

The FY 2027 Budget Request includes \$15,000,000 in funding (\$2,500,000 for design, \$10,000,000 for construction, and \$2,500,000 for other project cost) for the On-Site Waste Disposal Facility, Line-Item Capital Project CAP 2 (20-U-401), which is being constructed to receive the debris from the demolition of the X-333 Process Building.

The FY 2027 Budget Request includes \$1,000,000 in funding (\$500,000 for design, \$0 construction, and \$500,000 for other project cost) for the On-Site Waste Disposal Facility, Line-Item CAP 3 (25-U-401), which is

being constructed to receive the debris from the demolition of the X-330 Process Building and the Balance of Plant Facilities.

### **FY 2026 - FY 2027 Key Milestones/Outlook**

- (April 2026) Complete Construction of the Interim Leachate Treatment System (ILTS) Phase 2 as Part of the On-Site Waste Disposal Facility CAP 2 (20-U-401).
- (April 2026) Initiate On-Site Waste Disposal Facility CAP 3 Project (25-U-401) for “Cell 7 – 10 Liners and Cell 1-6 Covers Construction Project”.
- Complete Load-Out Road Improvements to Support X-333 Process Building Demolition.
- (June 2026) Complete Construction of Cell 3 & 6 Liner and Valve Houses 3, 6, and 10 for the On-Site Waste Disposal Facility CAP 2 Project (20-U-401).
- (September 2026) Continue Deactivation and Initiate Pre-demolition of the X-710 Technical Services Building. (September 2026) Complete environmental baseline study for transfer of Parcel 4.
- (September 2026) Complete Phases 6 of the Five Unit Impacted Soil Excavation to Provide Engineered Fill for Debris Placement in the On-Site Waste Disposal Facility.
- (September 2026) Continue Demolition of the Second Process Building (X-333).
- (September 2026) Continue Deactivation of the Third Process Building (X-330).
- (September 2026) Continue the New X-555 Electrical Substation and Upgrade of the X-5001 Substation.
- (September 2026) Continue Five Unit Plume excavation for Placement in the On-Site Waste Disposal Facility as Engineered Fill.
- (December 2026) Complete Deactivation and Pre-demolition of the X-710 Technical Services Building.
- (September 2027) Continue On-Site Waste Disposal Facility CAP 3 Project (25-U-401) for “Cell 7 – 10 Liners and Cell 1-6 Covers Construction Project”.
- (September 2027) Continue Demolition of the Second Process Building (X-333).
- (September 2027) Continue Deactivation of the Third Process Building (X-330).
- (September 2027) Complete Five Unit Plume Excavation Phase 10 to Provide Engineered Fill for Debris Placement in the On-Site Waste Disposal Facility.
- (September 2027) Initiate X-749A, and X-749/X-120/X-749B Excavation to Provide Engineered Fill for Debris Placement in the On-Site Waste Disposal Facility.
- (September 2027) Complete Project Construction and Submit CD-4 for the On-Site Waste Disposal Facility CAP 2 (20-U-401).
- (September 2027) Complete Demolition of the X-710 Technical Services Building.
- (September 2027) Continue the New X-555 Electrical Substation and Upgrade of the X-5001 Substation.
- (September 2027) Construction of the X-749/120 Haul Road to Support Soil Transportation.
- (September 2027) Complete Cylinder Evacuation Project to Yield a 10-15% Improvement in Plant Processing Efficiency.

### **Regulatory Framework**

Oversight of cleanup activities at the Portsmouth Site is the responsibility of the Ohio Environmental Protection Agency. The ongoing environmental media cleanup activities are being conducted in accordance with the State of Ohio Consent Decree, under the Resource Conservation and Recovery Act, which requires investigation and remediation of solid and hazardous waste management units. A Decision Document under the Consent Decree for final soil and groundwater cleanup of deferred units was issued on July 27, 2023 by Ohio Environmental Protection Agency.

DOE and the Ohio Environmental Protection Agency reached an agreement on the regulatory framework for final decontamination and decommissioning of the facilities and the disposition of project waste under the Ohio

Environmental Protection Agency issuance of the Directors Final Findings and Orders for Decontamination and Decommissioning, which uses the framework of the Comprehensive Environmental Response, Compensation, and Liability Act requirements. The On-Site Waste Disposal Record of Decision was issued in June 2015, and the Process Building Record of Decision was issued in July 2015. The conditional Operating Disposal Authorization Statement required under DOE Order 435.1, Radioactive Waste Management was signed on December 17, 2019, and was required prior to first waste placement.

DOE and the Ohio Environmental Protection Agency have an agreement for the management of the storage of the depleted uranium hexafluoride cylinders.

## **Contractual Framework**

Current contracts at Portsmouth include:

- Mission Conversion Services Alliance, LLC is a cost-plus-award fee and Indefinite Delivery/Indefinite Quantity contract for operations and site mission support at the Paducah and Portsmouth facilities covering October 1, 2025 – September 30, 2030 with two options that could extend through September 30, 2035. Services performed include Depleted Uranium Hexafluoride conversion, uranium hexafluoride cylinder transfers, and site mission support. Notice to Proceed was issued to begin the 120 day transition period on June 2, 2025 and full contract performance began on October 1, 2025.
- Southern Ohio Cleanup Company, LLC (SOCCo), is an Indefinite-Delivery/Indefinite-Quantity contract under the End State Contracting Model for decontamination and decommissioning of uranium gaseous diffusion buildings, and soil and groundwater remediation. This IDIQ will have a maximum value of up to \$5.87 billion over the 10-year ordering period. The Portsmouth D&D End State contract was awarded on July 13, 2023. A Notice to Proceed (NTP) was issued and the 120-day Transition Period occurred from June 2, 2025 through September 30, 2025. SOCCo assumed operational responsibility on October 1, 2025. The period of performance for Task Order 3 is October 1, 2025 through September 30, 2031.
- North Wind Dynamics, LLC, is a firm-fixed-price hybrid including fixed-price, cost-reimbursable, Indefinite Delivery/Indefinite Quantity contract for infrastructure support services, covering the period of February 18, 2022 – December 18, 2026, includes one executed 24-month option period.

## **Strategic Management**

The key environmental cleanup strategies for the Portsmouth site are to continue process building deactivation, including equipment removal actions and hazardous material abatement; continue process building demolition; continue construction activities associated with an On-Site Waste Disposal Facility for disposition of waste and debris from the deactivation and demolition of the process buildings and Balance of Plant; complete the soil and groundwater remediation of the deferred units under the Ohio Consent Decree; continue operations of groundwater treatment facilities in support of installed remedies; remove stored low-level radioactive waste and mixed low-level radioactive waste streams; and operate the Depleted Uranium Hexafluoride Conversion Facility.

Future deactivation and demolition costs will be dependent upon the timing and extent of final environmental contamination, regulatory frameworks, and disposal/recycling options for the deactivation and demolition materials and wastes. The regulatory documents that could have significant impacts on individual projects and may affect the overall costs and schedule are outlined below:

- DOE will develop work plans as part of the decision-making process, in coordination with the Ohio Environmental Protection Agency, that will describe in detail the actions required to perform the demolition and waste disposition activities.

- On July 27, 2023, Ohio Environmental Protection Agency issued the Decision Document for the final soil and groundwater cleanup under the consent decree for deferred units. Following the Decision Document issuance, DOE submitted the Deferred Units Corrective Measures Implementation Strategy and Plan on October 23, 2023 and Ohio Environmental Protection Agency approved the Strategy and Plan on November 21, 2023. The Deferred Units Corrective Measures Implementation Strategy and Plan describes how DOE will implement the selected corrective measures for the Deferred Units.
- DOE will continue to develop landfill and plume excavation work plans in accordance with the agreement reached with the Ohio Environmental Protection Agency.
- DOE will continue to support National Nuclear Security Administration funded activities.

**Portsmouth Project Office**

**Funding (\$K)**

	FY 2025 Enacted	FY 2026 Enacted	FY 2027 Request	FY 2027 Request vs FY 2026 Enacted	
				\$	%
<b>Defense Environmental Cleanup</b>					
<b>Safeguards and Security</b>					
PO-0020 / Safeguards and Security	17,763	17,263	19,231	+1,968	+11%
<b>Non-Defense Environmental Cleanup</b>					
<b>Gaseous Diffusion Plants</b>					
<b>Portsmouth Gaseous Diffusion Plants</b>					
PO-0011X / NM Stabilization and Disposition-Depleted Uranium Hexafluoride Conversion	71,683	72,110	77,841	+5,731	+8%
<b>Uranium Enrichment Decontamination and Decommissioning Fund</b>					
<b>Portsmouth</b>					
PO-0040 / Nuclear Facility D&D					
Operating	418,258	453,106	480,480	+27,374	+6%
Construction					
20-U-401: On Site Waste Disposal Facility (Cell Line 2&3)	82,000	30,125	15,000	-15,125	-50%
25-U-401: On Site Waste Disposal Facility Liner Buildout and Final Cover System	0	3,875	1,000	-2,875	-74%
	<b>500,258</b>	<b>487,106</b>	<b>496,480</b>	<b>+9,374</b>	<b>+2%</b>
<b>Pension and Community and Regulatory Support</b>					
PO-0103 / Portsmouth Contract/Post-Closure Liabilities/Administration	125	125	82	-43	-34%
PO-0104 / Portsmouth Community and Regulatory Support	3,435	3,435	3,425	-10	0%
<b>Subtotal, Pension and Community and Regulatory Support</b>	<b>3,560</b>	<b>3,560</b>	<b>3,507</b>	<b>-53</b>	<b>-1%</b>
<b>Total, Uranium Enrichment Decontamination and Decommissioning Fund</b>	<b>503,818</b>	<b>490,666</b>	<b>499,987</b>	<b>+9,321</b>	<b>+2%</b>
<b>Total, Portsmouth</b>	<b>593,264</b>	<b>580,039</b>	<b>597,059</b>	<b>+17,020</b>	<b>+3%</b>
<b>Environmental Management/ Portsmouth</b>					

**Portsmouth Project Office  
Explanation of Major Changes (\$K)**

	<b>FY 2026 Enacted</b>	<b>FY 2027 Request</b>	<b>FY 2027 Request vs FY 2026 Enacted</b>
<b>Defense Environmental Cleanup</b>			
<b>Safeguards and Security</b>			
<b>PO-0020 / Safeguards and Security</b>			
• Increase supports using Graded Approach for Physical, Information, and Cyber Security.	17,263	19,231	+1,968
<b>Non-Defense Environmental Cleanup</b>			
<b>Gaseous Diffusion Plants</b>			
<b>Portsmouth Gaseous Diffusion Plants</b>			
<b>PO-0011X / NM Stabilization and Disposition-Depleted Uranium Hexafluoride Conversion</b>			
• Increase supports the completion of the cylinder evacuation project.	72,110	77,841	+5,731
<b>Uranium Enrichment Decontamination and Decommissioning Fund</b>			
<b>Pension and Community and Regulatory Support</b>			
<b>PO-0103 / Portsmouth Contract/Post-Closure Liabilities/Administration</b>			
• No significant change.	125	82	-43
<b>PO-0104 / Portsmouth Community and Regulatory Support</b>			
• No significant change.	3,435	3,425	-10
<b>Portsmouth</b>			
<b>PO-0040 / Nuclear Facility D&amp;D</b>			
• Increase supports the continued demolition of the X-333 Process Building including soil excavation and On-Site Waste Disposal Facility Operations offset against the reduction in On-Site Waste Disposal Construction.	487,106	496,480	+9,374
<b>Total, Portsmouth</b>	<b>580,039</b>	<b>597,059</b>	<b>+17,020</b>

## Safeguards and Security (PBS: PO-0020)

### Overview

This Project Baseline Summary (PBS) can be found within the Defense Environmental Cleanup appropriation.

The safeguards and security program at the Portsmouth Gaseous Diffusion Plant provides security services to protect nuclear materials, sensitive uranium enrichment technology, equipment, and facilities. This program includes maintaining a security guard force to protect nuclear materials and classified technology/information. The safeguards and security program also supports the Portsmouth decommissioning and decontamination program. Within the safeguards and security program, the Department continues to pursue realignment of sensitive security areas to support accelerated and less costly cleanup of the site.

### Activities and Explanation of Changes

FY 2026 Enacted	FY 2027 Request	Explanation of Changes - FY 2027 Request vs FY 2026 Enacted
<b>\$17,263,000</b>	<b>\$19,231,000</b>	<b>+\$1,968,000</b>
<ul style="list-style-type: none"> <li>• Continue compliance with Homeland Security Presidential Directive 12 requirements.</li> <li>• Maintain the appropriate level of safeguards and security using a graded approach for the Portsmouth Gaseous Diffusion Plant.</li> <li>• Provide Physical Protection, Protective Forces, Physical Security Systems, Information Security, Operations Security, Personnel Security, Material Control and Accountability, Program Management, and Cyber Security.</li> </ul>	<ul style="list-style-type: none"> <li>• Continue compliance with Homeland Security Presidential Directive 12 requirements.</li> <li>• Maintain safeguards and security using a graded approach for the Portsmouth Gaseous Diffusion Plant.</li> <li>• Provide Physical Protection, Protective Forces, Physical Security Systems, Information Security, Operations Security, Personnel Security, Material Control and Accountability, Program Management, and Cyber Security.</li> <li>• Uses a graded approach for Physical, Information, and Cyber Security for the Portsmouth Gaseous Diffusion Plant.</li> </ul>	<ul style="list-style-type: none"> <li>• Increase supports using Graded Approach for Physical, Information, and Cyber Security.</li> </ul>

## NM Stabilization and Disposition-Depleted Uranium Hexafluoride Conversion (PBS: PO-0011X)

### Overview

This PBS is within the Non-Defense Environmental Cleanup appropriation.

This PBS scope includes operating a depleted uranium hexafluoride conversion facility at the Portsmouth Gaseous Diffusion Plant site. The facility converts depleted uranium hexafluoride into a more stable chemical form (depleted uranium oxide) suitable for beneficial reuse or disposition. The depleted uranium oxide and cylinders will initially be stored on-site and ultimately sent to a disposal facility if beneficial reuses are not realized. The hydrogen fluoride co-product is sold on the commercial market for unrestricted use. The proceeds from the sale of hydrogen fluoride are used to offset project-operating costs. The scope of this PBS also includes direct maintenance and repair that are applicable to these areas.

The long-term liability of stabilization and disposition of depleted uranium hexafluoride is currently estimated to cost \$4 billion and take up to 30 years to complete. Activities funding in FY 2027 will reduce this long-term liability by \$78 million.

This PBS also includes surveillance and maintenance of all depleted uranium hexafluoride cylinders during conversion of the existing stockpile. Completion of these activities will contribute to reducing the footprint and total cleanup of the site.

### Activities and Explanation of Changes

FY 2026 Enacted	FY 2027 Request	Explanation of Changes FY 2027 Request vs FY 2026 Enacted
<b>72,110,000</b>	<b>\$77,841,000</b>	<b>+\$5,731,000</b>
<ul style="list-style-type: none"> <li>• Conduct operations of DUF6 conversion facility.</li> <li>• Package converted depleted uranium oxide and store on site.</li> <li>• Conduct cylinder surveillance and maintenance to keep material in a safe, stable condition.</li> <li>• Conduct annual plant maintenance outages.</li> <li>• Continue limited plant safety and reliability modifications.</li> <li>• Continue limited progress on cylinder evacuation project that will yield a 10-15% improvement in plant processing efficiency.</li> </ul>	<ul style="list-style-type: none"> <li>• Conduct cylinder surveillance and maintenance to keep material in a safe, stable condition.</li> <li>• Conduct annual plant maintenance outages.</li> <li>• Conduct operations of DUF6 conversion facility.</li> <li>• Package converted depleted uranium oxide and store on site.</li> <li>• Complete cylinder evacuation project that will yield a 10-15% improvement in plant processing efficiency.</li> </ul>	<ul style="list-style-type: none"> <li>• Increase supports the completion of the cylinder evacuation project.</li> </ul>

## Nuclear Facility D&D (PBS: PO-0040)

### Overview

This PBS is within the Uranium Enrichment Decontamination and Decommissioning Fund appropriation.

This PBS scope includes remedial actions due to contamination resulting from the plant's historical uranium enrichment operations, facility decontamination and decommissioning, and surveillance and maintenance activities at the Portsmouth Gaseous Diffusion Plant.

This PBS also includes the design and construction of a capital project, the On-Site Waste Disposal Facility, for disposition of the debris generated from the site-wide cleanup, including debris generated from the decontamination, decommissioning, and demolition of the Gaseous Diffusion Plant. The long-term liability of nuclear facility D&D at the Portsmouth Site is currently estimated to cost \$10 billion and take up to 15 years to complete. Activities funding in FY 2027 will reduce this long-term liability by \$497 million.

The FY 2027 Budget Request of \$487,159,000 supports removal of high-risk radioactively contaminated equipment and hazardous materials from the uranium processing buildings. This includes \$15,000,000 in funding \$2,500,000 for design, \$10,000,000 for construction, and \$2,500,000 for other project cost) for Portsmouth On-Site Waste Disposal Facility CAP 2 (20-U-401), which is being constructed to receive debris from the X-333 Process Building. Additionally, the FY 2027 Budget Request also includes \$1,000,000 in funding \$500,000 for design, \$0 construction, and \$500,000 for other project cost) for the On-Site Waste Disposal Facility CAP 3 (25-U-401) project, which will receive debris from the demolition of the X-330 Process Building and the Balance of Plant Facilities. The mission of these projects is to construct an On-Site Waste Disposal Facility for debris generated from the deactivation and decommissioning of the Portsmouth Gaseous Diffusion Plant and associated facilities and install the final covers for all the cells.

### Activities and Explanation of Changes

FY 2026 Enacted	FY 2027 Request	Explanation of Changes FY 2027 Request vs FY 2026 Enacted
<b>\$487,106,000</b>	<b>\$496,480,000</b>	<b>+\$9,374,000</b>

- |   |   |  |
|---|---|--|
| <ul style="list-style-type: none"> <li>• Continue operations such as utility operations, pump-and-treat operations, waste operations, infrastructure support, environmental monitoring and reporting, surveillance, and maintenance of facilities.</li> </ul> | <ul style="list-style-type: none"> <li>• Continue operations such as utility operations, pump-and-treat operations, waste operations, infrastructure support, environmental monitoring and reporting, surveillance, and maintenance of facilities.</li> </ul> | <ul style="list-style-type: none"> <li>• Increase supports the continued demolition of the X-333 Process Building including soil excavation and On-Site Waste Disposal Facility Operations offset against the reduction in On-Site Waste Disposal Construction.</li> </ul> |
|---|---|--|

- Continue reduced On-Site Waste Disposal Facility waste placement operations (Includes Five Unit soil, X-333 Process Building demolition debris and X-330 Process Building deactivation debris).
- Continue reduced demolition of the X-333 Process Building and debris placement in the On-Site Waste Disposal Facility.
- Continue reduced deactivation of the X-330 Process Building.
- Continue reduced X-330 Process Building Demolition Design Plan.
- Continue deactivation and initiate pre-demolition of X-710 located on the Five Unit Plume.
- Continue the new X-555 Electrical Substation and Upgrade of the X-5001 Substation to support Site-Wide Electrical Configuration.
- On-Site Waste Disposal Facility Construction CAP 2 (20-U-401): Complete construction of Cell 3 & 6 Liners for placement of X-333 Process Building demolition debris.
- On-Site Waste Disposal Facility Construction CAP 2 (20-U-401): Complete construction of Valve Houses 3, 6, and 10.
- On-Site Waste Disposal Facility Construction CAP 2 (20-U-401): Complete construction of Interim Leachate Treatment System (Phase II) including installation of second Interim
- Continue reduced On-Site Waste Disposal Facility waste placement operations (Includes Five Unit soil, X-326 Slab, X-710 Facility, X-333 Process Building demolition debris and X-330 Process Building deactivation debris).
- Continue demolition of the X-333 Process Building and debris placement in the On-Site Waste Disposal Facility.
- Further reduce deactivation of the X-330 Process Building.
- Complete deactivation and pre-demolition of X-710 located on the Five Unit Plume.
- Complete demolition of X-710 located on the Five Unit Plume.
- Continue the new X-555 Electrical Substation and Upgrade of the X-5001 Substation to support Site-Wide Electrical Configuration.
- Complete construction and submit CD-4 on the On-Site Waste Disposal Facility CAP 2 (20-U-401) project.
- Continue design of the On-Site Waste Disposal Facility Construction CAP 3 (25-U-401).
- Continue Five Unit plume, X-749A, and X-749/X-120/X-749B excavation for placement in the On-Site Waste Disposal Facility as protective/select layer and engineered fill.
- Construction of the X-749/120 haul road to support soil transportation.
- Infrastructure projects to support roads, culverts and historical records.

- Leachate Treatment System leachate treatment train (B-Train).
- On-Site Waste Disposal Facility Construction CAP 2 (20-U-401): Complete construction of the Impacted Material Transfer Area and prepare for operations.
- On-Site Waste Disposal Facility Construction CAP 2 (20-U-401): Complete installation of second Interim Leachate Treatment System leachate treatment train (B-Train).
- On-Site Waste Disposal Facility Construction CAP 3 (25-U-401): Initiate design and construction of the third On-Site Waste Disposal Facility project.
- Continue Five Unit plume excavation for placement in the On-Site Waste Disposal Facility as engineered fill.
- Complete design for the X-749 landfill excavation. Moved from FY26.

**Portsmouth Contract/Post-Closure Liabilities/Administration (PBS: PO-0103)**

**Overview**

This PBS is within the Uranium Enrichment Decontamination and Decommissioning Fund appropriation.

This PBS supports pending litigation expenses, severance and the administration of post retirement life and medical benefits.

**Activities and Explanation of Changes**

FY 2026 Enacted	FY 2027 Request	Explanation of Changes FY 2027 Request vs FY 2026 Enacted
<b>\$125,000</b>	<b>\$82,000</b>	<b>-\$43,000</b>
<ul style="list-style-type: none"> <li>Continue to provide defense against legal claims filed against the Government and its contractors.</li> <li>Continue record searches in support of legal claims, Freedom of Information Act requests, and requests from both state and Federal regulatory and elected officials.</li> <li>Continue to provide payment into the Portsmouth pension program to remain in compliance with the Employee Retirement Income Security Act, DOE 350.1 and other applicable laws.</li> </ul>	<ul style="list-style-type: none"> <li>Continue to provide defense against legal claims filed against the Government and its contractors.</li> <li>Continue to record searches in support of legal claims, Freedom of Information Act requests, and requests from both state and Federal regulatory and elected officials.</li> <li>Continue to provide payment into the Portsmouth pension program to remain in compliance with the Employee Retirement Income Security Act, DOE 350.1 and other applicable laws.</li> </ul>	<ul style="list-style-type: none"> <li>No significant change.</li> </ul>

**Portsmouth Community and Regulatory Support (PBS: PO-0104)**

**Overview**

This PBS is within the Uranium Enrichment Decontamination and Decommissioning Fund appropriation.

This PBS supports activities to promote active involvement with the state and local stakeholders in the Environmental Management planning and decision-making processes and provides the opportunity for meaningful involvement in managing the cleanup and closure of the site.

**Activities and Explanation of Changes**

FY 2026 Enacted	FY 2027 Request	Explanation of Changes FY 2027 Request vs FY 2026 Enacted
<b>\$3,435,000</b>	<b>\$3,425,000</b>	<b>-\$10,000</b>
<ul style="list-style-type: none"> <li>• Support oversight activities of the Ohio Environmental Protection Agency, including air monitoring by Ohio Environmental Protection Agency and Ohio Department of Health.</li> <li>• Support the designated Site-Specific Advisory Board.</li> <li>• Supported the Payment-in-Lieu of Taxes to Pike County.</li> <li>• Support technical/scientific activities for the Ohio University.</li> <li>• Support community outreach grants for the local area.</li> </ul>	<ul style="list-style-type: none"> <li>• Support oversight activities of the Ohio Environmental Protection Agency, including air monitoring by Ohio Environmental Protection Agency and Ohio Department of Health.</li> <li>• Support the designated Site-Specific Advisory Board.</li> <li>• Support the Payment-in-Lieu of Taxes to Pike County.</li> <li>• Support technical/scientific activities for the Ohio University.</li> <li>• Support community outreach grants for the local area.</li> </ul>	<ul style="list-style-type: none"> <li>• No significant change.</li> </ul>

**Portsmouth Project Office**

**Funding (\$K)**

	FY 2025 Enacted	FY 2026 Enacted	FY 2027 Request	FY 2027 Request vs FY 2026 Enacted	
				\$	%
<b>Defense Environmental Cleanup</b>					
<b>Safeguards and Security</b>					
PO-0020 / Safeguards and Security	17,763	17,263	19,231	+1,968	+11%
<b>Non-Defense Environmental Cleanup</b>					
<b>Gaseous Diffusion Plants</b>					
<b>Portsmouth Gaseous Diffusion Plants</b>					
PO-0011X / NM Stabilization and Disposition-Depleted Uranium Hexafluoride Conversion	71,683	72,110	77,841	+5,731	+8%
<b>Uranium Enrichment</b>					
<b>Decontamination and Decommissioning Fund</b>					
<b>Portsmouth</b>					
PO-0040 / Nuclear Facility D&D Operating Construction	418,258	453,106	480,480	+27,374	+6%
20-U-401: On Site Waste Disposal Facility (Cell Line 2&3)	82,000	30,125	15,000	-15,125	-50%
25-U-401: On Site Waste Disposal Facility Liner Buildout and Final Cover System	0	3,875	1,000	-2,875	-74%
	<hr/> 500,258	<hr/> 487,106	<hr/> 496,480	<hr/> +9,374	<hr/> +2%
<b>Pension and Community and Regulatory Support</b>					

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PO-0103 / Portsmouth Contract/Post-Closure Liabilities/Administration	125	125	82	-43	-34%
PO-0104 / Portsmouth Community and Regulatory Support	3,435	3,435	3,425	-10	0%
<b>Subtotal, Pension and Community and Regulatory Support</b>	<b>3,560</b>	<b>3,560</b>	<b>3,507</b>	<b>-53</b>	<b>-1%</b>
<b>Total, Uranium Enrichment Decontamination and Decommissioning Fund</b>	<b>503,818</b>	<b>490,666</b>	<b>499,987</b>	<b>+9,321</b>	<b>+2%</b>
<b>Total, Portsmouth</b>	<b>593,264</b>	<b>580,039</b>	<b>597,059</b>	<b>+17,020</b>	<b>+3%</b>

**Portsmouth Project Office  
Explanation of Major Changes (\$K)**

	<b>FY 2026 Enacted</b>	<b>FY 2027 Request</b>	<b>FY 2027 Request vs FY 2026 Enacted</b>
<b>Defense Environmental Cleanup</b>			
<b>Safeguards and Security</b>			
<b>PO-0020 / Safeguards and Security</b>			
• Increase supports using Graded Approach for Physical, Information, and Cyber Security.	17,263	19,231	+1,968
<b>Non-Defense Environmental Cleanup</b>			
<b>Gaseous Diffusion Plants</b>			
<b>Portsmouth Gaseous Diffusion Plants</b>			
<b>PO-0011X / NM Stabilization and Disposition-Depleted Uranium Hexafluoride Conversion</b>			
• Increase supports the completion of the cylinder evacuation project.	72,110	77,841	+5,731
<b>Uranium Enrichment Decontamination and Decommissioning Fund</b>			
<b>Pension and Community and Regulatory Support</b>			
<b>PO-0103 / Portsmouth Contract/Post-Closure Liabilities/Administration</b>			
• No significant change.	125	82	-43
<b>PO-0104 / Portsmouth Community and Regulatory Support</b>			
• No significant change.	3,435	3,425	-10
<b>Portsmouth</b>			
<b>PO-0040 / Nuclear Facility D&amp;D</b>			
• Increase supports the continued demolition of the X-333 Process Building including soil excavation and On-Site Waste Disposal Facility Operations offset against the reduction in On-Site Waste Disposal Construction.	487,106	496,480	+9,374
<b>Total, Portsmouth</b>	<b>580,039</b>	<b>597,059</b>	<b>+17,020</b>

## Safeguards and Security (PBS: PO-0020)

### Overview

This Project Baseline Summary (PBS) can be found within the Defense Environmental Cleanup appropriation.

The safeguards and security program at the Portsmouth Gaseous Diffusion Plant provides security services to protect nuclear materials, sensitive uranium enrichment technology, equipment, and facilities. This program includes maintaining a security guard force to protect nuclear materials and classified technology/information. The safeguards and security program also supports the Portsmouth decommissioning and decontamination program. Within the safeguards and security program, the Department continues to pursue realignment of sensitive security areas to support accelerated and less costly cleanup of the site.

### Activities and Explanation of Changes

FY 2026 Enacted	FY 2027 Request	Explanation of Changes - FY 2027 Request vs FY 2026 Enacted
<b>\$17,263,000</b>	<b>\$19,231,000</b>	<b>+\$1,968,000</b>
<ul style="list-style-type: none"> <li>• Continue compliance with Homeland Security Presidential Directive 12 requirements.</li> <li>• Maintain the appropriate level of safeguards and security using a graded approach for the Portsmouth Gaseous Diffusion Plant.</li> <li>• Provide Physical Protection, Protective Forces, Physical Security Systems, Information Security, Operations Security, Personnel Security, Material Control and Accountability, Program Management, and Cyber Security.</li> </ul>	<ul style="list-style-type: none"> <li>• Continue compliance with Homeland Security Presidential Directive 12 requirements.</li> <li>• Maintain safeguards and security using a graded approach for the Portsmouth Gaseous Diffusion Plant.</li> <li>• Provide Physical Protection, Protective Forces, Physical Security Systems, Information Security, Operations Security, Personnel Security, Material Control and Accountability, Program Management, and Cyber Security.</li> <li>• Uses a graded approach for Physical, Information, and Cyber Security for the Portsmouth Gaseous Diffusion Plant.</li> </ul>	<ul style="list-style-type: none"> <li>• Increase supports using Graded Approach for Physical, Information, and Cyber Security.</li> </ul>

## NM Stabilization and Disposition-Depleted Uranium Hexafluoride Conversion (PBS: PO-0011X)

### Overview

This PBS is within the Non-Defense Environmental Cleanup appropriation.

This PBS scope includes operating a depleted uranium hexafluoride conversion facility at the Portsmouth Gaseous Diffusion Plant site. The facility converts depleted uranium hexafluoride into a more stable chemical form (depleted uranium oxide) suitable for beneficial reuse or disposition. The depleted uranium oxide and cylinders will initially be stored on-site and ultimately sent to a disposal facility if beneficial reuses are not realized. The hydrogen fluoride co-product is sold on the commercial market for unrestricted use. The proceeds from the sale of hydrogen fluoride are used to offset project-operating costs. The scope of this PBS also includes direct maintenance and repair that are applicable to these areas.

The long-term liability of stabilization and disposition of depleted uranium hexafluoride is currently estimated to cost \$4 billion and take up to 30 years to complete. Activities funding in FY 2027 will reduce this long-term liability by \$78 million.

This PBS also includes surveillance and maintenance of all depleted uranium hexafluoride cylinders during conversion of the existing stockpile. Completion of these activities will contribute to reducing the footprint and total cleanup of the site.

### Activities and Explanation of Changes

FY 2026 Enacted	FY 2027 Request	Explanation of Changes - FY 2027 Request vs FY 2026 Enacted
<b>72,110,000</b>	<b>\$77,841,000</b>	<b>+\$5,731,000</b>

- |  |  |  |
|--|--|--|
| <ul style="list-style-type: none"> <li>• Conduct operations of DUF6 conversion facility.</li> <li>• Package converted depleted uranium oxide and store on site.</li> <li>• Conduct cylinder surveillance and maintenance to keep material in a safe, stable condition.</li> <li>• Conduct annual plant maintenance outages.</li> <li>• Continue limited plant safety and reliability modifications.</li> </ul> | <ul style="list-style-type: none"> <li>• Conduct cylinder surveillance and maintenance to keep material in a safe, stable condition.</li> <li>• Conduct annual plant maintenance outages.</li> <li>• Conduct operations of DUF6 conversion facility.</li> <li>• Package converted depleted uranium oxide and store on site.</li> </ul> | <ul style="list-style-type: none"> <li>• Increase supports the completion of the cylinder evacuation project.</li> </ul> |
|--|--|--|

- Continue limited progress on cylinder evacuation project that will yield a 10-15% improvement in plant processing efficiency.
- Complete cylinder evacuation project that will yield a 10-15% improvement in plant processing efficiency.

**Overview**

This PBS is within the Uranium Enrichment Decontamination and Decommissioning Fund appropriation.

This PBS scope includes remedial actions due to contamination resulting from the plant's historical uranium enrichment operations, facility decontamination and decommissioning, and surveillance and maintenance activities at the Portsmouth Gaseous Diffusion Plant.

This PBS also includes the design and construction of a capital project, the On-Site Waste Disposal Facility, for disposition of the debris generated from the site-wide cleanup, including debris generated from the decontamination, decommissioning, and demolition of the Gaseous Diffusion Plant. The long-term liability of nuclear facility D&D at the Portsmouth Site is currently estimated to cost \$10 billion and take up to 15 years to complete. Activities funding in FY 2027 will reduce this long-term liability by \$497 million.

The FY 2027 Budget Request of \$487,159,000 supports removal of high-risk radioactively contaminated equipment and hazardous materials from the uranium processing buildings. This includes \$15,000,000 in funding \$2,500,000 for design, \$10,000,000 for construction, and \$2,500,000 for other project cost) for Portsmouth On-Site Waste Disposal Facility CAP 2 (20-U-401), which is being constructed to receive debris from the X-333 Process Building. Additionally, the FY 2027 Budget Request also includes \$1,000,000 in funding \$500,000 for design, \$0 construction, and \$500,000 for other project cost) for the On-Site Waste Disposal Facility CAP 3 (25-U-401) project, which will receive debris from the demolition of the X-330 Process Building and the Balance of Plant Facilities. The mission of these projects is to construct an On-Site Waste Disposal Facility for debris generated from the deactivation and decommissioning of the Portsmouth Gaseous Diffusion Plant and associated facilities and install the final covers for all the cells.

**Activities and Explanation of Changes**

FY 2026 Enacted	FY 2027 Request	Explanation of Changes FY 2027 Request vs FY 2026 Enacted
<b>\$487,106,000</b>	<b>\$496,480,000</b>	<b>+\$9,374,000</b>
<ul style="list-style-type: none"> <li>Continue operations such as utility operations, pump-and-treat operations, waste operations, infrastructure support, environmental monitoring and reporting, surveillance, and maintenance of facilities.</li> <li>Continue reduced On-Site Waste Disposal Facility waste placement operations (Includes Five Unit soil, X-333 Process Building demolition debris)</li> </ul>	<ul style="list-style-type: none"> <li>Continue operations such as utility operations, pump-and-treat operations, waste operations, infrastructure support, environmental monitoring and reporting, surveillance, and maintenance of facilities.</li> <li>Continue reduced On-Site Waste Disposal Facility waste placement operations (Includes Five Unit soil, X-326 Slab, X-710 Facility, X-333)</li> </ul>	<ul style="list-style-type: none"> <li>Increase supports the continued demolition of the X-333 Process Building including soil excavation and On-Site Waste Disposal Facility Operations offset against the reduction in On-Site Waste Disposal Construction.</li> </ul>

and X-330 Process Building deactivation debris).

- Continue reduced demolition of the X-333 Process Building and debris placement in the On-Site Waste Disposal Facility.
- Continue reduced deactivation of the X-330 Process Building.
- Continue reduced X-330 Process Building Demolition Design Plan.
- Continue deactivation and initiate pre-demolition of X-710 located on the Five Unit Plume.
- Continue the new X-555 Electrical Substation and Upgrade of the X-5001 Substation to support Site-Wide Electrical Configuration.
- On-Site Waste Disposal Facility Construction CAP 2 (20-U-401): Complete construction of Cell 3 & 6 Liners for placement of X-333 Process Building demolition debris.
- On-Site Waste Disposal Facility Construction CAP 2 (20-U-401): Complete construction of Valve Houses 3, 6, and 10.
- On-Site Waste Disposal Facility Construction CAP 2 (20-U-401): Complete construction of Interim Leachate Treatment System (Phase II) including installation of second Interim Leachate Treatment System leachate treatment train (B-Train).
- On-Site Waste Disposal Facility Construction CAP 2 (20-U-401): Complete construction of the Impacted

Process Building demolition debris and X-330 Process Building deactivation debris).

- Continue demolition of the X-333 Process Building and debris placement in the On-Site Waste Disposal Facility.
- Further reduce deactivation of the X-330 Process Building.
- Complete deactivation and pre-demolition of X-710 located on the Five Unit Plume.
- Complete demolition of X-710 located on the Five Unit Plume.
- Continue the new X-555 Electrical Substation and Upgrade of the X-5001 Substation to support Site-Wide Electrical Configuration.
- Complete construction and submit CD-4 on the On-Site Waste Disposal Facility CAP 2 (20-U-401) project.
- Continue design of the On-Site Waste Disposal Facility Construction CAP 3 (25-U-401).
- Continue Five Unit plume, X-749A, and X-749/X-120/X-749B excavation for placement in the On-Site Waste Disposal Facility as protective/select layer and engineered fill.
- Construction of the X-749/120 haul road to support soil transportation.
- Infrastructure projects to support roads, culverts and historical records.
- Complete design for the X-749 landfill excavation. Moved from FY26.

Material Transfer Area and prepare for operations.

- On-Site Waste Disposal Facility Construction CAP 2 (20-U-401): Complete installation of second Interim Leachate Treatment System leachate treatment train (B-Train).
- On-Site Waste Disposal Facility Construction CAP 3 (25-U-401): Initiate design and construction of the third On-Site Waste Disposal Facility project.
- Continue Five Unit plume excavation for placement in the On-Site Waste Disposal Facility as engineered fill.

**Portsmouth Contract/Post-Closure Liabilities/Administration (PBS: PO-0103)**

**Overview**

This PBS is within the Uranium Enrichment Decontamination and Decommissioning Fund appropriation.

This PBS supports pending litigation expenses, severance and the administration of post retirement life and medical benefits.

**Activities and Explanation of Changes**

FY 2026 Enacted	FY 2027 Request	Explanation of Changes FY 2027 Request vs FY 2026 Enacted
<b>\$125,000</b>	<b>\$82,000</b>	<b>-\$43,000</b>
<ul style="list-style-type: none"> <li>Continue to provide defense against legal claims filed against the Government and its contractors.</li> <li>Continue record searches in support of legal claims, Freedom of Information Act requests, and requests from both state and Federal regulatory and elected officials.</li> <li>Continue to provide payment into the Portsmouth pension program to remain in compliance with the Employee Retirement Income Security Act, DOE 350.1 and other applicable laws.</li> </ul>	<ul style="list-style-type: none"> <li>Continue to provide defense against legal claims filed against the Government and its contractors.</li> <li>Continue to record searches in support of legal claims, Freedom of Information Act requests, and requests from both state and Federal regulatory and elected officials.</li> <li>Continue to provide payment into the Portsmouth pension program to remain in compliance with the Employee Retirement Income Security Act, DOE 350.1 and other applicable laws.</li> </ul>	<ul style="list-style-type: none"> <li>No significant change.</li> </ul>

**Portsmouth Community and Regulatory Support (PBS: PO-0104)**

**Overview**

This PBS is within the Uranium Enrichment Decontamination and Decommissioning Fund appropriation.

This PBS supports activities to promote active involvement with the state and local stakeholders in the Environmental Management planning and decision-making processes and provides the opportunity for meaningful involvement in managing the cleanup and closure of the site.

**Activities and Explanation of Changes**

FY 2026 Enacted	FY 2027 Request	Explanation of Changes - FY 2027 Request vs FY 2026 Enacted
<b>\$3,435,000</b>	<b>\$3,425,000</b>	<b>-\$10,000</b>
<ul style="list-style-type: none"> <li>• Support oversight activities of the Ohio Environmental Protection Agency, including air monitoring by Ohio Environmental Protection Agency and Ohio Department of Health.</li> <li>• Support the designated Site-Specific Advisory Board.</li> <li>• Supported the Payment-in-Lieu of Taxes to Pike County.</li> <li>• Support technical/scientific activities for the Ohio University.</li> <li>• Support community outreach grants for the local area.</li> </ul>	<ul style="list-style-type: none"> <li>• Support oversight activities of the Ohio Environmental Protection Agency, including air monitoring by Ohio Environmental Protection Agency and Ohio Department of Health.</li> <li>• Support the designated Site-Specific Advisory Board.</li> <li>• Support the Payment-in-Lieu of Taxes to Pike County.</li> <li>• Support technical/scientific activities for the Ohio University.</li> <li>• Support community outreach grants for the local area.</li> </ul>	<ul style="list-style-type: none"> <li>• No significant change.</li> </ul>

**20-U-401 On-Site Waste Disposal Facility – Remaining Infrastructure and Cell 2, 3 and 6 Liner  
Construction  
Portsmouth Gaseous Diffusion Plant, Piketon, Ohio  
Project is for Design and Construction**

**1. Summary, Significant Changes, and Schedule and Cost History**

**Summary**

The FY 2027 Request for the On-Site Waste Disposal Facility – Remaining Infrastructure & Cell 2, 3, & 6 Liner Capital Asset Project #2 (CAP 2) Construction Project is \$15,000,000 (\$12,500,000 TEC; \$2,500,000 OPC). The appropriated funding and Congressional control point for this project are at the 20-U-401 (TPC) level. In FY 2027, funding will support the completion of the CAP 2 CD-4 documentation. In addition, the FY27 funding is planned to be available to address potential cost and schedule impacts from wrap-up work in FY26. The requested funding is consistent with the approved Project Execution Plan and the approved Critical Decision (CD)-1/2/3 baseline for the project. CAP 2 is planned to be completed ahead of the CD-2 approved CD-4 date of September 2027.

The CAP 2 project provides the disposal cell capacity for the demolition of the next Process Building (X-333) in the Portsmouth D&D Project. The X-333 Process Building demolition is underway. The Transite from the building is currently being disposed in cell 2. The completion of cells 3 & 6 are still needed to support the demolition of the X-333 Process Building.

The CAP 2 Project was approved for Critical Decision (CD)-1/2/3 on February 25, 2020, with a Total Project Cost of \$373,000,000 at a P80 Confidence Level.

This Project Data Sheet has been prepared and reviewed by the Federal Project Director for the Project. The appointed Federal Project Director is certified at Level III.

**Significant Changes**

This Construction Project Data Sheet is an update to the FY 2026 Congressional Request data sheet and does not include a new start for the budget year.

As of January 2026, the following activities have been completed: construction of Sedimentation Pond 1B; construction of the Impacted Materials Transfer Area (IMTA) liner system; stockpiling of clay material in the Excess Materials Staging Area (EMSA) for use in cell liners construction; construction of the East Maintenance Building and construction of the Pre-Engineered Metal Building (PEMB) which will house the Interim Leachate Treatment System (ILTS) Phase 2; construction of a second 1-million gallon leachate storage tank at the ILTS; construction of the South Leachate Transmission System (LTS) gravity line; below-grade structures for Valve Houses 2, 3, 6, 7, and 10; installation of the South Lift Station for the South LTS; installation of the South LTS Force Main; construction of the Cell 2 Liner System; construction of the Cell 3 Liner System, and construction of the Cell 6 Liner System.

**Environmental Management/  
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Waste Disposal Facility –  
Remaining Infrastructure and Cell 2, 3  
and 6 Liner Construction**

**FY 2027 Congressional Justification**

In addition, the following activities are in process: continued installation of the second leachate treatment train (B-Train) including mechanical, electric, and piping (MEP) components for ILTS-Phase 2, construction of the remaining portion of the IMTA Haul Road, as well as Valve Houses 3, 6, 7, and 10 MEP.

CAP 2 Project field construction is projected to be completed in mid-Fiscal Year 2027.

**Critical Milestone History**

The table below provides the preliminary schedule for Critical Decisions and major milestones for the Remaining Infrastructure and Cell 2, 3, and 6 Liner Construction project.

(fiscal quarter or date)

	CD-0*	Conceptual Design Complete**	CD-1	CD-2	Final Design Complete***	CD-3	Construction D&D Complete	CD-4 ****
FY 2020	4Q FY2019	04/10/2014	4Q FY 2019	4Q FY 2019	4Q FY 2020	4Q FY 2019	N/A	TBD
FY 2021	8/15/2016	04/10/2014	2Q FY 2020	2Q FY 2020	2Q FY 2020	2Q FY 2020	N/A	TBD
FY 2022	8/15/2016	04/10/2014	02/25/2020	02/25/2020	4Q FY 2020	02/25/2020	N/A	4Q FY 2026
FY 2023	8/15/2016	04/10/2014	02/25/2020	02/25/2020	4Q FY 2020	02/25/2020	N/A	4Q FY 2026
FY 2024	8/15/2016	04/10/2014	02/25/2020	02/25/2020	08/10/2020	02/25/2020	N/A	4Q FY 2027
FY 2025	8/15/2016	04/10/2014	02/25/2020	02/25/2020	08/10/2020	02/25/2020	N/A	4Q FY 2027
FY 2026	8/15/2016	04/10/2014	02/25/2020	02/25/2020	08/10/2020	02/25/2020	N/A	4Q FY 2027
FY 2027	8/15/2016	04/10/2014	02/25/2020	02/25/2020	08/10/2020	02/25/2020	N/A	4Q FY 2027

\* The original CD-0 for the On-Site Waste Disposal Facility CAP-2 Project was approved on August 15, 2016.

\*\* Conceptual Design was completed as part of the Site-Wide Waste Disposition Project Remedial Investigation/Feasibility Study development prior to CD-0.

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\*\*\* 100% Design for the entire On-Site Waste Disposal Facility, including the components included in the On-Site Waste Disposal Facility CAP-2 Project, were completed as part of the On-Site Waste Disposal Facility CAP-1 Project (as shown). Before construction of each component is initiated, final Certified for Construction designs for the On-Site Waste Disposal Facility CAP-2 Project are completed. Certified for Construction design takes into account lessons learned from On-Site Waste Disposal Facility CAP-1.

\*\*\*\* The project is on track to complete CD-4 ahead of schedule and under cost.

CD-0 – Approve Mission Need

Conceptual Design Complete – Actual date the conceptual design was completed (if applicable)

CD-1 – Approve Alternate Selection and Cost Range

CD-2 – Approve Performance Baseline

Final Design Complete – Estimated/Actual date the project design will be/was complete(d)

CD-3 – Approve Start of Construction

D&D Complete – Completion of D&D work (see Section 5)

CD-4 – Approve of Start of Operations or Project Completion

### **Project Cost History**

	TEC, Design	TEC, Construction	TEC, Total	OPC Except D&D	OPC D&D	OPC, Total	TPC
FY 2020	7,900	TBD	TBD	TBD	N/A	TBD	TBD
FY 2021	TBD	TBD	TBD	TBD	N/A	TBD	TBD
FY 2022	43,438	297,774	341,212	31,788	N/A	31,788	373,000
FY 2023	43,438	297,774	341,212	31,788	N/A	31,788	373,000
FY 2024	43,438	297,774	341,212	31,788	N/A	31,788	373,000
FY 2025	43,438	297,774	341,212	31,788	N/A	31,788	373,000
FY 2026	43,438	297,774	341,212	31,788	N/A	31,788	373,000
FY 2027	43,438	297,774	341,212	31,788	N/A	31,788	373,000

## **2. Project Scope and Justification**

### **Scope**

The current scope of the On-Site Waste Disposal Facility CAP-2 project consists of construction of the remaining infrastructure for the On-Site Waste Disposal Facility which includes the Interim Leachate Treatment System (ILTS) Phase II, the dedicated haul road, the Impacted Material Transfer Area (IMTA) and other associated miscellaneous support structures. To support and advance the Portsmouth Deactivation and Decommissioning Project mission (i.e., demolition of the next Portsmouth process building [X-333]), it is necessary to include and construct the next three cell liners (i.e., Cells 2, 3 and 6), valve houses and South Leachate Transmission System (i.e., Cells 2, 3 and 6) along with the remaining infrastructure as part of the On-Site Waste Disposal Facility CAP-2 Project. The project developed a combined CD-1/2/3 package which was approved on February 25, 2020.

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Waste Disposal Facility –  
Remaining Infrastructure and Cell 2, 3  
and 6 Liner Construction**

**FY 2027 Congressional Justification**

## **Justification**

The Ohio Environmental Protection Agency and the DOE have entered into a formal agreement regarding the decision-making process for the Portsmouth Deactivation and Decommissioning Project and for the associated waste management. The terms of the agreement are contained in the April 13, 2010, Director's Final Findings and Orders for Removal Action and Remedial Investigation and Feasibility Study and Remedial Design and Remedial Action, including the July 16, 2012, Modification thereto. The Comprehensive Environmental Response, Compensation, and Liability Act process was completed in June 2015, resulting in a Record of Decision selecting a combined on-site and off-site waste disposal approach as the preferred alternative.

This waste disposition response action provides a permanent solution for waste generated by the cleanup of Portsmouth ensuring capacity for waste expected to be generated from the Portsmouth Deactivation and Decommissioning Project that is protective of human health, safety and the environment. Additionally, this action was determined through a feasibility study conducted under the Director's Final Findings and Orders to be the best value to the government in that it provides a cost-effective and implementable solution to the waste disposal needs facing the Portsmouth Deactivation and Decommissioning Project.

The mission need for this project was established by the approval of Mission Need (CD-0) for the On-Site Waste Disposal Facility CAP-1 on August 28, 2015, and the Mission Need (CD-0) for the On-Site Waste Disposal Facility CAP-2 on August 15, 2016. The remaining infrastructure to be constructed within this project is necessary to increase the efficiency and productivity for transportation and waste placement operations for the life cycle of the Portsmouth Deactivation and Decommissioning Project. The advancement of Cell 2, 3, and 6 Liner construction is needed to support the Portsmouth site Deactivation and Decommissioning objectives.

The project is being conducted in accordance with the project management requirements in DOE O 413.3B, *Program and Project Management for the Acquisition of Capital Assets*.

### **Key Performance Parameters**

The Threshold Key Performance Parameters, represent the acceptable performance that the project must achieve. Achievement of the Threshold Key Performance Parameters will be a prerequisite for approval of CD-4, Project Completion. The Objective Key Performance Parameters represent the desired project performance.

<b>Performance Measure</b>	<b>Threshold</b>	<b>Objective</b>
Construct an Interim Leachate Treatment System (ILTS) designed to treat leachate and impacted water from the On-Site Waste Disposal Facility at a max/peak flow rate of 800 gallons per minute (gpm) for discharge to surface waters of the State of Ohio with effluent water quality that meets the standards established by the National Pollutant Discharge Elimination System (NPDES) permit issued by Ohio Environmental Protection Agency.	800 gpm	N/A

**Environmental Management/  
Portsmouth/20-U-401 On Site  
Waste Disposal Facility –  
Remaining Infrastructure and Cell 2, 3  
and 6 Liner Construction**

**FY 2027 Congressional Justification**

### 3. Project Cost and Schedule

#### Financial Schedule

(dollars in thousands)

	Appropriations	Obligations	Costs
<b>[Total Estimated Cost (TEC)]</b>			
<b>Design*</b>			
FY 2020	1,914	1,914	1,914
FY 2021	5,295	5,295	5,295
FY 2022	6,965	6,965	6,965
FY 2023	7,014	7,014	7,014
FY 2023 Internal Reprogramming	0	0	0
FY 2024	6,249	6,249	6,249
FY 2025	6,064	6,064	6,064
FY 2026	5,653	5,653	5,653
FY 2027	2,500	2,500	2,500
<b>Total, Design**</b>	<b>41,654</b>	<b>41,654</b>	<b>41,654</b>
<b>Construction*</b>			
FY 2020	7,577	7,577	3,678
FY 2021	10,970	10,970	14,717
FY 2022	54,845	54,845	45,351
FY 2023	43,473	43,473	52,154
FY 2023 Internal Reprogramming	780	780	780
FY 2024	63,401	63,401	57,901
FY 2025	70,546	70,546	70,793
FY 2026	21,678	21,678	27,896
FY 2027	10,000	10,000	10,000
<b>Total, Construction**</b>	<b>283,270</b>	<b>283,270</b>	<b>283,270</b>
<b>TEC</b>			
FY 2020	9,491	9,491	5,592
FY 2021	16,265	16,265	20,012
FY 2022	61,810	61,810	52,316
FY 2023	50,487	50,487	59,168
FY 2023 Internal Reprogramming	780	780	780
FY 2024	69,650	69,650	64,150
FY 2025	76,610	76,610	76,857
FY 2026	27,331	27,331	33,549
FY 2027	12,500	12,500	12,500
<b>Total, TEC**</b>	<b>324,924</b>	<b>324,924</b>	<b>324,924</b>
<b>[Other Project Cost (OPC)]*</b>			

**Environmental Management/  
Portsmouth/20-U-401 On Site  
Waste Disposal Facility –  
Remaining Infrastructure and Cell 2, 3  
and 6 Liner Construction**

**FY 2027 Congressional Justification**

(dollars in thousands)

	Appropriations	Obligations	Costs
FY 2020	509	509	25
FY 2021	235	235	714
FY 2022	3,425	3,425	3,261
FY 2023	5,553	5,553	5,458
FY 2023 Internal Reprogramming	0	0	0
FY 2024	4,902	4,902	4,658
FY 2025	5,390	5,390	5,635
FY 2026	2,794	2,794	3,057
FY 2027	2,500	2,500	2,500
<b>Total, OPC **</b>	<b>25,308</b>	<b>25,308</b>	<b>25,308</b>
<b>Total Project Cost (TPC)</b>			
FY 2020	10,000	10,000	5,617
FY 2021	16,500	16,500	20,726
FY 2022	65,235	65,235	55,577
FY 2023	56,040	56,040	64,626
FY 2023 Internal Reprogramming	780	780	780
FY 2024	74,552	74,552	68,808
FY 2025	82,000	82,000	82,492
FY 2026	30,125	30,125	36,606
FY 2027	15,000	15,000	15,000
<b>Total, TPC**</b>	<b>350,232</b>	<b>350,232</b>	<b>350,232</b>

\*TEC and OPC funds are appropriated at the Total Project level

\*\* The project is on track to complete CD-4 ahead of schedule and under cost.

#### 4. Details of Project Cost Estimate

(dollars in thousands)

Current Total Estimate	Previous Total Estimate	Original Validated Baseline
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##### Total Estimated Cost (TEC)

###### Design

Design	43,438	43,438	43,438
Contingency	0	0	0
<b>Total, Design</b>	<b>43,438</b>	<b>43,438</b>	<b>43,438</b>

###### Construction

Building & Site Work	281,922	281,922	281,922
D&D	0	0	0
Contingency	15,852	15,852	15,852

**Environmental Management/  
Portsmouth/20-U-401 On Site  
Waste Disposal Facility –  
Remaining Infrastructure and Cell 2, 3  
and 6 Liner Construction**

**FY 2027 Congressional Justification**

(dollars in thousands)

	Current Total Estimate	Previous Total Estimate	Original Validated Baseline
Total, Construction	297,774	297,774	297,774
Total, TEC	341,212	341,212	341,212
Contingency, TEC	15,852	15,852	15,852
Other Project Cost (OPC)			
OPC except D&D			
Conceptual Planning	0	0	0
Cold startup	0	0	0
Other OPC Costs	31,085	31,085	31,085
Contingency	703	703	703
Total, OPC except D&D	31,788	31,788	31,788
D&D (if any)			
D&D	0	0	0
Contingency	0	0	0
Total, D&D	0	0	0
Total, OPC	31,788	31,788	31,788
Contingency, OPC	703	703	703
Total, TPC	373,000	373,000	373,000
Total, Contingency	16,555	16,555	16,555

## 5. Schedule of Appropriation Requests

(Dollars in Thousands)

Request Year		Prior Years	FY 2024	FY 2025	FY 2026	FY 2027	Out-years	Total
FY 2020	TEC	9,400	TBD	TBD	TBD	TBD	TBD	TBD
	OPC	600	TBD	TBD	TBD	TBD	TBD	TBD
	TPC	10,000	TBD	TBD	TBD	TBD	TBD	TBD
FY 2021	TEC	17,800	TBD	TBD	TBD	TBD	TBD	TBD
	OPC	2,200	TBD	TBD	TBD	TBD	TBD	TBD
	TPC	20,000	TBD	TBD	TBD	TBD	TBD	TBD
FY 2022	TEC	86,576	N/A	N/A	N/A	N/A	254,636	341,212
	OPC	5,159	N/A	N/A	N/A	N/A	26,629	31,788
	TPC	91,735	N/A	N/A	N/A	N/A	281,265	373,000
FY 2023	TEC	133,826	N/A	N/A	N/A	N/A	207,386	341,212
	OPC	5,949	N/A	N/A	N/A	N/A	25,839	31,788

**Environmental Management/  
Portsmouth/20-U-401 On Site  
Waste Disposal Facility –  
Remaining Infrastructure and Cell 2, 3  
and 6 Liner Construction**

**FY 2027 Congressional Justification**

	TPC	139,775	N/A	N/A	N/A	N/A	233,225	373,000
FY 2024	TEC	133,826	65,552	93,782	39,591	8,461	N/A	341,212
	OPC	5,949	9,000	9,000	6,300	1,539	N/A	31,788
	TPC	139,775	74,552	102,782	45,891	10,000	N/A	373,000
FY 2023 Internal Reprog.	TEC	134,606	65,552	93,782	39,591	7,681	N/A	341,212
	OPC	5,949	9,000	9,000	6,300	1,539	N/A	31,788
	TPC	140,555	74,552	102,782	45,891	9,220	N/A	373,000
FY 2025	TEC	138,833	67,739	76,000	12,164	46,476	N/A	341,212
	OPC	9,722	6,813	6,000	3,387	5,866	N/A	31,788
	TPC	148,555	74,552	82,000	15,551	52,342	N/A	373,000
FY 2026	TEC	138,833	69,650	76,200	10,300	46,229	N/A	341,212
	OPC	9,722	4,902	5,800	3,700	7,664	N/A	31,788
	TPC	148,555	74,552	82,000	14,000	53,893	N/A	373,000
FY 2027*	TEC	138,833	69,650	76,610	27,331	12,500	16,288	341,212
	OPC	9,722	4,902	5,390	2,794	2,500	6,480	31,788
	TPC	148,555	74,552	82,000	30,125	15,000	22,768	373,000

\*Includes FY 2026 Proposed Re-Alignment

\*\* Residual is anticipated not to be funded or costed on the project

## 6. Related Operations and Maintenance Funding Requirements

<b>Start of Operation or Beneficial Occupancy (fiscal quarter or date)</b>	3Q FY 2025 <sup>1</sup>
<b>Expected Useful Life (duration of waste placement operations)</b>	6-9 years
<b>Expected Future Start of D&amp;D of this Capital Asset (fiscal quarter)</b>	N/A

<sup>1</sup>The first waste disposal cell achieved beneficial occupancy in May of 2025. The remaining components of two additional waste disposal cells and the second treatment train of the ILTS, the completion of the IMTA are still needing to be completed and placed into beneficial occupancy.

(dollars in thousands, \$K)

	Annual Costs*		Life Cycle Costs	
	Current Total Estimate**	Previous Total Estimate	Current Total Estimate***	Previous Total Estimate
Operations	39,620	13,000	298,292	65,000
Utilities	548	330	4,130	1,650
Maintenance	2,212	931	16,653	4,655
Total, Operations & Maintenance	42,380	14,261	319,075	71,305

**Environmental Management/  
Portsmouth/20-U-401 On Site  
Waste Disposal Facility –  
Remaining Infrastructure and Cell 2, 3  
and 6 Liner Construction**

**FY 2027 Congressional Justification**

*\*Post-closure and long-term stewardship activities are not included within this table or anywhere else on this Construction Project Data Sheet.*

*\*\*Cost updated to include all waste placement operations cost at the OSWDF which would include transportation and the placement of waste/debris into the cell.*

*\*\*\*Not all years are at 100% of the annual cost estimate due to concurrent activities performed on 20-U-401 and 25-U-401 in some of the out-years.*

## 7. Required D&D Information

Area	Square Feet
N/A	N/A

This project is providing new capability and is not replacing a current capability; thus, this project was not justified on the basis of replacing current facilities.

The location of this construction project is an environmental management closure site and, therefore, is exempt from the “one-for-one” requirement.

## 8. Acquisition Approach

The acquisition approach for the project continues to have the Prime Contractor execute the work through a combination of self-performed work and subcontracted work with an emphasis on fixed price through competitive bids and the use of consent packages, consistent with current Portsmouth Deactivation and Decommissioning Prime Contract requirements under FAR 44. Title III design scope is planned to be, in part, subcontracted through a competitively-awarded contract with an independent Architectural and Engineering firm.

**25-U-401 On-Site Waste Disposal Facility Cell 7 – 10 Liners and Cell 1-6 Covers Construction Project  
(LI/CAP 3)  
Portsmouth Gaseous Diffusion Plant, Piketon, Ohio  
Project for Design and Construction**

**1. Summary, Significant Changes, and Schedule and Cost History**

**Summary**

The FY 2027 Request for On-Site Waste Disposal Facility Cell 7 – 10 Liners and Cell 1-6 Covers Construction Project (LI/CAP 3) is \$1,000,000 (\$500,000 TEC; \$500,000 OPC). The appropriated funding and Congressional control point for this project will be at the 25-U-401 (TPC) level. In FY 2027, the funds will be utilized for Certified for Construction (CFC) design, and procurement planning.

On-Site Waste Disposal Facility CAP 1 (15-U-408) provided the disposal capacity for the X-326 building demolition debris. On-Site Waste Disposal Facility CAP 2 (20-U-401) provides the capacity for the next Process Building (X-333) planned to start demolition in FY 2025. The On-Site Waste Disposal Facility CAP 3 (25-U-401) provides for capacity of the final Process Building (X-330) along with many of the Balance of Plant facilities.

The CAP 3 project was approved for CD-0R on November 27, 2024. The CD-0R projected Rough Order of Magnitude cost estimate range is \$464,000,000 - \$655,000,000 and the schedule range for construction completion range is FY 2035 – FY 2037.

This Project Data Sheet has been prepared and reviewed by the Federal Project Director for the Project. The appointed Federal Project Director is certified at Level III.

**Significant Changes**

A revised CD-0 (CD-0R) was approved by DOE-EM on November 27, 2024. CD-0R refined the scope to be included in CAP 3 to include the construction of Cells 7 - 10 as well as the Final Cell Cover Systems for Cells 1 - 6.

A follow-on Congressional Line Item (LI) capital asset project (CAP 4), beyond LI/CAP-3, i.e., On-Site Waste Disposal Facility Final Liner Buildout and Cell Cover Construction Project (LI/CAP-4) will be required to conclude the OSWDF construction and closure. The follow-on LI/CAP- 4 will include the final cover system for Cells 7-10 and, if needed, provide additional disposal capacity with the construction of an additional two cells (Cell 11 and Cell 12), currently designated as contingency (optional) cells and their final cover system. The follow-on capital asset project, LI/CAP-4, is planned to be the fourth and final capital asset project for the Portsmouth OSWDF.

This Construction Project Data Sheet is an update to the FY 2026 Congressional Request data sheet and does not include a new start for the budget year.

## Critical Milestone History

The table below provides the preliminary schedule for Critical Decisions and major milestones for Liners Buildout and Final Cover System Construction Project.

	CD-0	Conceptual Design Complete*	Final Design Complete*	CD-0R	CD-1/2/3	Construction D&D Complete	CD-4
FY 2025	07/26/2023	04/10/2014	02/12/2019	N/A	4Q FY 2024	N/A	TBD
FY 2026	07/26/2023	04/10/2014	02/12/2019	11/27/24	TBD	N/A	TBD
FY 2027	07/26/2023	04/10/2014	02/12/2019	11/27/24	TBD	N/A	TBD

\* Regulatory 60% Conceptual Design was completed as part of the Site-Wide Waste Disposition Project Remedial Investigation/Feasibility Study development prior to CD-0.

\*\* 100% Design for the entire OSWDF, including the components included in the OSWDF CAP 3 Project, were completed as part of the OSWDF CAP 1 Project (as shown). Before construction of each component is initiated, final Certified for Construction designs are completed. Certified for Construction designs take into account lessons learned from OSWDF CAP 1 and CAP 2.

## Project Cost History

	TEC, Design	TEC, Construction	TEC, Total	OPC Except D&D	OPC D&D	OPC, Total	TPC
FY 2025	TBD	TBD	TBD	TBD	0	TBD	TBD
FY 2026	TBD	TBD	TBD	TBD	0	TBD	TBD
FY 2027	TBD	TBD	TBD	TBD	0	TBD	TBD

## 2. Project Scope and Justification

### Scope

On-Site Waste Disposal Facility CAP 1 (15-U-408) provided the disposal capacity for the X-326 building demolition debris. On-Site Waste Disposal Facility CAP 2 (20-U-401) provides the capacity for the next Process Building (X-333) which initiated demolition in FY 2025.

The On-Site Waste Disposal Facility CAP 3 (25-U-401) provides for four additional cells to meet the OSWDF design of 10 cells. This additional disposal capacity is to address capacity of the final Process Building (X-330), along with many of the Balance of Plant facilities. In addition, OSWDF CAP 3 includes the installation of final covers for cells 1 through 6.

The OSWDF design has allowed for a CAP 4 project. The CAP 4 project will construct up to 2 additional contingency cells, if they are needed. In addition, the CAP 4 will complete the installations of final covers for remaining cells.

## Justification

The Ohio Environmental Protection Agency and the DOE have entered into a formal agreement regarding the decision-making process for the Portsmouth Deactivation and Decommissioning Project and for the associated waste management. The terms of the agreement are contained in the April 13, 2010, Director's Final Findings and Orders for Removal Action and Remedial Investigation and Feasibility Study and Remedial Design and Remedial Action, including the July 16, 2012, Modification. The Comprehensive Environmental Response, Compensation, and Liability Act process was completed in June 2015, resulting in a Record of Decision selecting a combined on-site and off-site waste disposal approach as the preferred alternative.

This waste disposition response action provides a permanent solution for waste generated by the cleanup of Portsmouth ensuring capacity for waste expected to be generated from the Portsmouth Deactivation and Decommissioning Project that is protective of human health, safety and the environment. Additionally, this action was determined through a feasibility study conducted under the Director's Final Findings and Orders to be the best value to the government in that it provides a cost-effective and implementable solution to the waste disposal needs facing the Portsmouth Deactivation and Decommissioning Project.

The mission need for this project was established by the approval of Mission Need (Critical Decision-0) for the On-Site Waste Disposal Facility CAP 1 on August 28, 2015, the Mission Need (Critical Decision-0) for the On-Site Waste Disposal Facility CAP 2 on August 15, 2016, the Mission Need (Critical Decision-0) for the On-Site Waste Disposal Facility CAP 3 on July 26, 2023, and the Mission Need CD-0R On-Site Waste Disposal Facility Cell 7 – 10 Liners and Cell 1-6 Covers Construction Project (LI/CAP 3) on November 27, 2024.

The project is being conducted in accordance with the project management requirements in DOE O 413.3B, *Program and Project Management for the Acquisition of Capital Assets*.

### Key Performance Parameters

Performance Measure	Threshold
Performance Measures will be established at the approval of CD-1/2/3	TBD

## 3. Project Cost and Schedule

### Financial Schedule

	Appropriations	Obligations	Costs
[Total Estimated Cost (TEC)]			
Design*			
FY 2026	2,969	2,969	2,444
FY 2027	500	500	500
Outyears	TBD	TBD	TBD
Total, Design	TBD	TBD	TBD
Construction			
FY 2026	0	0	0

**Environmental Management/  
Portsmouth/25-U-401 On Site  
Waste Disposal Facility –  
OSWDF Liner Buildout and Final Cover System**

**FY 2027 Congressional Justification**

	Appropriations	Obligations	Costs
FY 2027	0	0	0
Outyears	TBD	TBD	TBD
Total, Construction	TBD	TBD	TBD
TEC			
FY 2026	2,969	2,969	2,444
FY 2027	500	500	500
Outyears	TBD	TBD	TBD
Total, TEC	TBD	TBD	TBD
[Other Project Cost (OPC)]			
FY 2026	906	906	681
FY 2027	500	500	500
Outyears	TBD	TBD	TBD
Total, OPC	TBD	TBD	TBD
Total Project Cost (TPC)			
FY 2026	3,875	3,875	3,125
FY 2027	1,000	1,000	1,000
Outyears	TBD	TBD	TBD
Total, TPC	TBD	TBD	TBD

\* Regulatory 60% Conceptual Design was completed as part of the Site-Wide Waste Disposition Project Remedial Investigation/Feasibility Study development prior to CD-0.

#### 4. Details of Project Cost Estimate

(dollars in thousands)

Current Total Estimate	Previous Total Estimate	Original Validated Baseline
------------------------	-------------------------	-----------------------------

#### Total Estimated Cost (TEC)

Design			
Design	TBD	TBD	N/A
Contingency	0	0	N/A
Total, Design	TBD	TBD	N/A
Construction			
Building & Site Work	TBD	TBD	N/A

(dollars in thousands)

	Current Total Estimate	Previous Total Estimate	Original Validate d Baseline
D&D	0	0	N/A
Contingency	TBD	TBD	N/A
Total, Construction	TBD	TBD	N/A
Total, TEC	TBD	TBD	N/A
Contingency, TEC	TBD	TBD	N/A
Other Project Cost (OPC)			
OPC except D&D			
Conceptual Planning	0	0	N/A
Cold startup	0	0	N/A
Other OPC Costs	TBD	TBD	N/A
Contingency	TBD	TBD	N/A
Total, OPC except D&D	TBD	TBD	N/A
D&D (if any)			
D&D	0	0	N/A
Contingency	0	0	N/A
Total, D&D	0	0	N/A
Total, OPC	TBD	TBD	N/A
Contingency, OPC	TBD	TBD	N/A
Total, TPC	TBD	TBD	N/A
Total, Contingency	TBD	TBD	N/A

## 5. Schedule of Appropriation Requests

(Dollars in Thousands)

Request Year		Prior Years	FY 2025	FY 2026	FY 2027	Outyears	Total
FY 2025	TEC	0	2,855	TBD	TBD	TBD	TBD
	OPC	0	3,020	TBD	TBD	TBD	TBD
	TPC	0	5,875	TBD	TBD	TBD	TBD
FY 2026	TEC	0	0	16,220	TBD	TBD	TBD
	OPC	0	0	3,780	TBD	TBD	TBD
	TPC	0	0	20,000	TBD	TBD	TBD
FY 2027	TEC	0	0	2,969	500	TBD	TBD
	OPC	0	0	906	500	TBD	TBD
	TPC	0	0	3,875	1,000	TBD	TBD

## 6. Related Operations and Maintenance Funding Requirements

Start of Operation or Beneficial Occupancy (fiscal quarter or date)	TBD
Expected Useful Life (duration of waste placement operations)	TBD
Expected Future Start of D&D of this Capital Asset (fiscal quarter)	N/A

(dollars in thousands, \$K)

	Annual Costs*		Life Cycle Costs	
	Current Total Estimate**	Previous Total Estimate	Current Total Estimate***	Previous Total Estimate
Operations	TBD	TBD	TBD	TBD
Utilities	TBD	TBD	TBD	TBD
Maintenance	TBD	TBD	TBD	TBD
Total, Operations & Maintenance	TBD	TBD	TBD	TBD

*\*Post-closure and long-term stewardship activities are not included within this table or anywhere else on this Construction Project Data Sheet.*

*\*\*Cost updated to include all waste placement operations cost at the OSWDF which would include transportation and the placement of waste/debris into the cell.*

*\*\*\*Not all years are at 100% of the annual cost estimate due to concurrent activities performed on 20-U-401 and 25-U-401 in some years.*

## 7. Required D&D Information

Area	Square Feet
N/A	N/A

This project is providing a new capability and is not replacing a current capability; thus, this project was not justified on the basis of replacing current facilities.

The location of this construction project is an environmental management closure site and, therefore, is exempt from the “one-for-one” requirement.

## 8. Acquisition Approach

The acquisition approach for the project continues to have the Prime Contractor execute the work through a combination of self-performed work and subcontracted work with an emphasis on fixed price through competitive bids and the use of consent packages, consistent with current Portsmouth Deactivation and Decommissioning Prime Contract requirements under FAR 44. Title III design scope is planned to be, in part, subcontracted through a competitively awarded contract with an independent Architectural and Engineering firm.

## **Richland**

### **Overview**

The cleanup of the Hanford Site supports the Department of Energy in meeting the challenges of the nation's Manhattan Project and Cold War environmental legacy responsibilities. Based on current estimates (as of 2025), the Office of Environmental Management (EM) is responsible for addressing \$270 billion in identified clean-up liability at the Hanford site—roughly 65 percent of the \$418 billion total liability across all EM sites. Successful implementation of current plans and milestones would result in completion of the identified clean-up mission at the Hanford site in 2086 with long term stewardship through 2130 to 2140 timeframe. The cited dollars for liability are in FY 2025 constant dollars. The Hanford Field Office consists of two budget elements: 1) Richland Operations, which manages cleanup of the non-tank waste elements of the Hanford Site and provides site services for the entire Hanford Site, and 2) River Protection, where primary responsibility is to retrieve and immobilize tank waste and prepare for permanent and ultimate decommissioning of the tank and related treatment facilities.

The Hanford Site was established during World War II to produce plutonium for the nation's nuclear weapons. The Hanford mission is now primarily site cleanup and environmental restoration to protect the public and the environment (e.g., groundwater, Columbia River, etc.).

As part of the Richland budget request, Hanford site-wide services support the continuation of day-to-day operations throughout Hanford Site. Areas of focus include delivery of electrical and water utilities, roads, sewer systems, maintenance and repair of aging infrastructure; fire protection and emergency management services; site-level safety program, environmental program, and training program; business services; information management; Hazardous Materials Management and Emergency Response (HAMMER) training program; DOE directive compliance, reliability projects; and B Reactor base operations, maintenance and curation.

Specifically, safeguards and security funds core mission security activities which develop and implement security programs to ensure appropriate protection of Category I, II, III, & IV Special Nuclear Material, classified matter, government property, including protection, control and accountability of materials, the physical security of property facilities at the Hanford Site, as well as cyber security solutions at the enterprise level.

The Richland budget element preserves and provides public access to the B Reactor National Historic Landmark and several other historic facilities as part of the Manhattan Project National Historical Park, which is co-administered by the Department of Energy and the National Park Service.

The Department is working to reduce the footprint at the Hanford Site and has realized significant cleanup momentum over the past several years. As such, efforts continue towards completing cleanup along the Columbia River Corridor and transitioning the Central Plateau of the Hanford Site to a modern, protective waste management operation, thereby reducing the risks to workers, the community, and the environment.

Direct maintenance and repair activities at the Hanford Site are estimated to be \$259,437,900 in FY 2027.

The Richland Office plans to purchase the following vehicles in FY 2027: New Fire apparatus – Fire Engine Wildland Type 3 (7 each); Fire Engine Pumper Truck Type I (2 each); Fire Engine Ladder Truck Type I (1 each); Ambulance Type I (5 each); Fire Engine Wildland Type 5 (4 each); Fire Engine Water Tender (1 each);

Fire Engine Aerial Platform (1 each); Fire Truck Rescue (1 each). The total estimated cost for the listed equipment is \$20,580,000.

### **Highlights of the FY 2027 Budget Request**

The Richland budget supports risk reduction activities, including support to the tank waste mission, as well as waste site and facility remediation. The Hanford Site services and safeguards and security reflect EM's role as the site landlord. These efforts across the Hanford Site also include non-tank related minor construction projects, maintenance and repair activities, line-item capital construction projects, upgrades and/or repairs to roads and transportation services; electrical and water services; facility maintenance; network and software engineering; physical and cyber security, and information technology, and records management.

### **FY 2026 – FY 2027 Key Milestones/Outlook**

The following list represents key milestones included in the Tri-Party Agreement for performance in FY 2026 and FY 2027.

- (November 2025) M-016-85A, Complete remote excavation of 300-296 waste site (subject to renegotiation).
- (December 2025) M-024-76, Completed Construction of all wells listed for CY25 and before.
- (December 2025) M-035-11 Made Documents/Records/Data Accessible for 6 CWC Buildings and 222-S DMWSA.
- (December 2025) M-035-14 Made Documents/Records/Data Accessible for the LERF/ETF TSD.
- (February 2026) M-015-110E, Transmitted 200-DV-1 Operable Unit Laboratory Treatability Test Report to Ecology.
- (March 2026) M-092-20A, Submitted to Ecology a disposition pathways evaluation for the Cesium and Strontium capsules.
- (March 2026) M-035-09O, Conducted Biennial Assessments of Information and Data Access Needs
- (June 2026) M-024-58S, Initiate Discussions of Well Commitments.
- (June 2026) M-015-00, Complete the Remedial Investigation/Feasibility Study (or RFI/CMS) Process for all Non-Tank Farm Operable Units except for Canyon/Associated Past Practice Waste Site Operable Units covered under M-85-00.
- (August 2026) M-016-210, Submit PMR with 90% design for final landfill cover, including closure schedule for NRDWL and SWL.
- (September 2026) M-085-90, Submit Remedial Investigation/Feasibility Study Work Plan for 200-CR-1 to EPA.
- (June 2026) M-016-87C, Submit Annual Evaluation of Results of Enhanced Monitoring Near 618-11 Burial Ground.
- (December 2026) M-024-77, Complete Construction of all wells listed for CY26 and before.
- (June 2027) M-024-58T, Initiate Discussions of Well Commitments.
- (June 2027) M-016-87D, Submit Annual Evaluation of Results of Enhanced Monitoring Near 618-11 Burial Ground.

### **Regulatory Framework**

The U. S. Department of Energy, the U. S. Environmental Protection Agency (EPA), and the State of Washington Department of Ecology signed a comprehensive cleanup and compliance agreement on May 15, 1989. The Hanford Federal Facility Agreement and Consent Order, or Tri-Party Agreement, is an agreement for achieving compliance with the Comprehensive Environmental Response, Compensation, and Liability Act remedial action provisions along with the Resource Conservation and Recovery Act.

## **Contractual Framework**

Program planning and management at the Hanford Field Office is conducted through the issuance and execution of contracts to large and small businesses. The Hanford Field Office develops near-and long-term planning approaches to develop contract strategies and program/project plans at a more detailed level. Selected contractors then execute these plans to complete cleanup in accordance with the terms of the contracts.

Current prime contracts supporting the Richland mission are:

- The Central Plateau Cleanup Contract is an Indefinite Delivery, Indefinite Quantity contract that provides for an indefinite quantity of services for a fixed time. This contract structure allows the Department of Energy to achieve significant risk and financial liability reduction that provides the best overall optimal solution to Hanford Site completion and closure. Task orders to achieve specific end states (cleanup completion objectives) can be issued for periods of up to five years and can be issued at any time during the ordering period. The contract is one of the first Environmental Management and state contracts in the Department of Energy complex. The contract was awarded on December 12, 2019, and the 10-year ordering period lasts through December 11, 2029. Performance of all Task Orders issued before the end of the Contract ordering period shall not exceed five (5) years beyond the end of the Contract ordering period.
- The Hanford Mission Essential Services Contract is a cost-plus-award-fee contract for site infrastructure and site security services in support of Hanford Site cleanup, with an Indefinite Delivery Indefinite Quantity component to facilitate specialized task orders. This contract was awarded on December 5, 2019. This contract has a base period of performance from January 25, 2021, through September 30, 2025, with one three-year option and one two-year option.
- The Hanford Occupational Medical Services Contract is a hybrid contract for Hanford Site occupational medical services that includes firm-fixed price with cost reimbursement and an Indefinite Delivery Indefinite Quantity component to facilitate specialized task orders. This contract was awarded on October 19, 2023. Inomedic Health Application, Inc. began the new contract on December 15, 2023. This contract has a three-year base period of December 15, 2023, to August 15, 2026, and two 24-month option periods.

## **Strategic Management**

The Hanford mission includes eliminating hazards on the site, including those near the Columbia River, by cleaning up the Central Plateau and River Corridor and treating contaminated groundwater near the Columbia River. The work will ultimately reduce the active cleanup footprint to 75 square miles in the center of the site, reduce overhead costs and reduce cleanup mortgages. The Hanford mission is also guided by the Hanford Federal Facility Agreement and Consent Order, known as the Tri-Party Agreement established on May 15, 1989. To ensure the Hanford clean-up mission is accomplished, site wide services provide day-to-day business operations, which enable the cleanup of Central Plateau and River Corridor activities, tank waste retrievals and Direct-Feed Low Activity Waste activities.

**Richland**

**Funding (\$K)**

FY 2025 Enacted	FY 2026 Enacted	FY 2027 Request	FY 2027 Request vs FY 2026 Enacted	
			\$	%

**Defense Environmental Cleanup  
Hanford Site**

**Central Plateau Remediation**

RL-0013C / Solid Waste  
Stabilization and Disposition- 2035

Operating	201,000	245,000	199,000	-46,000	-19%
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Construction

24-D-401: Environmental

Restoration Disposal Facility

Supercell 11 Expansion Project

25,000	35,000	0	-35,000	-100%
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226,000	280,000	199,000	-81,000	-29%
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RL-0030 / Soil and Water  
Remediation-Groundwater/Vadose  
Zone - 2035

142,475	135,439	132,000	-3,439	-3%
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RL-0201 / Hanford Site Wide  
Services

Operating	453,525	463,333	464,124	+791	0%
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Construction

22-D-401: Eastern Plateau Fire  
Station

13,500	3,900	0	-3,900	-100%
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22-D-402: 200 Area Water  
Treatment Facility

7,800	1,000	0	-1,000	-100%
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23-D-405: 181B Export Water  
System Reconfiguration and  
Upgrade

1,168	0	0	+0	0%
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26-D-403 200 East Potable Water  
Tank Replacement

0	6,518	0	-6,518	-100%
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**Environmental Management/  
Richland**

	475,993	474,751	464,124	-10,627	-2%
<b>Subtotal, Central Plateau Remediation</b>	<b>844,468</b>	<b>890,190</b>	<b>795,124</b>	<b>-95,066</b>	<b>-11%</b>
<b>Richland Community and Regulatory Support</b>					
RL-0100 / Richland Community and Regulatory Support	11,130	10,700	12,000	+1,300	+12%
<b>River Corridor and Other Cleanup Operations</b>					
RL-0040 / Nuclear Facility D&D-Remainder of Hanford - 2035	43,000	41,000	42,000	+1,000	+2%
RL-0041 / Nuclear Facility D&D-River Corridor Closure Project	112,000	110,000	27,000	-83,000	-75%
<b>Subtotal, River Corridor and Other Cleanup Operations</b>	<b>155,000</b>	<b>151,000</b>	<b>69,000</b>	<b>-82,000</b>	<b>-54%</b>
<b>Total, Hanford Site</b>	<b>1,010,598</b>	<b>1,051,890</b>	<b>876,124</b>	<b>-175,766</b>	<b>-17%</b>
<b>Safeguards and Security</b>					
RL-0020 / Safeguards and Security	119,766	119,766	130,000	+10,234	+9%
<b>Total, Defense Environmental Cleanup</b>	<b>1,130,364</b>	<b>1,171,656</b>	<b>1,006,124</b>	<b>-165,532</b>	<b>-14%</b>
<b>Non-Defense Environmental Cleanup</b>					
<b>Fast Flux Test Reactor Facility D&amp;D</b>					
<b>Fast Flux Test Reactor Facility D&amp;D</b>					
RL-0042 / Nuclear Facility D&D-Fast Flux Test Facility Project	3,200	3,200	3,200	+0	0%
<b>Total, Richland</b>	<b>1,133,564</b>	<b>1,174,856</b>	<b>1,009,324</b>	<b>-165,532</b>	<b>-14%</b>

**Richland**  
**Explanation of Major Changes (\$K)**

<b>FY 2026 Enacted</b>	<b>FY 2027 Request</b>	<b>FY 2027 Request vs FY 2026 Enacted</b>
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**Defense Environmental Cleanup**

**Hanford Site**

**Central Plateau Remediation**

**RL-0013C / Solid Waste Stabilization and Disposition- 2035**

- The decrease represents the completion of the excavation and substantial progress on construction for Environmental Restoration Disposal Facility Supercell 11 and a temporary hold on the TRU repackaging, certification and shipping with follow-on activities to be scheduled at a future date.

280,000      199,000      -81,000

**RL-0030 / Soil and Water Remediation-Groundwater/Vadose Zone - 2035**

- The decrease reflects completion of 200-IA-1 and 200-BC-1 characterization that supports progress toward the completion of the final Records of Decision. Also represents a temporary hold on the activities that support Records of Decision with follow-on activities scheduled for a future date.

135,439      132,000      -3,439

**RL-0201 / Hanford Site Wide Services**

- The decrease reflects the postponement of construction efforts for the following capital projects: replacement of the existing 200E 1.1-million-gallon potable water tank (L-849), export water system upgrade (L-781), Central Plateau Electrical Capacity upgrade (EU-002).

474,751      464,124      -10,627

**Richland Community and Regulatory Support**

**RL-0100 / Richland Community and Regulatory Support**

- The increase is an escalation of Payment in Lieu of Taxes, Washington and Oregon Grants, and the Hanford Advisory Board support contract cost.

10,700      12,000      +1,300

**River Corridor and Other Cleanup Operations**

**RL-0040 / Nuclear Facility D&D-Remainder of Hanford - 2035**

- The increase represents the transfer of facility D&D to surveillance and maintenance until a future date when Central Plateau Remediation resumes.

41,000      42,000      +1,000

**RL-0041 / Nuclear Facility D&D-River Corridor Closure Project**

- The decrease represents temporary hold on the 100K area ancillary facility demolition and waste site remediation with follow-on activities scheduled following 105KW Basin demolition at a future date. Also represents temporary hold on the 324 Bldg. deactivation activities with follow-on activities scheduled for a future date.

110,000      27,000      -83,000

**Safeguards and Security**

**RL-0020 / Safeguards and Security**

- Increase will support additional contractor protective force labor funds due to rate increases; funds required for year 2 of DOE O 205.1C and E.O. 14028 implementation but will also support initial implementation of DOE O 205.1D and 205.1E into site contracts. Year 2 of implementation plan for compliance with DOE O 474.2A Nuclear Material Control and Accountability, including re-enrollment of an additional 2,000-4,000 containers identified in FY2025. Additional HSPD-12 compliance, including vetting additional new hires upon availability of federal resources to adjudicate investigations, and enrollment of non-cleared personnel in Continuous Evaluation. Additional Physical Security requirements and lifecycle replacement of Perimeter Intrusion Detection and Assessment System (PIDAS) equipment protecting Category I and II Special Nuclear Material.

119,766      130,000      +10,234

**Non-Defense Environmental Cleanup**

**Fast Flux Test Reactor Facility D&D**

**RL-0042 / Nuclear Facility D&D-Fast Flux Test Facility Project**

- No change.

3,200      3,200      +0

**Total, Richland**

**1,174,856      1,009,324      -165,532**

## Solid Waste Stabilization and Disposition (PBS: RL-0013C)

### Overview

This Project Baseline Summary (PBS) can be found within the Defense Environmental Cleanup appropriation.

The scope of this PBS includes storage and disposal of irradiated nuclear fuel, transuranic waste, mixed hazardous and low-level radioactive waste, and low-level radioactive waste generated at the Hanford Site and other Department of Energy and Department of Defense facilities. The long-term liability of the Solid Waste Stabilization and Disposition project is currently estimated to cost \$24 billion and take up to 75 years to complete. Activities funded in FY 2027 will reduce this long-term liability by \$38 million as progress is made in moving the cesium/strontium capsules from WESF to dry storage. Once the capsules are moved WESF deactivation can move forward to enable reduction of the minimum safe requirements and reduce the long-term liability by \$15 million per year. This PBS also includes storage of the Environmental Management legacy irradiated nuclear fuel in the Canister Storage Building or 200 Area Interim Storage Area and Environmental Restoration Disposal Facility disposal operations. In addition, 1,936 cesium and strontium capsules in wet storage in the Waste Encapsulation and Storage Facility will be transferred to dry storage (beginning in FY 2026 and expected to complete in FY 2028) and retrieval of contact- and remote-handled suspect transuranic waste in the low-level burial grounds will be performed. About 24,000 cubic meters of suspect transuranic waste is to be processed and an estimated 10,000 cubic meters will eventually be shipped (beginning in FY 2028) to the Waste Isolation Pilot Plant in Carlsbad, New Mexico. About 51,000 cubic meters of mixed hazardous and low-level radioactive waste will be treated and disposed of in the mixed waste trenches or other facilities. About 130,000 cubic meters of low-level radioactive waste will be disposed through site closure.

### Activities and Explanation of Changes

FY 2026 Enacted	FY 2027 Request	Explanation of Changes - FY 2027 Request vs FY 2026 Enacted
<b>\$280,000,000</b>	<b>\$199,000,000</b>	<b>-\$81,000,000</b>
<ul style="list-style-type: none"> <li>• Support operations necessary to provide safe and compliant operations of waste storage facilities for the Hanford Site.</li> <li>• Support safe disposal operations of the Environmental Restoration Disposal Facility.</li> <li>• Supports completion of the Environmental Restoration Disposal Facility Supercell 11 excavation and progress on construction.</li> </ul>	<ul style="list-style-type: none"> <li>• Support operations necessary to provide safe and compliant operations of waste storage facilities for the Hanford Site.</li> <li>• Support safe disposal operations of the Environmental Restoration Disposal Facility.</li> <li>• Operate the Integrated Disposal Facility to support Direct-Feed Low-Activity Waste operations.</li> </ul>	<ul style="list-style-type: none"> <li>• The decrease represents the completion of the excavation and substantial progress on construction for Environmental Restoration Disposal Facility Supercell 11 The decrease represents temporary hold on the TRU repackaging, certification and shipping with follow-on activities to be scheduled at a future date.</li> </ul>

- 
- Operate the Integrated Disposal Facility to support Direct-Feed Low-Activity Waste operations.
  - Support progress moving the cesium/strontium capsules from Waste Encapsulation and Storage Facility to dry storage.
  - Supports startup of Contact-Handled Transuranic certification and preparations to begin shipping offsite.
  - Supports planning and design activities for Contact-Handled Transuranic waste repackaging capability.
  - Support progress moving the cesium/strontium capsules from Waste Encapsulation and Storage Facility to dry storage by completing transfer of cesium capsules

## Soil and Water Remediation-Groundwater/Vadose Zone (PBS: RL-0030)

### Overview

This Project Baseline Summary (PBS) can be found within the Defense Environmental Cleanup appropriation.

This PBS scope includes groundwater and vadose zone remediation activities that address groundwater contamination and protection of the groundwater resources on the Hanford Site. The long-term liability of Hanford site soil and groundwater remediation program is currently estimated to cost \$20 billion and take up to 86 years to complete. Activities funded in FY 2027 will reduce this long-term liability by \$132 million.

The principal activities for this PBS include: 1) field characterization to assess the extent of radiological and chemical contamination and contaminants for movement in the vadose zone and groundwater; 2) vadose zone, groundwater and risk assessment modeling and evaluating cumulative impacts to the Hanford groundwater and Columbia River; 3) operation of groundwater remediation systems (treated 38 billion gallons of contaminated groundwater to date and over 2 billion annually the past 11 years) and implementation of alternative methods; 4) installation, maintenance, and decommissioning of wells to maintain an integrated Comprehensive Environmental Response, Compensation, and Liability Act and Resource Conservation and Recovery Act compliant network for monitoring groundwater plumes and for implementing groundwater/vadose zone remedies; 5) regulatory decision-making process for groundwater, waste site, and deep vadose zone remediation along with canyon facility demolition at the Hanford site; and 6) complete final restoration of groundwater on the Hanford Site.

### Activities and Explanation of Changes

FY 2026 Enacted	FY 2027 Request	Explanation of Changes - FY 2027 Request vs FY 2026 Enacted
<b>\$135,439,000</b>	<b>\$132,000,000</b>	<b>-\$3,439,000</b>
<ul style="list-style-type: none"> <li>Continue site-wide groundwater contamination monitoring activities, as well as pump and treat operations of all six Pump and Treat Facilities, including the well realignments and well drilling necessary to effectively remediate groundwater contamination by treating approximately 2 billion gallons.</li> </ul>	<ul style="list-style-type: none"> <li>Continue site-wide groundwater contamination monitoring activities, as well as pump and treat operations of all six Pump and Treat Facilities, including the well realignments and well drilling necessary to effectively remediate groundwater contamination by treating approximately 2 billion gallons.</li> </ul>	<ul style="list-style-type: none"> <li>The decrease reflects completion of 200-IA-1 and 200-BC-1 characterization that supports progress toward the completion of the final Records of Decision. Also represents a temporary hold on the activities that support Records of Decision with follow-on activities scheduled for a future date.</li> </ul>

- Continue the technical integration of site-wide groundwater and vadose zone cleanup activities.
  - Continue Cumulative Impact Evaluation tool execution enabling the evaluation of site-wide groundwater impacts allowing for risk prioritization of waste sites to more efficiently characterize and make final decisions on the Central Plateau.
  - Support monitoring well drilling across all the Operable Units and continues to meet Tri-Party Agreement M-024 Resource Conservation and Recovery Act Well Drilling Commitments.
  - Achieve significant progress towards the completion of the final Record of Decision for the 100-K and 100-N Reactor Areas on the River Corridor and the Central Plateau Inner Area Waste Sites (200-IA-1) and BC Control Area (200-BC-1) Operable Units.
- Continue the technical integration of site-wide groundwater and vadose zone cleanup activities.
  - Continue Cumulative Impact Evaluation tool execution enabling the evaluation of site-wide groundwater impacts allowing for risk prioritization of waste sites to more efficiently characterize and make final decisions on the Central Plateau.
  - Support monitoring well drilling across all the Operable Units and continues to meet Tri-Party Agreement M-024 Resource Conservation and Recovery Act Well Drilling Commitments.

## Hanford Site Wide Services (PBS: RL-0201)

### Overview

This Project Baseline Summary (PBS) can be found within the Defense Environmental Cleanup appropriation.

This PBS scope includes services and projects to ensure safe and secure daily operations on the 586-square-mile Hanford Site. The Richland Operations Office provides these Hanford Site services. These site services support cleanup activities at Hanford Field Office, as well as the science and research mission of the Pacific Northwest National Laboratory, which includes Minor Construction Projects as well as direct maintenance and repair activities that are applicable to these areas. These integrated infrastructure services and projects include, but are not limited to, roads and transportation services; electrical and water services; facility maintenance; network and software engineering; and records management. This scope also includes funding of Cooperative Agreements that support Tribal engagement and consultation with Department of Energy’s cleanup and land management decision-making processes and other areas of interest for Tribes with certain rights at the Hanford Site pursuant to their respective treaties of 1855, including the Confederated Tribes and Bands of the Yakama Nation, the Confederated Tribes of the Umatilla Indian Reservation, and the Nez Perce Tribe, as well as engagement with the Wanapum People, who have direct cultural and ancestral ties at the Hanford Site.

### Activities and Explanation of Changes

FY 2026 Enacted	FY 2027 Request	Explanation of Changes - FY 2027 Request vs FY 2026 Enacted
<b>\$474,751,000</b>	<b>\$464,124,000</b>	<b>-\$10,627,000</b>
<ul style="list-style-type: none"> <li>• Support safe operations and site services necessary to maintain functionality of required site infrastructure; procurement of fire apparatus vehicles for fire protection; emergency management services; physical control of government property and equipment; services including, but not limited to, water and electrical utilities, road and sewer maintenance, and other functions; safety, environmental, health, and training; business services; and information management.</li> </ul>	<ul style="list-style-type: none"> <li>• Support safe operations and site services necessary to maintain functionality of required site infrastructure; procurement of fire apparatus vehicles, fire protection services; emergency management services; physical control of government property and equipment; utility services including water and electrical, road and sewer system maintenance and repair; safety, environmental, health, and training; business services; and information management.</li> </ul>	<ul style="list-style-type: none"> <li>• The decrease in funding reflects the postponement of construction efforts for the following capital projects: replacement of the existing 200E 1.1-million-gallon potable water tank (L-849), export water system upgrade (L-781), Central Plateau Electrical Capacity upgrade (EU-002).</li> </ul>

- Support site infrastructure requirements for Direct Feed Low Activity Waste commissioning and start-up.
- Support non-line-item reliability projects, such as, single-circuit distribution pole replacement phase 2 (L-861), completion of 230Kv transmission system reconfiguration and sustainability (L-612), design and installation of 100B effluent water 42-inch pipe replacement (L-852), while continuing line-Item construction project: Eastern Plateau Fire Station (L-888), design of the Central Plateau Electrical Capacity Upgrade (EU-002), design of the Replacement of 200E 1.1M gallon potable water tank (L-849), and cancellation of Export Water System Reconfiguration and Upgrade (181B) with funds already received.
- Support contracted services for occupational health; Information Technology support; performance assessment activities; records management; and general services such as custodial, land management, regulatory grants, permits, fees, litigation support, additional Tribal engagement and training, National Historic Preservation Act compliance, and rent.
- Support the national historical park mission, B Reactor roof replacement and other preservation efforts, as well as all other operations and maintenance requirements for the B Reactor facility.
- Support site infrastructure requirements for Direct Feed Low Activity Waste operations.
- Support the following non-line-item reliability projects: single-circuit distribution pole replacement phase 2 (L-861), design and installation of 100B effluent water 42-inch pipe replacement (L-852), and the export water west leg replacement between buildings 1901Y and 2901Y, while continuing the line-Item construction project, Eastern Plateau Fire Station (L-888), with funds already received.
- Support contracted services for provision of occupational health and medicine; Information Technology support; performance assessment and audit support activities; records management; and general services such as custodial, land management, regulatory grants, permits, fees, litigation support, additional Tribal engagement, National Historic Preservation Act compliance; and rent.

## Richland Community and Regulatory Support (PBS: RL-0100)

### Overview

This Project Baseline Summary (PBS) can be found within the Defense Environmental Cleanup appropriation.

The scope of this PBS includes stakeholder support and assistance payments. The activities included in this PBS are: 1) grants to Washington State and Oregon State; and 2) funding to support the Hanford Advisory Board and related activities; and 3) Payment In Lieu of Taxes. This PBS scope will end upon completion of the Hanford Environmental Management mission.

### Activities and Explanation of Changes

FY 2026 Enacted	FY 2027 Request	Explanation of Changes - FY 2027 Request vs FY 2026 Enacted
<b>\$10,700,000</b>	<b>\$12,000,000</b>	<b>+\$1,300,000</b>
<ul style="list-style-type: none"><li>Support Washington and Oregon States' emergency preparedness, environmental oversight, and Hanford Advisory Board and payment in lieu of taxes.</li></ul>	<ul style="list-style-type: none"><li>Support Washington and Oregon States' emergency preparedness, environmental oversight, and Hanford Advisory Board and payment in lieu of taxes.</li></ul>	<ul style="list-style-type: none"><li>The increase is an escalation of Payment in Lieu of Taxes, Washington and Oregon Grants, and the Hanford Advisory Board support contract cost.</li></ul>

## Nuclear Facility D&D-Remainder of Hanford (PBS: RL-0040)

### Overview

This Project Baseline Summary (PBS) can be found within the Defense Environmental Cleanup appropriation.

This PBS scope includes implementation of various Hanford Site cleanup initiatives: cleanup of radioactivity and chemical contamination in about 1,300 waste sites (69 waste sites completed to date) with potential impact to groundwater and approximately 1,000 facilities primarily on the Central Plateau (126 demolitions completed to date). The long-term liability of the Nuclear Facility D&D – Remainder of Hanford project is currently estimated to cost \$40 billion and take up to 86 years to complete. Activities funded in FY 2027 are to support minimum safe requirements for this project and will not reduce this long-term liability. Life-cycle work scope includes decontamination, decommissioning, dismantlement, and disposition of surplus facilities (including canyon facilities - B Plant, T Plant, U Plant, Plutonium-Uranium Extraction Plant, and Reduction-Oxidation Plant); remediation of all 200 Area waste sites containing large inventories of contaminants that may migrate into groundwater plumes (includes removal of contaminants or construction of surface barrier caps over waste sites); deactivation and disposition of contaminated equipment; final disposition of Cold War legacy wastes; safe operation of facilities awaiting deactivation and demolition; and maintenance and repair of system infrastructure. Following the assessment activities for the Central Plateau through the remedial decision process under PBS RL-0030, remedial design and implementation will be performed under PBS RL-0040. This PBS scope includes the physical cleanup of these waste sites and facilities.

### Activities and Explanation of Changes

FY 2026 Enacted	FY 2027 Request	Explanation of Changes - FY 2027 Request vs FY 2026 Enacted
<b>\$41,000,000</b>	<b>\$42,000,000</b>	<b>+\$1,000,000</b>
<ul style="list-style-type: none"> <li>Support surveillance and maintenance activities necessary to ensure safety for waste sites and surplus facilities on Hanford's Central Plateau. Also supports project management functions that include Environment, Safety and Health oversight, quality management, safety and job hazards analysis, technical support, and integration with site activities.</li> </ul>	<ul style="list-style-type: none"> <li>Support surveillance and maintenance activities necessary to ensure safety for waste sites and surplus facilities on Hanford's Central Plateau. Also supports project management functions that include Environment, Safety and Health oversight, quality management, safety and job hazards analysis, technical support, and integration with site activities.</li> </ul>	<ul style="list-style-type: none"> <li>The increase represents the transfer of facility D&amp;D to surveillance and maintenance until a future date when Central Plateau Remediation resumes.</li> </ul>

## Nuclear Facility D&D-River Corridor Closure Project (PBS: RL-0041)

### Overview

This Project Baseline Summary (PBS) can be found within the Defense Environmental Cleanup appropriation.

The River Corridor Closure Project addresses the remediation of contaminated soils and facilities adjacent to the Columbia River. The long-term liability of the Nuclear Facility D&D – Remainder of Hanford project is currently estimated to cost \$40 billion and take up to 86 years to complete. Activities funded in FY 2027 are to support minimum safe requirements for this project and will not reduce this long-term liability. This project will remediate waste sites (completed 958 of 1,035 to date); deactivate, decontaminate, decommission, and demolish associated facilities (completed 527 of 668 to date); and place the old production reactors in an interim safe storage condition until a final decision is made addressing reactor disposition (7 of 8 completed to date). Remediation activities are being conducted in accordance with Comprehensive Environmental Response, Compensation, and Liability Act Interim Action Records of Decision. The River Corridor is divided into four major sub-areas: (1) 100 Area, comprised of shutdown plutonium production reactors, support facilities, and burial grounds; (2) 300 Area, comprised of former reactor fuel fabrication, research and development, and support facilities; (3) 400 Area, a support complex comprised of a small number of former maintenance and storage facilities and waste sites located outside of the Fast Flux Test Facility reactor protected area; and (4) 600 Area, comprised of the remaining 618-11 burial grounds located between the 100 and 300 Areas, and vacant land extending from the Columbia River to the Central Plateau in the middle of the Site.

### Activities and Explanation of Changes

FY 2026 Enacted	FY 2027 Request	Explanation of Changes - FY 2027 Request vs FY 2026 Enacted
<b>\$110,000,000</b>	<b>\$27,000,000</b>	<b>-\$83,000,000</b>
<ul style="list-style-type: none"> <li>Provide operations and maintenance support to maintain the K-West Basin, a Category 2 nuclear facility, in a safe and compliant manner, and other 100 K Area surveillance and maintenance activities. Continue to support operations</li> </ul>	<ul style="list-style-type: none"> <li>Provide operations and maintenance support to maintain the K-West Basin, a Category 2 nuclear facility, in a safe and compliant manner and other 100 K Area surveillance and maintenance activities. Continue to support operations necessary to provide safe</li> </ul>	<ul style="list-style-type: none"> <li>The decrease represents temporary hold on the 100K area ancillary facility demolition and waste site remediation with follow-on activities scheduled following 105KW Basin demolition at a future date. Also represents temporary hold on the 324 Bldg.</li> </ul>

**Environmental Management/  
Richland**

**FY 2027 Congressional Justification**

necessary to provide for safe and compliant monitoring of the 324 Building.

- Support progress toward 100K area facility demolition and waste site remediation.
- Support progress toward 324 Building cold and dark.

and compliant monitoring of the 324 Building.

deactivation activities with follow-on activities scheduled for a future date.

## Safeguards and Security (PBS: RL-0020)

### Overview

This Project Baseline Summary (PBS) can be found within the Defense Environmental Cleanup appropriation.

The Safeguards and Security Program support the only Primary Mission Essential Function of the Hanford site, as defined by DOE, which is to protect Special Nuclear Materials. The program also protects people, equipment, information, and facilities in support of Hanford remediation and cleanup programs. These activities provide for overall site access security and protection of personnel and government property as part of EM’s overall responsibility for the 586 square mile Hanford Site.

### Activities and Explanation of Changes

FY 2026 Enacted	FY 2027 Request	Explanation of Changes - FY 2027 Request vs FY 2026 Enacted
<b>\$119,766,000</b>	<b>\$130,000,000</b>	<b>+\$10,234,000</b>
<ul style="list-style-type: none"> <li>• Perform Safeguards and Security programs for the Hanford Site, including protection of Category I Special Nuclear Material, Protection Program Management, Emergency Response, Physical Security, Information Protection, Protective Force, Personnel Security, Cyber Security, and Nuclear Material Control and Accountability.</li> <li>• Support Design Basis Threat based security analysis, Vulnerability Assessment, Security Risk Assessments, and Performance Assurance across all aspects of safeguards and security scope.</li> </ul>	<ul style="list-style-type: none"> <li>• Perform Safeguards and Security programs for the Hanford Site, including protection of Category I Special Nuclear Material, Protection Program Management, Emergency Response, Physical Security, Information Protection, Protective Force, Personnel Security, Cyber Security, and Nuclear Material Control and Accountability.</li> <li>• Support Design Basis Threat-based security analysis, Vulnerability Assessment, Security Risk Assessments, and Performance Assurance across all aspects of safeguards and security scope.</li> <li>• Perform Cyber Security operations in accordance with year 2 of the multi-year plan for compliance with DOE O 205.1C</li> </ul>	<ul style="list-style-type: none"> <li>• Increase will support additional contractor protective force labor funds due to rate increases; funds required for year 2 of DOE O 205.1C and E.O. 14028 implementation but will also support initial implementation of DOE O 205.1D and 205.1E into site contracts.</li> <li>• Year 2 of implementation plan for compliance with DOE O 474.2A Nuclear Material Control and Accountability, including re-enrollment of an additional 2,000-4,000 containers identified in FY2025.</li> <li>• Additional HSPD-12 compliance, including vetting additional new hires upon availability of federal resources to adjudicate investigations, and enrollment</li> </ul>

- Perform Cyber Security operations in accordance with the initiation of a multi-year plan for compliance with DOE O 205.1C and E.O. 14028 cybersecurity requirements,
- Initiate implementation of DOE O 471.7, converting from Official Use Only to Controlled Unclassified Information (CUI); DOE O 473.1A Physical Security; DOE O 474.2A Nuclear Material Control and Accountability, including re-enrollment of 8,000+ containers into the accountability system.
- and E.O. 14028 cybersecurity requirements.
- Conduct HSPD-12 vetting (suitability determination) for next segment of ~9,000 site contractors, according to availability of federal adjudication.
- Continue conversion from Official Use Only to CUI.
- Continue re-enrollment of legacy containers into the accountability system per DOE O 474.2A, Nuclear Material Control and Accountability.
- Initial implementation of DOE O 473.1A, Physical Security, including intrusion detection, network upgrades, repositories, technical security countermeasures, and Level I & II key programs, and other Physical Security requirements and lifecycle replacement of PIDAS equipment.
- of non-cleared personnel in Continuous Evaluation.
- Additional Physical Security requirements and lifecycle replacement of Perimeter Intrusion Detection and Assessment System (PIDAS) equipment protecting Category I and II Special Nuclear Material.

## Nuclear Facility D&D-Fast Flux Test Facility Project (PBS: RL-0042)

### Overview

This Project Baseline Summary (PBS) can be found within the Non-Defense Environmental Cleanup appropriation.

This PBS scope includes deactivation and decommissioning of the Fast Flux Test Facility, a 400-megawatt (thermal) liquid metal (sodium) cooled fast neutron flux nuclear test reactor, and 44 support buildings and structures. The long-term liability of the Nuclear Facility D&D – Remainder of Hanford project is currently estimated to cost \$1 billion and take up to 24 years to complete. Activities funded in FY 2027 are to support minimum safe requirements for this project and will not reduce this long-term liability. The deactivation activities consist of: reactor de-fueling; disposition of 376 reactor fuel assemblies by washing, drying, loading in storage casks and transferring to appropriate storage locations; draining approximately 260,000 gallons of sodium from operating plant systems, reactor vessel, and fuel storage vessels; sodium residual cleaning of all plant systems and vessels; disposition of 260,000 gallons of bulk sodium by conversion to sodium hydroxide for use by the Waste Treatment Plant; and the shutdown of Fast Flux Test Facility auxiliary systems.

The Fast Flux Test Facility Project has completed the sodium drain from the Fast Flux Test Facility to the Sodium Storage Facility, stored the nuclear reactor fuel and placed the facility in long-term surveillance and maintenance.

### Activities and Explanation of Changes

FY 2026 Enacted	FY 2027 Request	Explanation of Changes - FY 2027 Request vs FY 2026 Enacted
<b>\$3,200,000</b>	<b>\$3,200,000</b>	<b>+\$0</b>

- |  |   |  |
|--|---|--|
| <ul style="list-style-type: none"> <li>• Nuclear Facility D&amp;D-Fast Flux Test Facility Project (PBS: RL-0042).</li> </ul> | <ul style="list-style-type: none"> <li>• Nuclear Facility D&amp;D-Fast Flux Test Facility Project (PBS: RL-0042)</li> </ul> | <ul style="list-style-type: none"> <li>• No change.</li> </ul> |
|--|---|--|

## **River Protection**

### **Overview**

The U.S. Department of Energy supports the cleanup of radioactive and chemical waste resulting from the Manhattan Project and Cold War activities. The mission of this element of the Department's Hanford Field Office is to retrieve radioactive and chemical waste stored in underground tanks at the Hanford Site, treat the waste to standards that are protective of human health and the environment, prepare the waste for permanent disposal, close the tanks, and decommission the treatment facilities. Other site operations, infrastructure support, non-tank remediation and decommissioning, decontamination and demolition activities are supported under the Richland Operations budget element. Based on current estimates, the Office of Environmental Management (EM) is responsible for addressing \$270 billion in identified clean-up liability at the Hanford Site - roughly 65 percent of the \$418 billion total liability across all EM sites. Specifically, River Protection addresses \$181 billion of the long-term liability at the Hanford Site. Successful implementation of current plans and milestones would result in completion of the identified clean-up mission at the Hanford Site in the 2079 with long term stewardship through to 2110 timeframe. The cited dollars for liability are in FY 2025 constant dollars.

The 586-square-mile Hanford Site is located along the Columbia River in southeastern Washington state and is home to the world's first plutonium production complex. More than 40 years of plutonium production also yielded a challenging nuclear waste legacy, approximately 56 million gallons of radioactive and chemical waste stored in 177 underground tanks near the Columbia River. To date, waste retrieval has been completed in 22 single-shell tanks with two in progress.

The Department is committed to treating all Hanford tank waste safely and effectively. The Department successfully began solidifying tank waste in glass via the Direct-Feed Low-Activity Waste approach meeting in October 2025 legal milestone. Treating tank waste continuously and efficiently reduces environmental risks and informs collaboration between the Department and the State of Washington on a safe, viable path forward for all of Hanford's tank waste.

The direct maintenance and repair activities at the Hanford Field Office tank waste mission are estimated to be \$216,900,000 in FY 2027.

### **Transforming Nuclear Restoration and Revitalization with Artificial Intelligence**

As part of the DOE flagship Genesis Mission, EM has established the Transforming Nuclear Restoration and Revitalization with Artificial Intelligence (NR<sup>2</sup>) Initiative. An Artificial Intelligence (AI) Research and Development (R&D) Roadmap was developed by the Savannah River National Laboratory with support of the Network of National Laboratories for Environmental Management and Stewardship during FY 2026. The R&D Roadmap identified focus areas for AI as an enabling technology for accelerating cleanup while reducing costs, risks, and long-term liabilities across EM mission areas focused initially on tank waste. In FY 2027, EM will implement the roadmap recommendations and develop the EM Lighthouse Challenge to accelerate the EM mission, by leveraging the American Science Cloud (AmSC), Transformational AI Models Consortium (ModCon), and AI4NS platform and capabilities. To support EM's 2040 vision, the Lighthouse Challenge will develop full-scale AI foundation models using EM's unparalleled 30+ years of operational data from large-scale nuclear processing facilities (such as the Defense Waste Processing Facility and the Salt Waste Processing Facility at the Savannah River Site) to address deployment challenges and optimize waste treatment facility throughputs (e.g., the Waste Treatment and Immobilization Plant at the Hanford Site), to compress decade-long deployment timelines and significantly reduce the environmental liability.

## Highlights of the FY 2027 Budget Request

The FY 2027 budget request supports continued progress toward important cleanup required by the Amended Consent Decree and Tri-Party Agreement. The budget request is focused on integration and operations of the Direct-Feed Low-Activity Waste system and enhancements of Direct-Feed Low-Activity Waste system capabilities. The request also supports safe operations of the tank farms including a robust Tank Integrity Program and supports development and maintenance of infrastructure necessary to enable waste treatment operations. The request supports continued design, field preparation, and regulatory activities for the 200 West Area tank waste treatment mission, including retrievals and treatment. The work at the Waste Treatment and Immobilization Plant's High-Level Waste Vitrification Facility will also continue to advance facility design and low-risk construction as the design is completed.

Funding is also requested for the following capital projects:

- 15-D-409, Low-Activity Waste Pretreatment System, to support construction of the Advanced Modular Pretreatment System (15-D-409-02). The Advanced Modular Pretreatment System is a follow-on tank waste pretreatment capability to the Tank-Side Cesium Removal Demonstration Subproject (15-D-409-01), which began operations in January 2022.
- 23-D-403, Hanford 200 West Area Tank Farms Risk Management Project, to mitigate risks and add operational capabilities to enable near-term retrievals, treat tank waste, and manage double-shell tank space in the 200 West Area Tank Farms.

## FY 2026 - FY 2027 Key Milestones/Outlook

The following listing represents key milestones included in the Tri-Party Agreement, the Amended Consent Decree, and the August 2022 Agreed Order for performance in FY 2026 and FY 2027.

- (October 2025) D-00A-09; Low-Activity Waste Facility Hot Commissioning (Completed).
- (October 2025) M-045-92AI; Submit Yearly Reports Summarizing the Results of Maintenance and Performance Monitoring Activities (Completed).
- (October 2025) M-062-40K; Select Scenarios for Next System Plan Update (Completed).
- (November 2025) M-045-108; Submit Resource Conservation and Recovery Act Tier 3 Component Closure Plan for the 241-C-301 Catch Tank (Completed).
- (December 2025) M-045-112; Submit Integration Study for Waste Management Area U (Completed).
- (December 2025) M-045-118; Submit Integration Study for Waste Management Area S-SX (Completed).
- (July 2026) M-062-64; Make Alternative Selection for Facilities/Infrastructure for Off-Site Disposal of Low-Activity Waste.
- (June 2026) M-062-60; Submit Disposition Pathways Evaluation for Spent Ion Exchange Columns as Primary Document to Ecology.
- (August 2026) M-062-56; Submit Permit Application for Design and Construction of the Low Activity Waste Pretreatment Capability.
- (September 2026) M-045-103; Submit to Ecology a Permit Modification Request with Tier 2 Resource Conservation and Recovery Act Closure Plan for Waste Management Area A/AX and Schedule for Tier 3 Schedule.

- (October 2026) M-045-92AJ; Submit Yearly Reports Summarizing the Results of Maintenance and Performance Monitoring Activities.
- (October 2026) Submit Retrieval Data Report for Tank AX-101.
- (October 2026) M-062-40L; Submit System Plan to Ecology.
- (December 2026) M-042-10; Complete Tank Integrity Examination of Double-Shell Tank Components to Assess Integrity.
- (December 2026) M-045-109; Submit Resource Conservation and Recovery Act Tier 3 Component Closure Plan for All Remaining Waste Management Area C Ancillary Equipment.
- (December 2026) M-062-65; Submit Critical Path Schedule for Off-Site Disposal of Low-Activity Waste from 200 West Area Single-Shell Tanks.
- (March 2027) A-022-03; Implement Intrusion Response Work Plan/Submit Final Report on Effectiveness of Intrusion Response Actions.
- (March 2027) M-026-07E; Evaluation of Tritium Treatment Technology to Environmental Protection Agency and Ecology.
- (April 2027) M-062-47; Negotiate Tank Waste Retrieval Sequencing and Milestones.
- (June 2027) M-062-66; Complete Negotiations to Establish New Milestones for Off-Site Disposal of Low-Activity Waste.

## **Regulatory Framework**

The Department, the U.S. Environmental Protection Agency, and the Washington State Department of Ecology signed a comprehensive cleanup and compliance agreement on May 15, 1989. The Hanford Federal Facility Agreement and Consent Order, or Tri-Party Agreement, is an agreement for achieving compliance with the Comprehensive Environmental Response, Compensation, and Liability Act remedial action provisions and the Resource Conservation and Recovery Act treatment, storage, and disposal unit regulations and corrective action provisions, subject to the Department's Atomic Energy Act authority. The Tri-Party Agreement is a framework for implementing many of the environmental regulations that apply to Hanford. More specifically, the Tri-Party Agreement includes, but is not limited to cleanup commitments and enforceable milestones to achieve regulatory compliance and remediation.

In addition, the Hanford Field Office's activities must also comply with a federal court Amended Consent Decree that addresses designated Waste Treatment and Immobilization Plant construction and startup activities and retrieval of specified single-shell tanks. This decree was entered into court on October 25, 2010, in the case of State of Washington and Oregon v. United States Department of Energy, No. 08-5085 (E.D. Wash.). The Consent Decree was amended in 2016 (herein the Amended Consent Decree) which pushed out the hot commissioning of the Waste Treatment and Immobilization Plant's Low Activity Waste Vitrification Facility by three years to 2023 and High-Level Waste Vitrification Facility hot commissioning by 14 years to 2033; and Waste Treatment and Immobilization Plant initial operations by 14 years to 2036.

In December 2020, the U.S. District Court Eastern District of Washington issued an order modifying amended Consent Decree documenting method for calculating an extension of several milestones to offset work interruptions due to the coronavirus disease 2019 (COVID-19) concerns and resulting impacts. In July 2022, the United States District Court, Eastern District of Washington issued an order modifying the Amended Consent Decree on the basis that COVID-19 constituted a force majeure event. The order established an extension of the B-2, B-3, A-7, A-8, and A-9 milestones to offset work interruptions due to COVID-19.

In August 2022 the Department and the Washington State Department of Ecology signed an Agreed Order to respond to two leaking underground waste tanks and respond to potential future leaks at the Hanford Site. This Order established a schedule to implement near-term corrective actions and to undertake long-term leak response planning and development as needed to effectively respond to these and any future leaking single-shell tanks at Hanford Site.

In April 2024, the U.S. Department of Energy, Washington State Department of Ecology, and the U.S. Environmental Protection Agency reached an agreement that proposed a realistic and achievable course for cleaning up millions of gallons of radioactive and chemical waste from large, underground tanks at the Hanford Site. Following voluntary, mediated negotiations that began in 2020, also known as Holistic Negotiations, the agencies signed a settlement agreement and proposed new and revised cleanup deadlines in the Tri-Party Agreement and Consent Decree. Changes to milestones and deadlines were finalized in January 2025.

## **Contractual Framework**

Program planning and management at the Hanford Field Office is conducted through the issuance and execution of contracts to large and small businesses. The Hanford Field Office develops near- and long-term planning approaches to develop contract strategies and program/project plans at a more detailed level. Selected contractors then execute these plans to complete cleanup in accordance with the terms of the contracts.

Current contracts supporting the tank-waste mission at the site include the following:

- Bechtel National, Inc., provides the personnel, materials, supplies, and services and otherwise do all the necessary and incidental things to design, construct, and commission the Hanford Tank Waste Treatment and Immobilization Plant. This is a cost-plus award-fee contract, with award and multiple fee incentives. This is a completion contract. The period of performance for this contract is currently December 11, 2000, through March 31, 2026, with expected extension through September 30, 2027. A revised period of performance will be established following completion of 90 percent design of the HLW Facility and negotiations.
- Hanford Tank Waste Operations and Closure LLC are responsible for safely managing and maintaining 177 underground waste tanks, tank waste retrieval, construction and operation of the Tank-Side Cesium Removal and follow-on technology, delivery of feed and operations of the Waste Treatment and Immobilization Plant in the Direct-Feed Low-Activity Waste configuration, and the 200 West Area tank waste treatment mission. The Waste Treatment and Immobilization Plant's operations include the integrated operation of multiple facilities, including the Low-Activity Waste Vitrification Facility, Analytical Laboratory, Effluent Management Facility, and Balance of Facilities (i.e., supporting buildings and utilities). The period of performance for this contract is February 29, 2024, through February 28, 2034. It is an indefinite-delivery/indefinite quantity contract under which cost-reimbursement and/or fixed-price task orders may be issued.
- Hanford Laboratory Management and Integration LLC is responsible for safely managing the Hanford 222-S Laboratory complex that provides Hanford contractors with analytical support, including inorganic chemistry, organic chemistry, radiochemistry and scientific research for the storage and treatment of highly radiological tank waste on the Hanford Site. The 222-S Laboratory contract base period was from January 5, 2021, through January 4, 2026. Option period one is from January 5, 2026, through January 4, 2027, and was exercised in December 2025. Option period two is from January 5, 2027, through January 4, 2028. It is a performance-based contract that includes cost-plus-award-fee and cost reimbursable (non-fee bearing) contract line-item numbers.

The Department continues to focus on treating all Hanford tank waste safely and effectively by continuing to progress the Direct-Feed Low-Activity Waste approach to the near-term vitrification of low-activity tank waste. To that end, the Department is optimizing Direct-Feed Low-Activity waste operations via extended hot commissioning of the Waste Treatment and Immobilization Plant's Low-Activity Waste Vitrification Facility, along with the Effluent Management Facility, Balance of Facilities and Analytical Laboratory.

Work continues to define and procure long-lead consumables and spare parts required to continue operations of the Direct-Feed Low-Activity Waste system. The High-Level Waste Vitrification Facility construction will safely be cordoned off from the Direct-Feed Low-Activity Waste radioactive operational facilities. The Pretreatment Facility will continue to be supported by preservation maintenance activities. The High-Level Waste Vitrification Facility will continue to advance design and focus construction activities on building enclosure.

**River Protection**

**Funding (\$K)**

	FY 2025 Enacted	FY 2026 Enacted	FY 2027 Request	FY 2027 Request vs FY 2026 Enacted	
				\$	%
<b>Defense Environmental Cleanup</b>					
<b>Office of River Protection</b>					
<b>Tank Farm Activities</b>					
ORP-0014 / Radioactive Liquid Tank Waste Stabilization and Disposition					
Operating	847,065	994,000	984,000	-10,000	-1%
15-D-409: Low-Activity Waste Pretreatment System	37,500	50,000	75,000	+25,000	+50%
23-D-403: Hanford 200 West Area Tank Farms Risk Management Project	37,809	37,500	90,000	+52,500	+140%
	<u>922,374</u>	<u>1,081,500</u>	<u>1,149,000</u>	<u>+67,500</u>	<u>+6%</u>
<b>Waste Treatment and Immobilization Plant</b>					
ORP-0060 / Waste Treatment Plant Construction					
01-D-416: Waste Treatment and Immobilization Plant, RL	600,000	611,585	330,000	-281,585	-46%
18-D-16: Waste treatment and immobilization plant LBL/Direct feed LAW	250,000	0	0	+0	0%
	<u>850,000</u>	<u>611,585</u>	<u>330,000</u>	<u>-281,585</u>	<u>-46%</u>
ORP-0070 / Waste Treatment Plant Commissioning	165,003	480,000	466,000	-14,000	-3%
<b>Subtotal, Waste Treatment and Immobilization Plant</b>	<b>1,015,003</b>	<b>1,091,585</b>	<b>796,000</b>	<b>-295,585</b>	<b>-27%</b>
<b>Total, River Protection</b>	<b>1,937,377</b>	<b>2,173,085</b>	<b>1,945,000</b>	<b>-228,085</b>	<b>-10%</b>

**River Protection**  
**Explanation of Major Changes (\$K)**

	<b>FY 2026 Enacted</b>	<b>FY 2027 Request</b>	<b>FY 2027 Request vs FY 2026 Enacted</b>
<b>Defense Environmental Cleanup</b>			
<b>Office of River Protection</b>			
<b>Tank Farm Activities</b>			
<b>ORP-0014 / Radioactive Liquid Tank Waste Stabilization and Disposition</b>			
<ul style="list-style-type: none"> <li>The increase is primarily attributed to the continued ramp up of 200 East Area tank farms and facilities operations, as well as 200 West Area retrievals. Tank-Side Cesium Removal, AP-Farm, 242-A Evaporator, and Effluent Treatment Facility operations in 200 East Area continue to increase to support continuous Direct-Feed Low-Activity Waste operations. SY Tank Farm maintenance and activities to prepare for S, SX, and U Tank Farm retrievals and pretreatment in the 200 West Area will continue to advance. The project will also complete Tank A-106 retrievals and continue Tank A-103 retrievals in the 200 East Area. Construction of Interim Surface Barriers at B and T Tank Farms will also continue to progress.</li> </ul>	1,081,500	1,149,000	+67,500
<b>Waste Treatment and Immobilization Plant</b>			
<b>ORP-0060 / Waste Treatment Plant</b>			
<ul style="list-style-type: none"> <li>The decrease aligns with the 90% design for the high-level waste vitrification facility being ahead of schedule.</li> </ul>	611,585	330,000	-281,585
<b>ORP-0070 / Waste Treatment Plant Commissioning</b>			
<ul style="list-style-type: none"> <li>The decrease in funding supports continued efficient operations of the Waste Treatment and Immobilization Plant's Low-Activity Waste Facility, Analytical Laboratory, Balance of Facilities, and Effluent Management Facility.</li> </ul>	480,000	466,000	-14,000
<b>Total, River Protection</b>	<b>2,173,085</b>	<b>1,945,000</b>	<b>-228,085</b>

## **Radioactive Liquid Tank Waste Stabilization and Disposition (ORP-0014)**

### **Overview**

This Project Baseline Summary (PBS) can be found within the Defense Environmental Cleanup appropriation.

This project includes activities required to manage and stabilize approximately 56 million gallons of radioactive waste stored underground in 177 tanks, including retrieval, treatment, and disposal. To date, waste retrieval has been completed in 22 single-shell tanks with two in progress. Ultimately, most of the waste must be processed to a form suitable for disposal. The long-term liability of radioactive liquid tank waste stabilization and disposition is currently estimated to cost \$166 billion of which \$105 billion is direct work and \$61 billion is contingency and could take up to 52 years to complete. Activities funded in FY 2027 will reduce this long-term liability by \$1,149 million through tank waste retrieval and continued development of treatment capacity to reduce this long-term liability. Hanford's Environmental Liabilities include other contingencies that are not separated by projects but allocated to Hanford site (i.e. funding delay).

This PBS includes planning, design, construction, and operation of new facilities and equipment necessary for waste feed delivery from tank farms to the Waste Treatment and Immobilization Plant. It also includes required operations, maintenance, and upgrades of double-shell tank farms, retrieval operations in single-shell tank farms, and operations of the 242-A Evaporator, the Effluent Treatment Facility, and the 222-S Laboratory to manage the waste, support safe nuclear and environmentally compliant operations at Hanford, and enable Waste Treatment and Immobilization Plant operations.

This project also includes minor construction projects as well as direct maintenance and repair that are applicable to these areas.

**Activities and Explanation of Changes**

FY 2026 Enacted	FY 2027 Request	Explanation of Changes – FY 2027 Request vs FY 2026 Enacted
<b>\$1,081,500,000</b>	<b>\$1,149,000,000</b>	<b>+67,500,000</b>
<p><b>Effluent Treatment Facility operation and maintenance</b></p> <ul style="list-style-type: none"> <li>• Provide treatment and disposal of liquid waste from Hanford Site nuclear waste treatment and remediation processes, including the Hanford K-Basins, tank farms, and the Waste Treatment and Immobilization Plant.</li> <li>• Process liquid inventory to manage space in support of the Hanford mission.</li> <li>• Conduct maintenance activities to support continued use of the Effluent Treatment Facility, including auxiliary buildings.</li> </ul> <p><b>Tank-Side Cesium Removal Operations</b></p> <ul style="list-style-type: none"> <li>• Procure and fabricate additional ion-exchange columns to support Tank-Side Cesium Removal operations.</li> <li>• Complete second campaign of pretreatment of supernatant through the Tank-Side Cesium Removal system in Tank AP-106 for Direct-Feed Low-Activity Waste operations.</li> </ul>	<p><b>Effluent Treatment Facility operation and maintenance</b></p> <ul style="list-style-type: none"> <li>• Provide treatment and disposal of liquid waste from Hanford Site nuclear waste treatment and remediation processes, including the Hanford K-Basins, tank farms, and the Waste Treatment and Immobilization Plant.</li> <li>• Process liquid inventory to manage space in support of the Hanford mission.</li> <li>• Conduct maintenance activities to support continued use of the Effluent Treatment Facility, including auxiliary buildings.</li> </ul> <p><b>Tank-Side Cesium Removal Operations</b></p> <ul style="list-style-type: none"> <li>• Procure and fabricate additional ion-exchange columns to support Tank-Side Cesium Removal operations.</li> <li>• Complete third campaign of pretreatment of supernatant through the Tank-Side Cesium Removal system in Tank AP-106 for Direct-Feed Low-Activity Waste operations.</li> </ul>	<ul style="list-style-type: none"> <li>• The increase is primarily attributed to the continued ramp up of 200 East Area tank farms and facilities operations, as well as 200 West Area retrievals. Tank-Side Cesium Removal, AP-Farm, 242-A Evaporator, and Effluent Treatment Facility operations in 200 East Area continue to increase to support continuous Direct-Feed Low-Activity Waste operations. SY Tank Farm maintenance and activities to prepare for S, SX, and U Tank Farm retrievals and pretreatment in the 200 West Area will continue to advance. The project will also complete Tank A-106 retrievals and continue Tank A-103 retrievals in the 200 East Area. Construction of Interim Surface Barriers at B and T Tank Farms will also continue to progress.</li> </ul>

FY 2026 Enacted	FY 2027 Request	Explanation of Changes – FY 2027 Request vs FY 2026 Enacted
<p><b>Waste Feed Delivery</b></p> <ul style="list-style-type: none"> <li>• Conduct pretreated waste transfers from Tank AP-106 for Low Activity Waste Treatment operations.</li> <li>• Conduct maintenance activities in AP and AW Tank Farms to support Tank-Side Cesium Removal and 242-A Evaporator operations.</li> <li>• Plan for mission execution strategies, including the next System Plan.</li> <li>• Complete double-shell tank transfers to support Tank-Side Cesium Removal and 242-A Evaporator operations.</li> </ul> <p><b>Waste Treatment and Immobilization Plant and Direct-Feed Low-Activity Waste Support</b></p> <ul style="list-style-type: none"> <li>• Support Direct-Feed Low-Activity Waste integration and operations.</li> </ul> <p><b>242-A Evaporator operations</b></p> <ul style="list-style-type: none"> <li>• Complete two evaporator campaigns.</li> </ul> <p><b>Maintenance of Infrastructure and Aging Tanks</b></p> <ul style="list-style-type: none"> <li>• Maintain functionality of critical facilities and equipment to support Direct-Feed Low-Activity Waste operations and the Hanford mission.</li> </ul> <p><b>A Farm Retrievals</b></p> <ul style="list-style-type: none"> <li>• Complete Tank A-102 and initiate Tank A-106 retrieval operations.</li> <li>• Initiate Tank A-103 retrieval operations.</li> </ul>	<p><b>Waste Feed Delivery</b></p> <ul style="list-style-type: none"> <li>• Conduct pretreated waste transfers from Tank AP-106 for Low Activity Waste Treatment operations.</li> <li>• Conduct maintenance activities in AP and AW Tank Farms to support Tank-Side Cesium Removal and 242-A Evaporator operations.</li> <li>• Plan for mission execution strategies, including the next System Plan.</li> <li>• Complete double-shell tank transfers to support Tank-Side Cesium Removal, single-shell tank retrievals, and 242-A Evaporator operations.</li> </ul> <p><b>Waste Treatment and Immobilization Plant and Direct-Feed Low-Activity Waste Support</b></p> <ul style="list-style-type: none"> <li>• Support Direct-Feed Low-Activity Waste integration and operations.</li> </ul> <p><b>242-A Evaporator operations</b></p> <ul style="list-style-type: none"> <li>• Complete two evaporator campaigns.</li> </ul> <p><b>Maintenance of Infrastructure and Aging Tanks</b></p> <ul style="list-style-type: none"> <li>• Maintain functionality of critical facilities and equipment to support Direct-Feed Low-Activity Waste operations and the Hanford mission.</li> </ul> <p><b>A Farm Retrievals</b></p> <ul style="list-style-type: none"> <li>• Complete Tank A-106 retrieval operations.</li> <li>• Continue Tank A-103 retrieval operations.</li> </ul>	

FY 2026 Enacted	FY 2027 Request	Explanation of Changes – FY 2027 Request vs FY 2026 Enacted
<p><b>Tank Closure</b></p> <ul style="list-style-type: none"> <li>• Complete design of the Interim Surface Barrier for B Tank Farm.</li> </ul> <p><b>Tank Farm Integrity Program to prolong the lifespan of aging tanks</b></p> <ul style="list-style-type: none"> <li>• Perform annual visual and ultrasonic tank inspections of double- and single-shell tanks and chemistry controls to maintain structure and integrity of waste storage tanks.</li> <li>• Conduct additional structural analysis to ensure tanks are structurally sound and regulatory compliant.</li> </ul> <p><b>S, SX, and U Tank Farm Retrievals</b></p> <ul style="list-style-type: none"> <li>• Initiate infrastructure design for S-Farm Retrievals.</li> </ul> <p><b>West Area Risk Management (23-D-403)</b></p> <ul style="list-style-type: none"> <li>• Complete preliminary design of the treatment capability.</li> <li>• Achieve Critical Decision-3A approval to conduct long-lead procurements, primarily for pretreatment modules.</li> </ul> <p><b>222-S Laboratory Operations</b></p> <ul style="list-style-type: none"> <li>• <b>Provide analytical services to the Hanford Site</b> in support of Direct-Feed Low-Activity Waste and other site operations.</li> <li>• Continue corrective maintenance and facility improvement projects.</li> </ul>	<p><b>Tank Closure</b></p> <ul style="list-style-type: none"> <li>• Complete construction of evapotranspiration basins for Interim Surface Barrier at B Tank Farm.</li> </ul> <p><b>Tank Farm Integrity Program to prolong the lifespan of aging tanks</b></p> <ul style="list-style-type: none"> <li>• Perform annual visual and ultrasonic tank inspections of double- and single-shell tanks and chemistry controls to maintain structure and integrity of waste storage tanks.</li> <li>• Conduct additional structural analysis to ensure tanks are structurally sound and regulatory compliant.</li> </ul> <p><b>S, SX, and U Tank Farm Retrievals</b></p> <ul style="list-style-type: none"> <li>• Continue progress on infrastructure that will support tank waste retrieval operations in the 200 West Area.</li> </ul> <p><b>SY Tank Farm Operations and Maintenance</b></p> <ul style="list-style-type: none"> <li>• Complete Tank 241-SY-101 Mixer Pump Removal.</li> <li>• Complete SY Tank Farm Pit Repair.</li> </ul> <p><b>West Area Risk Management (23-D-403)</b></p> <ul style="list-style-type: none"> <li>• Complete an Independent Cost Estimate, External Independent Review, and Independent Project Review.</li> <li>• Continue fabrication, including the process modules, storage tank, pumps, and exhauster.</li> </ul>	

FY 2026 Enacted	FY 2027 Request	Explanation of Changes – FY 2027 Request vs FY 2026 Enacted
<p><b>Low Activity Waste Pretreatment System (15-D-409-02)</b></p> <ul style="list-style-type: none"> <li>• Complete design of the process modules for the Advanced Modular Pretreatment System.</li> <li>• Achieve Critical Decision-3A approval to conduct long-lead procurement(s).</li> </ul>	<ul style="list-style-type: none"> <li>• Begin site preparation.</li> </ul> <p><b>222-S Laboratory Operations</b></p> <ul style="list-style-type: none"> <li>• Provide analytical services to the Hanford Site in support of Direct-Feed Low-Activity Waste and other site operations.</li> <li>• Continue corrective maintenance and facility improvement projects.</li> </ul> <p><b>Low Activity Waste Pretreatment System (15-D-409-02)</b></p> <ul style="list-style-type: none"> <li>• Achieve Critical Decision-2/3 to approve the project baseline and begin construction of the Advanced Modular Pretreatment System.</li> <li>• Continued fabrication of long-lead infrastructure equipment.</li> <li>• Complete fabrication and testing of process modules.</li> <li>• Complete site preparation.</li> </ul>	

## Waste Treatment Plant (PBS: ORP-0060)

### Overview

This Project Baseline Summary (PBS) can be found within the Defense Environmental Cleanup appropriation.

The Waste Treatment and Immobilization Plant is critical to the completion of the Hanford tank waste mission; it will provide the primary treatment capability to immobilize the radioactive and mixed radioactive hazardous tank waste at the Hanford Site. The long-term liability to be addressed by the Waste Treatment Plant is currently estimated to cost \$14.5 billion and take up to 10 years to complete. Activities funded in FY 2027 will reduce this long-term liability by \$330 million further developing the capacity to reduce this long-term liability. Hanford’s Environmental Liabilities include other contingencies that are not separated by projects but allocated to Hanford site.

The Waste Treatment and Immobilization Plant include the Pretreatment Facility, High-Level Waste Vitrification Facility, Low-Activity Waste Vitrification Facility, Analytical Laboratory, Balance of Facilities, and the Effluent Management Facility. The Pretreatment Facility will separate the radioactive tank waste into low-activity and high-level radioactive waste fractions. The high-level radioactive waste fraction will be transferred to the High-Level Waste Vitrification Facility for immobilization to be made ready for placement into storage. The Department continues to perform studies for a supplemental treatment technology to be used to immobilize the remaining low-level radioactive waste not treated in the Low-Activity Waste Vitrification Facility. The Analytical Laboratory will provide real-time analytical support for plant operations. The Balance of Facilities includes office facilities, chemical storage, site utilities, and infrastructure required to support overall plant operations. The Effluent Management Facility will manage the high volume of water generated while retrieving and treating low-activity waste for disposal.

### Activities and Explanation of Changes

FY 2026 Enacted	FY 2027 Request	Explanation of Changes – FY 2027 Request vs FY 2026 Enacted
\$611,585,000	\$330,000,000	-\$281,585,000

#### High-Level Waste Facility

Engineering Design Activities:

- Continue 90% design for systems associated with chemical process, mechanical handling, Melter feed, off

#### High-Level Waste Vitrification Facility

Engineering Design Activities:

- Complete 90% design for systems associated with chemical process, mechanical handling, Melter feed, off gas and ventilation systems.

- The decrease aligns with the 90% design for the high-level waste vitrification facility being ahead of schedule.

**Environmental Management/  
River Protection**

**FY 2027 Congressional Justification**

FY 2026 Enacted	FY 2027 Request	Explanation of Changes – FY 2027 Request vs FY 2026 Enacted
<p>gas and ventilation systems. Engineering support to facilitate building enclosure.</p> <ul style="list-style-type: none"> <li>• Conduct system design reviews and integrated system verification reviews.</li> <li>• Complete design for ancillary support facilities needed to support High-Level Waste Facility Operations.</li> <li>• Continue design development and implementation of changes associated with alternate tank waste feed routing to the High-Level Waste Vitrification Facility.</li> <li>• Conduct annual update to the Preliminary Documented Safety Analysis to maintain alignment with design updates.</li> </ul> <p>Procurement Activities:</p> <ul style="list-style-type: none"> <li>• Complete vendor awards for plant equipment to support design completion and building enclosure, including mechanical handling process and utility system and ventilation equipment.</li> </ul> <p>Maintenance/Construction Activities:</p> <ul style="list-style-type: none"> <li>• Continue preservation maintenance.</li> <li>• Continue long-term construction planning and material staging.</li> <li>• Continue necessary procurements, staging of materials for future construction and construction activities</li> </ul>	<p>Engineering support to facilitate building enclosure.</p> <ul style="list-style-type: none"> <li>• Continue to conduct system design reviews and integrated system verification reviews.</li> <li>• Complete design for ancillary support facilities needed to support High-Level Waste Facility Operations.</li> <li>• Continue design development and implementation of changes associated with alternate tank waste feed routing to the High-Level Waste Vitrification Facility.</li> <li>• Conduct annual update to the Preliminary Documented Safety Analysis to maintain alignment with design updates.</li> </ul> <p>Procurement Activities:</p> <ul style="list-style-type: none"> <li>• Complete vendor awards for plant equipment to support design completion and building enclosure, including mechanical handling process and utility system and ventilation equipment.</li> </ul> <p>Maintenance/Construction Activities:</p> <p>Continue preservation maintenance.</p> <ul style="list-style-type: none"> <li>• Continue long-term construction planning and material staging.</li> <li>• Continue necessary procurements, staging of materials for future construction and construction activities to enclose (i.e., weather-in) the High-Level Waste Facility.</li> <li>• Develop subcontract planning and continue contractor mobilization.</li> </ul>	

FY 2026 Enacted	FY 2027 Request	Explanation of Changes – FY 2027 Request vs FY 2026 Enacted
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to enclose (i.e., weather-in) the High-Level Waste Facility.

- Develop subcontract planning and continue contractor mobilization.
- Continue low-risk construction for those systems at 90 percent design.

- Complete low-risk construction for those systems at 90 percent design.

## Waste Treatment Plant Operations (PBS: ORP-0070)

### Overview

This Project Baseline Summary (PBS) can be found within the Defense Environmental Cleanup appropriation.

This PBS provides for the activities required to support the treatment of tank waste in the Waste Treatment and Immobilization Plant including the implementation of the strategy of the Direct-Feed Low-Activity Waste approach, which is the first phase of operations. This includes the operational scope for the Low-Activity Waste Vitrification Facility, the Analytical Laboratory, the Balance of Facilities, and the Effluent Management Facility starting with hot commissioning after Critical Decision-4, “Approve Start of Operations or Project Completion” for those facilities. The long-term liability addressed by the Waste Treatment Plant Operations is currently included in the estimate for ORP-0014 liabilities. Activities funded in FY 2027 will reduce this long-term liability by \$466 million.

This PBS also includes the procurement of necessary spare parts and consumable commodities necessary to support operations.

### Activities and Explanation of Changes

FY 2026 Enacted	FY 2027 Request	Explanation of Changes – FY 2027 Request vs FY 2026 Enacted
\$480,000,000	\$466,000,000	-\$14,000,000
<ul style="list-style-type: none"> <li>Procure long-lead spare parts and miscellaneous consumables to support operations.</li> <li>Continue fabrication and assembly of spare melters for the Low-Activity Waste Facility.</li> <li>Continue extended Hot Commissioning to optimize and ramp up capability for Direct-Feed Low-Activity Waste operations, and operations of the Waste Treatment and Immobilization Plant’s Analytical Laboratory, Balance of Facilities, and Effluent Management Facility.</li> </ul>	<ul style="list-style-type: none"> <li>Complete extended Hot Commissioning to optimize and ramp up capability for Direct-Feed Low-Activity Waste operations.</li> <li>Continue operations of the Waste Treatment and Immobilization Plant’s Analytical Laboratory, Balance of Facilities, and Effluent Management Facility.</li> <li>Continue purchasing spares and consumables needed for low-level waste vitrification.</li> <li>Continue acquiring spare melters for the Low-Activity Waste Facility.</li> </ul>	<ul style="list-style-type: none"> <li>The increase is needed to support the continued transition of the Direct-Feed Low-Activity Waste program from EPCC funding (PBS ORP-0060) to operational funding of the Waste Treatment and Immobilization Plant’s Low-Activity Waste Facility, Analytical Laboratory, Balance of Facilities, and Effluent Management Facility. The project received CD-4 on 17 September 2025 and transitioned to operational funding the increase is to support full operations of the Direct-Feed Low-Activity Waste portion of the Waste Treatment and Immobilization Plant.</li> </ul>



**01-D-416, Waste Treatment and Immobilization Plant  
Hanford, (ORP-0060)  
Project is for Design and Construction**

**1. Summary, Significant Changes, and Schedule and Cost History**

**Summary**

The Waste Treatment and Immobilization Plant Project has Congressional control at the Total Project Cost level.

The FY 2027 budget request for the Waste Treatment and Immobilization Plant is \$330,000,000 to continue to advance the High-Level Waste and associate support facility design and limited construction for those systems at 90 percent design complete.

On December 15, 2016, the Deputy Secretary of Energy approved the direct-feed low-activity waste configuration approach modification, which established hot commissioning and a project execution plan (Critical Decision 4a) to commence no later than August 31, 2023. Subsequent to the approval, Contract No. DE-AC27-01RV14136, Design, Construction, and Commissioning of the Hanford Tank Waste Treatment and Immobilization Plant, was modified to reflect the focus on direct-feed low-activity waste scope. The current strategy is to complete the direct-feed low-activity waste facility, then complete the High-Level Waste facility. Once the High-Level Waste facility has reached 90% design completion, a performance baseline for the balance of the High-Level Waste facility construction and commissioning will be initiated. Once the High-Level Waste facility performance baseline is complete, the construction project data sheet will be formally revised and submitted to Congress.

The U.S. Department of Energy continues startup testing and commissioning of the Low-Activity Waste Facility, Analytical Laboratory, and Balance of Facilities. For the High-Level Waste Facility, the Department is advancing design, procurement, and low-risk construction activities. For the Pretreatment Facility the Department continues preservation and maintenance of the facilities and associated equipment, components, and material. While the Department remained focused on meeting the milestones contained in the Court's March 11, 2016, Amended Consent Decree, to include the near-term December 31, 2023, Low-Activity Waste Facility hot commissioning complete milestone, the novel coronavirus disease 2019 pandemic was a force majeure event creating work interruptions at the Hanford Site. The Court's new Amended Consent Decree, dated July 18, 2022, granted a 579-day extension to this milestone and has moved the Low-Activity Waste Facility hot commissioning complete milestone to August 1, 2025. The direct-feed low-activity waste portion of the project has experienced both cost and schedule delays associated with coronavirus disease 2019 (e.g., workforce impacts and supply chain shortages).

On July 28, 2025, DOE notified stakeholders that a modest (75-day) extension of the consent decree's August 1, 2025, milestone to complete hot commissioning to October 15, 2025, was agreed to by the State of Washington and DOE. The extension affords the State subsequent time to complete final permitting actions and enable DOE to complete the testing of equipment and facilities needed to begin treating Hanford's low-activity waste. DOE started hot commissioning (using actual tank waste) of the Low-Activity Waste Facility in 2025, and remains committed to retrieving, treating and safely disposing of all the waste from Hanford's large underground tanks.

The Waste Treatment and Immobilization Plant project was initiated in fiscal year 2001. This construction project data sheet is an update of the FY 2026 construction project data sheet.

The most recent DOE O 413.3B, Program and Project Management for the Acquisition of Capital Assets, approved critical decision is Critical Decision 3, which was approved on April 21, 2003.

A certified Federal Project Director is leading the Waste Treatment and Immobilization Plant project which includes the direct feed Low-Activity Waste and direct feed High-Level Waste segments.

On July 18, 2022, the Court granted the amendment of the Consent Decree on the basis that the novel coronavirus disease 2019 pandemic being a force majeure event that created work interruptions at the Hanford Site, justifying amendment under Section VII.E (Force Majeure) of the Consent Decree. ECF No. 258 at 2–8. According to the Court-approved method for calculating schedule extensions in this circumstance, the remobilization period between March 23, 2020, and March 13, 2022, warranted a 579-day extension to the B-2, B-3, A-7, A-8, and A-9 milestones.

Due to COVID-19 impacts, safety, quality, and management issues the Department has determined that the completion of the Waste Treatment and Immobilization Plant Project will exceed the currently approved total project cost and the project completion date (Critical Decision-4a).

In 2019, the Department formally notified the State of Washington that some longer-term milestones in the Consent Decree (as amended), concerning the Pretreatment and High-Level Waste facilities may be at serious risk based on a multitude of factors including escalating costs. The Department, in coordination with the State of Washington, initiated an Analysis of Alternatives for High-Level Waste, which was completed and issued for public feedback in 2023. The High-Level Waste Analysis of Alternatives has also informed ongoing mediated “holistic negotiations” between the Department, the State of Washington, and the U.S. Environmental Protection Agency regarding the path forward for tank waste retrieval and treatment at Hanford.

### **Significant Changes**

On April 29, 2024, the U.S. Department of Energy, Washington State Department of Ecology, and the U.S. Environmental Protection Agency announced an agreement in the form of a Settlement Agreement with proposed changes to the Tri-Party Agreement and the Consent Decree, as amended, including to the milestones associated with High-Level Waste processing.

## Critical Milestone History

### Fiscal Quarter or Date

	CD-0	CD-1	CD-2	Final Design Complete	CD-3	D&D Complete	CD-4
FY 2001	09/1995	09/1996	8/1998	4Q FY 2005	10/2001	N/A	1Q FY 2007
FY 2002	09/1995	09/1996	4Q FY1998	4Q FY 2005	5/2002	N/A	1Q FY 2007
FY 2003	09/1995	09/1996	4Q FY1998	4Q FY 2005	M5/2002	N/A	1Q FY 2007
FY 2004	09/1995	09/1996	4Q FY1998	4Q FY 2005	5/2002	N/A	1Q FY 2007
FY 2003 Congressional Notification	09/1995	09/1996	04/21/2003	4Q FY 2005	04/21/2003	N/A	3Q FY 2008
FY 2005	09/1995	09/1996	04/21/2003	4Q FY 2005	04/21/2003	N/A	3Q FY 2008
FY 2004 Reprogramming	09/1995	09/1996	04/21/2003	4Q FY 2005	04/21/2003	N/A	3Q FY 2008
FY 2006	09/1995	09/1996	04/21/2003	4Q FY 2007	04/21/2003	N/A	3Q FY 2008
FY 2007	09/1995	09/1996	04/21/2003	4Q FY 2007	04/21/2003	N/A	3Q FY 2008
FY 2008	09/1995	09/1996	04/21/2003	4Q FY 2010	04/21/2003	N/A	2Q FY 2017
FY 2009	09/1995	09/1996	04/21/2003	4Q FY 2013	04/21/2003	N/A	1Q FY 2020
FY 2010	09/1995	09/1996	04/21/2003	1Q FY 2016	04/21/2003	N/A	1Q FY 2020
FY 2011	09/1995	09/1996	04/21/2003	1Q FY 2016	04/21/2003	N/A	1Q FY 2020
FY 2012	09/1995	09/1996	04/21/2003	1Q FY 2016	04/21/2003	N/A	1Q FY 2020
FY 2013	09/1995	09/1996	04/21/2003	1Q FY 2016	04/21/2003	N/A	1Q FY 2020
FY 2014	09/1995	09/1996	04/21/2003	1Q FY 2016	04/21/2003	N/A	1Q FY 2020
FY 2013 Reprogramming	09/1995	09/1996	04/21/2003	1Q FY 2016	04/21/2003	N/A	1Q FY 2020
FY 2015	09/1995	09/1996	04/21/2003	1Q FY 2016	04/21/2003	N/A	1Q FY 2020
FY 2016	09/1995	09/1996	04/21/2003	1Q FY 2016	04/21/2003	N/A	TBD
FY 2017	09/1995	09/1996	04/21/2003	1Q FY 2016	04/21/2003	N/A	TBD
FY 2018	09/1995	09/1996	04/21/2003	TBD	04/21/2003	N/A	TBD
FY 2019	09/1995	09/1996	04/21/2003	TBD	04/21/2003	N/A	TBD
FY 2020	09/1995	09/1996	04/21/2003	TBD	04/21/2003	N/A	TBD
FY 2021	09/1995	09/1996	04/21/2003	TBD	04/21/2003	N/A	TBD
FY 2022	09/1995	09/1996	04/21/2003	TBD	04/21/2003	N/A	TBD
FY 2023	09/1995	09/1996	04/21/2003	TBD	04/21/2003	N/A	TBD
FY 2024	09/1995	09/1996	04/21/2003	TBD	04/21/2003	N/A	TBD
FY 2025	09/1995	09/1996	04/21/2003	TBD	04/21/2003	N/A	TBD
FY 2026	09/1995	09/1996	04/21/2003	TBD	04/21/2003	N/A	TBD
FY 2027	09/1995	09/1996	04/21/2003	TBD	04/21/2003	N/A	TBD

Conceptual design complete = actual date the conceptual design was completed (if applicable).

D&D complete = completion of decontamination and decommissioning (D&D) work.

Final design complete = estimated/actual date the project design will be/was completed.

- #Q = number of quarter.
- CD-0 = approve mission need.
- CD-1 = approve alternative selection and cost range.
- CD-2 = approve performance baseline.
- CD-3 = approve start of construction.
- CD-4 = approve start of operations or project completion.
- FY = fiscal year.
- N/A = not applicable.
- PB = performance baseline.
- TBD = to be determined.

## Project Cost History

(Dollars in thousands)							
	TEC, Design	TEC, Construction	TEC, Total	OPC Except D&D	OPC, D&D	OPC, Total	Total Project Cost
FY 2001	0	5,466,000	5,466,000	7,022,000	0	7,022,000	12,488,000
FY 2002	0	4,350,000	4,350,000	0	0	0	4,350,000
FY 2003	0	4,350,000	4,350,000	0	0	0	4,350,000
FY 2004	0	4,350,000	4,350,000	0	0	0	4,350,000
FY 2003 Cong. Notification	0	5,781,000	5,781,000	0	0	0	5,781,000
FY 2005	0	5,781,000	5,781,000	0	0	0	5,781,000
FY 2006	0	5,781,000	5,781,000	0	0	0	5,781,000
FY 2007	0	5,781,000	5,781,000	0	0	0	5,781,000
FY 2008	0	12,263,000	12,263,000	0	0	0	12,263,000
FY 2009	0	12,263,000	12,263,000	0	0	0	12,263,000
FY 2010	0	12,263,000	12,263,000	0	0	0	12,263,000
FY 2011	0	12,263,000	12,263,000	0	0	0	12,263,000
FY 2012	0	12,263,000	12,263,000	0	0	0	12,263,000
FY 2013	0	12,263,000	12,263,000	0	0	0	12,263,000
FY 2014	0	12,263,000	12,263,000	0	0	0	12,263,000
FY 2013 Reprogramming	0	12,263,000	12,263,000	0	0	0	12,263,000
FY 2015	0	12,263,000	12,263,000	0	0	0	12,263,000
FY 2016	0	12,263,000	12,263,000	0	0	0	12,263,000
FY 2017	0	12,263,000	12,263,000	0	0	0	12,263,000
FY 2018	0	12,263,000	12,263,000	0	0	0	12,263,000
FY 2019	TBD	TBD	TBD	0	0	TBD	TBD
FY 2020	TBD	TBD	TBD	0	0	TBD	TBD
FY 2021	TBD	TBD	TBD	0	0	TBD	TBD
FY 2022	TBD	TBD	TBD	0	0	TBD	TBD
FY 2023	TBD	TBD	TBD	0	0	TBD	TBD
FY 2024	TBD	TBD	TBD	0	0	TBD	TBD
FY 2025	TBD	TBD	TBD	0	0	TBD	TBD
FY 2026	TBD	TBD	TBD	0	0	TBD	TBD
FY 2027	TBD	TBD	TBD	0	0	TBD	TBD

D&D = decontamination and decommissioning.

FY = fiscal year.

OPC = other project cost.

TEC = total estimated cost.

TBD = to be determined.

The FY 2001 budget request presented the contract value using a privatization approach for this project. The contract included design, construction, and commissioning (at a total estimated cost of \$5,466,000,000), and 10 years of initial operations for a total project cost of \$12,488,000,000. In May 2000, the Secretary of Energy terminated the privatization contract, because of the dramatic cost increase submitted by the contractor to complete the project.

**Environmental Management/River Protection/  
01-D-416 Waste Treatment and Immobilization Plant/  
Hanford, (ORP-0060) Project is for Design and Construction**

**FY 2027 Congressional Justification**

In December 2002, the Department awarded a cost-plus incentive-fee contract estimated at \$4,350,000,000 to design, construct, and commission the Waste Treatment and Immobilization Plant. In April 2003, a contract modification was negotiated with the principal change of increasing the throughput capacity of the High-Level Waste and Pretreatment facilities, with the goal of pretreating all retrieved waste during the 40-year life of the facility, immobilizing all of the high-level waste fractions and at least 40 percent of the low-activity waste fraction. The Department approved a performance baseline for this scope with a total project cost of \$5,781,000,000. In December 2006, due to over-optimistic cost estimates and seismic and technical issues, the Department approved a new performance baseline with a revised total project cost of \$12,263,000,000.

A project rebaselining effort was initiated in FY 2012 along with the Design Completion Team to resolve project technical issues. A decision was made to delay the rebaselining effort until the Design Completion Team could address the technical issues.

On December 15, 2016, the Deputy Secretary of Energy approved the direct-feed low-activity waste approach, contract modification, and project execution plan with operations to commence by August 31, 2023. The current strategy is to complete the rebaseline effort in phases, with the first phase complete to support direct-feed low-activity waste and second to rebaseline the High-Level Waste and Pretreatment facilities in the future.

In FY 2019, it was determined that all technical issues had been resolved to support design of the Pretreatment Facility. The U.S. Department of Energy then chartered an Analysis of Alternatives to determine how best to provide tank waste feed to the High-Level Waste Facility and the Pretreatment Facility throughout the facility life cycle. Since June 2020, DOE, Ecology, and the U.S. Environmental Protection Agency have been engaged in mediated negotiations to identify a mutually agreed upon path forward for the Hanford tank waste treatment mission, including the technical approach to treat the high-level waste portion of the tank waste in consideration of the requirements established in the Hanford Consent Decree. The parties are continuing to work towards an agreement, which includes a path forward for the high-level waste program informed by the High-Level Waste Analysis of Alternatives. Several alternatives in the High-Level Waste Analysis of Alternatives, including Alternative 18, represent a phased implementation of a direct feed high-level waste approach, which does not require completion of the Pretreatment Facility to initiate high-level waste treatment operations. On April 13, 2023, S-2 authorized the initiation of actions required to implement a direct-feed High-Level Waste Facility treatment configuration. Following completion of design, a High-Level Waste Facility performance baseline will be established as part of the Critical Decision-2 process.

On July 18, 2022, the Court granted the amendment of the Consent Decree on the basis that the novel coronavirus disease 2019 pandemic being a force majeure event that created work interruptions at the Hanford Site, justifying amendment under Section VII.E (Force Majeure) of the Consent Decree. ECF No. 258 at 2–8. According to the Court-approved method for calculating schedule extensions in this circumstance, the remobilization period between March 23, 2020, and March 13, 2022, warranted a 579-day extension to the B-2, B-3, A-7, A-8, and A-9 milestones.

The Department notified the state of Washington (with a copy to the state of Oregon) that resolving equipment issues and moving into cold commissioning would take longer than the August 1, 2024, the date in the Consent Decree. The state of Washington agreed with the extension request to November 29, 2024, and the court issued the extension on July 30, 2024. The consent decree milestone 'Start LAW

Facility Cold Commissioning,' was completed on November 6, 2024, 23 days ahead of the required milestone date of November 29, 2024.”

## **2. Scope and Justification**

### **Scope**

The Waste Treatment and Immobilization Plant covers 65 acres and includes three major nuclear facilities – Pretreatment Facility, High-Level Waste Facility, and Low-Activity Waste Facility along with the Analytical Laboratory and supporting buildings and utilities, collectively known as the Balance of Facilities. The Low-Activity Waste Facility will immobilize, through vitrification, a substantial portion of the low-activity waste fraction. The Department has adopted a strategy to directly feed the Low-Activity Waste Facility to support the start of waste treatment by the amended hot commissioning date of October 15, 2025.

The High-Level Waste Facility will immobilize, through vitrification, the high-level waste fraction of Hanford tank waste. The Waste Treatment and Immobilization Plant key project performance parameters are a minimum treatment capacity of 18 metric tons of glass per day for the Low-Activity Waste Facility and are a minimum treatment capacity of 3.6 metric tons per day for the High-Level Waste Facility (average daily throughput for both facilities). The High-Level Waste Facility treatment capacity is being evaluated as part of the direct feed configuration change. The Analytical Laboratory will provide the necessary sample analysis needed throughout the processing facilities. The Balance of Facilities includes the plant infrastructure and support facilities (e.g., steam plant, electrical switch yards, chiller plant) necessary for the plant to operate.

### **Justification**

The Waste Treatment and Immobilization Plant is the cornerstone of the U.S. Department of Energy, Office of River Protection mission to treat and disposition the radioactive waste contained in underground storage tanks at the Hanford Site in southeastern Washington state. Approximately 56 million gallons of waste containing approximately 240 thousand metric tons of processed chemicals and approximately 176 million curies of radionuclides are currently stored in 177 tanks (retrieval has been completed in 21 tanks). These wastes are in the form of liquids, slurries, saltcake, and sludge, and are the result of more than four decades, starting in 1944, of reactor operations and plutonium production for national defense.

One of the Department’s key objectives is to design, build, and commission the Waste Treatment and Immobilization Plant. Through a vitrification process, a portion of Hanford’s tank waste volume will be transformed into a sturdy, durable form by blending the waste with molten glass and pouring it into stainless steel canisters. In that form, the waste will remain stable and highly resistant to environmental degradation while its radioactivity decays.

The Waste Treatment and Immobilization Plant contractor will complete process and facility design; perform procurement and construction; conduct acceptance testing; select and integrate a subcontractor into the project team to provide the necessary operating and commissioning capability; and conduct all required environmental, safety, quality, and health activities.

The final Waste Treatment and Immobilization Plant configuration will rely on pretreatment capability being performed in the Hanford tank farm. Both low activity and high-level waste will be transferred to the Waste Treatment and Immobilization Plant for vitrification. The immobilized high-level waste fraction will be temporarily stored on the Hanford Site while a national repository is established. The vitrified low-activity waste fraction will be placed in a disposal facility on the Hanford Site.

At this time, while the project is focused on delivery of the direct-feed low-activity waste capability, the Department will initiate ramp-up of design, procurement, and low-risk construction activities for the High-Level Waste Facility and continue preservation and maintenance for the Pretreatment Facility, focusing on, but not limited to, management of assets, appropriate storage, configuration control, and necessary record keeping (to include quality assurance information).

The project is being conducted in accordance with the project management requirements in DOE O 413.3B.

### Key Performance Parameters

The threshold key performance parameters represent the acceptable performance that the project must achieve. Achievement of the thresholds key performance parameters will be a prerequisite for approval of Critical Decision-4.

Performance Measure	Threshold
Low Activity Waste Pretreatment	2.244 metric ton sodium per year
High-Level Waste Pretreatment <sup>1</sup>	735 metric ton as delivered solids per year
Liquid Waste Effluent Management Facility Efficiency	3.1 volume reduction
Low-Activity Waste Vitrification	18 metric ton glass per day
High-Level Waste Vitrification <sup>1</sup>	3.6 metric ton glass per day

<sup>1</sup> Key performance parameters for the High-Level Waste Facility are being reevaluated as part of implementing a direct feed configuration.

### 18-D-16, Waste Treatment and Immobilization Plant Low Activity Waste Facility, Analytical Laboratory, and Balance of Facilities/Direct-Feed Low-Activity Waste

#### Scope and Justification

The Low-Activity Waste Facility will immobilize, through vitrification, a substantial portion of the low-activity waste fraction of the Hanford tank waste. The key project performance parameter for the Low-Activity Waste Facility is a minimum treatment capacity of 18-metric tons of glass per day (average daily throughput). The Analytical Laboratory will provide the necessary sample analysis needed throughout waste processing. The Balance of Facilities includes the plant infrastructure and support facilities (e.g., steam plant, electrical switch yards, chiller plant). The Waste Treatment and Immobilization Plant contractor will complete process and facility design; perform procurement and construction; conduct acceptance testing; select and integrate a subcontractor into the project team to provide the necessary operating and commissioning capability; and conduct all required environmental, safety, quality, and health activities.

The Department has focused the Waste Treatment and Immobilization Plant effort to accelerate construction completion and commissioning of three facilities – Low-Activity Waste Facility, Analytical Laboratory, and Balance of Facilities – to meet the Amended Consent Decree requirement to begin hot operations by October 2025. The waste feed for low-activity waste processing will be provided for these facilities initially by a tank-side cesium removal capability.

The Department has constructed and tested a separate Effluent Management Facility to manage the high volume of water generated through the processing of low-activity waste and to create double-shell tank space while treating low-activity waste for disposal. As originally envisioned, this capability was going to be located in the Pretreatment Facility; however, with the restructuring of the project to a phased startup, this capability is needed prior to the completion of construction for the Pretreatment Facility, requiring the construction of the Effluent Management Facility under a different, but existing, control point (01-D-416A-C). The Effluent Management Facility was completed in November 2021.

### **01-D-16D, High-Level Waste Facility**

#### **Scope and Justification**

The High-Level Waste Facility will immobilize, through vitrification, the high-level waste fraction of the tank waste. The key project performance parameter for the High-Level Waste Facility is a minimum of 3.6 metric tons of glass per day (average daily throughput) but is being evaluated given the implementation of a direct feed configuration. The Waste Treatment and Immobilization Plant contractor will complete process and facility design; perform procurement and construction; conduct acceptance testing; perform startup and commissioning activities; and conduct all required environmental, safety, quality, and health activities.

### **01-D-16E, Pretreatment Facility**

#### **Scope and Justification**

The original Pretreatment Facility concept was to separate radioactive tank waste into high-activity waste and low-activity waste fractions and transfer the segregated waste to the High-Level Waste Facility and the Low-Activity Waste Facility. The main pretreatment processes included filtration to separate the high curie solids from the low-activity liquids and an ion exchange system to remove cesium from the tank waste. Given the results of the High-Level Waste Analysis of Alternatives, the Pretreatment facility will remain suspended as High-Level Waste and Low-Activity Waste vitrification waste processing advances.

### 3. Project Cost and Schedule

#### Financial Schedule

	01-D-416, WTP Total			18-D-16, Waste Treatment and Immobilization Plant LBL/Direct feed LAW			01-D-16D, High-Level Waste Facility			01-D-16E, Pretreatment Facility		
	Approps	Obls	Costs	Approps	Obls	Costs	Approps	Obls	Costs	Approps	Obls	Costs
Total Estimated Cost (TEC) /												
Total Project Cost (TPC)												
Prior Years	9,864,883	9,864,883	9,664,986	3,824,462	3,824,462	3,729,030	2,540,371	2,540,371	2,548,161	3,500,050	3,500,050	3,387,795
FY 2016	690,000	690,000	741,612	520,264	520,264	538,103	74,736	74,736	86,373	95,000	95,000	117,136
FY 2017	690,000	690,000	713,861	562,274	562,274	533,765	30,726	30,726	61,213	97,000	97,000	118,883
FY 2018	740,000	740,000	649,517	630,000	630,000	588,842	75,000	75,000	30,400	35,000	35,000	30,275
FY 2019	730,000	730,000	751,760	655,000	655,000	685,913	60,000	60,000	45,146	15,000	15,000	20,643
FY 2020	816,000	701,548	688,703	776,000	662,000	606,728	25,000	25,000	66,169	15,000	15,000	15,806
FY 2021	811,000	829,208	518,256	786,000	804,208	496,119	25,000	25,000	17,335	0	0	4,802
FY 2022	750,358	400,671	533,817	586,000	296,676	474,255	144,358	83,995	55,623	20,000	20,000	3,939
FY 2023	824,900	608,981	636,824	412,700	384,890	483,405	392,200	204,091	151,809	20,000	20,000	1,610
FY 2024	770,000	792,336	819,330	150,000	387,342	468,350	600,000	400,577	344,601	20,000	4,417	6,379
FY 2025	850,000	825,584	943,190	250,000	425,584	448,190	600,000	400,000	500,000	0	0	5,000
FY 2026	611,585	611,585	605,000	0	0	100,000	611,585	611,585	600,000	0	0	5,000
FY 2027	330,000	330,000	605,000	0	0	0	330,000	330,000	600,000	0	0	5,000
Grand Total	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD

- Approps = appropriations.
- LAW = low-activity waste.
- LBL = Low-Activity Waste Facility, Balance of Facilities, and Analytical Laboratory.
- Obls = obligations.
- TBD = to be determined.
- WTP = Waste Treatment and Immobilization Plant.

#### 4. Details of Project Cost Estimate

(Dollars in Thousands)												
	01-D-416, WTP Total			18-D-16, Waste Treatment and Immobilization Plant LBL/Direct feed LAW			01-D-16D, High-Level Waste Facility			01-D-16E, Pretreatment Facility		
	CTE	PTE	OVB	CTE	PTE	OVB	CTE	PTE	OVB	CTE	PTE	OVB
Total Estimated Cost (TEC) /												
Total Project Cost (TPC)												
Construction												
Engineering/Design	TBD	2,547,977	1,475,000	TBD	785,881	N/A	TBD	700,141	N/A	TBD	1,061,954	N/A
Equipment/Procurement <sup>a</sup>	TBD	2,380,748	1,125,000	TBD	675,051	N/A	TBD	670,539	N/A	TBD	1,035,158	N/A
Facility Construction <sup>b</sup>	TBD	3,720,637	2,155,000	TBD	1,241,195	N/A	TBD	913,568	N/A	TBD	1,565,874	N/A
Commissioning <sup>c</sup>		1,409,428	876,000		718,454	N/A		275,217	N/A		415,757	N/A
Technical Support/Transition <sup>d</sup>	TBD	185,000	50,000	TBD	56,292	N/A	TBD	42,332	N/A	TBD	86,376	N/A
Contingency/Fee <sup>e</sup>	TBD	2,019,210	100,000	TBD	414,765	N/A	TBD	570,100	N/A	TBD	1,034,346	N/A
<b>Total Project Cost</b>	<b>TBD</b>	<b>12,263,000</b>	<b>5,781,000</b>	<b>TBD</b>	<b>3,891,638</b>	<b>N/A</b>	<b>TBD</b>	<b>3,171,897</b>	<b>N/A</b>	<b>TBD</b>	<b>5,199,465</b>	<b>N/A</b>

<sup>a</sup> Equipment/Procurement dollars represent costs of plant equipment, bulk plant material, and acquisition services.

<sup>b</sup> Facility construction dollars represent construction costs through system turnover.

<sup>c</sup> Commissioning dollars represent the cost of startup and cold commissioning.

<sup>d</sup> Technical support/transition represents the cost of federal assurance oversight support to the federal project director and project transition costs.

<sup>e</sup> Contingency/Fee dollars represent the fee and Department project contingency.

CTE = current total estimate.

CX = commissioning.

N/A = not applicable.

OVB = original validated baseline.

PTE = previous total estimate.

TBD = to be determined.

## 5. Schedule of Appropriation Requests

Request Year	Type	Prior Years	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Total
FY 2016	TEC/TPC	11,450,585	-						12,263,000
FY 2017	TEC/TPC	11,445,585	-						12,263,000
FY 2018	TEC/TPC	11,934,613	-						12,263,000
FY 2019	TEC/TPC	12,714,613	-						TBD
FY 2020	TEC/TPC	13,530,613	-						TBD
FY 2021	TEC/TPC	13,530,613	-						TBD
FY 2022	TEC/TPC	13,530,613	666,000						TBD
FY 2023	TEC/TPC	13,530,613	750,358	824,900					TBD
FY 2024	TEC/TPC	13,530,613	750,358	824,900	620,000				TBD
FY 2025	TEC/TPC	13,530,613	750,358	824,900	770,000	628,100			TBD
FY 2026	TEC/TPC	14,341,613	750,358	824,900	770,000	850,000	611,585		TBD
FY 2027	TEC/TPC	14,341,613	750,358	824,900	770,000	850,000	611,585	330,000	TBD

The U.S. Department of Energy has completed an analysis of alternative to determine how best to provide tank waste feed to the High-Level Waste Facility throughout the facility life cycle. The Department of Energy will continue to implement a path forward for the high-level program informed by the High-Level Waste Analysis of Alternatives. Several alternatives in the High-Level Waste Analysis of Alternatives, including Alternative 18, represent a phased implementation of a direct feed high-level waste. The current plan is to update the High-Level Waste Facility performance baseline in two phases, reflecting the transition away from a concurrent design-build approach:

- Design completion period (approximately 2023 through 2027). The primary objective of this period is to complete the design and safety analysis / safety basis for the High-Level Waste Facility and associated support facilities. Work scope for this period will also include low-risk procurement and construction scope and other risk mitigating activities that will facilitate future development of a high-confidence baseline for completing the construction and commissioning of the High-Level Waste Facility and support facilities within cost and schedule estimates.
- Construction and commissioning period (approximately 2028 through 2035). The objective of this period is to complete the construction and commissioning of the High-Level Waste Facility and support facilities in a direct-feed High-Level Waste configuration within established scope, cost, and schedule objectives.

Upon completion of the rebaseline effort, this construction project data sheet will be formally revised to reflect the full Waste Treatment and Immobilization Plant total project cost and submitted to Congress.

## 6. Related Operations and Maintenance Funding Requirements

Start of Operation or Beneficial Occupancy (fiscal quarter or date)	TBD
Expected Useful Life (number of years)	40
Expected Future Start of decontamination and decommissioning of this capital asset (fiscal quarter)	TBD

### Related Funding Requirements

(Budget Authority in Millions of Dollars)

	Annual Costs		Life-Cycle Costs	
	Previous Total Estimate	Current Total Estimate	Previous Total Estimate	Current Total Estimate
Operations and Maintenance	TBD	TBD	TBD	TBD

Operations will start after the project is completed. These costs are included in project baseline summary ORP-0070, “Waste Treatment and Immobilization Plant,” and are therefore not included in this construction project data sheet.

## 7. Decontamination and Decommissioning Information

This project is not replacing existing facilities.

The location of this construction project is an environmental management closure site and, therefore, is exempt from the “one-for-one” requirement.

## **8. Acquisition Approach**

The contract is being executed in accordance with the project management requirements in DOE O 413.3B.

Current contractor:

Bechtel National, Inc., provides the personnel, materials, supplies, and services and otherwise do all things necessary and incident to designing, constructing, and commissioning the Hanford Tank Waste Treatment and Immobilization Plant. This is a Cost-Plus Award-Fee Contract, with award and multiple fee incentives. This Contract is a completion contract. The period of performance for this Contract shall extend from December 11, 2000, through March 31, 2026. A revised period of performance will be established following completion of 90 percent design of the High-Level Waste Facility and negotiations. Expected extension through September 30, 2027.

**23-D-403, Hanford 200 West Area Tank Farms Risk Management Project  
Hanford, Richland, Washington (ORP-0014)  
Project is for Design and Construction**

**1. Summary and Significant Changes**

**Summary:**

Line-item funding is requested to mitigate risks and add operational capabilities to enable near-term retrievals, treat tank waste, and manage double-shell tank space in the 200 West Area Tank Farms at the Hanford Site.

The FY 2027 Request for the Hanford 200 West Area Tank Farms Risk Management Project is \$109,000,000, including \$90,000,000 of Total Estimated Cost under the congressional control point for Hanford 200 West Area Tank Farms Risk Management Project and \$19,000,000 of Other Project Cost under the congressional control point for Radioactive Liquid Tank Waste Stabilization and Disposition.

The most recent approved Critical Decision is Critical Decision-1, “Approve Alternative Selection and Cost Range,” which was approved on February 26, 2025, with a cost range of \$365,000,000 to \$630,000,000. The schedule range for Critical Decision-4 is the third quarter of fiscal year 2030 to the third quarter of fiscal year 2032. The Analysis of Alternatives to meet the mission need was completed in January 2022.

The cost range provided at Critical Decision-0 was a rough-order of magnitude used to determine the project authority designation. It does not represent the performance baseline. The current rough order of magnitude Total Project Cost is now estimated at \$407,700,000.

A certified Federal Project Director is leading the project activities.

**Significant Changes:**

This Construction Project Data Sheet is an update of the FY 2026 Construction Project Data Sheet and does not include a new start for the budget year.

The project is focused on progressing the design in support of Critical Decision-2/3 approval of the performance baseline, anticipated in 2027, and Critical Decision-3A approval of long-lead procurements, anticipated in 2026.

## 2. Critical Milestone History

Fiscal Year	CD-0	Conceptual Design Complete	CD-1	CD-2	Final Design Complete	CD-3A	CD-3	CD-4	D&D Complete
FY 2023	7/2/2021	2Q FY 2023	3Q FY 2023	TBD	TBD	N/A	TBD	TBD	N/A
FY 2024	7/2/2021	4Q FY 2023	1Q FY 2024	TBD	4Q FY 2024	1Q FY 2024	TBD	TBD	N/A
FY 2025	7/2/2021	4Q FY 2024	1Q FY 2025	TBD	TBD	3Q FY 2025	TBD	TBD	N/A
FY 2026	7/2/2021	4Q FY 2024	2/26/2025	TBD	TBD	TBD	TBD	TBD	N/A
FY 2027	7/2/2021	9/11/2024	2/26/2025	TBD	TBD	3/4/2026	TBD	TBD	N/A

**CD-0** – Approve Mission Need for a construction project with a conceptual scope and cost range

**Conceptual Design Complete** – Actual date the conceptual design was completed (if applicable)

**CD-1** – Approve Alternative Selection and Cost Range

**CD-2** – Approve Performance Baseline

**Final Design Complete** – Estimated/Actual date the project design will be/was completed

**CD-3A** – Long Lead Procurement and Site Preparation

**CD-3** – Approve Start of Construction

**CD-4** – Approve Start of Operations or Project Closeout

**D&D Complete** – Completion of Decommissioning and Decontamination work

## 3. Project Cost History

(Dollars in thousands)

Fiscal Year	TEC, Design	TEC, Construction	TEC, Total	OPC, Except D&D	OPC, D&D	OPC, Total	TPC
FY 2023	TBD	TBD	TBD	TBD	N/A	TBD	TBD
FY 2024	TBD	TBD	TBD	TBD	N/A	TBD	TBD
FY 2025	TBD	TBD	TBD	TBD	N/A	TBD	TBD
FY 2026	TBD	TBD	TBD	TBD	N/A	TBD	TBD
FY 2027	TBD	TBD	TBD	TBD	N/A	TBD	TBD

Construction funds will be used for approved long-lead procurement(s) prior to obtaining Critical Decision-3, “Approve Start of Construction.” Construction funds may be used for activities such as site preparation work, site characterization, limited access, safety, and security issues (i.e., fences) prior to obtaining Critical Decision-3, “Approve Start of Construction.”

**Environmental Management/  
River Protection/23-D-403 Hanford 200 West Area Tank  
Farms Risk Management Project  
Hanford, Richland, Washington (ORP-0014)**

**FY 2027 Congressional Justification**

## 4. Project Scope and Justification

### Scope

The project will provide a treatment capability within the 200 West Tank Farms to mitigate risks and add operational capabilities to enable near-term retrievals, treat tank waste in the 200 West Area Tank Farms, and manage double-shell tank space. Based on the Analysis of Alternatives the project will design, build, install, and commission a tank farm pretreatment system at the SY Tank Farm. The project will support retrieving waste from 22 tanks in Hanford's 200 West Area by 2040, as part of the agreement reached with the Washington State Department of Ecology. The agreement proposes a realistic and achievable course for cleaning up millions of gallons of radioactive and chemical waste from large, underground tanks at the Hanford Site, including retrieving single-shell tanks from the 200 West Area and grouting the low-activity portion of the waste for off-site disposal.

The 200 West tank farm pretreatment system will be fabricated off-site and installed onto a newly constructed concrete pad along the east side of the SY Tank Farm. Based on a pre-conceptual screening of below-grade obstructions and evaluation of the SY tank utilization strategies, this has been initially determined as the most beneficial siting. The 200 West tank farm pretreatment system will consist of two process modules. Each process module will include a process enclosure to perform filtration and ion exchange operations, an ancillary enclosure to house equipment for air, water, and chemical supply, and a control enclosure to contain the human-machine interface equipment to operate the system. The resultant waste from the 200 West tank farm pretreatment system will be routed into a waste storage tank and then pumped into tanker trucks via the SY Load-in/Load-out Station. The tanker trucks will deliver the pretreated waste to off-site facilities for treatment, followed by off-site disposal.

Spent ion exchange columns will be interim stored on a concrete pad adjacent to the 200 West tank farm pretreatment system. A dedicated forklift will remove them and transport them to the storage pad via a concrete travel path.

The project will seek approval of Critical Decision 3A, "Long-Lead Item Procurement," for long-lead procurements and fabrications, primarily the tank farm pretreatment modules.

### Justification

The Hanford Field Office has a mission need to mitigate risks and add operational capabilities to enable near-term retrievals, treat tank waste, and manage double-shell tank space in the 200 West Area Tank Farms. This initiative supports the tank waste mission by:

- Removing SY Tank Farm liquid waste, thereby creating available double-shell tank space in the 200 West Area to enable single-shell tank retrievals and serve as emergency space within the double-shell tank system.
- Reducing reliance on a single cross-site supernatant transfer line to deliver untreated radioactive liquid waste to the 200 East Area.
- Complementing the Direct-Feed Low-Activity Waste approach to near-term vitrification of low-activity tank waste in the 200 East Area by establishing a parallel and near-term capability in the 200 West Area.
- Removing a constraint to enable increased operations of the 222-S Laboratory during the Direct-Feed Low-Activity Waste mission by creating additional space for laboratory waste in Tank SY-101.

- Removing over two million curies of cesium-137 and associated radioactive decay products in SY Tank Farm years earlier than currently planned.

The addition of a capability within the 200 West Area provides the needed operational flexibility to manage double-shell tank space. This will supplement the Direct-Feed Low-Activity Waste program capabilities to ensure continuous treatment of tank waste and progress toward emptying tanks across the Hanford Site.

The project will support retrieving waste from 22 tanks in Hanford’s 200 West Area by 2040, as part of the agreement reached with the Washington State Department of Ecology. The agreement proposes a realistic and achievable course for cleaning up millions of gallons of radioactive and chemical waste from large, underground tanks at the Hanford Site, including retrieving single-shell tanks from 200 West Area and grouting the low-activity portion of the waste for off-site disposal. The creation of additional available double-shell tank space in the 200 West Area will improve the capability to meet double-shell tank emergency space requirements and expedite the 200 West Area single-shell tank retrieval and closure process. Addressing this gap in the 200 West Area supports near-term reduction of risk, life-cycle cost, and schedule durations without sacrificing compliance with federal regulations and maintains safety of the workers, the public, and the environment.

The project is being conducted in accordance with the project management requirements in DOE O 413.3B, *Program and Project Management for the Acquisition of Capital Assets*.

**Key Performance Parameters**

Notional or draft Key Performance Parameters are being provided. Formally defined Key Performance Parameters will be approved by the corresponding Project Management Executive at Critical Decision 2, “Approve Performance Baseline.”

The project design will determine the needed capability to allow for risk mitigation and near-term tank retrievals in the 200 West Area of the Hanford Site as documented in the approved Critical Decision-1 package. However, the 200 West tank farm pretreatment system must have the same internal functionality and basic design architecture as the Advanced Modular Pretreatment System (15-D-409-02) pretreatment unit(s). The 200 West tank farm pretreatment system design will include solids removal by filtration. Cesium will be removed from the filtrate in ion-exchange columns. The 200 West tank farm pretreatment system will consist of two process modules. Each module will have a nominal flow rate of five gallons per minute throughput, totaling a nominal flow rate of 10 gallons per minute of pretreated waste for the project.

**5. Financial Schedule**

	(Dollars in thousands)		
	Appropriations	Obligations	Costs
Total Estimated Cost (TEC)			
Design			
FY 2023	4,408	0	0
FY 2024	15,309	0	0
FY 2025	31,083	50,800	21,900
FY 2026	22,500	22,500	51,400

	(Dollars in thousands)		
	Appropriations	Obligations	Costs
Total, Design	TBD	TBD	TBD
Construction			
FY 2024	0	0	0
FY 2025	6,726	6,726	0
FY 2026	15,000	15,000	0
FY 2027	90,000	90,000	68,000
Outyears	TBD	TBD	TBD
Total, Construction	TBD	TBD	TBD
TEC			
FY 2023	4,408	0	0
FY 2024	15,309	0	0
FY 2025	37,809	57,526	21,900
FY 2026	37,500	37,500	51,400
FY 2027	90,000	90,000	68,000
Outyears	TBD	TBD	TBD
Total TEC	TBD	TBD	TBD
Other Project Cost (OPC)			
OPC except D&D			
FY 2021	578	578	578
FY 2022	3,422	3,422	262
FY 2023	500	500	3,660
FY 2024	5,000	5,000	5,000
FY 2025	6,000	6,000	4,400
FY 2026	18,900	18,900	1,300
FY 2027	19,000	19,000	1,300
Outyears	TBD	TBD	TBD
Total OPC except D&D	TBD	TBD	TBD
Total Project Cost (TPC)			
FY 2021	578	578	578
FY 2022	3,422	3,422	262
FY 2023	4,908	500	3,660
FY 2024	20,309	5,000	5,000
FY 2025	43,809	63,526	26,300
FY 2026	56,400	56,400	52,700
FY 2027	109,000	109,000	69,300
Outyears	TBD	TBD	TBD
Total TPC	TBD	TBD	TBD

**Environmental Management/  
River Protection/23-D-403 Hanford 200 West Area Tank  
Farms Risk Management Project  
Hanford, Richland, Washington (ORP-0014)**

**FY 2027 Congressional Justification**

**6. Details of Project Cost Estimate**

	(Dollars in thousands)		
	Current Total Estimate	Previous Total Estimate	Original Validated Baseline
<b>Total Estimated Cost (TEC)</b>			
Design			
Design	TBD	TBD	TBD
Contingency	TBD	TBD	TBD
Total, Design	TBD	TBD	TBD
Construction			
Construction	TBD	TBD	TBD
Contingency	TBD	TBD	TBD
Total, Construction	TBD	TBD	TBD
Total, TEC	TBD	TBD	TBD
Contingency, TEC	TBD	TBD	TBD
<b>Other Project Cost (OPC)</b>			
OPC except D&D			
Conceptual Design	TBD	TBD	TBD
Commissioning	TBD	TBD	TBD
Project Support	TBD	TBD	TBD
Contingency	TBD	TBD	TBD
Total, OPC	TBD	TBD	TBD
Contingency, OPC	TBD	TBD	TBD
<b>Total, TPC</b>	TBD	TBD	TBD
<b>Total Contingency</b>	TBD	TBD	TBD

**7. Schedule of Appropriations Requests**

		Prior Years	FY 2025	FY 2026	FY 2027	Outyears	Total
FY 2023	TEC	3,908	TBD	TBD	TBD	TBD	TBD
	OPC	4,500	TBD	TBD	TBD	TBD	TBD
	TPC	8,408	TBD	TBD	TBD	TBD	TBD
FY 2024	TEC	19,717	TBD	TBD	TBD	TBD	TBD
	OPC	9,500	TBD	TBD	TBD	TBD	TBD
	TPC	29,217	TBD	TBD	TBD	TBD	TBD
FY 2025	TEC	19,717	37,500	TBD	TBD	TBD	TBD
	OPC	9,500	6,000	TBD	TBD	TBD	TBD
	TPC	29,217	43,500	TBD	TBD	TBD	TBD
FY 2026	TEC	19,717	37,809	108,200	TBD	TBD	TBD
	OPC	9,500	6,000	18,900	TBD	TBD	TBD
	TPC	29,217	43,809	127,100	TBD	TBD	TBD
FY 2027 Request	TEC	19,717	37,809	37,500	90,000	TBD	TBD
	OPC	9,500	6,000	18,900	19,000	TBD	TBD
	TPC	29,217	43,809	56,400	109,000	TBD	TBD

**8. Related Operations and Maintenance Funding Requirements**

Start of Operation or Beneficial Occupancy (fiscal quarter or date)	TBD
Expected Useful Life (number of years)	TBD
Expected Future Start of D&D of this capital asset (fiscal quarter)	TBD

(Dollars in thousands)

	Annual Costs		Life Cycle Costs	
	Current Total Estimate	Previous Total Estimate	Current Total Estimate	Previous Total Estimate
Operations and Maintenance	TBD	TBD	TBD	TBD
Total	TBD	TBD	TBD	TBD

## **9. Decommissioning & Demolition Information**

This project is providing new capability and not replacing current capability.

This project's location is an environmental management closure site, so it is exempt from the “one-for-one” requirement.

## **10. Acquisition Approach**

To complete this project safely and in the most cost-effective manner, the Hanford Field Office will direct the Tank Waste Operations prime contractor to perform and manage this work. This approach makes the best use of site expertise and efficiently uses the existing contract.

The Tank Waste Operations prime contractor will serve as the design authority responsible for establishing the design requirements and ensuring that design output documents accurately reflect the design basis. The design authority is responsible for design control and ultimate technical adequacy of the design process. These responsibilities are applicable whether the process is conducted fully in-house, partially contracted to outside organizations, or fully contracted to outside organizations. The design authority will carefully control and monitor each design tier to ensure the design inputs, design constraints, design analysis and calculations, and design requirements are identified, accurate, complete, and documented.

The Tank Waste Operations contractor will competitively award subcontracts for project sub-elements to provide the best value to the government. Various subcontractors will be used for support services such as engineering design, technical expertise, technology development, permitting, and safety documentation. Subcontracting strategies for these services will be determined based on the circumstances and work scope of each critical decision.

**15-D-409, Low-Activity Waste Pretreatment System  
Hanford, Richland, Washington (ORP-0014)  
Project is for Design and Construction**

**1. Summary and Significant Changes**

**Summary**

The FY 2027 request for the Low-Activity Waste Pretreatment System is \$100,000,000 to support design and construction of subproject 2 (15-D-409-02), including Total Estimated Cost of \$75,000,000 under the congressional control point for the Low-Activity Waste Pretreatment System and Other Project Cost of \$25,000,000 under the congressional control point for Radioactive Liquid Tank Waste Stabilization and Disposition. The Tank-Side Cesium Removal Demonstration Subproject (15-D-409-01) is complete. This Project Data Sheet is an update of the fiscal year 2026 Project Data Sheet. The cost range was defined through the Critical Decision-1 process for the next subproject, the Advanced Modular Pretreatment System (15-D-409-02). On April 29, 2024, the project received Critical Decision-1R approval. The current preliminary cost estimate range for the Low-Activity Waste Pretreatment System is \$596,000,000 to \$845,000,000, of which the Advanced Modular Pretreatment System comprises \$291,000,000 to \$540,000,000. The schedule range for Critical Decision-4 is the second quarter of fiscal year 2029 to the third quarter of fiscal year 2031.

The selected alternative builds upon the success of the previous Tank-Side Cesium Removal Demonstration Subproject (15-D-409-01) both from a design and technology perspective. The Advanced Modular Pretreatment System (15-D-409-02) design will incorporate lessons learned from 15-D-409-01 and be comprised of two process modules instead of one. These columns are the same technology used in 15-D-409-01. The updated process modules will provide the Waste Treatment and Immobilization Plant with the required feed for Direct-Feed Low-Activity Waste operations. Additionally, the Advanced Modular Pretreatment System will utilize the same existing double-shell tanks for incoming and process waste as 15-D-409-01. Subproject 15-D-409-02 is needed to support the Waste Treatment and Immobilization Plant by fiscal year 2029 based on Direct-Feed Low Activity Waste hot operations beginning in 2025.

The Total Project Cost for subproject 15-D-409-01 was \$157,539,000 and the current rough order of magnitude Total Project Cost estimate for subproject 15-D-409-02 is \$310,375,000.

The project activities are being led by a certified Federal Project Director.

**Significant Changes**

The project is focused on progressing the design in support of Critical Decision-2/3 approval of the performance baseline, anticipated in 2027. Critical Decision-3A approval of long-lead procurements was granted in 2025.

## 2. Critical Milestone History

CD-0 – Approve Mission Need

Conceptual Design Complete – Estimated date the conceptual design will be completed

CD-1 – Approve Alternative Selection and Cost Range

CD-2 – Approve Performance Baseline

Final Design Complete – Estimated date the project design will be completed

CD-3A – Long Lead Procurement and Site Preparation

CD-3 – Approve Start of Construction

D&D Complete – Completion of decontamination and decommissioning work

CD-4 – Approve Start of Operations or Project Completion

### Overall Project (15-D-409)

Fiscal Quarter or  
Date

Fiscal Year	CD-0	Conceptual Design Complete	CD-1	CD-2	Final Design Complete	CD-3A	CD-3	D&D Complete	CD-4
FY 2015	2Q FY 2014	2Q FY 2015	TBD	TBD	TBD	TBD	TBD	N/A	TBD
FY 2016	3/17/2014	2Q FY 2015	2Q FY 2015	TBD	TBD	TBD	TBD	N/A	TBD
FY 2017	3/17/2014	1/15/2015	5/19/2015	TBD	TBD	TBD	TBD	N/A	TBD
FY 2018	3/17/2014	1/15/2015	5/19/2015	TBD	TBD	TBD	TBD	N/A	TBD
FY 2019	3/17/2014	1/15/2015	5/19/2015	TBD	TBD	TBD	TBD	N/A	TBD
FY 2020	3/17/2014	1/15/2015	5/19/2015	TBD	TBD	TBD	TBD	N/A	TBD
FY 2024	3/17/2014	1/15/2015	5/19/2015	TBD	TBD	TBD	TBD	N/A	TBD
FY 2025	3/17/2014	1/15/2015	5/19/2015	TBD	TBD	TBD	TBD	N/A	TBD
FY 2026	3/17/2014	9/30/2023	4/29/2024	TBD	TBD	TBD	TBD	N/A	TBD
FY 2027	3/17/2014	9/30/2023	4/29/2024	TBD	TBD	TBD	TBD	N/A	TBD

### Tank-Side Cesium Removal Demonstration Subproject (15-D-409-01)

Fiscal Quarter or Date

Fiscal Year	CD-0	Conceptual Design Complete	CD-1	CD-2	Final Design Complete	CD-3	D&D Complete	CD-4
FY 2015	2Q FY2014							
FY 2016	3/17/2014	2Q 2015	2Q 2015					
FY 2017	3/17/2014	1/15/2015	5/19/2015					
FY 2018	3/17/2014	1/15/2015	5/19/2015	TBD	TBD	TBD	N/A	TBD
FY 2019	3/17/2014	1/15/2015	5/19/2015	TBD	TBD	TBD	N/A	TBD
FY 2019 Update	3/17/2014	1/15/2015	5/19/2015	TBD	TBD	TBD	N/A	TBD

**Environmental Management/  
River Protection/15-D-409 Low-Activity Waste  
Pretreatment System  
Hanford, Richland, Washington (ORP-0014)**

**FY 2027 Congressional Justification**

Fiscal Year	CD-0	Conceptual Design Complete	CD-1	CD-2	Final Design Complete	CD-3	D&D Complete	CD-4
FY 2020	3/17/2014	1/15/2015	5/19/2015	TBD	TBD	TBD	N/A	TBD
FY 2024	3/17/2014	1/15/2015	5/19/2015	2/26/2020	2/26/2020	2/26/2020	N/A	4/12/2022

**Advanced Modular Pretreatment System (15-D-409-02):**

Fiscal Quarter or Date

Fiscal Year	CD-0	Conceptual Design Complete	CD-1	CD-2	Final Design Complete	CD-3A	CD-3	D&D Complete	CD-4
FY 2020	3/17/2014	TBD	TBD	TBD	TBD	TBD	TBD	N/A	TBD
FY 2024	3/17/2014	TBD	TBD	TBD	TBD	TBD	TBD	N/A	TBD
FY 2025	3/17/2014	TBD	TBD	TBD	TBD	TBD	TBD	N/A	TBD
FY 2026	3/17/2014	9/30/2023	4/29/2024	TBD	TBD	TBD	TBD	N/A	TBD
FY 2027	3/17/2014	9/30/2023	4/29/2024	TBD	TBD	8/21/2025	TBD	N/A	TBD

**3. Project Cost History**

**Tank-Side Cesium Removal Demonstration Subproject (15-D-409-01)**

(Dollars in Thousands)

Fiscal Year	TEC, Design	TEC, Construction	TEC, Total	OPC	TPC
FY 2018	TBD	TBD	TBD	TBD	TBD
FY 2019	TBD	TBD	TBD	TBD	TBD
FY 2020	TBD	TBD	TBD	TBD	TBD
FY 2024	21,515	126,900	148,415	9,124	157,539

**Advanced Modular Pretreatment System (15-D-409-02)**

(Dollars in Thousands)

Fiscal Year	TEC, Design	TEC, Construction	TEC, Total	OPC	TPC
FY 2024	TBD	TBD	TBD	TBD	TBD
FY 2025	TBD	TBD	TBD	TBD	TBD
FY 2026	TBD	TBD	TBD	TBD	TBD
FY 2027	TBD	TBD	TBD	TBD	TBD

**Overall Project (15-D-409)<sup>1</sup>**

(Dollars in Thousands)

**Environmental Management/  
River Protection/15-D-409 Low-Activity Waste  
Pretreatment System  
Hanford, Richland, Washington (ORP-0014)**

**FY 2027 Congressional Justification**

Fiscal Year	TEC, Design	TEC, Construction	TEC, Total	OPC	TPC
FY 2015	60,000	TBD	TBD	TBD	TBD
FY 2016	TBD	TBD	TBD	TBD	TBD
FY 2017	TBD	TBD	TBD	TBD	TBD
FY 2018	TBD	TBD	TBD	TBD	TBD
FY 2019	TBD	TBD	TBD	TBD	TBD
FY 2020	TBD	TBD	TBD	TBD	TBD
FY 2024	TBD	TBD	TBD	TBD	TBD
FY 2025	TBD	TBD	TBD	TBD	TBD
FY 2026	TBD	TBD	TBD	TBD	TBD
FY 2027	TBD	TBD	TBD	TBD	TBD

<sup>1</sup> Includes costs incurred prior to inception of the Tank-Side Cesium Removal Demonstration Subproject.

Construction funds will be used for approved long-lead procurement(s) prior to obtaining Critical Decision-3, “Approve Start of Construction.” Construction funds may be used for activities such as site preparation work, site characterization, limited access, safety, and security issues (i.e., fences) prior to obtaining Critical Decision-3, “Approve Start of Construction.”

#### 4. Project Scope and Justification

##### Scope

This project will design and build a Low-Activity Waste Pretreatment System to treat tank waste to produce a low-activity waste feed stream that meets the waste acceptance criteria of the Waste Treatment and Immobilization Plant’s Low-Activity Waste Facility. Operation of the Low-Activity Waste Pretreatment System and the Low-Activity Waste Facility will reduce environmental risk by immobilizing tank farm liquids, freeing up approximately 1,000,000 gallons per year of double-shell tank space, allowing additional single-shell tanks to be retrieved, and reduce startup risks of the Waste Treatment and Immobilization Plant.

The Low-Activity Waste Pretreatment System will be designed with the throughput to provide sufficient feed to operate the two large Waste Treatment Plant Low-Activity Waste Facility melters at full capacity. The Low-Activity Waste Pretreatment System will be designed and deployed in a phased manner to correspond with the startup of the Low-Activity Waste Facility.

The Low-Activity Waste Pretreatment System project consists of the following subprojects:

**Tank-Side Cesium Removal Demonstration Subproject (15-D-409-01):** The initial phase utilized Tank-Side Cesium Removal equipment to provide initial feed. The subproject constructed the waste transfer system to feed waste from tank-side cesium removal to the Waste Treatment and Immobilization Plant, which demonstrated the technology, methodology, procedures, and practices needed to provide the initial five million gallons of pretreated low-activity waste feed to the Waste Treatment and Immobilization Plant.

**Advanced Modular Pretreatment System (15-D-409-02):** Experience obtained from the Tank-Side Cesium Removal Demonstration Subproject including design, fabrication, factory acceptance testing, permitting, and operations is informing the Advanced Modular Pretreatment System’s development.

**Environmental Management/  
River Protection/15-D-409 Low-Activity Waste  
Pretreatment System  
Hanford, Richland, Washington (ORP-0014)**

**FY 2027 Congressional Justification**

## **Justification**

The Low-Activity Waste Facility has met the interim milestones in the Amended Consent Decree, State of Washington v. DOE, Case No. 2:08-CV-5085-RMP (E.D. Wash.). Under the Amended Consent Decree, interim milestone D-00A-09, the Low-Activity Waste Facility completed hot commissioning on October 15, 2025, meaning “the point at which the Low-Activity Waste facility has demonstrated its ability to produce immobilized low-activity waste glass of acceptable quality.” Provision for a tank waste treatment capability is required to provide low-activity waste feed to the Low-Activity Waste Facility.

Operation of the Advanced Modular Pretreatment System along with the Low-Activity Waste Facility mitigates Waste Treatment and Immobilization Plant startup and commissioning risks and accelerates overall low-activity waste immobilization. Based on an estimated 10 to 20 years of operations, it is expected that 9,600 metric tons of tank waste sodium (15 percent of the tank farms sodium inventory) will be immobilized, reducing environmental risk, and freeing up approximately one million gallons per year of double-shell tank space, which can then be used to support waste retrievals from the older single-shell tanks to the newer and safer double-shell tanks.

The project is being conducted in accordance with the project management requirements in DOE O 413.3B, *Program and Project Management for the Acquisition of Capital Assets*.

## **Key Performance Parameters**

Notional or draft Key Performance Parameters are being provided. Formally defined Key Performance Parameters will be approved by the corresponding Project Management Executive at Critical Decision-2/3, Approve Performance Baseline.

Performance Measure	Threshold
Quantity	Provide two Advanced Modular Pretreatment System process modules.
Solids Filtration	The Advanced Modular Pretreatment System’s filtration system shall provide particle filtration to meet Low-Activity Waste feed acceptance criteria.
Processing Rate	Provide the Advanced Modular Pretreatment System process modules and supporting infrastructure capable of transferring and pretreating five gallons per minute (instantaneous rate) of tank waste for each process module.
Cesium Removal	The Advanced Modular Pretreatment System shall be capable of removing cesium via crystalline silicotitanate cesium ion exchange media. The concentration of radioactive <sup>137</sup> Cs after cesium removal shall meet the Low-Activity Waste feed acceptance criteria.

## **5. Financial Schedule**

### **Financial Schedule**

Low-Activity Waste Pretreatment System funding is appropriated at the overall project level (15-D-409) and is allocated to the subprojects in the tables below.

**Environmental Management/  
River Protection/15-D-409 Low-Activity Waste  
Pretreatment System  
Hanford, Richland, Washington (ORP-0014)**

**FY 2027 Congressional Justification**

**Tank-Side Cesium Removal Demonstration Subproject (15-D-409-01)**

(dollars in thousands)

	Appropriations	Obligations	Costs
Total Estimated Cost (TEC)			
Design			
FY 2017	21,515	0	0
FY 2018	0	3,110	3,110
FY 2019	0	13,471	13,471
FY 2020	0	4,861	4,861
FY 2021	0	73	73
Total Design	21,515	21,515	21,515
Construction			
FY 2017	7,108	0	0
FY 2018	92,550	9,304	9,304
FY 2019	27,242	24,610	24,610
FY 2020	0	43,483	43,483
FY 2021	0	46,485	46,485
FY 2022	0	3,018	3,018
Total Construction	126,900	126,900	126,900
TEC			
FY 2017	28,623	0	0
FY 2018	92,550	12,414	12,414
FY 2019	27,242	38,081	38,081
FY 2020	0	48,344	48,344
FY 2021	0	46,558	46,558
FY 2022	0	3,018	3,018
Total, TEC	148,415	148,415	148,415
Other Project Cost (OPC)			
OPC			
FY 2018	1,500	1,500	1,500
FY 2019	340	340	340
FY 2020	263	263	263
FY 2021	6,354	6,354	6,354
FY 2022	667	667	667
Total, OPC	9,124	9,124	9,124

**Environmental Management/  
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Hanford, Richland, Washington (ORP-0014)**

**FY 2027 Congressional Justification**

	Appropriations	Obligations	Costs
Total Project Cost (TPC)			
FY 2017	28,623	0	0
FY 2018	94,050	13,914	13,914
FY 2019	27,582	38,421	38,421
FY 2020	263	48,607	48,607
FY 2021	6,354	52,912	52,912
FY 2022	667	3,685	3,685
Total, TPC	157,539	157,539	157,539

**Advanced Modular Pretreatment System (15-D-409-02):** The final schedule will be based on past Tank-Side Cesium Removal Demonstration Subproject performance, including design changes and more than one unit.

	(Dollars in Thousands)		
	Appropriations	Obligations	Costs
Total Estimated Cost (TEC)			
Design			
FY 2019 <sup>1</sup>	14,900	0	0
FY 2024	30,900	9,000	4,600
FY 2025	1,200	38,000	23,000
FY 2026	0	0	19,400
Total Design	TBD	TBD	TBD
Construction			
FY 2017 <sup>1</sup>	5,000	0	0
FY 2018 <sup>1</sup>	450	0	0
FY 2019 <sup>1</sup>	13,911	0	0
FY 2024	29,100	0	0
FY 2025	36,300	84,761	0
FY 2026	50,000	50,000	66,400
FY 2027	75,000	75,000	142,600
Outyears	TBD	TBD	TBD
Total Construction	TBD	TBD	TBD
TEC			
FY 2017 <sup>1</sup>	5,000	0	0
FY 2018 <sup>1</sup>	450	0	0
FY 2019 <sup>1</sup>	28,811	0	0
FY 2024	60,000	9,000	4,600

**Environmental Management/  
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Hanford, Richland, Washington (ORP-0014)**

**FY 2027 Congressional Justification**

	(Dollars in Thousands)		
	Appropriations	Obligations	Costs
FY 2025	37,500	122,761	23,000
FY 2026	50,000	50,000	85,800
FY 2027	75,000	75,000	142,600
Outyears	TBD	TBD	TBD
<b>Total, TEC</b>	<b>TBD</b>	<b>TBD</b>	<b>TBD</b>
Other Project Cost (OPC)			
OPC			
FY 2022	500	500	500
FY 2023	3,000	3,000	3,000
FY 2024	7,700	3,000	3,000
FY 2025	3,875	8,575	700
FY 2026	15,400	15,400	500
FY 2027	25,000	25,000	0
Outyears	TBD	TBD	TBD
<b>Total, OPC</b>	<b>TBD</b>	<b>TBD</b>	<b>TBD</b>
Total Project Cost (TPC)			
FY 2017 <sup>1</sup>	5,000	0	0
FY 2018 <sup>1</sup>	450	0	0
FY 2019 <sup>1</sup>	28,811	0	0
FY 2022	500	500	500
FY 2023	3,000	3,000	3,000
FY 2024	67,700	12,000	7,600
FY 2025	41,375	131,336	23,700
FY 2026	65,400	65,400	86,300
FY 2027	100,000	100,000	142,600
Outyears	TBD	TBD	TBD
<b>Total, TPC</b>	<b>TBD</b>	<b>TBD</b>	<b>TBD</b>

<sup>1</sup> Prior year carryover from the Tank-Side Cesium Removal Demonstration Subproject.

**Overall Project (15-D-409)<sup>1</sup>**

	(dollars in thousands)		
	Appropriations	Obligations	Costs
Total Estimated Cost (TEC)			

**Environmental Management/  
River Protection/15-D-409 Low-Activity Waste  
Pretreatment System  
Hanford, Richland, Washington (ORP-0014)**

**FY 2027 Congressional Justification**

	(dollars in thousands)		
	Appropriations	Obligations	Costs
<b>Design</b>			
FY 2015	21,791	5,765	5,765
FY 2016	60,827	25,544	25,544
FY 2017	44,961	46,175	46,175
FY 2018	0	30,092	30,092
FY 2019	14,900	14,926	14,926
FY 2020	0	5,034	5,034
FY 2021	0	43	43
FY 2022	0	0	0
FY 2023	0	0	0
FY 2024	30,900	9,000	4,600
FY 2025	1,200	38,000	23,000
FY 2026	0	0	19,400
<b>Total Design</b>	<b>TBD</b>	<b>TBD</b>	<b>TBD</b>
<b>Construction</b>			
FY 2015	1,209	1,209	1,209
FY 2016	14,173	14,173	14,173
FY 2017	28,039	11,523	11,523
FY 2018	93,000	12,571	12,571
FY 2019	41,153	25,751	25,751
FY 2020	0	43,479	43,479
FY 2021	0	46,485	46,485
FY 2022	0	3,022	3,022
FY 2023	0	0	0
FY 2024	29,100	0	0
FY 2025	36,300	84,761	0
FY 2026	50,000	50,000	66,400
FY 2027	75,000	75,000	142,600
<b>Outyears</b>	<b>TBD</b>	<b>TBD</b>	<b>TBD</b>
<b>Total Construction</b>	<b>TBD</b>	<b>TBD</b>	<b>TBD</b>
<b>TEC</b>			
FY 2015	23,000	6,974	6,974
FY 2016	75,000	39,717	39,717
FY 2017	73,000	57,698	57,698
FY 2018	93,000	42,663	42,663
FY 2019	56,053	40,677	40,677
FY 2020	0	48,513	48,513
FY 2021	0	46,528	46,528
FY 2022	0	3,022	3,022
FY 2023	0	0	0

**Environmental Management/  
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Hanford, Richland, Washington (ORP-0014)**

**FY 2027 Congressional Justification**

	(dollars in thousands)		
	Appropriations	Obligations	Costs
FY 2024	60,000	9,000	4,600
FY 2025	37,500	122,761	23,000
FY 2026	50,000	50,000	85,800
FY 2027	75,000	75,000	142,600
Outyears	TBD	TBD	TBD
Total, TEC	TBD	TBD	TBD
Other Project Cost (OPC)			
<b>OPC</b>			
FY 2014	4,397	4,397	4,397
FY 2015	5,252	5,252	5,252
FY 2016	408	408	408
FY 2017	447	447	447
FY 2018	1,853	1,853	1,853
FY 2019	340	340	340
FY 2020	263	263	263
FY 2021	6,354	6,354	6,354
FY 2022	1,167	1,167	1,167
FY 2023	3,000	3,000	3,000
FY 2024	7,700	3,000	3,000
FY 2025	3,875	8,575	700
FY 2026	15,400	15,400	500
FY 2027	25,000	25,000	0
Outyears	TBD	TBD	TBD
Total, OPC	TBD	TBD	TBD
Total Project Cost (TPC)			
FY 2014	4,397	4,397	4,397
FY 2015	28,252	12,226	12,226
FY 2016	75,408	40,125	40,125
FY 2017	73,447	58,145	58,145
FY 2018	94,853	44,516	44,516
FY 2019	56,393	41,017	41,017
FY 2020	263	48,776	48,776
FY 2021	6,354	52,882	52,882
FY 2022	1,167	4,189	4,189
FY 2023	3,000	3,000	3,000
FY 2024	67,700	12,000	7,600
FY 2025	41,375	131,336	23,700
FY 2026	65,400	65,400	86,300

**Environmental Management/  
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Hanford, Richland, Washington (ORP-0014)**

**FY 2027 Congressional Justification**

	(dollars in thousands)		
	Appropriations	Obligations	Costs
FY 2027	100,000	100,000	142,600
Outyears	TBD	TBD	TBD
Total, TPC	TBD	TBD	TBD

<sup>1</sup> Includes costs incurred prior to inception of the Tank-Side Cesium Removal Demonstration Subproject.

## 6. Details of Project Cost Estimate

### Tank-Side Cesium Removal Demonstration Subproject (15-D-409-01)

	(dollars in thousands)		
	Current Total Estimate	Previous Total Estimate	Original Validated Baseline
Total Estimated Cost (TEC)			
Design			
Design	21,515	21,515	N/A
Contingency			N/A
Total, Design	21,515	21,515	N/A
Construction			
Building & Site Work	126,900	126,900	N/A
Contingency			N/A
Total Construction	126,900	126,900	N/A
Total, TEC	148,415	148,415	N/A
Contingency, TEC			N/A
Other Project Cost (OPC)			
OPC except D&D			
Conceptual Planning	500	500	N/A
Conceptual Design	2,000	2,000	N/A
Other, OPC	6,624	6,624	N/A
Total, OPC except for D&D	9,124	9,124	N/A
Total, OPC	9,124	9,124	N/A
Contingency, OPC			N/A
Total, Total Project Cost	157,539	157,539	N/A
Total, Contingency			N/A

**Environmental Management/  
River Protection/15-D-409 Low-Activity Waste  
Pretreatment System  
Hanford, Richland, Washington (ORP-0014)**

**FY 2027 Congressional Justification**

**Advanced Modular Pretreatment System (15-D-409-02)**

	(dollars in thousands)		
	Current Total Estimate	Previous Total Estimate	Original Validated Baseline
Total Estimated Cost (TEC)			
Design			
Design	45,300	TBD	TBD
Contingency	1,700	TBD	TBD
Total, Design	47,000	TBD	TBD
Construction			
Building & Site Work	407,852	TBD	TBD
Contingency	23,100	TBD	TBD
Total Construction	TBD	TBD	TBD
Total, TEC	TBD	TBD	TBD
Contingency, TEC	TBD	TBD	TBD
Other Project Cost (OPC)			
OPC except D&D			
Conceptual Planning	TBD	TBD	N/A
Conceptual Design	TBD	TBD	N/A
Permitting	TBD	TBD	N/A
Commissioning	TBD	TBD	N/A
Other, OPC	TBD	TBD	N/A
Contingency	TBD	TBD	N/A
Total, OPC except for D&D	TBD	TBD	N/A
Total, OPC	TBD	TBD	N/A
Contingency, OPC	TBD	TBD	N/A
Total, Total Project Cost	TBD	TBD	N/A
Total, Contingency	TBD	TBD	N/A

**Environmental Management/  
River Protection/15-D-409 Low-Activity Waste  
Pretreatment System  
Hanford, Richland, Washington (ORP-0014)**

**FY 2027 Congressional Justification**

**Overall Project (15-D-409)<sup>1</sup>**

	(dollars in thousands)		
	Current Total Estimate	Previous Total Estimate	Original Validated Baseline
Total Estimated Cost (TEC)			
Design			
Design	TBD	TBD	N/A
Contingency	TBD	TBD	N/A
Total, Design	TBD	TBD	N/A
Construction			
Building & Site Work	TBD	TBD	N/A
Contingency	TBD	TBD	N/A
Total Construction	TBD	TBD	N/A
Total, TEC	TBD	TBD	N/A
Contingency, TEC	TBD	TBD	N/A
Other Project Cost (OPC)			
OPC except D&D			
Conceptual Planning	TBD	TBD	N/A
Conceptual Design	TBD	TBD	N/A
Permitting	TBD	TBD	N/A
Commissioning	TBD	TBD	N/A
Other, OPC	TBD	TBD	N/A
Contingency	TBD	TBD	N/A
Total, OPC except for D&D	TBD	TBD	N/A
Total, OPC	TBD	TBD	N/A
Contingency, OPC	TBD	TBD	N/A
Total, Total Project Cost <sup>1</sup>	TBD	TBD	N/A
Total, Contingency	TBD	TBD	N/A

<sup>1</sup> Includes costs incurred prior to inception of the Tank-Side Cesium Removal Demonstration Subproject.

**7. Schedule of Appropriation Requests**

(Dollars in Thousands)

Request		Prior Years	FY 2025	FY 2026	FY 2027	Outyears	Total
FY 2015	TEC	23,000	0	0	0	0	23,000
	OPC	9,649	0	0	0	0	9,649

**Environmental Management/  
River Protection/15-D-409 Low-Activity Waste  
Pretreatment System  
Hanford, Richland, Washington (ORP-0014)**

**FY 2027 Congressional Justification**

Request		Prior Years	FY 2025	FY 2026	FY 2027	Outyears	Total
	TPC	32,649	0	0	0	0	32,649
FY 2016	TEC	98,000	0	0	0	0	98,000
	OPC	10,057	0	0	0	0	10,057
	TPC	108,057	0	0	0	0	108,057
FY 2017	TEC	171,000	0	0	0	0	171,000
	OPC	10,504	0	0	0	0	10,504
	TPC	181,504	0	0	0	0	181,504
FY 2018	TEC	264,000	0	0	0	0	264,000
	OPC	12,357	0	0	0	0	12,357
	TPC	276,357	0	0	0	0	276,357
FY 2019	TEC	320,053	0	0	0	0	320,053
	OPC	12,697	0	0	0	0	12,697
	TPC	332,750	0	0	0	0	332,750
FY 2020	TEC	320,053	0	0	0	0	320,053
	OPC	12,960	0	0	0	0	12,960
	TPC	333,013	0	0	0	0	333,013
FY 2024	TEC	380,053	TBD	TBD	TBD	TBD	TBD
	OPC	31,181	TBD	TBD	TBD	TBD	TBD
	TPC	411,234	TBD	TBD	TBD	TBD	TBD
FY 2025	TEC	380,053	37,500	TBD	TBD	TBD	TBD
	OPC	31,181	3,875	TBD	TBD	TBD	TBD
	TPC	411,234	41,375	TBD	TBD	TBD	TBD
FY 2026	TEC	380,053	37,500	78,600	TBD	TBD	TBD
	OPC	31,181	3,875	15,400	TBD	TBD	TBD
	TPC	411,234	41,375	94,000	TBD	TBD	TBD
FY 2027	TEC	380,053	37,500	50,000	75,000	TBD	TBD
	OPC	31,181	3,875	15,400	25,000	TBD	TBD
	TPC	411,234	41,375	65,400	100,000	TBD	TBD

**8. Related Operations and Maintenance Funding Requirements**

Start of Operation or Beneficial Occupancy (fiscal quarter or date)	TBD
Expected Useful Life (number of years)	TBD
Expected Future Start of decontamination and decommission of this Capital Asset (fiscal quarter)	TBD

**Environmental Management/  
River Protection/15-D-409 Low-Activity Waste  
Pretreatment System  
Hanford, Richland, Washington (ORP-0014)**

**FY 2027 Congressional Justification**

## **Related Funding Requirements**

(Dollars in thousands)

	Annual Costs		Life Cycle Costs	
	Current Total Estimate	Previous Total Estimate	Current Total Estimate	Previous Total Estimate
Operations and Maintenance	TBD	TBD	TBD	TBD

### **9. Decontamination and Decommissioning Information**

This project is providing new capability and not replacing current capability.

The location of this construction project is an environmental management closure site and, therefore, is exempt from the “one-for-one” requirement.

### **10. Acquisition Approach**

To complete this project safely and in the most cost-effective manner, the Hanford Field Office will direct the Tank Waste Operations prime contractor to perform and manage this work. This approach makes the best use of site expertise and efficiently uses the existing contract.

The Tank Waste Operations prime contractor will serve as the design authority responsible for establishing the design requirements and ensuring that design output documents accurately reflect the design basis. The design authority is responsible for design control and ultimate technical adequacy of the design process. These responsibilities are applicable whether the process is conducted fully in-house, partially contracted to outside organizations, or fully contracted to outside organizations. The design authority will carefully control and monitor each design tier to ensure the design inputs, design constraints, design analysis and calculations, and design requirements are identified, accurate, complete, and documented.

The Tank Waste Operations contractor will competitively award subcontracts for project sub-elements to provide the best value to the government. Various subcontractors will be used for support services such as engineering design, technical expertise, technology development, permitting, and safety documentation. Subcontracting strategies for these services will be determined based on the circumstances and work scope of each critical decision.

## **Savannah River**

### **Overview**

The Savannah River Site (SRS) will support the Department of Energy (DOE) to meet the cleanup challenges of the nation's Manhattan Project and Cold War legacy responsibilities. SRS's Environmental Management (EM) mission includes safely storing, treating, and disposing of a variety of radioactive and hazardous waste streams, remediating the environment, deactivating and decommissioning excessed facilities, stabilization and immobilization of tank waste, and the secure storage of foreign and domestic nuclear materials including spent nuclear fuel (SNF) and plutonium. The end-state of SRS will be the elimination or minimization of nuclear materials, SNF, plutonium, and waste through safe stabilization, treatment, and/or disposition as well as environmental cleanup to non-residential levels. Based on current estimates, EM is responsible for addressing \$47.32 billion in identified clean-up liability at SRS – roughly 11 percent of the \$418 billion total liability across all EM sites. Successful implementation of current plans and milestones would result in completion of the identified clean-up mission at SRS in the 2075 to 2085 timeframe.

EM has stewardship responsibilities for the Savannah River National Laboratory (SRNL), a multi-program Federally Funded Research and Development Center that applies unique and specialized capabilities to assist our Nation in mitigating the hazards associated with the Cold War legacy waste; and sustaining and improving our nuclear security. SRNL leverages its competencies and capabilities to advance solutions to these critical national needs for all its customers and applies developed technologies to assist sites across the DOE complex in meeting cleanup requirements.

The direct maintenance and repair activities at the Savannah River Site is estimated to be \$301,978,402 in FY 2027.

The Savannah River Site Operations Office plans to purchase a crane for handling oversized low-level waste at an estimated cost of \$4,000,000.00.

EM will continue to focus on decommissioning of legacy nuclear sites and environmental remediation, while playing a vital role working for the American people through redevelopment of land and reuse of materials. Revitalization can transform legacy sites with unique attributes such as existing infrastructure and skilled workers into hubs of economic strength anchored by nuclear energy, digital infrastructure, and advanced manufacturing.

### **Highlights of the FY 2027 Budget Request**

The Liquid Waste (LW) Program will achieve additional risk reduction by stabilization and immobilization of high activity radionuclides through vitrification into canisters at the Defense Waste Processing Facility (DWPF) and disposition of low-level waste in Saltstone Disposal Units (SDU). To reach the end state of the LW Mission, SRS will accelerate risk reduction by optimizing the fully integrated LW system. This will initially be performed by processing higher curie salt feed batches and improving filtration through the Salt Waste Processing Facility (SWPF). Once the high curie salt batches are completed the Next Generation Solvent (NGS) will be implemented at SWPF when needed to enhance curie reduction. Additionally, closure of Tanks 9, 10, and 11 which reside below the water table and Tanks 13, 14, and 15 which reside partially in the water table of SRS will be given priority. These tanks carry the highest liability to the LW mission and will be accelerated to reduce this risk as early as possible. Optimizations will continue to be developed, informed by system modeling, to further accelerate the LW mission. The FY 2027 request includes other project costs and total estimated cost funding for one line-item construction project: SDU 10-12 at \$89,300,000 (includes \$82,500,000 for Design and Construction and \$6,800,000 for Other Project Cost funds).

The Nuclear Materials Stabilization and Disposition Program will meet 50 U.S. Code § 2633 which requires continued operations and maintaining a high state of readiness for H-Canyon. In support of recent EOs<sup>1</sup>, EM is strategically realigning mission work being performed at SRS. EM has initiated activities to restart the recovery of uranium in H-Canyon from its used nuclear fuel inventories. EM will down-blend the recovered Highly Enriched Uranium (HEU) to High Assay Low Enriched Uranium (HALEU) beginning in FY27. In FY 2026, the Department will maintain safe and secure storage of special nuclear material and dispose of plutonium consistent with the President's Executive Order on Reinvigorating the Nuclear Industrial Base.

The Solid Waste Stabilization and Disposition Program will continue to store, treat, and dispose of transuranic, low-level, mixed low-level, and hazardous waste, as well as pollution prevention, waste minimization, waste certification, and other waste management support functions. Risk reduction efforts will continue through dismantlement and removal of excess legacy waste processing structures and disposal of legacy transuranic waste and mixed low-level waste.

The Soil and Water Remediation and Facility Deactivation and Decommissioning Program will continue to remediate SRS contaminated soils, groundwater, streams (and associated wetlands), and waste sites, governed through enforceable regulatory milestones and commitments; and to deactivate and decommission EM-owned excess facilities.

The Savannah River Community and Regulatory Support Program supports the Citizens Advisory Board; the South Carolina Department of Environmental Services for the implementation of the DOE and South Carolina Agreement in Principle for the Environmental Surveillance and Oversight Program for independent and periodic monitoring of discharges, emissions, or biological parameters necessary and required to verify the effectiveness of the DOE programs; and the Environmental Protection Agency for oversight and implementation of the Federal Facility Agreement.

The Safeguards and Security Program will continue to protect nuclear materials, sensitive weapon and nuclear material production technology, equipment, information facilities, and support the EM environmental cleanup program. This request includes EM's share of cyber security scope to protect government information and technology systems in support of the missions executed at the Site within the existing Safeguards and Security PBS SR-0020 structure.

The Savannah River National Laboratory (SRNL) will continue to support EM environmental cleanup efforts at SRS and across the EM complex by providing integrated solutions that are both modern and practical to address complex environmental cleanup and closure, as well as long-term surveillance and maintenance problems. SRNL plays a critical role for the National Nuclear Security Administration (NNSA) in both weapons and non-proliferation programs by providing essential, enduring, and increasing surveillance, operational/production technology advancement, and research and development services to NNSA Defense Program; conducts significant nonproliferation research and development for NNSA, the Advanced Technology Proving Grounds, and other national security missions; and manages the Mobile Plutonium Facility. SRNL also supports Offices of Science, Legacy Management and Cybersecurity, Energy Security, and Emergency Response.

The Infrastructure and Land Management Program manages a portfolio of EM resources, facilities, and common infrastructure needed for its mission, some of which are degraded to a level that puts them at risk for

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<sup>1</sup> EO 14154 - Unleashing American Energy (January 20, 2025), EO 14299 - Deploying Advanced Nuclear Reactor Technologies for National Security (May 23, 2025), and EO 14302 - Reinvigorating the Nuclear Industrial Base (May 23, 2025)

supporting missions. Most of this portfolio transitioned to NNSA responsibility as part of the shift in stewardship of SRS in FY 2025.

The Savannah River Security System Replacement Project (19-D-701) K-Area portion transitioned to NNSA responsibility in FY 2025. The L Area and the Balance of Plant portions of the project will continue to be executed by EM at SRS.

### **FY 2026-2027 Key Milestones/Outlook**

- (February 2026) Issued Seventh Five-Year Remedy Review Report for SRS Operable Units with Groundwater Remedies.
- (June 2026) Submit Rev. 0 Early Action Record of Decision Remedial Alternative Selection for Beneficial Reuse Coal Ash Units (A-Ash Pile, A-Coal Pile Runoff Basin, F-Ash Landfill, H-Ash Basin, K-Ash Basin, and L-Ash Basin).
- (July 2026) Submit D-Area Ash Basin Wetlands in Support of Savannah River and Floodplain Swamp Integrator Operable Unit Rev. 0 Record of Decision Remedial Alternative.
- (December 2026) Complete Preliminary Cease Waste Removal for two High-Level Waste Tanks.
- (February 2027) Issue EA ROD in Support of Beneficial Reuse of Select Coal Ash and Coal Fines Operable Units (A- Ash Pile, A-Coal Pile Runoff Basin, F-Ash Landfill, H-Ash Basin, K-Ash Basin, and L-Ash Basin).

### **Regulatory Framework**

The DOE-Savannah River Operations Office and its contractors will continue to work proactively with the South Carolina Department of Environmental Services, the Environmental Protection Agency-Region 4, the Nuclear Regulatory Commission, the Defense Nuclear Facilities Safety Board, and stakeholders to accomplish the environmental cleanup and risk reduction objectives at SRS. There are several key agreements, laws, and regulations to govern cleanup of the Site:

- Federal Facility Agreement for SRS
- Comprehensive Environmental Response, Compensation, and Liability Act
- Resource Conservation and Recovery Act Permits
- South Carolina Industrial Wastewater Permits
- Public Law 107-107, National Defense Authorization Act (NDAA) for FY 2002, Section 3155, Disposition of Surplus Defense Plutonium at SRS, Aiken, South Carolina
- Section 3137 of the NDAA for FY 2001 (Public Law 106-398) as amended by Section 3115 of the NDAA for FY 2004 (Public Law 108-136). (50 U.S. Code § 2633 continuation of processing treatment and disposal of legacy nuclear materials.)
- SRS Treatment Plan in accordance Section 3021(b) of the Resource Conservation and Recovery Act as added by the Federal Facility Compliance Act
- Section 3116 of the Ronald W. Reagan National Defense Authorization Act for FY 2005

In relation to PBS SRS-0014C, Radioactive Liquid Tank Waste Stabilization and Disposition, negotiation of new Federal Facility Agreement (FFA) milestones was successfully completed, and agreement signed on December 27, 2022. This negotiation resolved all elements of the SRS FFA Appendix L, Statement of Dispute Resolution, entered in November 2007 and most recently revised in the Suspension Agreement (April 2019), with the exceptions of Paragraphs 9.b and 18 from the 2007 Statement of Dispute Resolution in Appendix L, by committing to implement the actions in this 2022 High Level Waste Tank Milestones Agreement. The new Liquid Waste milestones consist of commitments of Preliminary Cease Waste Removal from 16 non-compliant

storage tanks starting in FY 2025 and commitments to complete operational closure of 16 non-compliant storage tanks starting in FY 2029. There is one additional regulatory commitment to submit Revision 0 of the F-Area Diversion Boxes FDB-5 and -6 Explanation of Significant Difference to the Interim Record of Decision, F-Area Tank Farm, Tanks 17 and 20 by 9/30/2023 (complete) and to issue this document by 3/1/2024 (Complete).

## **Contractual Framework**

Current contracts at the Savannah River Site include:

- Savannah River Nuclear Solutions LLC (SRNS): Contract is a Management and Operations contract for management and operation of the infrastructure, nuclear materials facilities, soil and water remediation, solid waste, and deactivation and decommissioning work at SRS. SRNS also manages and operates National Nuclear Security Administration (NNSA) activities. This contract is a cost-plus-award-fee contract. Ownership of this contract transferred to NNSA as part of the shift in stewardship of SRS in FY 2025.
- Savannah River Mission Completion LLC (SRMC): Contract covers liquid radioactive waste storage, treatment, stabilization, and disposition and cleaning and closing of the liquid radioactive waste storage tanks and ancillary equipment. The Integrated Mission Completion Contract was awarded with Notice to Proceed on November 29, 2021, to SRMC. The contract transition period ended February 26, 2022, making the start of the contract with SRMC effective on February 27, 2022. This is a DOE EM “END STATE” Indefinite-Delivery/Indefinite-Quantity Contract with a task order ordering period of up to 10 years from the effective date of Contract. Task orders awarded before the end of the ordering period may extend an additional five years.
- Centerra Group, LLC: Contract covers the protective services at SRS. It is a cost-plus-award-fee contract. Ownership of this contract transferred to NNSA as part of the shift in stewardship of SRS in FY 2025.
- Ameresco Federal Solutions: Contract is for the construction and operation of the Biomass Cogeneration Facility, steam, and electrical power Plant. This delivery order is for the period May 15, 2009 - April 14, 2031. Ameresco will operate and maintain all constructed facilities until Delivery Order completion. It is a third-party financed Energy Savings Performance contract to produce steam and electricity in support of site missions. Ownership of this contract transferred to NNSA as part of the shift in stewardship of SRS in FY 2025.
- Battelle Savannah River Alliance: Contract is for the management and operation of the Savannah River National Laboratory. It is a Cost-Plus-Award-Fee contract. It was awarded in December 2020, and contract transition was completed in June 2021. The contract base term is 5 years with 5 one-year award term periods.

## **Strategic Management**

The SRS cleanup strategy is to eliminate or minimize nuclear materials, spent nuclear fuel, plutonium, and waste through safe stabilization, treatment, and/or disposition. The goal is also to reduce costs of continuing operations, surveillance and maintenance, decommissioning facilities, and remediating groundwater and contaminated soil consistent with regulatory agreements. DOE’s completion strategy provides a comprehensive risk-based approach to the legacy cleanup project, such as dispositioning radioactive liquid waste through vitrification of the high activity component at the Defense Waste Processing Facility, use of existing SRS facilities to receive, store, and disposition aluminum-clad spent nuclear fuel, and decommissioning of all facilities not identified for continuing missions.

The Site's facility footprint has been steadily reduced through execution of the Site's cleanup strategy. The objective of soil and groundwater cleanup and facility decommissioning is to achieve an end state with risk levels compatible with future non-residential use of SRS.

The following present the highest risks to timely achievement of the program's strategic goals:

- Ramp-up of operations in the Salt Waste Processing Facility.
- Maintaining and operating deteriorating facilities within EM's purview.

**Savannah River  
Funding (\$K)**

FY 2025 Enacted	FY 2026 Enacted	FY 2027 Request	FY 2027 Request vs FY 2026 Enacted	
			\$	%

**Defense Environmental Cleanup**

**Savannah River Site**

**Radioactive Liquid Tank Waste  
Stabilization and Disposition**

SR-0014C / Radioactive Liquid  
Tank Waste Stabilization and  
Disposition-2035  
Operating

	1,066,000	1,112,955	1,066,000	-46,955	-4%
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Construction

20-D-401: Saltstone Disposal Unit  
#10 11 12

	56,250	82,500	82,500	+0	0%
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	1,122,250	1,195,455	1,148,500	-46,955	-4%
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**Savannah River National**

**Laboratory O&M**

SR-SRNL-0100 / SRNL  
Infrastructure and Support

	42,000	100,719	90,719	-10,000	-10%
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Savannah River Risk Management  
Operations

SR-0011C / NM Stabilization and  
Disposition

	311,343	240,482	271,013	+30,531	+13%
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SR-0013 / Solid Waste Stabilization  
and Disposition

	47,951	49,876	48,599	-1,277	-3%
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**Environmental Management/  
Savannah River**

SR-0030 / Soil and Water Remediation & Facility Deactivation and Decommissioning	67,514	84,478	123,032	+38,554	+46%
SR-0041 / Surveillance, Maintenance, and Deactivation	24,582	21,558	22,976	+1,418	+7%
SR-0042 / Infrastructure and Land Management					
Operating	21,032	0	0	+0	0%
Construction					
19-D-701: SR Security Systems Replacement	0	708	0	-708	-100%
	21,032	708	0	-708	-100%
<b>Subtotal, Savannah River Risk Management Operations SR Community and Regulatory Support</b>	<b>472,422</b>	<b>397,102</b>	<b>465,620</b>	<b>+68,518</b>	<b>+17%</b>
SR-0100 / Savannah River Community and Regulatory Support	12,389	5,317	5,450	+133	+3%
<b>Total, Savannah River Site</b>	<b>1,649,061</b>	<b>1,698,593</b>	<b>1,710,289</b>	<b>+11,696</b>	<b>+1%</b>
<b>Safeguards and Security</b>					
SR-0020 / Safeguards and Security	170,000	70,594	74,835	+4,241	+6%
<b>Total, Defense Environmental Cleanup</b>	<b>1,819,061</b>	<b>1,769,187</b>	<b>1,785,124</b>	<b>+15,937</b>	<b>+1%</b>

**Savannah River  
Explanation of Major Changes (\$K)**

<b>FY 2026 Enacted</b>	<b>FY 2027 Request</b>	<b>FY 2027 Request vs FY 2026 Enacted</b>
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**Defense Environmental Cleanup**

**Savannah River Site**

**Radioactive Liquid Tank Waste Stabilization and Disposition**

**SR-0014C / Radioactive Liquid Tank Waste Stabilization and Disposition-2035**

- Liquid Waste Operation decrease due to decrease in Tank Farms and Defense Waste Processing Facility labor and materials costs; decrease in manpower, materials and equipment needed to remove and process waste faster in support of higher processing rates in Salt Waste Processing Facility; decrease in lower number of tanks prepared for sludge waste removal. Salt Waste Processing Operations decrease due to preparing less tanks for salt dissolution and waste removal. Regulatory Commitments decreased due to performing less Preliminary Cease Waste Removal and Operational Closure activities.

	1,195,455	1,148,500	-46,955
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**Savannah River National Laboratory O&M**

**SR-SRNL-0100 / SRNL Infrastructure and Support**

- Decrease defers AMC mission growth and technology-based partnerships.

	100,719	90,719	-10,000
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**Savannah River Risk Management Operations**

**SR-0011C / NM Stabilization and Disposition**

- Increase supports the resumption of Spent Nuclear Fuel reprocessing at H-Canyon that will generate enriched uranium for future high-assay low-enriched uranium product.

	240,482	271,013	+30,531
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**SR-0013 / Solid Waste Stabilization and Disposition**

<ul style="list-style-type: none"> <li>Decrease is due to earlier disposition of (11) legacy mixed low-level waste containers in FY2026.</li> </ul>	49,876	48,599	-1,277
<b>SR-0030 / Soil and Water Remediation &amp; Facility Deactivation and Decommissioning</b>			
<ul style="list-style-type: none"> <li>Increase includes key deliverables (e.g., Records of Decision) for regulatory enforceable Federal Facility Agreement milestones, and development of critical decision documentation, pursue subcontract procurement, and initiate field execution for in-situ decommissioning of 235-F, a Hazard Category II facility.</li> </ul>	84,478	123,032	+38,554
<b>SR-0041 / Surveillance, Maintenance, and Deactivation</b>			
<ul style="list-style-type: none"> <li>Increase is to initiate F-Canyon roof replacement planning.</li> </ul>	21,558	22,976	+1,418
<b>SR-0042 / Infrastructure and Land Management</b>			
<ul style="list-style-type: none"> <li>Decrease due to responsibilities transferring to the National Nuclear Security Administration.</li> </ul>	708	0	-708
<b>SR Community and Regulatory Support</b>			
<b>SR-0100 / Savannah River Community and Regulatory Support</b>			
<ul style="list-style-type: none"> <li>Increase is due to rising costs.</li> </ul>	5,317	5,450	+133
<b>Safeguards and Security</b>			
<b>SR-0020 / Safeguards and Security</b>			
<ul style="list-style-type: none"> <li>Increase is a result of updates to new cybersecurity requirements and recently issued Executive Orders.</li> </ul>	70,594	74,835	+4,241
<b>Total, Savannah River</b>	<b>1,769,187</b>	<b>1,785,124</b>	<b>+15,937</b>

## **Solid Waste Stabilization and Disposition (PBS: SR-0013)**

### **Overview**

This Project Baseline Summary (PBS) can be found within the Defense Environmental Cleanup appropriation.

The scope of this PBS supports storage, treatment, and disposal functions for transuranic (TRU), low-level radioactive waste; mixed low-level radioactive waste; hazardous, and sanitary waste; as well as pollution prevention, waste minimization, waste certification, and other waste management support functions including continued focus on final disposition of legacy TRU and mixed low-level waste. The long-term liability of solid waste stabilization and disposition at the Savannah River Site is currently estimated to cost \$6 billion and take up to 55 years to complete. Activities funded in FY2027 will reduce this long-term liability by \$48.6 million.

This PBS also includes direct maintenance and repair that are applicable to these areas.

The Solid Waste Management program is responsible for the disposition of the Savannah River Sites' (SRS) solid wastes, which include construction and demolition, hazardous, low-level radioactive waste and mixed low-level radioactive waste and TRU wastes. Construction and demolition wastes are generated by construction activities onsite and are disposed of in a South Carolina Department of Health and Environmental Control-permitted landfill located onsite. Examples include slightly contaminated soil, deactivation and decommissioning debris, protective clothing, job-control waste, equipment, tools, filters, rags, and papers. This type of radioactive waste is disposed onsite in engineered facilities. This type of waste is subject to regulations governing both waste types. Mixed low-level radioactive waste requires treating prior to disposal at a commercial disposal facility or a federal disposal facility at the Nevada National Security Site. TRU waste can include equipment, protective clothing, and tools used in the production and management of these radionuclides. The inventory of TRU waste is packaged, characterized/certified and shipped to the Waste Isolation Pilot Plant (WIPP) for disposal.

The Solid Waste Management program is responsible for the disposal of the legacy waste as well as the newly generated waste. The Site generates approximately 4,800 cubic meters of low-level waste annually and approximately 20 cubic meters of hazardous and mixed low-level waste annually. As of January 14, 2026, only 20 cubic meters of legacy mixed low-level radioactive waste remains in storage. For TRU waste, the Site generates approximately 20 cubic meters per year. As of January 14, 2026, 102 cubic meters of legacy TRU waste remains in storage. Approximately 54 shipments to WIPP are expected to complete disposal of the Site's legacy TRU waste in storage.

DOE waste generator sites fund their respective site TRU waste characterization activities such as visual examination, real time radiography, nondestructive assay, dose-to-curie conversion, and flammable gas analysis. PBS Central Characterization Project (CB-0081) funds certification of waste characterization activities of legacy and newly generated TRU waste at SRS, Oak Ridge National Laboratory, Lawrence Livermore National Laboratory, and Los Alamos National Laboratory, whereas the Idaho National Laboratory funds its waste characterization certification. Transportation certification is funded by PBS Central Characterization Project (CB-0081).

**Activities and Explanation of Changes**

FY 2026 Enacted	FY 2027 Request	Explanation of Changes - FY 2027 Request vs FY 2026 Enacted
<b>\$49,876,000</b>	<b>\$48,599,000</b>	<b>-\$1,277,000</b>

Solid Waste Management Program

- Maintain Solid Waste management facilities to support site operation, including the construction debris landfill. In addition, the support of Waste Acceptance assessment is needed to enable shipment to WIPP.
- Ship approximately 30m<sup>3</sup> contact-handled and/or remote-handled TRU waste to WIPP.
- Support treatment/storage/disposal of approximately 4,800 m<sup>3</sup> of newly generated low-level radioactive waste and expansion of the E-Area Low Level Waste Facility.
- Support treatment/storage/disposal of approximately 35 m<sup>3</sup> of hazardous and mixed low-level radioactive waste.
- Support Solid Waste Management Facility infrastructure and equipment.
- Continue revision of the Performance Assessment of E Area to demonstrate appropriate long-term protection of the public and environment following closure of the facilities.

Solid Waste Management Program

- Maintain Solid Waste management facilities to support site operation, including the construction debris landfill. In addition, the support of Waste Acceptance assessment is needed to enable shipment to WIPP.
- Ship approximately 30 m<sup>3</sup> contact-handled and/or remote-handle TRU waste to WIPP, dependent on availability to accept by WIPP.
- Support treatment/storage/disposal of up to 4,800 m<sup>3</sup> of newly generated low-level radioactive waste and expansion of the E-Area Low Level Waste Facility.
- Support treatment/storage/disposal of up to 25 m<sup>3</sup> of hazardous and mixed low-level radioactive waste.
- Support Solid Waste Management Facility infrastructure and equipment.
- Low-level Waste Disposal Facility Federal Review Group review of the E-Area Performance Assessment revision to confirm appropriate long-term protection of the public and environment following closure of the facilities.

- Decrease is due to earlier disposition of (11) legacy mixed low-level waste containers in FY2026.

## **Soil and Water Remediation & Facility Deactivation and Decommissioning (PBS: SR-0030)**

### **Overview**

The scope of this Project Baseline Summary (PBS) includes remediation of the Savannah River Site (SRS) contaminated soil, groundwater, streams (and associated wetlands) and waste sites, which is governed through enforceable regulatory milestones and commitments in accordance with Resource Conservation and Recovery Act (RCRA) and other Permits; the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA); and the Federal Facility Agreement (FFA) to reduce risk and to protect groundwater aquifers and surface waters from the spread of contamination by addressing sources of contamination using an Area Completion Approach. The long-term liability of solid waste stabilization and disposition at the Savannah River Site is currently estimated to cost \$7 billion and take up to 55 years to complete. Activities funded in FY2027 will reduce this long-term liability by \$123 million.

This PBS also includes direct maintenance and repair activities that are applicable to these areas.

### Soil and Water Remediation

The Soil and Water Remediation program includes the operation and maintenance (O&M) of three (3) active soil and groundwater remedial systems, the monitoring of 13 low energy systems, and 25 passive (natural attenuation) regulatory required soil and groundwater remedial systems to contain contaminant plumes within the SRS boundary, and to protect human health and the environment. Also included is the continuing post-closure and post-Record of Decision (ROD) care, and surveillance and maintenance (S&M) at 75 closed waste sites (approximately 1,000 acres in total area) and at 27 surplus facilities to prevent deterioration, environmental releases, or structural failure. The program also monitors, analyzes, and reports on over 2,000 groundwater wells and five major streams, the Savannah River Floodplain Swamp, and the Savannah River to demonstrate effectiveness of remedial systems. Included is O&M of the Phytoremediation System operated by the United States Department of Agriculture Forest Service and is located at the Mixed Waste Management Facility.

### Federal Facility Agreement

This fiscal year budget request supports the next phase of enforceable regulatory cleanup projects from the rolling three-year commitments in the FFA among the Department, South Carolina Department of Environmental Services, and Region 4 Environmental Protection Agency (EPA). Included are activities performed by Savannah River Ecology Laboratory (SREL) for independent studies in support of the integrator operable unit program.

### Area Closure Strategy

The cleanup mission includes the remediation of soil and water at 515 waste units plus the deactivation and decommissioning of over 1,100 excess EM facilities constructed in support of nuclear materials production. Cleanup and decommissioning will continue until all areas at SRS are completed. Units in which waste is left at levels precluding unrestricted use are placed under post-closure care with institutional controls including

access and land use restrictions, inspections, maintenance, long-term monitoring, and reporting. Groundwater corrective actions and effectiveness monitoring are performed as appropriate.

F-Area Material Storage Building, 235-F

F-Area Material Storage Building, 235-F at SRS was part of the original construction in the early 1950s. The facility is a blast resistant, windowless, two-story, reinforced concrete structure about 222 feet long, 109 feet wide, and 28 feet high located in F-Area near the F Canyon. Building 235-F housed several deactivated processing lines, including the Plutonium Fuel Form facility, Actinide Billet Line, Plutonium Experimental Facility, and the old Metallurgical Laboratory glovebox. The project to deactivate the 235-F facility was started in FY 2020 under PBS SR-0041 and completed in early FY 2023. The deactivation project involved shutdown of all active structures, systems, and components in Building 235-F along with electrical/mechanical isolation of the building. The 235-F decommissioning project was initiated in FY 2023 with the EM-1 approval of the CD-0/1 Mission Need/Alternative Selection. Demolition and removal of ancillary equipment and facilities began in FY2023 and will continue through FY2026. The permanent decommissioning of Building 235-F will be a major step toward risk reduction and final closure of the nuclear F Area of SRS.

**Activities and Explanation of Changes**

FY 2026 Enacted	FY 2027 Request	Explanation of Changes - FY 2027 Request vs FY 2026 Enacted
<b>\$84,478,000</b>	<b>\$123,032,000</b>	<b>+\$38,554,000</b>

Soil and Water Remediation (\$67,241,000)

- Sitewide services and support functions for day-to-day operations.
- Achieve compliance with all agreed upon enforceable FFA (RCRA/ CERCLA) milestones and RCRA permit commitments.
- Operate and maintain 41 regulatory-required soil and groundwater remedial systems (3 active, 13 low energy system, & 25 passive) to protect human health, groundwater aquifers, site streams, and the Savannah River.
- Conduct post-closure and post-ROD care, surveillance, and maintenance

Soil and Water Remediation (\$78,032,000)

- Sitewide services and support functions for day-to-day operations.
- Achieve compliance with all agreed upon enforceable FFA (RCRA/ CERCLA) milestones and RCRA permit commitments.
- Operate and maintain 41 regulatory-required soil and groundwater remedial systems (3 active, 13 low energy system, & 25 passive) to protect human health, groundwater aquifers, site streams, and the Savannah River.
- Conduct post-closure and post-Record of Decision care, surveillance, and maintenance at 75 closed waste sites

- The increase includes key deliverables (e.g., ROD) for regulatory enforceable FFA milestones, and development of critical decision documentation, pursue subcontract procurement, and initiate field execution for ISD of 235-F, a Hazard Category II facility.

at 75 closed waste sites (approximately 1,000 acres) to prevent deterioration, and environmental releases.

- Monitor, analyze, and report on over 2,000 groundwater wells and 5 major streams, the Savannah River Floodplain Swamp, and the Savannah River to demonstrate effectiveness of remedial systems.
- Perform S&M of Area Completion Projects' inactive facilities to maintain safe and stable facility conditions.
- Conduct oversight of activities performed under financial assistance awards with SREL, and the interagency agreement with the United States Department of Agriculture Forest Service.
- Support 235-F continued S&M until decommissioning.
- Submit the Rev. 0 Early Action ROD and Remedial Alternative Selection for Beneficial Reuse of Six Coal Ash Units.
- Issue ROD for ECODS L-3 (East of L Area) (NBN), L-Area Rubble Pit (131-1L), and L-Area Rubble Pit (131-4L).
- D-Area contaminants removal action design and associated remedial documentation.

Facility Deactivation & Decommissioning (\$17,237,000)

(approximately 1,000 acres) to prevent deterioration, and environmental releases.

- Monitor, analyze, and report on over 2,000 groundwater wells and 5 major streams, the Savannah River Floodplain Swamp, and the Savannah River to demonstrate effectiveness of remedial systems.
- Perform S&M of EM inactive facilities managed within PBS30 to maintain safe and stable facility conditions.
- Conduct oversight of activities performed by SREL, and the United States Department of Agriculture Forest Service.
- Support 235-F continued S&M until decommissioning.
- Planning and documents (e.g., Early Action RODs, Remedial Action Start initiation) to support Ash Strategy Implementation for Beneficial Reuse of ash from Ash and Coal Fines Waste Units
- Planning documents to support Remedial Action start for Early Construction and Operational Disposal Site L-3 (East of L Area) (NBN), L-Area Rubble Pit (131-1L), and L-Area Rubble Pit (131-4L).
- Support 716-A Automotive Repair Shop Remedial Decision (e.g., ROD Issuance)
- D-Area contaminants removal action design and associated remedial documentation.

Facility Deactivation & Decommissioning (\$45,000,000)

- Continue progress to achieve near term ISD of 235-F via decommissioning

- F-Area Material Storage Building 235-F D&D: Continued progress to achieve near term in-situ decommissioning (ISD) of 235-F via further development of 413.3B combined critical decision CD-2/3 documentation for submittal/approval, including finalize decommissioning design, technical baseline development, project reviews (e.g., IPR), nuclear safety bases revision, regulatory documents and to develop the decommissioning request for proposal to initiate ISD in the field.

subcontract procurement and execution of ISD in the field to achieve completion by FY2030.

## **Surveillance, Maintenance and Deactivation (PBS: SR-0041)**

### **Overview**

This Project Baseline Summary (PBS) can be found within the Defense Environmental Cleanup appropriation.

This PBS covers scope for the surveillance and maintenance (S&M) of non-operating nuclear facilities (Consisting of F-Area Complex Facilities, as well as the Receiving Basin for Off-Site Fuels (RBOF) Facility in H-Area, and the RBOF Cask Pad in L-Area), F/H Laboratory Facility, and future deactivation of nuclear facilities currently operating at the Savannah River Site (SRS). The S&M end-state will be accomplished when the capabilities of the facilities are no longer needed (all remaining materials have been dispositioned), and deactivation has been completed and are ready to be turned over for decommissioning. The long-term liability of solid waste stabilization and disposition at the Savannah River Site is currently estimated to cost \$0.6 billion and take up to 30 years to complete. Activities funded in FY2027 will reduce this long-term liability by \$23 million.

### F-Area Complex

The F-Area Complex is comprised of the F Canyon building including the FB-Line, F/H Analytical Laboratory, industrial support facilities, administrative buildings, sand filter facilities, and supporting utilities including water, steam, electricity, industrial air, conditioned air, underground transfer piping, and sanitary waste. Like the H Canyon, the F Canyon was also built in the 1950s and is approximately the same size as H Canyon (1,028 feet long, 122 feet wide and 71 feet tall) with FB-Line located on top of the F Canyon. Although similar in size and capabilities to H Canyon, the missions for these two facilities were different with F Canyon focused on plutonium production and H Canyon focused on uranium recovery.

This PBS also supports all general area maintenance, as well as emergency preparedness, firewater, utilities, lighting, building and grounds maintenance.

### Receiving Basin for Offsite Fuels Facility

A project was initiated in 1997 to de-inventory the RBOF Facility due to size limitations that would not support increased off-site receipts and transfer the spent nuclear fuel to L-Basin. This effort was completed in 2006 with the complete de-inventory and shutdown of the RBOF Facility.

The RBOF S&M activities include periodic rounds, inspections, and maintenance to ensure the facility does not pose risks to the environment, site workers, or the general public; activities needed to maintain the facility in accordance with safety basis requirements; maintenance of operating

procedures, continued operator training, and support for housekeeping and safety initiatives to comply with Department of Labor, Office of Occupational Safety and Health Administration requirements; and activities necessary for cost-effective management, planning, and oversight.

F/H Analytical Laboratory

The F/H Laboratory performed analytical sampling from radiochemical processing and radiological environmental monitoring programs at the site for over 55 years. To reduce costs and streamline capabilities for analytical services at the Site, DOE initiated a multi-year project to relocate analytical services and methods from the F/H analytical laboratory facilities in F-Area to Savannah River National Laboratory’s main laboratory in A-Area. In FY 2023, the F/H laboratory became excess and is undergoing a planned multi-year facility deactivation.

**Activities and Explanation of Changes**

<b>FY 2026 Enacted</b>	<b>FY 2027 Request</b>	<b>Explanation of Changes - FY 2027 Request vs FY 2026 Enacted</b>
<b>\$21,558,000</b>	<b>\$22,976,000</b>	<b>+\$1,418,000</b>
<u>Facility Surveillance and Maintenance (\$15,558,000)</u> <ul style="list-style-type: none"> <li>Continue S&amp;M of the F-Area Complex Facilities including F-Canyon, FB Line, and F/H laboratory, as well as the RBOF Facility.</li> </ul>	<u>Facility Surveillance and Maintenance (\$16,976,000)</u> <ul style="list-style-type: none"> <li>Continue S&amp;M of the F-Area Complex Facilities including F-Canyon, FB Line, and F/H laboratory, as well as the RBOF Facility and RBOF Cask pad.</li> <li>Planning for phase 1 F-Canyon roof replacement and HB Line Deactivation</li> </ul>	<ul style="list-style-type: none"> <li>The increase is to initiate F-Canyon roof replacement planning.</li> </ul>
<u>F/H Laboratory Deactivation (\$6,000,000)</u> <ul style="list-style-type: none"> <li>Supports deactivation of F/H lab.</li> </ul>	<u>F/H Laboratory Deactivation (\$6,000,000)</u> <ul style="list-style-type: none"> <li>Supports deactivation of F/H lab.</li> </ul>	

## Infrastructure and Land Management (PBS: SR-0042)

### Overview

This Project Baseline Summary (PBS) can be found within the Defense Environmental Cleanup appropriation.

The majority of this scope transferred to the National Nuclear Security Administration (NNSA). The remaining scope supports the EM scope of the Savannah River Security System Replacement Project (Argus).

### Infrastructure and Land Management

This PBS supports EM specific infrastructure and land management activities that directly address needs to achieve the EM mission.

The Savannah River Security System Replacement Project was originally executed as an operating expense funded project to replace the existing aging and at-risk security system at Savannah River Site (SRS) Category I and II nuclear facilities and the balance of the site where Electronic Safeguards and Security is utilized. Beginning in FY 2019, during execution of Phase I final design, Congress requested that the Total Estimated Cost of this project be appropriated in a capital Line-Item construction account. The most recent DOE Order 413.3B milestone approved for the project is Critical Decision-1, which occurred on June 28, 2016, with a cost range of \$49,423,000 to \$91,470,000 and a Critical Decision-4 range of FY 2022 to FY 2028. The project was phased as subprojects per DOE Order 413.3B with the first subproject, H-Area Argus obtaining CD-4 on May 12, 2020, at \$18M. The second subproject, K-Area Argus was canceled on December 12, 2024, after 94% completion at \$23M due to transition of K-Area landlord scope to NNSA. The last subproject combines the remaining Savannah River National Laboratory (SRNL)/General site Argus with L-Area Argus. On August 8, 2025, the L-area Argus was paused. Currently, all activities are working toward project curtailment, which is expected to conclude 60 days from contractor notification.

### Activities and Explanation of Changes

FY 2026 Enacted	FY 2027 Request	Explanation of Changes - FY 2027 Request vs FY 2026 Enacted
<b>\$708,000</b>	<b>\$0</b>	<b>-\$708,000</b>

#### Infrastructure & Land Management (\$0)

- Land transfer activities moved to NNSA responsibility.

#### Infrastructure & Land Management (\$0)

- Land transfer activities moved to NNSA responsibility.

- Decrease due to responsibilities transferring to NNSA.

Capital Projects (\$0)

- Argus 19-D-701 – CD 2/3 approval moving forward with carryover funding.

Capital Projects (\$0)

- Argus project paused.

## NM Stabilization and Disposition (PBS: SR-0011C)

### Overview

This Project Baseline Summary (PBS) can be found within the Defense Environmental Cleanup appropriation.

This PBS includes the management and disposition of nuclear materials and spent nuclear fuel (SNF), primarily located in H-, K-, and L- Areas at the Savannah River Site (SRS). The H-Area facilities continue to stabilize and disposition legacy EM-owned nuclear materials through the operation of H Canyon with Savannah River National Laboratory (SRNL) providing analytical support. This PBS also includes surveillance and maintenance (S&M) of HB Line. Programmatic and physical support activities related to safe receipt, inventory management, and disposition of special nuclear materials residing in K-Area and disposition of spent fuel residing in L-Area Basin will continue. The end-state will be accomplished when the capabilities of the facilities are no longer needed (all remaining materials have been dispositioned), and when the facilities have been deactivated and turned over for final disposition. The long-term liability of solid waste stabilization and disposition at the Savannah River Site is currently estimated to cost roughly \$10 billion and take up to 55 years to complete. Activities funded in FY2027 will reduce this long-term liability by \$271 million.

### H-Area

H-Area supports the DOE complex by reducing proliferation risks of nuclear materials in storage throughout the world. H-Area is comprised of the H Canyon building including the HB-Line glovebox facility, large storage tanks containing various chemical solutions, industrial support facilities, administrative buildings, sand filter facility, and supporting utilities including water, steam, electricity, industrial and conditioned air systems, underground transfer piping, and sanitary waste.

H Canyon, constructed in the early 1950s, has been in continuous operation since 1955. It is 1,028 feet long, 122 feet wide and 71 feet tall, with several levels to accommodate the various stages of material stabilization, including control rooms to operate and maintain equipment and processes necessary to maintain the safety envelope, equipment and piping gallery for solution transport, storage, and disposition. Due to high levels of radiation, work in the canyon (including maintenance) is remotely performed by overhead bridge cranes. The HB-Line is located on top of H Canyon and was built in the early 1980s to support the nation's deep space exploration program and to recover legacy materials stored in H Canyon.

H Canyon, the nation's only hardened production scale, chemical separation facility remaining in the United States of America is integral to DOE's efforts to minimize and eliminate nuclear materials through safe dissolution, allowing proper disposition of the material thereby reducing proliferation risks and long-term costs associated with storage of the materials.

### K-Area

K-Area is a nuclear facility owned by National Nuclear Security Administration (NNSA) that provides interim storage of excess plutonium and other special nuclear materials. The facility also receives and stores plutonium from foreign countries to support NNSA's Nuclear Nonproliferation Initiative and serves as an International Atomic Energy Agency control protocol facility for plutonium oxide. DOE EM utilizes the facility for the

storage of EM excess plutonium and shares costs with NNSA for the storage and processing. In FY 2016, the capability to down blend, dilute through blending with an inert material, and package plutonium was established. The final disposition path for this material after down blend is the Waste Isolation Pilot Plant (WIPP) in Carlsbad, New Mexico.

The EM plutonium mission end-state will be accomplished when all remaining Office of Environmental Management owned inventories of special nuclear materials have been down blended and packaged for shipment to WIPP. K-Area facilities are being used by NNSA for expedited Pu removal from the State of South Carolina, so activities are coordinated between EM and NNSA. Final disposition will be determined by EM and NNSA at the completion of the EM operation mission.

L-Area

L-Area provides for the wet storage of SNF. The L Reactor was one of the five production reactors at SRS. In 1996, the disassembly basin of L Reactor (an underwater storage facility), referred to as L-Basin, was repurposed to safely handle and securely store SNF originating from Atomic Energy Commission and DOE activities, as well as SNF originating from foreign and domestic research reactors pending disposition. These fuel receipts support the United States government’s policy on minimizing highly enriched uranium around the world and programmatic missions of the Office of Nuclear Energy, Office of Science, and NNSA.

L-Basin has the capacity to receive, bundle, and store Material Test Reactor type fuels (3,650 bundle positions) and High Flux Isotope Reactor fuels (120 full cores) which supports NNSA’s nonproliferation program, Office of Nuclear Energy's domestic research program, along with the Office of Science's research programs and the Department of Commerce (National Institute of Standards and Technology reactor). As of January 1, 2026, L-Basin is approximately 85 percent full for Material Test Reactor type fuel storage, and 65 percent full for High Flux Isotope Reactor fuels.

The end-state will be accomplished when all remaining SRS inventories of SNF have been dispositioned of and operating nuclear facilities have been turned over to PBS SR-0041 for final disposition.

Heavy Water

This PBS also includes the safe storage and eventual disposition of over 500,000 gallons of legacy heavy water remaining from production activities. The heavy water is currently stored in L-, K-, and C- Areas stored in both drums and tanks.

**Activities and Explanation of Changes**

FY 2026 Enacted	FY 2027 Request	Explanation of Changes - FY 2027 Request vs FY 2026 Enacted
<b>\$240,482,000</b>	<b>\$271,013,000</b>	<b>+\$30,531,000</b>
<u>Surveillance and Maintenance – H-Area</u> (\$159,482,000)	<u>Surveillance and Maintenance – H-Area</u> (\$173,013,000)	<ul style="list-style-type: none"> <li>• Increase supports the resumption of Spent Nuclear Fuel reprocessing at H-</li> </ul>

**Environmental Management/  
Savannah River**

**FY 2027 Congressional Justification**

- Maintain a high state of readiness of the H Canyon facility required by 50 United States Code § 2633.
- Maintains HB Line in reversible lay-up condition.
- Support SRNL samples and analysis needed for H-Canyon operations.

Surveillance and Maintenance – L-Area  
(\$49,000,000)

- Provide safe and secure storage for EM owned SNF in L-Area Basin.
- Perform S&M of legacy heavy water to ensure safe storage.
- Support receipts of research reactor spent nuclear fuel.
- Support transfers of SNF between H and L.

EM Plutonium Storage and Disposition - K-Area (\$16,000,000)

- Dispose of Pu consistent with the President’s Executive Order on Reinvigorating the Nuclear Industrial Base.
- Support DOE’s commitment regarding expedited removal of Pu from the State of South Carolina.
- Support shipments of EM-owned Pu material to WIPP for disposal.
- Maintains 3013 Surveillance Program.

H-Canyon Processing (\$16,000,000)

- Supports dissolutions of SNF and the discard of material to H- Area Tank Farm.

- Maintain a high state of readiness of the H Canyon facility required by 50 United States Code § 2633.
- Maintains HB Line in reversible lay-up condition.
- Support SRNL samples and analysis needed for H-Canyon operations.

Surveillance and Maintenance – L-Area  
(\$52,000,000)

- Provide safe and secure storage for EM-owned SNF in L-Area Basin.
- Perform S&M of legacy heavy water to ensure safe storage.
- Support receipts of research reactor SNF.
- Support transfers of SNF between H and L.

EM Plutonium Storage and Disposition - K-Area (\$17,000,000)

- Support DOE’s commitment regarding expedited removal of Pu from the State of South Carolina.
- Support shipments of EM-owned Pu material to WIPP for disposal.
- Maintains 3013 Surveillance Program.

H-Canyon Processing (\$29,000,000)

- Supports H-Canyon operations returning to uranium recovery in support of Executive Orders. The funding is required to perform additional maintenance and restoration work needed to restart separation/recovery systems in H-Canyon. These were previously paused and laid-up several years ago to reduce annual funding and

Canyon that will generate enriched uranium for future HALEU product.

minimize H-Canyon operations to dissolving operations only. The restart of H-Canyon supports Executive Orders by producing HALEU needed for advanced reactors, recovering isotopes, and demonstrating America's capability to manage the complete nuclear fuel cycle. Funding will also support L Basin critical infrastructure needs to ensure reliable operations.

## **Radioactive Liquid Tank Waste Stabilization and Disposition (PBS: SR-0014C)**

### **Overview**

This Project Baseline Summary (PBS) can be found within the Defense Environmental Cleanup appropriation.

This PBS supports the mission of the Liquid Waste (LW) program at the Savannah River Site (SRS) to safely and efficiently treat, stabilize, and dispose of approximately 33,800,000 gallons of legacy liquid radioactive waste containing approximately 196,000,000 curies currently stored in 43 underground storage tanks (as of July 2025). The long-term liability of solid waste stabilization and disposition at the Savannah River Site is currently estimated to cost \$19 billion and take up to 15 years to complete. Activities funded in FY2027 will reduce this long-term liability by \$1,149 million.

The LW Program, as of July 2025, has aggressively reduced risk by:

- Producing 4,463 canisters with over 80,726,100 curies immobilized in glass through the Defense Waste Processing Facility (DWPF).
- Processing 7,453,836 gallons of salt waste through the Actinide Removal Process and Modular Caustic Side Solvent Extraction Unit.
- Processing over 11,377,392 gallons of salt waste through the Salt Waste Processing Facility (SWPF) since Hot Commissioning.
- Processing 376,401 gallons of salt waste through Tank Closure Cesium Removal.
- Disposing over 34,749,460 gallons of low-activity waste via the Saltstone Processing Facility, in the form of 61,979,384 gallons of grout in the Saltstone Disposal Units (SDU).
- Received concurrence of Preliminary Cease Waste Removal on six non-compliant high-level waste storage tanks, as required by the enforceable commitments in the Federal Facility Agreement (FFA) (Tanks 4-8-9-10-11-15).
- Emptying, cleaning, grouting, and removing from service eight non-compliant high-level waste storage tanks, as required by the enforceable commitments in the FFA.

A new strategy for the completion of the LW program mission has been implemented to achieve significant risk and financial liability reduction that provides the best overall optimal solution to Site accelerated completion and closure.

To support completion of the LW program mission, acceleration of risk reduction will be pursued by optimizing the fully integrated SRS LW system. Optimizations and process improvements that focus on a “High-Curie Strategy” allow processing higher curie salt feed batches through the SWPF system with less water. After high curie salt batches are exhausted, Next Generation Solvent (NGS) will be deployed when needed at the SWPF to facilitate increased curie treatment and stabilization. Additionally, closure of Tanks 9, 10, and 11 which reside below the water table and Tanks 13, 14, and 15 which reside partially in the water table of SRS will be given priority. These tanks carry the highest liability to the LW mission and will be

accelerated to reduce this risk as early as possible. Optimizations will continue to be developed, informed by system modeling, to further accelerate the LW mission.

### Liquid Waste Operations

Since SRS became operational, the separation of fissionable nuclear material from irradiated targets and fuels in the F and H Canyons resulted in the generation of over 167,375,000 gallons of radioactive waste. As of July 2025, approximately 33,800,000 gallons of radioactive waste are currently stored onsite in large underground waste storage tanks. Most of the tank waste inventory is a complex mixture of chemical and radioactive waste generated during the acid-side separation of special nuclear materials and enriched uranium from irradiated targets and spent (used) fuel. Eight waste storage tanks have been operationally closed to date. The remaining 43 waste storage tanks, located in two separate locations — H-Tank Farm (27 tanks) and F-Tank Farm (16 tanks), were placed into operation between 1954 and 1986.

SRS plans to continue reducing the volume of tank waste using waste processing activities such as preparing tanks for waste removal by installing necessary equipment and infrastructure; removing, pre-treating, and batching remaining radioactive sludge and salt waste; vitrifying sludge and high curie/high actinide radioactive component in the salt waste at the DWPF into canisters and then storing the canisters in glass waste storage buildings; treating and disposing of low-level waste (decontaminated salt solution coming from salt waste processing) as saltstone; evaporating liquids to ensure storage tank space is available to receive additional legacy waste from ongoing nuclear material stabilization; treating and discharging evaporator overheads through the Effluent Treatment Facility; emptying and permanently closing in place, all liquid radioactive waste storage tanks and support systems. These actions ensure risks to the environment and human health and safety from the liquid radioactive waste stored in tanks are eliminated or reduced to acceptable levels.

To make better use of available tank storage capacity, incoming LW is evaporated to reduce its volume. This is important because most of the SRS new-style waste storage tanks are already near full capacity. Of the five installed evaporators, there are currently two that are operational at SRS — 2H and 3H. These evaporators are located in H-Area and began operations in 1982 and 2000, respectively, concentrate the liquid radioactive salt waste to conserve storage tank space so that storage volume is available for continuing LW operations. Space in new style tanks is used for various operations for waste processing and disposal. The evaporators boil the liquid salt waste, condensing the waste volume to about 25-30 percent of the original volume through removal of water as vapor. The water vapor (evaporator overheads) is then sent to the Effluent Treatment Facility which treats and processes the evaporator overheads condensate that may contain small quantities of radionuclide and process chemical as contamination. Once processed through the treatment plant, the decontaminated evaporator overheads are pumped to Upper Three Runs Creek for discharge at a permitted outfall referred to as the National Pollutant Discharge Elimination System. Tank 50 receives Effluent Treatment Facility residual waste for storage prior to treatment at Saltstone Production Facility and final disposition in SDUs.

The Department started operating the DWPF in March 1996 to vitrify (convert) the high-level radioactive LW into a stable solid glass form suitable for long-term storage and eventual off-site disposal. This reduces the risks associated with the continued storage of LW at SRS and prepares the waste for final disposal. As of March 2025, DWPF has produced 4,463 canisters immobilizing over 80,726,100 curies in glass. It is projected that DWPF will produce, in total, approximately 8,113 canisters to immobilize more than 99 percent of all the radionuclides contained in both the salt and the sludge

waste stored in the radioactive waste storage tanks. SRS has the capacity to safely store over 7,000 canisters, which includes double stacking in Glass Waste Storage Buildings 1 and 2. The combined total of both facilities with double stacking is 9,204 canisters, eliminating the need for construction of additional storage.

To support higher glass throughput, the DWPF melter was retrofitted with four bubbler systems and the melter off-gas system was optimized in September 2010. The facility completed conversion to a glycolic flowsheet from a formic flowsheet in January 2023, which reduced equipment bottlenecks and enabled processing strip effluent from SWPF feeds of up to 9,000,000 (nominal) gallons per year. Future initiatives of DWPF production capacity improvement program address streamlining the DWPF feed preparation system. Several process improvements are under implementation to streamline the DWPF feed preparation system which are required to support SWPF operations at a feed rate up to 9,000,000 gallons per year.

### Salt Waste Processing

The ability to safely process the salt component of waste stored in underground storage tanks at SRS is a crucial prerequisite for completing liquid radioactive waste disposal, as salt waste constitutes 92 percent of the 33,800,000 gallons of liquid radioactive waste stored in the tank farms. The waste inventory requires dissolution with water to allow transfer from tanks to processing facilities and to meet processing parameters. It is expected that the condensed salt waste inventory of about 31,100,000 gallons will reconstitute to up to approximately 95,000,000 gallons of salt solution before it can be processed, treated, and stabilized. To relieve tank space shortages and assure vitrification of the high-activity component or radionuclides in the LW to continue uninterrupted, the Actinide Removal Process and Modular Caustic Side Solvent Extraction Unit began operation in April 2008. The Actinide Removal Process and Modular Caustic Side Solvent Extraction Unit facilities provided an interim processing capability to remove and treat salt waste from the tank farms and an effective opportunity to provide lessons learned and proof of technology for SWPF. In preparation for the SWPF startup (i.e., processing of radioactive salt solution), the operations in the Actinide Removal Process and Modular Caustic Side Solvent Extraction Unit were suspended in June 2019 as planned. De-inventory and flush of the facilities are complete which allowed for final tie-ins of the SWPF to proceed. Decontamination and decommissioning of the Actinide Removal Process and Modular Caustic Side Solvent Extraction Unit will be performed under PBS-0030.

SWPF Hot Commissioning began in October 2020, Hot Operations commenced on January 18, 2021. SWPF safely separates the waste into two streams – a small amount of high-activity radioactive waste sent to DWPF for vitrification and poured into canisters and a very large amount of low-activity radioactive waste called decontaminated salt solution sent to Saltstone to be grouted and permanently disposed in the SDUs. Nominal capacity of SWPF is 6,000,000 gallons processing rate per year and will achieve a 9,000,000 gallons processing rate per year after implementing several innovative process improvements and optimizations. NGS will be deployed when needed. Processing salt waste through the SWPF is needed to disposition most of the waste stored in the tank farms (about 95,000,000 gallons after salt dissolution), while maintaining adequate tank space required to optimize DWPF operations. SWPF is forecasted to run at a 9,000,000 gallons per year processing rate and to process up to 77,000,000 gallons of salt waste due to reduced feed availability in FY27.

## Saltstone Disposal

Decontaminated salt solution from salt processing is sent to the Saltstone Production Facility, where it is treated, stabilized, and permanently disposed of by mixing the decontaminated salt solution with fly ash and furnace slag forming a “grout.” The grout is poured into above-ground, cylindrical concrete cells called SDUs where it solidifies into Saltstone, a non-hazardous low-level waste form.

Each SDU (#6 through #12) is a 375-foot diameter 43-foot tall single-cell design. SDU 6 has a capacity of over 32.8 million gallons of saltstone grout or 18.7 million gallons of feed. SDU 7 through SDU 12 has a capacity of about 34.5 million gallons (19.6 million gallons of feed). The large SDU 6 began construction in December 2013, was completed in June 2018 and began filling in August 2018. SDU 7 construction was completed in the third quarter of FY 2021. Construction activities of SDUs 8 and 9 were initiated in FY 2020. SDU 8 became operational in FY 2023 and SDU 9 became operational in FY 2024. SDUs 10-12 Critical Decision-2/3 was approved in September 2021 and site preparation activities began in FY 2022 and construction in FY 2023. It takes 3 - 4 years to construct a SDU and 16 to 18 months to fill each unit. The program will require one SDU about every 16 months to support SWPF. Once all units are filled, they will be capped with an engineered cover consisting of several layers of impermeable materials, isolating it from the environment (which will be performed under PBS SR-0030).

The scope of this PBS includes the design, construction, and operation of the SDUs for the final and permanent disposal in a saltstone waste form of the decontaminated salt solution (low-level waste) resulting from the salt waste processing. The SDUs will provide the benefits of lower disposal costs for decontaminated salt solutions, with the grout itself providing primary containment of the waste, while the walls, floor, and roof of the SDUs provide secondary containment.

### **Activities and Explanation of Changes**

<b>FY 2026 Enacted</b>	<b>FY 2027 Request</b>	<b>Explanation of Changes - FY 2027 Request vs FY 2026 Enacted</b>
<b>\$1,195,455,000</b>	<b>\$1,148,500,000</b>	<b>-\$46,955,000</b>

#### Liquid Waste Operations (\$860,509,000)

- Pay Project Baseline Summary (PBS) share of site-wide services and support functions for day-to-day operations.
- Maintain Tank Farms, including evaporators, Defense Waste Processing Facility (DWPF), including Melter, in a safe configuration, staffed and ready for operations.

#### Liquid Waste Operations (\$854,114,000)

- Pay PBS share of site-wide services and support functions for day-to-day operations.
- Maintain Tank Farms, including evaporators, DWPF, including Melter, in a safe configuration, staffed and ready for operations.

- Liquid Waste Operation decrease (\$6,395,000) due to decrease in Tank Farms and DWPF labor and materials costs; decrease in manpower, materials and equipment needed to remove and process waste faster in support of higher processing rates in SWPF; decrease in lower number of tanks prepared for sludge waste removal.

- Perform Tank Farm operations activities, including waste removal and evaporator operations.
- Operate DWPF to produce up to 274 canisters of vitrified high-level waste.
- Continue modification of Glass Waste Storage Building #2 for double stacking operations.
- Continue tank modifications on two tanks (Tanks 34 & 47) to support bulk waste removal for Sludge Batches to feed DWPF.
- Complete processing in DWPF of Sludge Batch 10 and continue washing and qualifications for Sludge Batch 11.
- Initiate processing of Sludge Batch 11.

#### Salt Waste Processing Operations

(\$217,436,000)

- Operate Salt Waste Processing Facility (SWPF) and End Stream Delivery Facilities with a plan to process up to 5 million gallons of higher curie salt batches.
- Perform waste retrieval activities on up to 15 tanks to expedite salt dissolution needed for salt batches to feed the Salt Waste Processing Facility.
- Fund Other Project Cost scope for Saltstone Disposal Unit (SDU) Line Item.

#### Saltstone Disposal (\$82,500,000)

- Complete testing, startup, and turnover of SDU 10 (CD-4A).
- Continue construction activities for SDUs 11 and 12.
- Support Saltstone Production Facility operations to support SWPF production rates by completing construction of SDUs.

- Perform Tank Farm operations activities, including waste removal and evaporator operations.
- Operate DWPF to produce up to 235 canisters of vitrified high-level waste.
- Continue modification of Glass Waste Storage Building #2 for double stacking operations.
- Continue tank modifications on one tank (Tank 47) to support bulk waste removal for Sludge Batches to feed DWPF.
- Continue processing of Sludge Batch 11.
- Initiate compilation of Sludge Batch 12.

#### Salt Waste Processing Operations

(\$207,631,000)

- Operate SWPF and End Stream Delivery Facilities with a plan to process up to 5 million gallons of higher curie salt batches.
- Perform waste retrieval activities on 2 tanks (Tank 27 and Tank 31) to expedite salt dissolution needed for salt batches to feed the SWPF.
- Fund Other Project Cost scope for SDU Line Item.

#### Saltstone Disposal (\$82,500,000)

- Continue construction activities for SDUs 11 and 12.
- Support Saltstone Production Facility operations to support SWPF production rates by completing construction of SDUs.

- Salt Waste Processing Operations decrease (\$9,805,000) due to preparing less tanks for salt dissolution and waste removal.
- Regulatory Commitments decreased (\$30,755,000) due to performing less PCWR and Operational Closure activities.

Regulatory Commitments (\$35,010,000)

- Continue preparation of Tanks 1, 2, 7, and 13 to meet new Federal Facility Agreement milestones and provide feed for SWPF and DWPF.
- Complete Preliminary Cease Waste Removal (PCWR) Federal Facility Agreement (FFA) milestone on 1 tank (Tank 14).
- Continue activities on 3 Operational Closure FFA (Tanks 9, 10, 11) required by December 2028.
- Perform activities on 1 of 2 Operation Closure FFA (Tank 15) required by December 2030.

Regulatory Commitments (\$4,255,000)

- Continue preparation of Tanks 1 and 2 to meet new FFA milestones and provide feed for SWPF and DWPF.
- Complete PCWR FFA milestone on 2 tanks (Tanks 2 and 13).

## Savannah River Community and Regulatory Support (PBS SR-0100)

### Overview

This Project Baseline Summary (PBS) can be found within the Defense Environmental Cleanup appropriation.

The scope of this PBS is to provide support to enable the Savannah River Site (SRS) to perform its missions and cleanup objectives. Activities include support to the Citizens Advisory Board (includes facilitators, technical advisors, meeting rooms, and other expenses); support to the States of South Carolina and Georgia for emergency management activities; and support to the South Carolina Department of Health and Environmental Control (DHEC), geological surveys, DOE lease agreements (including those with the U.S. Army Corps of Engineers). and the Environmental Protection Agency (EPA) for oversight and implementation of the Federal Facility Agreement (FFA) and support for Workforce Opportunities in Regional Careers grant.

### Activities and Explanation of Changes

FY 2026 Enacted	FY 2027 Request	Explanation of Changes - FY 2027 Request vs FY 2026 Enacted
<b>\$5,317,000</b>	<b>\$5,450,000</b>	<b>+\$133,000</b>

- |  |  |  |
|--|--|--|
| <ul style="list-style-type: none"> <li>• Provide support to South Carolina DHEC for oversight of environmental monitoring, FFA, Agreement in Principle, and Site Treatment Plan (\$3,825,108).</li> <li>• Support Interagency Agreement for the EPA, Region 4 oversight of the FFA (\$350,000).</li> <li>• Provide support to the Site-Specific Advisory Board (Savannah River Citizen’s Advisory Board) (\$554,392).</li> <li>• Support Workforce Opportunities in Regional Careers grant (\$587,500).</li> </ul> | <ul style="list-style-type: none"> <li>• Provide support to South Carolina DHEC for oversight of environmental monitoring, FFA, Agreement in Principle, and Site Treatment Plan (\$3,958,108).</li> <li>• Support Interagency Agreement for the EPA, Region 4 oversight of the FFA (\$350,000).</li> <li>• Provide support to the Site-Specific Advisory Board (Savannah River Citizen’s Advisory Board) (\$554,392).</li> <li>• Support Workforce Opportunities in Regional Careers grant (\$587,500).</li> </ul> | <ul style="list-style-type: none"> <li>• Increase is due to rising costs.</li> </ul> |
|--|--|--|

## Safeguards and Security (PBS: SR-0020)

### Overview

This Project Baseline Summary (PBS) can be found within the Defense Environmental Cleanup appropriation.

This PBS funds the Safeguards and Security (S&S) Program, which provides security support services for Environmental Management (EM) specific facilities at Savannah River Site (SRS), and the Cyber Security Program, which protects the networks, computers, programs, and data within SRS from attack, damage, or unauthorized access in accordance with DOE policy.

### Safeguards and Security Program

The scope covered under this PBS will continue until DOE’s EM mission at SRS is complete. Responsibility of overall site security functions have transferred to National Nuclear Security Administration (NNSA) in FY 2025.

For EM these activities include:

- Protect Special Nuclear Material and vital facilities against unauthorized access, theft, loss of custody, or destruction of components for nuclear weapons, and espionage.
- Protect classified matter or Governmental property from loss or theft.
- Protect against other hostile acts that may affect national security, or the health and safety of employees, the public or the environment.

### Cyber Security Program

The Cyber Security Program at SRS protects government information and technology systems in support of DOE EM missions executed at the Site.

### Activities and Explanation of Changes

FY 2026 Enacted	FY 2027 Request	Explanation of Changes - FY 2027 Request vs FY 2026 Enacted
<b>\$70,594,000</b>	<b>\$74,835,000</b>	<b>+\$4,241,000</b>
<u>Safeguards and Security Program</u> <ul style="list-style-type: none"> <li>• Support required security force and resources necessary to guard and safely</li> </ul>	<u>Safeguards and Security Program</u> <ul style="list-style-type: none"> <li>• Support required security force and resources necessary to guard and safely maintain Special Nuclear Material in</li> </ul>	<ul style="list-style-type: none"> <li>• The increase is a result of updates to new cybersecurity requirements and recently issued Executive Orders.</li> </ul>

maintain Special Nuclear Material in accordance with DOE policy.

- Ensure appropriate levels of protection for DOE SRS EM facilities against theft or diversion of Special Nuclear Materials.
- Prevent acts of radiological, chemical, and biological sabotage.
- Prevent theft or loss of classified matter and government property.
- Prevent other hostile acts that may cause unacceptable impacts to national security, the health and safety of employees, the public or the environment.
- Support infrastructure maintenance and upgrades.

#### Cyber Security

- Protect government information and technology systems in support of DOE missions executed at the Site.
- Maintain the Savannah River Cyber Security capability in accordance with DOE Order 205.1B and emerging DOE cyber requirements.
- Support identification, assessment and protection of mission critical information and information systems according to current threat vectors and risk posture.
- Support Headquarters cyber security.

accordance with DOE policy (for EM facilities (H/L/SRNL).

- Ensure appropriate levels of protection for DOE SRS facilities against theft or diversion of Special Nuclear Materials. (H/L/SRNL)
- Prevent theft or loss of classified matter and government property. (H/L/SRNL)
- Prevent other hostile acts that may cause unacceptable impacts to national security, the health and safety of employees, the public or the environment. (H/L/SRNL)

#### Cyber Security

- Protect government information and technology systems in support of DOE missions executed at the Site.
- Implement the Savannah River Cyber Security capability in accordance with DOE Order 205.1D and emerging DOE cyber requirements.
- Support identification, assessment and protection of mission critical information and information systems according to current threat vectors and risk posture.
- Support Headquarters cyber security initiatives.
- Support cyber security Executive Order requirements.

## Savannah River National Laboratory Operations and Maintenance (PBS: SR-SRNL-0100)

### Overview

This Project Baseline Summary (PBS) can be found within the Defense Environmental Cleanup appropriation.

The scope of this PBS enables the Savannah River Site (SRS) to meet its operations, maintenance, and utilities obligations for Savannah River National Laboratory (SRNL).

SRNL is a key partner in advancing the Department of Energy's (DOE) missions in national security, environmental stewardship, and energy resilience. SRNL is the DOE's only national laboratory under the stewardship of the Office of Environmental Management (EM), dedicated to developing practical solutions for complex challenges in environmental cleanup, site closure, and long-term surveillance and maintenance. These efforts are critical to ensuring the success of operations at SRS and supporting cleanup missions across the DOE complex. The Laboratory plays a critical role for the National Nuclear Security Administration (NNSA) by providing critical surveillance, operational technology advancements, and research services for stockpile stewardship programs. The lab conducts significant nonproliferation research and development, advancing the Advanced Technology Proving Grounds along with other national security missions, and manages the Mobile Plutonium Facility, directly contributing to nuclear security and global safety. The Laboratory also supports multiple DOE offices, including Science (SC), Legacy Management (LM), Nuclear Energy (NE), Fusion (FE), Critical Minerals and Energy Innovation (CEMI), and Cybersecurity, Energy Security, and Emergency Response (CESER), by addressing challenges in energy resilience, advanced materials, and efficient resource management.

### Advanced Manufacturing Collaborative

SRNL's Advanced Manufacturing Collaborative (AMC) stands as a 63,000-square-foot, purpose-built facility designed to propel innovation and directly support EM's critical cleanup mission. Outfitted with state-of-the-art laboratory spaces, the AMC serves as SRNL's central hub for innovation, making advanced manufacturing research and development that directly addresses EM mission needs actionable. By reducing barriers to collaboration, the AMC connects world-class experts in environmental technologies, to foster the creation and implementation of groundbreaking solutions to address EM's long-term liability. The AMC's unique role serves as a nexus to strengthen SRNL's ability to address complex environmental management challenges by bridging research and development (R&D) with practical, real-world applications at EM sites. This functionality ensures that cutting-edge capabilities in additive manufacturing, automation, artificial intelligence, and chemical separations are effectively designed and deployed to accelerate the time frame and reduce the overall cost of the EM mission. By accelerating innovation, enhancing efficiencies, and addressing future challenges head-on, the AMC remains pivotal to achieving transformative outcomes in DOE's environmental cleanup.

**Activities and Explanation of Changes**

FY 2026 Enacted	FY 2027 Request	Explanation of Changes - FY 2027 Request vs FY 2026 Enacted
<b>\$100,719,000</b>	<b>\$90,719,000</b>	<b>-\$10,000,000</b>

Savannah River National Laboratory

- Supports strategic investments for aging infrastructure structure, systems, and components.
- Supports the operations and maintenance (O&M) of more than 20 buildings and major support structures in the limited area that includes more than 320,000 square feet of category II radiological facilities.
- Assures facilities are available to meet laboratory analytical and R&D activities supporting DOE missions.
- Assures nuclear facility safety bases are maintained in support of safe nuclear operations.
- Supports deferred mission critical activities.
- Supports the timely execution of critical repairs, ensuring uninterrupted progress in vital mission objectives and advancing key national priorities, including the processing of MK-18 targets.
- Facilitates analytical work for Environmental & Legacy Management

Savannah River National Laboratory

- Supports strategic investments for aging infrastructure structure, systems, and components.
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- Assures nuclear facility safety bases are maintained in support of safe nuclear operations.
- Supports deferred mission critical activities.
- Supports the timely execution of critical repairs, ensuring uninterrupted progress in vital mission objectives and advancing key national priorities, including the processing of MK-18 targets.

- Decrease focuses SRNL mission on core technology development needs across the EM portfolio.

and other missions that rely on shielded cells.

- Supports timely revisions to the safety basis, ensuring the capacity to work with nuclear material at risk is maintained and enhanced.
- Supports the recruitment, development, and retention of a highly skilled and specialized workforce required to fully operate and maintain its radiological facilities.
- Supports mission critical operations and maintenance of the AMC facility.
- Enables robust technology ecosystems at the AMC in advance materials science, chemical separations, environmental remediation, and nuclear technology development for addressing EM mission needs.
- Leverages AMC for Research and Technology Development Collaborations, Public-Private Partnerships.

- Facilitates analytical work for Environmental & Legacy Management and other missions that rely on shielded cells.
- Supports timely revisions to the safety basis, ensuring the capacity to work with nuclear material at risk is maintained and enhanced.
- Supports the recruitment, development, and retention of a highly skilled and specialized workforce required to fully operate and maintain its radiological facilities.

**20-D-401, Saltstone Disposal Units 10-12  
Savannah River Site, Aiken, SC  
Project is for Design and Construction**

**1. Summary, Significant Changes, and Schedule and Cost History**

**Summary**

The FY 2027 Request for the Saltstone Disposal Units 10-12 project is \$89,300,000 (includes \$82,500,000 for Total Estimated Costs for Design and Construction activities and \$6,800,000 of Other Project Cost. The \$6,800,000 of Other Project Cost funds are covered within PBS SR-0014C. Funding requested for FY 2027 will support the execution of construction activities on SDUs 10,11, and 12. The Congressional control is for Total Estimated Cost.

Saltstone Disposal Units 10-12 will be designed and constructed based on successful completion of Saltstone Disposal Units 6, 7, and 8/9 and incorporation of Lessons Learned. Saltstone Disposal Units 10-12 will be designed and constructed as closely in parallel as feasible to take advantage of efficiencies in subcontractor mobilization and use of resources. The most recent Critical Decision (CD) was CD-2/3, approve performance baseline and approve start of construction. CD-2/3 was approved on 9/31/2021.

In accordance with DOE Order 413.3B, the Federal Project Director has been assigned. The Federal Project Director is a Level IV certification.

**Significant Changes**

This Construction Project Data Sheet is an update of the FY 2026 Congressional Construction Project Data Sheet and does not include a new start for the budget year.

**Critical Milestone History**

Fiscal Year (FY)	CD-0	Conceptual Design Complete	CD-1	CD-2	Final Design Complete	CD-3	D&D Complete*	CD-4
FY 2020	9/11/2017	12/21/2018	12/21/2018	TBD	TBD	TBD	N/A	TBD
FY 2022	9/11/2017	12/21/2018	12/21/2018	TBD	TBD	TBD	N/A	TBD
FY 2023	9/11/2017	12/21/2018	12/21/2018	9/13/2021	4Q FY29	9/13/2021	N/A	4QFY30
FY 2024	9/11/2017	12/21/2018	12/21/2018	9/13/2021	4Q FY29	9/13/2021	N/A	4QFY30
FY 2025	9/11/2017	12/21/2018	12/21/2018	9/13/2021	4Q FY29	9/13/2021	N/A	4QFY30
Reprogramming <sup>a</sup>	9/11/2017	12/21/2018	12/21/2018	9/13/2021	4Q FY29	9/13/2021	N/A	4Q FY30
FY 2026	9/11/2017	12/21/2018	12/21/2018	9/13/2021	4Q FY29	9/13/2021	N/A	4Q FY30
FY 2027	9/11/2017	12/21/2018	12/21/2018	9/13/2021	4QFY29	9/13/2021	N/A	4QFY30

**CD-0** – Approve Mission Need

**Conceptual Design Complete** – Actual date the conceptual design was completed (if applicable)

**CD-1** – Approve Alternative Selection and Cost Range

**CD-2** – Approve Performance Baseline

**CD-3** – Approve Start of Construction

**Final Design Complete** – Estimated/Actual date the project design will be /was completed, Phased Design tailoring strategy

**D&D Complete** – Completion of D&D work (see Section 5)

**CD-4** – Approve Start of Operations or Project Completion

**Environmental Management/  
Savannah River/20-D-401 Saltstone  
Disposal Units 10-12**

**FY 2027 Congressional Justification**

**PB** – Indicates the Performance Baseline

<sup>a</sup> Formal reprogramming of \$35,400,000 from the completed SDU 8/9 Project in support of the SDU 10-12 Project due to the CR funding reduction.

\*D&D activities not part of this Project

**Project Cost History**

(\$ in thousands)

	TEC, Design	TEC, Construction	TEC, Total	OPC Except D&D	OPC, D&D	OPC, Total	TPC
FY 2020	TBD	TBD	TBD	TBD	N/A	TBD	TBD
FY 2022	TBD	TBD	TBD	TBD	N/A	TBD	TBD
FY 2023	10,167	441,340	451,507	44,493	N/A	44,493	496,000
FY 2024	10,167	441,340	451,507	44,493	N/A	44,493	496,000
FY 2025	10,167	441,340	451,507	44,493	N/A	44,493	496,000
Reprogramming <sup>a</sup>	10,167	441,340	451,507	44,493	N/A	44,493	496,000
FY 2026	10,167	441,340	451,507	44,493	N/A	44,493	496,000
FY 2027	10,167	441,340	451,507	44,493	N/A	44,493	496,000

<sup>a</sup> Formal reprogramming of \$35,400,000 from the completed SDU 8/9 Project in support of the SDU 10-12 Project due to the CR funding reduction.

**2. Project Scope and Justification**

**Scope**

The Saltstone Disposal Units are required to provide the primary containment of Saltstone grout with sufficient capacity to support site closure goals and salt waste projections identified in the Liquid Waste System Plan. The mission need addressed by this project is critical for the final disposition of the decontaminated salt solution that is produced by the liquid waste system and without which the commitments made in the Federal Facilities Agreement with the State of South Carolina and the Environmental Protection Agency cannot be achieved.

The Saltstone Disposal Units 10-12 are next in a series of projects that contain and disposition decontaminated salt solution (in the form of Saltstone grout) generated by the treatment of liquid nuclear waste at the Savannah River Site. Saltstone Disposal Units 10-12 project will construct three (3) 375 feet in diameter, 43 feet high, 34,000,000-gallon cylindrical large tank disposal cells based on American Water Works Association design. This will include all infrastructure necessary to accept Saltstone grout produced by the Saltstone Production facility with sufficient capacity to meet the estimated production rates identified in the Savannah River Site Liquid Waste System Plan.

**Justification**

**Environmental Management/  
Savannah River/20-D-401 Saltstone  
Disposal Units 10-12**

**FY 2027 Congressional Justification**

Built in the 1980s, the Z-Area Saltstone Facility applies a process that immobilizes low-level radioactive salt solution waste in grout. Dry materials are unloaded from dry bulk pneumatic trailers and conveyed to storage silos. The dry solids (fly ash, slag, and cement), are then discharged from the silos, weighed, and blended to produce a premix dry feed. Salt solution which is received from H-Area Waste Tank 50 through the Inter-area Transfer System through the Salt Feed Tank and premix are proportionally measured and fed to a mixer in the 210-Z process room to produce a Saltstone grout, which is pumped to the disposal units for permanent disposal. The grout hardens to form Saltstone that is a leach-resistant, non-hazardous solid waste form as defined by South Carolina Department of Health and Environmental Control regulations. The combination of the monolithic non-hazardous solid Saltstone waste form, concrete vault cell, and closure cap system controls migration of chemical and radioactive constituents to the environment. The Saltstone Disposal Unit projects have been initiated to provide landfill capacity for receipt of Low Activity Treated Waste grout. The need for the Saltstone Disposal Unit is driven by the Savannah River Site Liquid Waste Disposition Program Plan to accomplish cleanup objectives. Saltstone Disposal Unit projects provide the benefits of lower disposal cost for decontaminated salt solutions. The grout itself provides primary containment of the waste, and the walls, floor, and roof of the Disposal Units provide secondary containment. Saltstone Disposal Unit will be constructed in coordination with salt processing production rates.

The need date for all Saltstone Disposal Units is recorded in the Savannah River Site Liquid Waste System Plan. This plan documents the strategy of dispositioning the liquid waste in the Savannah River Site tank farm and meeting the Federal Facility Agreement for tank closure. It is a living document that is routinely updated to account for any changes that may affect the liquid waste system (e.g., funding fluctuations, changes in technology, facility availability, etc.).

The project contingency is based upon previous experience and risks associated with the successful construction of Saltstone Disposal Unit 6, 7, 8, and 9.

The project is being conducted in accordance with the project management requirements in DOE Order 413.3B, Program and Project Management for the Acquisition of Capital Assets.

**Key Performance Parameters**

The Threshold Key Performance Parameters, represent the acceptable performance that the project must achieve. Achievement of the Threshold Key Performance Parameters will be a prerequisite for approval of Critical Decision 4, Project Completion.

<b>Performance Measure</b>	<b>Threshold</b>
Capacity	Provide saltstone grout containment capacity of no less than 30,000,000 gallons.
Throughput	Provide infrastructure capable of delivering saltstone grout at 100 gallons per minute minimum.
Leak Detection	Install a leak detection system in accordance with the Z-Area Industrial Solid Waste Landfill Permit requirements.

**3. Project Cost and Schedule**

**Financial Schedule**

(Dollars in thousands)

	Appropriations	Obligations	Costs
<b>Design</b>			
FY 2020	500	500	48
FY 2021	562	562	473
FY 2022	9,105	9,105	9,646
FY 2023	0	0	0
FY 2024	0	0	0
FY 2025	0	0	0
Outyears	0	0	0
<b>Total, Design</b>	<b>10,167</b>	<b>10,167</b>	<b>10,167</b>
<b>Construction</b>			
FY 2020	0	0	0
FY 2021	0	0	0
FY 2022	8,702	8,702	356
FY 2023	37,668	37,668	40,000
FY 2024	56,250	56,250	56,250
FY 2025	56,250	56,250	56,250
Reprogramming	35,400	35,400	35,400
FY 2026	82,500	82,500	82,500
FY 2027	82,500	82,500	82,500
FY 2028	82,070	82,070	82,500
FY 2029	0	0	5,584
FY 2030	0	0	0
Outyears	0	0	0
<b>Total, Construction</b>	<b>441,340</b>	<b>441,340</b>	<b>441,340</b>
<b>TEC</b>			
FY 2020	500	500	48
FY 2021	562	562	473
FY 2022	17,807	17,807	10,002
FY 2023	37,668	37,668	40,000
FY 2024	56,250	56,250	56,250
FY 2025	56,250	56,250	56,250
Reprogramming	35,400	35,400	35,400
FY 2026	82,500	82,500	82,500
FY 2027	82,500	82,500	82,500
FY 2028	82,070	82,070	82,500
FY 2029	0	0	5,584
FY 2030	0	0	0
Outyears	0	0	0
<b>Total, TEC</b>	<b>451,507</b>	<b>451,507</b>	<b>451,507</b>

(Dollars in thousands)

	Appropriations	Obligations	Costs
<b>OPC</b>			
FY 2018	218	218	218
FY 2019	1,191	1,191	1,191
FY 2020	657	657	657
FY 2021	1,439	1,439	1,439
FY 2022	4,400	4,400	4,400
FY 2023	4,250	4,250	4,250
FY 2024	5,000	5,000	5,000
FY 2025	6,700	6,700	6,700
FY 2026	6,800	6,800	6,800
FY 2027	6,800	6,800	6,800
FY 2028	3,100	3,100	3,100
FY 2029	3,100	3,100	3,100
FY 2030	838	838	838
Outyears	0	0	0
<b>Total, OPC</b>	<b>44,493</b>	<b>44,493</b>	<b>44,493</b>
<b>Total Project Cost (TPC)</b>			
FY 2018	218	218	218
FY 2019	1,191	1,191	1,191
FY 2020	1,157	1,157	705
FY 2021	2,001	2,001	1,912
FY 2022	22,207	22,207	14,402
FY 2023	41,918	41,918	44,250
FY 2024	61,250	61,250	61,250
FY 2025	56,250	56,250	56,250
Reprogramming	35,400	35,400	35,400
FY 2026	89,300	89,300	89,300
FY 2027	89,300	89,300	89,300
FY 2028	85,170	85,170	85,600
FY 2029	3,100	3,100	8,684
FY 2030	838	838	838
Out years	0	0	0
<b>Total, TPC</b>	<b>496,000</b>	<b>496,000</b>	<b>496,000</b>

#### 4. Details of Project Cost Estimate

(Dollars in thousands)

	Current Total Estimate	Previous Total Estimate	Original Validated Baseline
<b>Total Estimated Cost (TEC)</b>			
<b>Design</b>			
Design	9,381	9,381	9,381
Contingency	786	786	786
<b>Total, Design</b>	<b>10,167</b>	<b>10,167</b>	<b>10,167</b>
<b>Construction</b>			
Site Preparation			
Equipment			
Other Construction	384,774	384,774	384,774
Contingency	27,353	27,353	27,353
Fee	29,213	29,213	29,213
<b>Total, Construction</b>	<b>441,340</b>	<b>441,340</b>	<b>441,340</b>
<b>Total, TEC</b>	<b>451,507</b>	<b>451,507</b>	<b>451,507</b>
<b>Contingency, TEC</b>	<b>28,139</b>	<b>28,139</b>	<b>28,139</b>
<b>Other Project Cost (OPC)</b>			
<b>OPC except D&amp;D</b>			
Conceptual Planning			
Conceptual Design	43,638	43,638	43,638
Start-up			
Contingency	855	855	855
Other OPC			
<b>Total, OPC except D&amp;D</b>	<b>44,493</b>	<b>44,493</b>	<b>44,493</b>
<b>Total, OPC</b>	<b>44,493</b>	<b>44,493</b>	<b>44,493</b>
<b>Total, Contingency</b>	<b>855</b>	<b>855</b>	<b>855</b>
<b>Total, TPC</b>	<b>496,000</b>	<b>496,000</b>	<b>496,000</b>
<b>Total, Contingency</b>	<b>28,994</b>	<b>28,994</b>	<b>28,994</b>

#### 5. Schedule of Appropriation Requests

Request	Prior Years	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	Out- years	Total

FY 2020	TEC	500					TBD			TBD
	OPC	500					TBD			TBD
	TPC	1,000					TBD			TBD
FY 2022	TEC	20,562					TBD			TBD
	OPC	5,750					TBD			TBD
	TPC	26,312					TBD			TBD
FY 2023	TEC	58,230					TBD			451,507
	OPC	10,000					TBD			44,493
	TPC	68,230					TBD			496,000
FY 2024	TEC	112,787	82,500	82,500	82,500	59,950	29,577			451,507
	OPC	17,155	6,700	6,800	6,800	3,100	5,992			44,493
	TPC	129,942	89,200	89,300	89,300	63,050	35,570			496,000
FY 2025	TEC	112,787	56,250	82,500	82,500	59,950	29,577			416,107
	OPC	17,155	6,700	6,800	6,800	3,100	5,992			44,493
	TPC	129,942	62,950	89,300	89,300	63,050	35,570			460,600
FY 2025 Reprogramming <sup>a</sup>	TEC	0	35,400	0	0	0	0			35,400
	OPC	0	0	0	0	0	0			0
	TPC	0	35,400	0	0	0	0			35,400
FY 2026	TEC	112,787	91,650	82,500	82,500	82,070	0	0		451,507
	OPC	17,155	6,700	6,800	6,800	3,100	3,100	838		44,493
	TPC	129,942	98,350	89,300	89,300	85,170	3,100	838		496,000
FY 2027	TEC	112,787	91,650	82,500	82,500	82,070	0	0		451,507
	OPC	17,155	6,700	6,800	6,800	3,100	3,100	838		44,493
	TPC	129,942	98,350	89,300	89,300	85,170	3,100	838		496,000

<sup>a</sup> Formal reprogramming of \$35,400,000 from the completed SDU 8/9 Project in support of the SDU 10-12 Project due to funding reduction (CR).

## 6. Related Operations and Maintenance Funding Requirements

Start of Operation or Beneficial Occupancy – SDU 10	May-2027
Start of Operation or Beneficial Occupancy – SDU 11	Dec-2028
Start of Operation or Beneficial Occupancy – SDU 12	Aug-2030
Expected Useful Life (number of years) (per Saltstone Disposal Unit)	5
Expected Future Start of D&D	N/A

### **Related Funding Requirements**

(Dollars in Thousands)

COST ESTIMATED PER SALTSTONE DISPOSAL UNIT	Annual Costs		Life Cycle Costs	
	Current Total Estimate	Previous Total Estimate	Current Total Estimate	Previous Total Estimate
Operations	100	N/A	500	N/A
Maintenance	50	N/A	150	N/A
Total, Operations & Maintenance	150	N/A	750	N/A

#### **7. D&D Information**

Project licensed by the State of South Carolina as a landfill. Decontamination and Decommissioning is not applicable for this project.

The new area being constructed in this project is not replacing existing facilities.

The location of this construction project is an environmental management closure site and, therefore, is exempt from the “one-for-one” requirement.

#### **8. Acquisition Approach**

Currently, the approach assumes that the liquid waste Prime Contractor will be used to create the design, provide engineering, and project management support, or other services required to execute the project. This project will be designed and constructed consistent with the successful execution of the Saltstone Disposal Unit 6, 7, and 8/9 projects, incorporating best practices and lessons learned.

## Lawrence Livermore National Laboratory

### Overview

Lawrence Livermore National Laboratory is a National Nuclear Security Administration (NNSA) multi-disciplinary research and development center focusing on weapons development, stewardship and homeland security. Cleanup of the Lawrence Livermore National Laboratory Main Site led to the final disposition of legacy waste inventories and the build-out of the Lawrence Livermore National Laboratory Livermore Site Environmental Restoration Project. The Lawrence Livermore National Laboratory Hazardous Waste Management Program and Long-Term Stewardship associated with the Lawrence Livermore National Laboratory Main Site Environmental Restoration Project transferred from EM to the NNSA in FY 2006. The EM-managed Lawrence Livermore National Laboratory Excess Facilities decommissioning, and demolition effort commenced in 2018. Based on current estimates, EM is responsible for addressing \$0.5 billion in identified clean-up liability at the Lawrence Livermore National Laboratory (LLNL) site – roughly 0.04% percent of the \$418 billion total liability across all EM sites. Successful implementation of current plans and milestones would result in completion of the identified clean-up mission at the LLNL site in the 2030 to 2040 timeframe.

Lawrence Livermore National Laboratory Site 300 is a remote experimental testing facility that conducts research, development, and testing of high explosives and integrated non-nuclear weapons components. The site was placed on the U.S. Environmental Protection Agency's National Priority List in 1990 due to legacy contamination from past operations. Remedial action selection and build-out is complete for Operable Units 1 through 8, apart from perchlorate groundwater contamination at Building 850 (Operable Unit 5).

Long-Term Stewardship responsibility for Operable Units 1-8 was transferred to the NNSA. Within the nine Operable Units, there are 73 contaminant release sites at Site 300, of which 69 have been completed. EM's responsibility is the characterization, remedy selection, and implementation for remaining perchlorate contamination in Building 850 groundwater, Building 865, Building 812 Firing Table and Building 812 Wastewater Outflow within Operable Unit 9. Upon completion of characterization and/or remedy selection and implementation for perchlorate contamination in Building 850 groundwater and for Building 865, these areas will be incorporated into Operable Units 5 and 8, respectively, and responsibility will be transferred to the NNSA.

Twenty-one groundwater and soil vapor extraction and treatment facilities at Lawrence Livermore National Laboratory Site 300 have been constructed and are operational. The remedy selection and implementation for soil and groundwater for Building 865 (Operable Unit 8), Building 812 (Operable Unit 9 Firing Table and Wastewater Outflow), and the remaining perchlorate contamination in Building 850 (Operable Unit 5) groundwater are currently scheduled for completion by the end of FY 2033. Other cleanup work at Lawrence Livermore National Laboratory Site 300 is for site investigations, hydrogeologic studies, stakeholder liaisons and state grants payment.

The remaining EM investigations and actions at Lawrence Livermore National Laboratory Site 300 are required by the Lawrence Livermore National Laboratory Site 300 Federal Facility Agreement; the Comprehensive Environmental Response, Compensation and Liability Act; and the National Contingency Plan. The Federal Facility Agreement describes remedial investigations, action requirements plus a procedural framework to develop, implement, and monitor remedial actions. The Comprehensive Environmental Response,

Compensation and Liability Act and the National Contingency Plan provide the federal statutory and regulatory requirements for cleanup of legacy contamination.

EM restoration work benefits at Lawrence Livermore National Laboratory Site 300 include the reduction of potential human health and ecological risk by focusing on contaminant plumes and sources that are the greatest contributors to risk. The overall goal is to ensure that risks to the public and workers are controlled, followed by work to clean up soil and groundwater using a risk-based methodology.

The 2018 Consolidated Appropriations Act, (Public Law 115-141), directed DOE to decommission and demolish the B280 Pool Type Reactor and other excess facilities at Lawrence Livermore National Laboratory. The Department annually screens excess facilities to identify the highest risks to missions, the workforce, the public, and the environment to support risk-informed decisions by senior leadership. The Department identified five of the highest risk excess facilities at Lawrence Livermore National Laboratory. Continued deterioration of these facilities has increased the risks posed and has complicated the work necessary to dispose of the facilities.

### **Highlights of the FY 2027 Budget Request**

Demolition planning efforts will continue at other NNSA-owned high-risk contaminated excess facilities including Building 281 slab and soil removal and Building 292 (Rotating Target Neutron Source Facility).

Most activities scheduled for FY 2027 for Site 300 support the development of remedial solutions for contamination at Building 812 (Firing Table and Wastewater Outflow), Building 850, and Building 865.

### **FY 2026 - FY 2027 Key Milestones/Outlook**

- (July 2026) Complete Legacy Slab 412 slab and soil removal.
- (September 2026) Complete Building 280 Demolition and Dismantlement.
- (September 2026) Complete Building 281 Demolition and Dismantlement.
- (September 2026) Complete final Remedial Investigation/Feasibility Study for Building 865 Part 2. (metals in soil)
- (September 2026) Commence Building 243 pre-Demolition and Dismantlement.
- (January 2027) Commence Building 241 pre-Demolition and Dismantlement.
- (September 2027) Complete Building 280 slab, underground structures and soil removal.

### **Regulatory Framework**

- Federal Facility Agreement with the U.S. Environmental Protection Agency and two State of California Regulatory Agencies (1992).
- Comprehensive Environmental Response, Compensation and Liability Act.

### **Contractual Framework**

The current contract with Lawrence Livermore National Security, LLC, for the operation of Lawrence Livermore National Laboratory is a Management and Operating contract under the management and oversight of the National Nuclear Security Administration. The current contract began in 2007 with a seven-year base and up to 13 one-year option award terms. Program planning and management at Lawrence Livermore National Laboratory is conducted through the issuance and execution of subcontracts to large and small businesses. Lawrence Livermore National Laboratory utilizes near- and long-term planning approaches in order

to develop contract strategies and program/project plans at a more detailed level. Selected subcontractors then execute these plans to support the Site 300 cleanup project.

EM work is typically executed through work authorizations under the NNSA's Management and Operating contract, with cleanup work typically performed by Lawrence Livermore National Security and its subcontractors. However, for the NNSA-owned high-risk contaminated excess facilities, EM is using multiple contracting avenues to facilitate decommissioning and demolition. EM is partnering with the U.S. Army Corps of Engineers to accomplish the Building 280 reactor removal and demolition and issuing work authorizations under the NNSA's Management and Operating contract to remove many of the Building slabs, underground structures and associated contaminated soil continue pre-demolition and dismantlement activities for Legacy Slab and Building 212. EM is also using a Nationwide Deactivation, Decommissioning and Removal Indefinite Delivery-Indefinite Quantity contract for Building 241 demolition to slab and Building 243 demolition to slab and Building 281 demolition to slab.

## **Strategic Management**

Position the DOE to meet the challenges of the nation's Manhattan Project and Cold War legacy responsibilities:

- Prevent contamination of water supply wells and associated risk to human health and loss of beneficial uses of groundwater.
- Prevent exposure of onsite workers to contaminants and reduce the current risk.
- Control and prevent further offsite plume migration.
- Reduce contaminant concentration and mass in the vadose zone and groundwater.
- Control contaminant sources.

The following factors could have significant impacts on individual projects and may impact the overall cleanup scope, schedule, and cost. Potential impacts are as follows:

- The U.S. Environmental Protection Agency and the State of California Water Board regulators for the Site 300 project have been performing in-depth reviews of previously addressed areas and revisiting past cleanup decisions.
- Emerging contaminants, such as Perfluoroalkyl and Polyfluoroalkyl Substances, could result in added cleanup scope.
- The major uncertainty is the remediation of the depleted uranium contaminated soil at the Building 812 Firing Table (Operable Unit 9).
- The challenges of the project include the excavation of soil from very steep terrain, large volumes of soil to be remediated, and potential impacts to endangered species habitat and surface water drainage ways in the area during excavation and remediation.

**Lawrence Livermore National Laboratory**

**Funding (\$K)**

	<b>FY 2025 Enacted</b>	<b>FY 2026 Enacted</b>	<b>FY 2027 Request</b>	<b>FY 2027 Request vs FY 2026 Enacted</b>	
				<b>\$</b>	<b>%</b>
<b>Defense Environmental Cleanup</b>					
<b>NNSA Sites</b>					
<b>Lawrence Livermore National Laboratory</b>					
VL-FOO-0013B-D / Solid Waste Stabilization and Disposition Support	430	447	447	+0	0%
VL-LLNL-0031 / Soil and Water Remediation - Site 300	1,449	1,508	1,508	+0	0%
<b>Subtotal, Lawrence Livermore National Laboratory</b>	<b>1,879</b>	<b>1,955</b>	<b>1,955</b>	<b>+0</b>	<b>0%</b>
<b>Total, NNSA Sites</b>	<b>1,879</b>	<b>1,955</b>	<b>1,955</b>	<b>+0</b>	<b>0%</b>

**Lawrence Livermore National Laboratory  
Explanation of Major Changes (\$K)**

<b>FY 2026 Enacted</b>	<b>FY 2027 Request</b>	<b>FY 2027 Request vs FY 2026 Enacted</b>
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**Defense Environmental Cleanup**

**NNSA Sites**

**Lawrence Livermore National Laboratory**

**VL-FOO-0013B-D / Solid Waste Stabilization and Disposition Support**

- No change.

**VL-LLNL-0031 / Soil and Water Remediation - Site 300**

- No change.

**Total, Lawrence Livermore National Laboratory**

447	447	+0
1,508	1,508	+0
<b>1,955</b>	<b>1,955</b>	<b>+0</b>

**solid Waste Stabilization and Disposition Support (PBS:VL-FOO-0013B-D)**

**Overview**

This Project Baseline Summary (PBS) is within the Defense Environmental Cleanup appropriation.

The activities in this PBS support the EM cleanup activities at Site 300 that will be completed with build out for perchlorate in groundwater at the Building 850 firing table in Operable Unit 5; remedy selection and/or build out at Building 865 in Operable Unit 8; and remediation of contaminated soil and build out of the remedy for remediation of groundwater at the Building 812 Firing Table in Operable Unit 9. Activities performed in this project will continue to provide funding for:

- Grants to the State of California Regional Water Quality Control Board and the California Department of Toxic Substances Control to provide Comprehensive Environmental Response, Compensation, and Liability Act oversight. This funding is mandated by the Federal Facility Agreement signed by DOE, the U.S. Environmental Protection Agency, and the State of California.
- Site investigations, hydrogeologic studies, regulatory review, and stakeholder liaisons are also managed within this project through wide applicability of these restoration activities. This project will end when the EM environmental restoration activities at Site 300 (as described above) are completed, and the areas turned over to the National Nuclear Security Administration under Long-Term Stewardship currently projected for FY 2032.

**Activities and Explanation of Changes**

FY 2026 Enacted	FY 2027 Request	Explanation of Changes - FY 2027 Request vs FY 2026 Enacted
<b>\$447,000</b>	<b>\$447,000</b>	<b>+\$0</b>
<ul style="list-style-type: none"> <li>• Provide grants to the State of California Regional Water Quality Control Board and the California Department of Toxic Substances Control to support Comprehensive Environmental Response, Compensation, and Liability Act oversight. This funding is mandated by the Federal Facility Agreement signed by DOE, Environmental Protection Agency, and the State of California.</li> </ul>	<ul style="list-style-type: none"> <li>• Provide grants to the State of California Regional Water Quality Control Board and the California Department of Toxic Substances Control to support Comprehensive Environmental Response, Compensation, and Liability Act oversight. This funding is mandated by the Federal Facility Agreement signed by DOE,</li> </ul>	<ul style="list-style-type: none"> <li>• No change.</li> </ul>

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Environmental Protection Agency, and the  
State of California.

**Soil and Water Remediation – Site 300 (PBS: VL-LLNL-0031)**

**Overview**

This Project Baseline Summary is within the Defense Environmental Cleanup appropriation.

The remedial actions required by regulatory decision documents will reduce the risks, overall liability, and mortgage at Site 300 associated with the four remaining EM contaminant release sites:

- Release Site 0035: Building 865 (Advanced Test Accelerator)
- Release Site 0038: Building 812 Firing Table (Operable Unit 9)
- Release Site 0040: Building 850 Firing Table Groundwater Project (Building 850 portion of Operable Unit 5)
- Release Site 0049: Building 812 Wastewater Outflow (Operable Unit 9)

Remedial investigation and remedial buildout at the Building 812/Operable Unit 9, Building 865/Operable Unit 8, and for perchlorate in Building 850/Operable Unit 5 groundwater remain the responsibility of EM. When remedial investigations and remedial action selection buildout in these areas are complete, responsibility for the management and funding of Long-Term Stewardship activities required by the Comprehensive Environmental Response Compensation and Liability Act will be transferred from EM to the NNSA.

**Activities and Explanation of Changes**

FY 2026 Enacted	FY 2027 Request	Explanation of Changes - FY 2027 Request vs FY 2026 Enacted
<b>\$1,508,000</b>	<b>\$1,508,000</b>	<b>+\$0</b>
<ul style="list-style-type: none"> <li>• Continue the Treatability Study for Enhanced In Situ Bioremediation of Perchlorate in Ground water at Building 850/Operable Unit 5.</li> <li>• Initiate the Remedial Investigation/Feasibility Study for Building 812.</li> <li>• Initiate the Remedial Investigation/Feasibility Study for Building 865 part 2 – Metals in Soil.</li> </ul>	<ul style="list-style-type: none"> <li>• Initiate the Remedial Investigation/Feasibility Study document for Building 812 and discuss remedial alternatives with regulatory agencies.</li> <li>• Continue the SEISM soil characterization efforts at Buildings 801/802/804/845.</li> <li>• Continue the Treatability Study for Enhanced In-Situ Bioremediation of Perchlorate in</li> </ul>	<ul style="list-style-type: none"> <li>• No change.</li> </ul>

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Ground water at Building 850/Operable Unit  
5.

# Los Alamos National Laboratory

## Overview

Since its inception in 1943 as part of the Manhattan Project, the primary mission of the Los Alamos National Laboratory has been nuclear weapons research and development. In achieving this mission, the Laboratory released hazardous and radioactive materials to the environment through outfalls, stack releases, and material disposal areas. In addition to mixed and low-level radioactive waste needing off-site disposal, transuranic waste has accumulated and been staged in preparation for off-site disposition to the Waste Isolation Pilot Plant (WIPP). Based on current estimates, the Office of Environmental Management (EM) is responsible for addressing \$6.4 billion in identified clean-up liability at the Los Alamos National Laboratory (LANL) site, roughly 1.5 percent of the \$418 billion total liability across all EM sites. Successful implementation of current plans and milestones would result in completion of the identified clean-up mission at the LANL site in the 2060 to 2070 timeframe.

Since 1989, the EM program at Los Alamos National Laboratory has been responsible for addressing the characterization and cleanup of environmental media (i.e., soil, groundwater, surface water, and landfills known as Material Disposal Areas); decommissioning and demolition of process-contaminated facilities; and disposition of legacy waste. The EM Los Alamos Field Office seeks to execute its cleanup mission safely, transparently, and efficiently.

## Highlights of the FY 2027 Budget Request

The FY 2027 budget request provides for:

- Continued characterization and certification of transuranic waste and shipment to the WIPP.
- Continued funding for the feasibility study for retrieval of “non-retrievable” transuranic waste from Pit 8 at Area G.
- Funding supports un-remediated nitrate salt waste disposition currently stored off-site with eventual disposition to the WIPP.
- Continued compliance with the 2016 Compliance Order on Consent dated June 2016, modified September 2024, between the New Mexico Environment Department and the DOE, and with requirements for Campaigns, Milestones and End Dates, including compliance sampling and reporting at 178 groundwater and surface water locations.
- Continued compliance for discharge of stormwater from 405 sites at 239 Site Monitoring areas under the Environmental Protection Agency National Pollutant Discharge Elimination System Individual Permit and for sediment mitigation measures under the Consent Order.
- Continued field work at Potrillo and Fence Canyons and Lower Pajarito Canyon Aggregate Areas.
- Continued operation of the Hexavalent Chromium Plume Control Interim Measure for continued boundary migration and installation of monitoring well R-79, a new hexavalent chromium groundwater monitoring well or another well as agreed to with the New Mexico Environment Department.
- Continued soil vapor extraction Interim Measure at MDA L and soil vapor sampling at MDA C.

## FY 2026 - FY 2027 Key Milestones/Outlook

- (April 2026) Complete installation of Regional Aquifer Monitoring Well SIMR-3 and Collection of First Samples (Hexavalent Chromium Groundwater Plume).

- (July 2026) Initiate drilling activities for Regional Aquifer Monitoring Well R-80.
- (August 2026) Letter report documenting Chromium Interim Measures Operations and Performance Monitoring results.
- (September 2026) Letter Report documenting work executed in Lower Pajarito Canyon Aggregate Area.
- (September 2026) Letter Report documenting work executed in Potrillo and Fence Canyons Aggregate Area.
- (September 2026) Letter Report documenting work executed in Twomile Canyon.
- (January 2027) Completion of soil remediation of two polychlorinated biphenyl soil contamination sites.
- (January 2027) Certificate of Completion Request for Starmer/Upper Pajarito Canyon.
- (February 2027) Certificate of Completion Request for Chaquehui Canyon.
- (July 2027) Initiate drilling activities for Regional Aquifer Monitoring Well R-79 or another well as agreed to with the New Mexico Environment Department.
- (September 2027) Letter report documenting work executed in Pueblo Canyon.
- (September 2027) Letter report documenting work executed in Upper Los Alamos Canyon.

## **Regulatory Framework**

The 2016 Compliance Order on Consent between the New Mexico Environment Department and the DOE (Consent Order), was modified on September 30, 2024, and supersedes the 2005 Consent Order. The Consent Order provides the primary requirements for the environmental cleanup efforts at Los Alamos National Laboratory establishing an enforceable scope, schedule, and milestones for corrective actions. The New Mexico Environment Department initiated a complaint in district court in February 2021 asking for court ordered renegotiation of the Consent Order settlement; discussions were completed resulting in the 2024 revision.

The US Environmental Protection Agency issued National Pollutant Discharge Elimination System Individual Permit (Individual Permit) regulates storm water discharge from a total of 405 solid waste management units and areas of concern (Sites) and designated 239 Site Monitoring Areas as sampling locations for compliance monitoring purposes. A new Individual Permit was issued by Region VI of the US Environmental Protection Agency on August 1, 2022, and provides relief with fewer inspections and a new category for sites with elevated natural background.

Other drivers include the 1995 Federal Facilities Compliance Agreement; Public Law 105-119; 10 Code of Federal Regulations Part 830, Nuclear Safety Management; a hazardous waste facility permit for storage and treatment; the Federal Facility Compliance Order; the Toxic Substances Control Act; the Resource Conservation and Recovery Act; the Clean Air Act; the Settlement Agreement and Stipulated Final Order (chromium) 2007.

## **Contractual Framework**

In December 2017, the Department awarded the Los Alamos Legacy Cleanup Contract to Newport News Nuclear BWXT Los Alamos, LLC. The contract was transitioned on April 30, 2018 with a five-year base period with one three-year option and one two-year option, for a total of 10 years. Newport News Nuclear BWXT Los Alamos, LLC was awarded both options with a period of performance through April 2028.

## **Strategic Management**

The following factors and assumptions could have significant impacts on individual projects and could impact the overall cleanup scope, schedule, and costs identified:

- Strong coordination with the WIPP and the shared shipping facility RANT (Radioassay & Non-Destructive Testing) will maintain a strong shipping posture.
- In most cases, it is assumed that some form of active treatment for some period to address groundwater contaminants will be accepted as the remedy rather than monitored natural attenuation. Current characterization and testing activities indicated that an active remediation process may be implemented for potentially significant durations for hexavalent chromium contamination. However, the Royal Demolition Explosives contamination area may consist of monitored natural attenuation and perhaps include some active remediation as the final remedy.
- It is assumed that regulators will approve cleanup levels for individual sites that correspond to the intended land use, thereby leaving in place some contaminants that do not pose unacceptable health and environmental risks.

**Los Alamos National Laboratory**

**Funding (\$K)**

	<b>FY 2025 Enacted</b>	<b>FY 2026 Enacted</b>	<b>FY 2027 Request</b>	<b>FY 2027 Request vs FY 2026 Enacted</b>	
				<b>\$</b>	<b>%</b>
<b>Defense Environmental Cleanup</b>					
<b>NNSA Sites</b>					
<b>Los Alamos Excess Facilities D&amp;D</b>					
CBC-LANL-0040 / Los Alamos Excess Facilities D&D	13,648	1,693	0	-1,693	-100%
<b>Los Alamos National Laboratory</b>					
VL-FAO-0101 / Miscellaneous Programs and Agreements in Principle	6,111	5,380	6,111	+731	+14%
VL-LANL-0013 / Solid Waste Stabilization and Disposition	127,264	114,552	109,050	-5,502	-5%
VL-LANL-0030 / Soil and Water Remediation	152,456	158,356	178,776	+20,420	+13%
<b>Subtotal, Los Alamos National Laboratory</b>	<b>285,831</b>	<b>278,288</b>	<b>293,937</b>	<b>+15,649</b>	<b>+6%</b>
<b>Total, NNSA Sites</b>	<b>299,479</b>	<b>279,981</b>	<b>293,937</b>	<b>+13,956</b>	<b>+5%</b>
<b>Safeguards and Security</b>					
VL-LANL-0020 / Safeguards and Security	5,000	956	2,000	+1,044	+109%
<b>Total, Los Alamos National Laboratory</b>	<b>304,479</b>	<b>280,937</b>	<b>295,937</b>	<b>+15,000</b>	<b>+5%</b>

**Los Alamos National Laboratory  
Explanation of Major Changes (\$K)**

	<b>FY 2026 Enacted</b>	<b>FY 2027 Request</b>	<b>FY 2027 Request vs FY 2026 Enacted</b>
<b>Defense Environmental Cleanup</b>			
<b>Los Alamos</b>			
<b>EMLA Cleanup Activities</b>			
<b>VL-LANL-0013 / Solid Waste Stabilization and Disposition</b>			
<ul style="list-style-type: none"> <li>The decrease pauses planning for waste retrieval at Pit 9 at Area G which is partially offset by an increase for treatment and removal of transuranic waste from Waste Control Specialists, LLC commercial radioactive waste treatment and disposal facility.</li> </ul>	114,552	109,050	-5,502
<b>VL-LANL-0030 / Soil and Water Remediation</b>			
<ul style="list-style-type: none"> <li>The increase supports initiation of field investigation at Potrillo, Fence Canyons and Lower Pajarito Canyon Aggregate Areas, completion of Twomile Canyon Aggregate Area, and updates to hexavalent chromium plume conceptual site model as agreed with New Mexico Environment Department.</li> </ul>	158,356	178,776	+20,420
<b>EMLA Community and Regulatory Support</b>			
<b>VL-FAO-0101 / Miscellaneous Programs and Agreements in Principle</b>			
<ul style="list-style-type: none"> <li>No significant changes.</li> </ul>	5,380	6,111	+731
<b>Los Alamos Excess Facilities D&amp;D</b>			
<b>CBC-LANL-0040 / Los Alamos Excess Facilities D&amp;D</b>			
<ul style="list-style-type: none"> <li>The decrease supports the expectation of project completion.</li> </ul>	1,693	0	-1,693
<b>Safeguards and Security</b>			
<b>VL-LANL-0020 / Safeguards and Security</b>			
<ul style="list-style-type: none"> <li>The increase aligns the funding for planned activities in FY2027 for continued Energy Information Technology services, Mission Information Protection Program audit, &amp; Subject Matter Expert support from a technical assistance contract.</li> </ul>	956	2,000	+1,044
<b>Total, Los Alamos National Laboratory</b>	<b>280,937</b>	<b>295,937</b>	<b>+15,000</b>

## Solid Waste Stabilization and Disposition (PBS: VL-LANL-0013)

### Overview

This Project Baseline Summary (PBS) is within the Defense Environmental Cleanup appropriation.

The Solid Waste Stabilization and Disposition PBS, also known as the Legacy Waste Disposition PBS, is comprised of the characterization, treatment, storage, transportation, and ultimate disposition of legacy transuranic and mixed low-level waste generated between 1970 and 1999 at the Los Alamos National Laboratory. The end-state of this project is the safe disposal of legacy waste from Los Alamos National Laboratory. The long-term liability of LANL solid waste stabilization and disposition is currently estimated to cost \$2.32 billion and take up to 24 years to complete. Because activities planned in FY2027 are primarily base operations activities funded in FY 2027 they do not have a significant impact in reducing long-term liability. However, they are necessary to enable progress on the LANL long-term environmental liability.

This PBS scope is integrated with the Soil and Water Remediation PBS (PBS-VL-LANL-0030), which includes compliance activities associated with the 2016 Compliance Order on Consent between the New Mexico Environment Department and the DOE, which was modified on September 30, 2024.

### Activities and Explanation of Changes

FY 2026 Enacted	FY 2027 Request	Explanation of Changes - FY 2027 Request vs FY 2026 Enacted
<b>\$114,552,000</b>	<b>\$109,050,000</b>	<b>-\$5,502,000</b>
<ul style="list-style-type: none"> <li>• Continue Solid Waste Stabilization and activities at Los Alamos National Laboratory.</li> <li>• Continue management and disposition of mixed low-level radioactive waste/low-level radioactive waste and transuranic waste.</li> <li>• Continue Nuclear Safety activities required at Technical Area 54 Area G.</li> <li>• Continue safe operations of transuranic waste processing lines at Technical Area 54 Area G.</li> </ul>	<ul style="list-style-type: none"> <li>• Continue Solid Waste Stabilization and activities at Los Alamos National Laboratory.</li> <li>• Continue management and disposition of mixed low-level radioactive waste/low-level radioactive waste and transuranic waste.</li> <li>• Continue Nuclear Safety activities required at Technical Area 54 Area G.</li> <li>• Continue safe operations of transuranic waste processing lines at Technical Area 54 Area G.</li> </ul>	<ul style="list-style-type: none"> <li>• The decrease pauses planning for the future waste retrieval at Pit 9 at Area G which is partially offset by an increase for treatment and removal of transuranic waste from Waste Control Specialists, LLC commercial radioactive waste treatment and disposal facility.</li> </ul>

- Continue activities to certify legacy transuranic waste for shipments to the Waste Isolation Pilot Plant.
- Support transuranic waste characterization activities such as Visual Examination, Real Time Radiography, Non-Destructive Assay, Dose to Curie Conversion, and Flammable Gas Analysis.
- Support continued staging of a portion of transuranic waste inventory at an offsite commercial facility, pending possible shipments to the Waste Isolation Pilot Plant.
- Begin shipments of retrieved below-grade transuranic waste.
- Continue Pit 9 planning operations.
- Continue all preparations for treatment and removal of transuranic waste from Waste Control Specialists, LLC commercial radioactive waste treatment and disposal facility.
- Continue activities to certify legacy transuranic waste for shipment to the Waste Isolation Pilot Plant., such as Visual Examination, Real Time Radiography, Non-Destructive Assay, Dose to Curie Conversion, and Flammable Gas Analysis.
- Support continued staging of a portion of transuranic waste inventory at an offsite commercial facility, pending processing and shipment to the Waste Isolation Pilot Plant.
- Continues all preparations for treatment and removal of transuranic waste from Waste Control Specialists, LLC commercial radioactive waste treatment and disposal facility.

## Soil and Water Remediation (PBS: VL-LANL-0030)

### Overview

This Project Baseline Summary (PBS) is within the Defense Environmental Cleanup appropriation.

The Los Alamos National Laboratory Soil and Water Remediation PBS scope includes identification, investigation and remediation of chemical and/or radiological contamination in soil, surface water, and groundwater attributable to legacy Laboratory operations and practices. The long-term liability of soil and water remediation program is currently estimated to cost \$2.7 billion and take up to 36 years to complete. Because activities planned in FY2027 are primarily base operations activities funded in FY 2027 they do not have a significant impact in reducing long-term liability. However, completion of the solid waste disposition was necessary to enable progress on the soil and water remediation.

Soil remediation includes characterization, remediation, and closure of the remaining ~860 Solid Waste Management Units (SWMUs) and Areas of Concern (AOCs). The SWMUS and AOCs range from small surface soil contamination sites up to large 63-acre buried landfill sites.

In addition to the investigation and closure of SWMUs and AOCs, a storm water mitigation and management program is being implemented that is compliant with the August 1, 2022 National Pollutant Discharge Elimination System Individual Permit issued by Region VI of the US Environmental Protection Agency. Additionally surface water sediment transport mitigation projects are implemented under the Compliance Order on Consent (Consent Order).

Characterization, monitoring, and protection of groundwater including sampling and monitoring at over 178 locations, and remediation of two contaminated groundwater plumes remains top priority with DOE, the New Mexico regulator, and stakeholders.

Beginning in FY 2018, activities previously included in the Project Baseline Summary for Decontamination and Demolition were integrated into this Project Baseline Summary, consistent with the integrated, campaign approach reflected in the 2016 Compliance Order on Consent between the New Mexico Environment Department and the DOE, which was modified on September 30, 2024. This integration with the remediation addresses the problem of facility demolition exposing otherwise covered contaminants that would unnecessarily expose public receptors to significant hazardous materials until remediation could be effective. This specific Decontamination and Demolition scope will remain under PBS-0030; however, Decontamination and Demolition of Deactivated National Nuclear Security Administration excess high-risk facilities (Ion Beam Facility) will be covered under PBS-0040.

### Activities and Explanation of Changes

FY 2026 Enacted	FY 2027 Request	Explanation of Changes - FY 2027 Request vs FY 2026 Enacted
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<b>\$158,356,000</b>	<b>\$178,776,000</b>	<b>+\$20,420,000</b>
<ul style="list-style-type: none"> <li>• Continue soil and groundwater monitoring and reporting requirements consistent with the Compliance Order on Consent (Consent Order) signed on June 24, 2016; continued operation and evaluation of sediment transport mitigation measures implemented under the Consent Order to protect surface water drinking water supplies.</li> <li>• Continue to provide critical database management and infrastructure support to meet Consent Order requirements.</li> <li>• Conduct authorization basis surface inspections at several Nuclear Environmental Sites and required repairs.</li> <li>• Continue storm water runoff discharge monitoring, mitigation and reporting requirements at 239 Site Monitoring Areas consistent with the National Pollutant Discharge Elimination System Individual Permit.</li> <li>• Complete the installation of one and planning for two Regional Aquifer monitoring wells in support of the Hexavalent Chromium Campaign as agreed to with the New Mexico Environment Department.</li> <li>• Operate the hexavalent chromium plume control Interim Measure.</li> </ul>	<ul style="list-style-type: none"> <li>• Continued compliance with the 2016 Compliance Order on Consent between the New Mexico Environment Department and the U.S. Department of Energy (Consent Order), which was modified on September 30, 2024 with Campaigns, Milestones, and End Dates, including compliance sampling and reporting at 178 groundwater and surface water locations.</li> <li>• Support field investigations at Potrillo and Fence Canyons and Lower Pajarito Canyon Aggregate Areas and complete remediation of Twomile Canyon Aggregate Area, working toward completion of two clean-up campaigns.</li> <li>• Continue storm water runoff discharge monitoring, mitigation and reporting requirements at 239 Site Monitoring Areas consistent with the National Pollutant Discharge Elimination System Individual Permit.</li> <li>• Complete the installation of one and planning for two Regional Aquifer monitoring wells in support of the Hexavalent Chromium Campaign as agreed to with the New Mexico Environment Department.</li> <li>• Partial operations of the hexavalent chromium plume control Interim Measure.</li> <li>• Continue hexavalent chromium plume</li> </ul>	<ul style="list-style-type: none"> <li>• The increase supports initiation of field investigation at Potrillo, Fence Canyons and Lower Pajarito Canyon Aggregate Areas, completion of Twomile Canyon Aggregate Area, and updates to hexavalent chromium plume conceptual site model as agreed to with the New Mexico Environment Department.</li> </ul>

- Continue hexavalent chromium plume characterization through modeling and hydrology studies in support of a Corrective Measures Evaluation.
- Continued Decontamination and Demolition of Technical Area 21 Building 21-257 (Radiological Liquid Waste Facility) and industrial waste line.
- Continue negotiations with the New Mexico Environment Department on risk-based decision regarding remedial options.
- Continue Southern External Boundary Consent Order Campaign, investigating and closing 60 Solid Waste Management Units and Areas of Concern.
- Continue operation and reporting of the Soil Vapor Extraction at Material Disposal Area L.
- Initiate investigations under the Upper Water Watershed Campaign – Cañon de Valle Aggregate Area, Technical Area 15.
- Initiate investigations under the Upper Water Watershed Campaign – S-Site Aggregate Area.  
Continue investigations under the Pajarito Watershed Campaign – Lower Pajarito Canyon Aggregate Area.
- characterization through modeling and hydrology studies, including an update to the conceptual site model.
- Continued sediment mitigation measures to protect surface water drinking water supply.
- Continue operation and reporting of the Soil Vapor Extraction at Material Disposal Area L. and Material Disposal Area C.



**Miscellaneous Programs and Agreements in Principle (PBS: VL-FAO-0101)**

**Overview**

This Project Baseline Summary (PBS) is within the Defense Environmental Cleanup appropriation.

This PBS includes continued community, Tribal, and site wide programs including the Natural Resource Damage Assessment Program at Los Alamos National Laboratory. The pre-assessment screening and the Natural Resource Damage Assessment Plan for the Los Alamos National Laboratory site were completed in FY 2014. The Los Alamos National Laboratory Natural Resource Trustee Council is continuing assessment activities.

**Activities and Explanation of Changes**

FY 2026 Enacted	FY 2027 Request	Explanation of Changes - FY 2027 Request vs FY 2026 Enacted
<b>\$5,380,000</b>	<b>\$6,111,000</b>	<b>+\$731,000</b>
<ul style="list-style-type: none"> <li>• Support the New Mexico Agreement in Principle including Regional Coalition activities.</li> <li>• Support the Natural Resource Damage Assessment including preliminary assessment development and Trustee Council activities.</li> <li>• Support the Los Alamos Pueblo Project.</li> </ul>	<ul style="list-style-type: none"> <li>• Support the New Mexico Agreement in Principle including Regional Coalition activities.</li> <li>• Support the Natural Resource Damage Assessment including preliminary assessment development and Trustee Council activities.</li> <li>• Support the Los Alamos Pueblo Project.</li> </ul>	<ul style="list-style-type: none"> <li>• No significant changes.</li> </ul>

**Excess Facilities D&D (PBS: CBC-LANL-0040)**

**Overview**

This Project Baseline Summary (PBS) is within the Defense Environmental Cleanup appropriation.

This PBS includes the characterization, Deactivation, Decontamination and Demolition of National Nuclear Security Administration high-risk excess facilities. The Department identified the following facility as among the top ten highest risks to missions, the workforce, the public, and the environment.

- Ion Beam Facility, Building 03-0016

This work will be complete when the building is demolished and its associated slab, underground structures and incidental contaminated soil has been removed.

**Activities and Explanation of Changes**

<b>FY 2026 Enacted</b>	<b>FY 2027 Request</b>	<b>Explanation of Changes - FY 2027 Request vs FY 2026 Enacted</b>
<b>\$1,693,000</b>	<b>\$0</b>	<b>-\$1,693,000</b>
<ul style="list-style-type: none"><li>• Enable pre-demolition characterization and hazard removal to be completed in the administrative portion of the facility, and to accelerate these activities in the horizontal accelerator portion of this of National Nuclear Security Administration excess high-risk facilities (Ion Beam Facility).</li></ul>	<ul style="list-style-type: none"><li>• Continue Decontamination and Demolition of National Nuclear Security Administration’s Ion Beam Facility, a high-risk excess facility, using prior year uncosted balances.</li></ul>	<ul style="list-style-type: none"><li>• The decrease is based on expectation of project completion.</li></ul>

## Safeguards and Security (PBS: VL-LANL-0020)

### Overview

This Project Baseline Summary (PBS) is within the Defense Environmental Cleanup appropriation.

This PBS includes safeguards and security activities to efficiently and effectively protect sensitive information, government property, and the safety and security of employees, contractors, and the public.

### Activities and Explanation of Changes

<b>FY 2026 Enacted</b>	<b>FY 2027 Request</b>	<b>Explanation of Changes - FY 2027 Request vs FY 2026 Enacted</b>
<b>\$956,000</b>	<b>\$2,000,000</b>	<b>+\$1,044,000</b>
<ul style="list-style-type: none"><li>Continued to support safeguards and security protocols, specifically cyber security initiatives including: zero trust architecture, FedRAMP compliance, multi-factor authentication, data encryption and incident response.</li></ul>	<ul style="list-style-type: none"><li>Continue to support Energy Information Technology services (EITs), Mission Information Protection Program (MIPP) audit, and Subject Matter Expert (SME) support through a technical assistance contract.</li></ul>	<ul style="list-style-type: none"><li>The increase aligns the funding for planned activities in FY2027 for continued EITs, MIPP, &amp; SME support from a technical assistance contract.</li></ul>

## Nevada

### Overview

The Environmental Management Nevada (EMNV) Program executes its missions as a tenant organization on the National Nuclear Security Administration (NNSA) managed Nevada National Security Site (NNSS) and performs two distinct missions:

Environmental Restoration – safe cleanup of environmental legacy contamination resulting from historical nuclear testing on the NNSS and the Nevada Test and Training Range (NTTR). This work is conducted in accordance with the Federal Facility Agreement and Consent Order (FFACO), a legally binding agreement between the Department of Energy (DOE) and the state of Nevada.

Low-Level/Mixed Low-Level Waste Acceptance/Disposal – operation of the NNSS low-level and mixed low-level radioactive waste disposal facilities in accordance with the NNSS Waste Acceptance Criteria (WAC), Nevada permits, and federal requirements. NNSS waste disposal supports Environmental Management by providing a complex-wide outlet for waste generated by the national cleanup program. NNSS waste disposal also supports the NNSA, Office of Nuclear Energy, Office of Science, Naval Reactors, and Department of Defense missions, many of which would have no outlet for higher activity or classified waste.

Based on current estimates, the Office of Environmental Management (EM) is responsible for addressing \$0.71 billion in identified clean-up liability at the Nevada site – roughly 0.2% of the \$418 billion total liability across all EM sites. Successful implementation of the current plans and milestones would result in completion of the identified clean-up and waste disposal mission at the Nevada site in the 2040 to 2050 timeframe.

### Highlights of the FY 2027 Budget Request

The FY 2027 budget supports EMNV's continued progress in risk-informed closures of 82 remaining contaminated groundwater and 3 remaining contaminated industrial-type sites; post-closure monitoring/maintenance; operation of the Radioactive Waste Management Complex (RWMC); and regulatory support to include state of Nevada regulatory oversight, NNSS environmental and natural resource planning, and payment of the low-level waste fee agreement. Addressing end-state closures for groundwater through the Underground Test Area activity and contamination of historic nuclear Industrial Site facilities remains a priority in FY 2027 with model evaluation of the remaining contaminated groundwater sites, completing of Engine Maintenance, Assembly, and Disassembly (EMAD) facility Ancillary Plant Facilities and Areas (APFA), "Cold Bay" demolition, and initiation of Main Plant Process Area (MPPA), "Hot Bay" closure activities for beneficial reuse.

### FY 2026 - 2027 Key Milestones/Outlook

Project Baseline Summary (PBS) VL-NV-0030 – The following enforceable milestones are submitted/provided to the state of Nevada:

- (March 2026) Submitted Corrective Action Unit (CAU) 572 Test Cell C Ancillary Building and Structures Closure Report
- (June 2026) Submit Draft Calendar Year (CY) 2025 Annual Letter Report for all Closed Groundwater CAUs
- (June 2026) Submit Final CY 2025 Non- Resource Conservation and Recovery Act (RCRA) Post-Closure Report
- (June 2026) Submit CAU 98 Frenchman Flat CY 2026 6-Year Post-Closure Monitoring Report

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- (August 2026) Submit CAU 101 Central Pahute Mesa CY 2025 Annual Groundwater Sampling Letter Report
- (August 2026) Submit CAU 102 Western Pahute Mesa CY 2025 Annual Groundwater Sampling Letter Report
- (September 2026) Provide CAU 101 Central Pahute Mesa Model Evaluation Data Presentation #2
- (September 2026) Provide CAU 102 Western Pahute Mesa Model Evaluation Data Presentation #2
- (September 2026) Submit CAU 97 Yucca Flat/Climax Mine CY 2026 6-Year Post-Closure Monitoring Report
- (December 2026) Submit CAU 99 Rainier Mesa/Shoshone Mountain CY 2026 6-Year Post-Closure Monitoring Report
- (June 2027) Submit Draft CY 2026 Annual Letter Report for all Closed Groundwater CAUs
- (June 2027) Submit Final CY 2026 Non- RCRA Post-Closure Report
- (August 2027) Submit CAU 101 Central Pahute Mesa CY 2026 Annual Groundwater Sampling Letter Report
- (August 2027) Submit CAU 102 Western Pahute Mesa CY 2026 Annual Groundwater Sampling Letter Report
- (September 2027) Provide CAU 101 Central Pahute Mesa Model Evaluation Data Presentation #3
- (September 2027) Provide CAU 102 Western Pahute Mesa Model Evaluation Data Presentation #3

PBS VL-NV-0080:

- (September 2026) Continue low-level/mixed low-level radioactive waste disposal; and continue audits/certifications; and maintenance of facilities and documents.
- (September 2027) Continue low-level/mixed low-level radioactive waste disposal; and continue audits/certification; and maintenance of facilities and documents.

PBS VL-NV-0100:

- (September 2026) Continue funding to the state of Nevada.
- (September 2027) Continue funding to the state of Nevada.

## **Regulatory Framework**

Environmental Management work on the NNSS and the NTTR complies with applicable federal and state level regulations including, but not limited to:

- FFACO
- RCRA
- Safe Drinking Water Act
- Agreements in Principle
- Department of Energy Order 435.1, Radioactive Waste Management
- Department of Energy Order 458.1 Change 3 (Admin Change), Radiation Protection of the Public and the Environment

## **Contractual Framework**

The EMNV missions are performed by both large and small businesses. As a tenant organization on the NNSS, EMNV utilizes the NNSA NNSS Mission Support and Test Services, LLC (MSTS) contractor for Environmental Management-funded operation of the waste disposal facilities and environmental cleanup infrastructure support. The NNSS MSTS contract has a base period of performance from 07/01/2017 – 11/30/2027.

Navarro Research and Engineering Inc. was awarded the EMNV Environmental Program Services (EPS) contract in June 2020. The 10-year indefinite delivery/indefinite quantity (IDIQ) contract was awarded using Environmental Management's end state contracting model for accelerated mission completion. Performance of all Task Orders issued before the end of the Contract ordering period shall not exceed five (5) years beyond the end of the Contract ordering period. To date, EMNV has issued multiple IDIQ task orders with scope, including but not limited to, contract transition, base operations, management of the NNSS radioactive waste acceptance program (RWAP), hazard abatement, drilling, and demolition.

## **Strategic Management**

The EMNV Program enables the DOE to meet the challenges of the nation's Manhattan Project and Cold War legacy responsibilities by:

- Planning and conducting risk-informed, cost-effective environmental restoration activities for cleanup of legacy contamination in fulfillment of legal and regulatory commitments.

Providing safe, compliant, and cost-effective low-level/mixed low-level and classified waste disposal in support of DOE complex-wide cleanup, nuclear research, national security and reduction of the NNSS contaminated site footprint.

The following EMNV activities support the Department's enhancement of nuclear security through environmental efforts:

- NNSS and NTTR remediation addresses surface and shallow subsurface radiological soil contamination at former underground test locations. Industrial site activities include decontamination and decommissioning of facilities, legacy systems, structures, sites (e.g., septic systems, landfills, mud pits, storage tanks), and remediation of conventional weapons sites that include unexploded ordnance. Groundwater activities involve geologic/hydrologic characterization, contaminated groundwater transport modeling, contaminant boundary definition, and establishment of monitoring systems to preclude the inadvertent use of contaminated groundwater.

Waste management activities support the nation's nuclear research, national security missions, and completion of cleanup at DOE sites across the United States including the NNSS, by maintaining the capability to safely and securely dispose of ~800 thousand cubic feet of low-level/mixed low-level and classified waste annually.

**Nevada**

**Funding (\$K)**

	FY 2025 Enacted	FY 2026 Enacted	FY 2027 Request	FY 2027 Request vs FY 2026 Enacted	
				\$	%
<b>Defense Environmental Cleanup</b>					
<b>NNSA Sites</b>					
<b>Nevada</b>					
VL-NV-0030 / Soil and Water Remediation	37,977	47,480	46,674	-806	-2%
VL-NV-0080 / Operate Waste Disposal Facility	20,223	14,355	12,985	-1,370	-10%
VL-NV-0100 / Nevada Community and Regulatory Support	5,177	3,000	5,176	+2,176	+73%
<b>Subtotal, Nevada</b>	<b>63,377</b>	<b>64,835</b>	<b>64,835</b>	<b>+0</b>	<b>0%</b>

**Nevada**  
**Explanation of Major Changes (\$K)**

	<b>FY 2026 Enacted</b>	<b>FY 2027 Request</b>	<b>FY 2027 Request vs FY 2026 Enacted</b>
<b>Defense Environmental Cleanup</b>			
<b>NNSA Sites</b>			
<b>Nevada</b>			
<b>VL-NV-0030 / Soil and Water Remediation</b>			
• Decrease is primarily associated with completing demolition at CAU 114 Building 3900 APFA “Cold Bay”.	47,480	46,674	-806
<b>VL-NV-0080 / Operate Waste Disposal Facility</b>			
• Decrease is associated with reduced forecasted environmental management waste disposal volume and the use of planned prior year uncOSTed balances in support of fully funding FY 2027.	14,355	12,985	-1,370
<b>VL-NV-0100 / Nevada Community and Regulatory Support</b>			
• Increase is associated with fully funding the FY 2027 agreements with the state of Nevada. The FY 2026 request along with the use of prior years uncOSTed balances fully funded FY 2026 at ~\$5.1M. For FY2027, no prior year uncOSTed balances are available	3,000	5,176	+2,176
<b>Total, Nevada</b>	<b>64,835</b>	<b>64,835</b>	<b>+0</b>

## Soil and Water Remediation (PBS: VL-NV-0030)

### Overview

This Project Baseline Summary is within the Defense Environmental Cleanup appropriation.

This PBS funds risk-informed remediation of contaminated support facilities and soils, and groundwater modeling on the NNSS, in addition to contaminated surface/subsurface industrial and soil sites on the United States Air Forces' NTTR. The contamination is the result of atmospheric and underground nuclear tests and represents complex challenges due to the number/size/location of sites, and the nature/extent of contamination. NNSS and NTTR surface contamination include 1,332 contaminated soil and industrial-type sites, while subsurface scope includes 879 groundwater contaminated sites on the NNSS. Industrial sites are comprised of support facilities/structures remaining after the conduct of aboveground and underground nuclear tests, surface nuclear engine/reactor experiments, and employment of weapons delivery systems. This PBS includes Tribal and community stakeholder engagement to foster awareness and support of remediation strategies in fulfillment of EM's commitment to maintain robust public outreach and in compliance with statutes, regulations, executive orders, and federal policies. The Nevada Site Specific Advisory Board is chartered by the DOE as an Environmental Management Site-Specific Advisory Board. The Advisory Board fulfills the public participation requirements of the FFACO, a binding agreement with the state of Nevada to address legacy contamination from nuclear testing in Nevada.

As of FY 2026 2,121 (96%) contaminated soil, industrial-type and groundwater sites are closed and remediation of the ~90 remaining sites continue to progress. The long-term liability of Nevada Site soil and water remediation is currently estimated to cost \$0.29 billion and take up to five (5) years to complete. Activities funded in FY 2027 will reduce this long-term liability by ~\$47 million with completing demolition and disposal of generated waste at Building 3900 Ancillary Plant Facilities and Areas (APFA) and the start of Building 3900 Main Plant Process Area (MPPA), closure activities for beneficial reuse of this asset at the Engine Maintenance, Assembly, and Disassembly (EMAD) and continued groundwater sampling and model evaluation for Corrective Action Units (CAU) 101/102 Central and Western Pahute Mesa.

### Activities and Explanation of Changes

FY 2026 Enacted	FY 2027 Request	Explanation of Changes - FY 2027 Request vs FY 2026 Enacted
<b>\$47,480,000</b>	<b>\$46,674,000</b>	<b>-\$806,000</b>

Groundwater Remediation:  
CAUs 101/102 Central and Western Pahute Mesa:

- Continue annual groundwater data collection and sampling.

Groundwater Remediation:  
CAUs 101/102 Central and Western Pahute Mesa:

- Continue annual groundwater data collection and sampling.
- Continue model evaluation.

- Decrease is primarily associated with completing demolition at CAU 114 Building 3900 APFA "Cold Bay".

- Complete well development, testing and sampling of three monitoring wells
- Continue model evaluation.

Industrial Sites:

CAU 114 EMAD Facility:

- Continue Building 3900 APFA, “Cold Bay” demolition.

CAU 572 Test Cell C Ancillary Buildings and Structures

- Submit and receive state of Nevada Approval of Closure Report (5 Corrective Action Sites).

Post-Closure Long-term Monitoring:

- Continue annual post-closure monitoring of closed NNSS groundwater, soil, and industrial-type sites.
- Complete groundwater sampling of wells for closed groundwater sites (occurs every 6 years).

Industrial Sites:

CAU 114 EMAD Facility:

- Complete Building 3900 APFA, “Cold Bay” demolition.
- Initiate Building 3900 MPPA, “Hot Bay” closure activities for beneficial reuse of this asset.

Post-Closure Long-term Monitoring:

- Continue annual post-closure monitoring of closed NNSS groundwater, soil, and industrial-type sites.

## Operate Waste Disposal Facility (PBS: VL-NV-0080)

### Overview

This Project Baseline Summary is within the Defense Environmental Cleanup appropriation.

Provides low-level/mixed low-level radioactive waste and classified waste disposal capability through FY 2045 for DOE sites requiring offsite disposal and for instances in which commercial disposal is not available or not in the best interest of the government. Requested funding represents EM's allocated share of disposal costs, as apportioned annually, based upon all DOE programs total waste volumes disposed of at the NNSS. The Site maintains the capability to dispose of low-level/mixed low-level radioactive waste (as allowed under state of Nevada permits) and classified waste from approved generators. Preservation of NNSS waste disposal capability is vital to DOE and national security missions as some waste streams cannot be disposed of at the site of generation and/or at commercial facilities. The long-term liability of Nevada's operate waste disposal facility is currently estimated to cost \$0.43 billion and will remain in use for next twenty-one (21) years.

### Activities and Explanation of Changes

FY 2026 Enacted	FY 2027 Request	Explanation of Changes - FY 2027 Request vs FY 2026 Enacted
<b>\$14,355,000</b>	<b>\$12,985,000</b>	<b>-\$1,370,000</b>
<ul style="list-style-type: none"> <li>• Continue the development and maintenance of plans, permits, and safety basis in support of technical and regulatory requirements.</li> <li>• Continue audits/waste certifications of waste generators for compliance with the NNSWAC.</li> <li>• Continue operation of RCRA -permitted disposal cell.</li> <li>• Support DOE complex cleanup as well as research and national security missions with annual disposal capability for ~ 800,000 cubic feet (34,653 cubic meters) of low-level/mixed low-level/classified waste annually.</li> </ul>	<ul style="list-style-type: none"> <li>• Continue the development and maintenance of plans, permits, and safety basis in support of technical and regulatory requirements.</li> <li>• Continue audits/waste certifications of waste generators for compliance with the NNSWAC.</li> <li>• Continue operation of RCRA -permitted disposal cell.</li> <li>• Support DOE complex cleanup as well as research and national security missions with annual disposal capability for ~ 800,000 cubic feet (34,653 cubic meters) of low-level/mixed low-level/classified waste annually.</li> </ul>	<ul style="list-style-type: none"> <li>• Decrease is associated with reduced forecasted environmental management waste disposal volume and the use of planned prior year uncosted balances in support of full funding FY 2027.</li> </ul>

- Initiate new Mixed Low-Level Waste Cell #31 pre-construction planning.
  - Initiate new Low-Level Waste Cell #32 construction.
  - Initiate Cells #27 and #28 closure.
  - Continue disposition of experimental spheres as transuranic waste.
- Continue new Mixed Low-Level Waste Cell #31 pre-construction planning.
  - Continue new Low-Level Waste Cell #32 construction.
  - Continue Cells #27 and #28 closure.
  - Continue disposition of experimental spheres as transuranic waste.

## Nevada Community and Regulatory Support (PBS: VL-NV-0100)

### Overview

This Project Baseline Summary is within the Defense Environmental Cleanup appropriation.

Provides for an Agreement-in-Principle with the Nevada Division of Emergency Management and the Nevada Division of Environmental Protection. Also funds the FFACO annual fee, and a state of Nevada grant for programmatic oversight and NNSS environmental and natural resource planning. The long-term liability of Nevada’s community and regulatory support is currently estimated to cost \$0.08 billion and take up to twenty-one (21) years to complete.

### Activities and Explanation of Changes

FY 2026 Enacted	FY 2027 Request	Explanation of Changes - FY 2027 Request vs FY 2026 Enacted
<b>\$3,000,000</b>	<b>\$5,176,000</b>	<b>+\$2,176,000</b>
<ul style="list-style-type: none"> <li>• The state of Nevada regulatory oversight of EMNV Program work at the NNSS.</li> <li>• The state of Nevada grant for programmatic oversight and NNSS environmental and natural resource planning.</li> <li>• Low-level radioactive waste fee agreement with state of Nevada.</li> </ul>	<ul style="list-style-type: none"> <li>• The state of Nevada regulatory oversight of EMNV Program work at the NNSS.</li> <li>• The state of Nevada grant for programmatic oversight and NNSS environmental and natural resource planning.</li> <li>• Low-level radioactive waste fee agreement with state of Nevada.</li> </ul>	<ul style="list-style-type: none"> <li>• Increase is associated with fully funding the FY 2027 agreements with the state of Nevada. The FY 2026 request along with the use of prior years uncosted balances fully funded FY 2026 at ~\$5.1M. For FY2027, no prior year uncosted balances are available.</li> </ul>

## **Sandia National Laboratories**

### **Overview**

Sandia National Laboratories is a multi-mission laboratory managed and operated by National Technology & Engineering Solutions of Sandia, LLC, a wholly owned subsidiary of Honeywell International Inc., for the DOE's National Nuclear Security Administration (NNSA). The Sandia National Laboratories-New Mexico site (Sandia-New Mexico) is adjacent to Albuquerque, New Mexico, on Kirtland Air Force Base. The Sandia-New Mexico Environmental Restoration Operations Project scope includes the remediation of inactive waste disposal and release sites. These sites have known releases of hazardous, radioactive, and mixed waste. Based on current estimates, the Office of Environmental Management (EM) is responsible for addressing \$9 million in identified clean-up liability at the Sandia National Laboratories site – roughly 0% of the \$418 billion total liability across all EM sites. Successful implementation of current plans and milestones would result in completion of the identified clean-up mission at the Sandia site in the 2028 to 2038 timeframe.

Sandia-New Mexico works closely with the New Mexico Environment Department (NMED) to complete Resource Conservation and Recovery Act corrective actions at the last two Environmental Restoration sites using cost effective approaches that meet regulatory requirements. The remaining cleanup scope consists of two areas with contaminated groundwater in various stages of corrective action that require final remedies. All Environmental Restoration activities are regulated by the 2004 Compliance Order on Consent signed by DOE, the Sandia Corporation, and the NMED.

### **Highlights of the FY 2027 Budget Request**

In FY 2027, Resource Conservation and Recovery Act corrective action activities will continue at the two locations with contaminated groundwater: the Burn Site Groundwater Area of Concern and the Technical Area-V Groundwater Area of Concern. At the Technical Area-V Groundwater Area of Concern, FY 2027 funding will support the submittal of the Corrective Measures Implementation Plan and continuation of operations. At the Burn Site Groundwater Area of Concern, FY 2027 funding will support the transition over to Long-Term Stewardship.

### **FY 2026 - 2027 Key Milestones/Outlook**

- (September 2026) The NMED will complete their review of the Current Conceptual Model/Corrective Measures Evaluation Report for Technical Area-V Groundwater Area of Concern.
- (September 2026) Complete transition of the Burn Site Groundwater Area of Concern to the Long-Term Stewardship Program.
- (March 2027) Submit the Corrective Measures Implementation Plan for Technical Area-V Groundwater Area of Concern to the NMED.

### **Regulatory Framework**

The regulatory driver for completing this work is the Compliance Order on Consent signed in 2004 by DOE, the Sandia Corporation, and the NMED. To date, 308 of 314 sites have been approved by the NMED as being "corrective action complete," including the Mixed Waste Landfill. Two of the remaining six sites are considered "deferred active mission" sites and bring a future cleanup liability.

The remaining two areas of groundwater contamination are being characterized to determine the remedial action

to implement and are in various stages of the Resource Conservation and Recovery Act corrective action process. Each of the two areas of groundwater contamination (Burn Site and Technical Area-V) have unique hydro-geologic complexity and have contamination levels that are above the maximum contaminant level drinking water standards. There are no near-term risks to public health. Delivery of final Corrective Measure Evaluation reports for each of the two areas to the NMED are considered enforceable agreement milestones.

### **Contractual Framework**

EM work at Sandia-New Mexico is performed under Work Authorizations against the National Nuclear Security Administration's Management and Operating contract with National Technology & Engineering Solutions of Sandia.

### **Strategic Management**

Sandia-New Mexico's Environmental Restoration Operations mission is to complete all necessary corrective actions at the two groundwater areas of concern. Two additional soil release sites are considered "deferred active mission" sites.

The status and closure goals are:

- (1) Burn Site Groundwater Area of Concern - four monitoring wells were installed at the Burn Site Groundwater Area of Concern at the end of FY 2019 and the beginning of FY 2020 to meet an enforceable agreement milestone. Based on quarterly sampling at the monitoring wells, the results concluded that additional wells were not required and the process of preparing the updated Conceptual Model Report, and a Corrective Measures Evaluation Report was begun early FY 2022. The Conceptual Model Report and a Corrective Measures Evaluation Report were submitted in FY 2023. FY 2024 effort includes preparing and participating in a final hearing, resulting from the NMED's planned acceptance of Current Conceptual Model/Corrective Measures Evaluation report. FY 2025 effort relates to the NMED reviewing the submitted Corrective Measures Implementation Plan. FY 2025 NMED accepted the Corrective Measures Implementation Plan, and the site will begin transitioning over to Long-Term Stewardship in FY 2026.
- (2) Technical Area-V Groundwater Area of Concern, Phase 1 injection was completed in FY 2019 as a part of the phased Interim Measure/Treatability Study and the Treatability Study was concluded in May 2021 based on conversations between DOE Sandia Field Office, NMED, and Sandia National Laboratories; staff began the process of updating the Current Conceptual Model and Corrective Measures Report and will continue throughout FY 2023 and FY 2024. The NMED will review the submitted Current Conceptual Model Report and a Corrective Measures Evaluation Report during FY 2026.

**Sandia Site Office**

**Funding (\$K)**

	FY 2025 Enacted	FY 2026 Enacted	FY 2027 Request	FY 2027 Request vs FY 2026 Enacted	
				\$	%

**Defense Environmental Cleanup  
NNSA Sites  
Sandia National Laboratories  
VL-SN-0030 / Soil and Water  
Remediation**

2,264	1,030	1,030	+0	0%
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**Sandia Site Office  
Explanation of Major Changes (\$K)**

	<b>FY 2026 Enacted</b>	<b>FY 2027 Request</b>	<b>FY 2027 Request vs FY 2026 Enacted</b>
<b>Defense Environmental Cleanup</b>			
<b>NNSA Sites</b>			
<b>Sandia National Laboratories</b>			
<b>VL-SN-0030 / Soil and Water Remediation</b>			
• No change.	1,030	1,030	+0
<b>Total, Sandia Site Office</b>	<b>1,030</b>	<b>1,030</b>	<b>+0</b>

**Soil and Water Remediation (PBS: VL-SN-0030)**

**Overview**

This Project Baseline Summary (PBS) is within the Defense Environmental Cleanup appropriation.

The Sandia-New Mexico Environmental Restoration Operations mission is to pursue completion of all necessary corrective actions at the two groundwater areas of concern. The two groundwater areas (Burn Site and Technical Area-V) are expected to transition to long-term stewardship following completion of characterization/evaluation, remedy selection via public hearing, and implementation of the determined remedy. The long-term liability of Sandia soil and water remediation is currently estimated to cost \$9 million and take up to 5 years to complete. Activities funded in FY 2027 will reduce this long-term liability by \$2 million.

**Activities and Explanation of Changes**

FY 2026 Enacted	FY 2027 Request	Explanation of Changes - FY 2027 Request vs FY 2026 Enacted
<b>\$1,030,000</b>	<b>\$1,030,000</b>	<b>+\$0</b>
<ul style="list-style-type: none"> <li>• The New Mexico Environment Department (NMED) will complete their review of the Corrective Measures Implementation Plan for Burn Site Groundwater Area of Concern.</li> <li>• Submit the Corrective Measures Implementation Plan with modifications for Burn Site Groundwater Area of Concern to the NMED.</li> <li>• Submit the Corrective Measures Implementation Plan for Technical Area-V Groundwater Area of Concern to the NMED.</li> </ul>	<ul style="list-style-type: none"> <li>• Submit the Corrective Measures Implementation Plan for Technical Area-V Groundwater Area of Concern to the NMED.</li> <li>• The NMED will complete their review of the Corrective Measures Implementation Plan for Burn Site Groundwater Area of Concern.</li> <li>• Submit the Corrective Measures Implementation Plan for Technical Area-V Groundwater Area of Concern to the NMED.</li> </ul>	<ul style="list-style-type: none"> <li>• No change.</li> </ul>

## Separations Process Research Unit

### Overview

The Separations Process Research Unit (SPRU) site supported cleanup of radioactive and chemical waste resulting from Manhattan Project and Cold War activities and currently supports safely storing defense origin transuranic waste, pending processing and disposal. Waste that is determined not to be transuranic after treatment will be disposed as low-level and mixed low-level waste. The remaining transuranic waste will be disposed at the Waste Isolation Pilot Plant (WIPP) in Carlsbad, New Mexico.

SPRU was a former pilot plant used from 1950 to 1953 to research and develop chemical processes to separate plutonium from other radioactive material and was located at the Knolls Atomic Power Laboratory, Niskayuna, New York. During operations, it contaminated nuclear facilities and approximately 30 acres of land where waste containers were managed. Groundwater immediately adjacent to the nuclear facilities and in an area where containers were once stored was contaminated with radioactivity. The scope of the SPRU project was to decontaminate and remove the nuclear facilities (including the sub-grade building foundations and tank vaults), remediate the land areas, ship the resulting waste to the appropriate off-site disposal facilities, and transfer the areas back to the Office of Naval Reactors.

The decommissioning contractor, AECOM (formerly URS Energy and Construction, Inc.), was awarded the demolition contract in December 2007 and completed all site physical work in July 2019. Closeout reports were completed in FY 2020, and the land areas were transferred to Naval Reactors in December 2020. State acceptance of the final project Resource Conservation and Recovery Act remediation report was received in September 2022.

The remaining scope of work at the Separations Process Research Unit site consists of addressing the remaining stored transuranic waste, contract claims resolution, and project closeout.

### Highlights of the FY 2027 Budget Request

The FY 2027 budget request continues work associated with closing out the demolition contract claims, continuing work to safely store the SPRU transuranic waste and to support contracting approaches to treat, transport, and dispose of stored waste.

### FY 2026 - FY 2027 Key Milestones/Outlook

- (June 2026) Award a task with APTIM for operation of the SPRU waste storage area.
- (June 2026) Oak Ridge Environmental Management to modify task order with UCOR to ship and receive SPRU waste for processing at the Transuranic Waste Processing Center (TWPC).
- (October 2026) APTIM to begin modifications at SPRU waste storage area for shipping.
- (March 2027) UCOR to begin shipping SPRU waste.

### Regulatory Framework

The SPRU project generated 24 waste containers that are potential transuranic waste – twenty two of the containers are Resource Conservation and Recovery Act mixed hazardous waste regulated by the New York State Department of Environmental Conservation (NYSDEC). In September 2024, NYSDEC issued a RCRA storage permit to DOE for storage of the SPRU mixed waste and terminated an Order on Consent previously in place for storage of the mixed waste.

## **Contractual Framework**

A contract to operate and perform inspections of the transuranic waste storage area was awarded to North Wind Site Solutions, LLC. DOE plans to transition this role to the APTIM DD&R contract in 2026. Staff support contractors also assist with contract claims work from SPRU projects.

## **Strategic Management**

The strategy for the site includes disposition of the stored SPRU waste and continuing support until all EM post-closure administrative activities are completed and the former waste storage area is transferred to the Naval Reactors Program.

Challenges to the overall achievement of the Separations Process Research Unit site's strategic goals are:

- Currently, transuranic waste (and suspect transuranic waste) is temporarily stored at the Separations Process Research Unit site in outdoor conex boxes. Waste that is determined not to be transuranic after treatment will be disposed as low-level and mixed low-level waste. The remaining transuranic waste will be disposed at the DOE Waste Isolation Pilot Plant (WIPP). Shipping, processing and certifying transuranic waste is difficult.
- Modifications to the Transuranic Waste Processing Center (TWPC) are necessary to manage all the legacy SPRU waste containers as well as certain waste containers from other sites, including Oak Ridge National Laboratory.

**Separations Process Research Unit**

**Funding (\$K)**

	FY 2025 Enacted	FY 2026 Enacted	FY 2027 Request	FY 2027 Request vs FY 2026 Enacted	
				\$	%

**Defense Environmental Cleanup**

**NNSA Sites**

**Separations Processing Research**

**Unit**

VL-SPRU-0040 / Nuclear Facility

D&D

1,300

950

950

+0

0%

**Separations Process Research Unit  
Explanation of Major Changes (\$K)**

	<b>FY 2026 Enacted</b>	<b>FY 2027 Request</b>	<b>FY 2027 Request vs FY 2026 Enacted</b>
<b>Defense Environmental Cleanup</b>			
<b>NNSA Sites</b>			
<b>Separations Processing Research Unit</b>			
<b>VL-SPRU-0040 / Nuclear Facility D&amp;D</b>			
• No change.	950	950	+0
<b>Total, Separations Process Research Unit</b>	<b>950</b>	<b>950</b>	<b>+0</b>

**Nuclear Facility D&D (PBS: VL-SPRU-0040)**

**Overview**

This Project Baseline Summary (PBS) is within the Defense Environmental Cleanup appropriation.

The project objectives are to remove the inactive nuclear facilities and disposition the chemical and radioactive contamination in land areas and return the land and facilities to the Knolls Atomic Power Laboratory for continued mission use by the Naval Reactors Program.

The contractor physically completed demolition of building and restored the land in FY 2019. Resolution of Contract Claims, and contract closeout continues.

**Activities and Explanation of Changes**

FY 2026 Enacted	FY 2027 Request	Explanation of Changes - FY 2027 Request vs FY 2026 Enacted
<b>\$950,000</b>	<b>\$950,000</b>	<b>+\$0</b>
<ul style="list-style-type: none"> <li>• Perform surveillance and maintenance activities to support storage for transuranic waste.</li> <li>• Support treatment of a portion of the transuranic waste for low-level and mixed low-level waste disposal based on selected Processing Plan.</li> </ul>	<ul style="list-style-type: none"> <li>• Perform surveillance and maintenance activities to support storage for transuranic waste.</li> <li>• Support treatment of a portion of the transuranic waste for low-level and mixed low-level waste disposal based on selected Processing Plan.</li> </ul>	<ul style="list-style-type: none"> <li>• No change.</li> </ul>

# West Valley Demonstration Project

## Overview

Cleanup of the West Valley Demonstration Project will support the Department of Energy to meet the challenges of the nation's Manhattan Project and Cold War legacy responsibilities. The West Valley Demonstration Project is responsible for stabilizing and dispositioning low-level radioactive waste and transuranic waste and decontaminating and decommissioning of excess facilities, tanks, and equipment. Based on current estimates, the Office of Environmental Management (EM) is responsible for addressing \$3.6 billion in identified clean-up liability at the West Valley site-roughly .9 percent of the \$418 billion total liability across all EM sites. Successful implementation of current plans and milestones would result in completion of the identified clean-up mission at the WVDP site in 2040 to 2050 timeframe.

The West Valley Demonstration Project is conducted at the site of the only commercial nuclear fuel reprocessing facility to have operated in the United States. The Department's principal mission at the site is to satisfy the mandates established by the West Valley Demonstration Project Act of 1980 (Public Law 96-368):

- Solidify the high-level radioactive waste in a form suitable for transportation and disposal.
- Develop containers suitable for permanent disposal of the solidified high-level radioactive waste.
- Transport, in accordance with applicable law, high-level radioactive waste canisters to an appropriate Federal repository for permanent disposal.
- Dispose of low-level radioactive waste and transuranic waste produced by high-level radioactive waste solidification activities; and
- Decontaminate and decommission tanks and facilities used for solidification of high-level radioactive waste, as well as any material and hardware used in connection with the Project, in accordance with Nuclear Regulatory Commission requirements.

## Highlights of the FY 2027 Budget Request

The major activities planned for the West Valley Demonstration Project for FY 2027 will be on finishing up condition setting activities and beginning the demolition/excavation of the below grade portion of the Main Plant Processing Building (MPPB) and the Vitrification Facility. In addition, the site will be continuing site operations and maintenance, and disposition of newly generated and legacy waste. The West Valley Demonstration Project will continue preparing and rolling out the Supplemental Environmental Impact Statement for Phase 2 Decommissioning of the West Valley Demonstration Project.

## FY 2026 - 2027 Key Milestones/Outlook

- (January 2026) Awarded Task Order on the Phase 1B Contract for Site Operations and Maintenance, and Waste Management Area 1 Demolition.
- (January 2026) Completed the Lake 1 Dam Spillway repairs.
- (September 2026) Award Site Technical Assistance Contract.
- (February 2027) Complete demolition and waste disposal of the Fuel Receiving and Storage Facility (FRS).
- (February 2027) Complete installation of the re-routed site fire protection system.
- (October 2026- September 2027) Continue development of the *Supplemental Environmental Impact Statement for the Decommissioning and/or Long-Term Stewardship of the West Valley Demonstration Project and the Western New York Nuclear Service Center*.
- (September 2027) Complete 100% design of Water Management & Retention Wall System inside Waste Management Area 1 (WMA-1)

## **Regulatory Framework**

Cleanup and environmental remediation activities at the West Valley Demonstration Project are governed by the following statutes, regulations, and agreements:

- The West Valley Demonstration Project Act (Public Law 96-368) requires the Secretary of Energy to carry out a high-level radioactive waste management project at the Western New York Nuclear Services Center.
- Cooperative Agreement between DOE and New York State Energy Research and Development Authority (1980, amended 1981) provides for the implementation of the West Valley Demonstration Project Act of 1980. It allows DOE use and control of the 165-acre West Valley Demonstration Project premises and facilities for the purposes and duration of the Project.
- A Memorandum of Understanding between DOE and Nuclear Regulatory Commission (1981) identifies roles, responsibilities, terms and conditions regarding the Nuclear Regulatory Commission review and consultation during the Project.
- Stipulation of Compromise Settlement agreement (1987) represents the legal compromise reached between the Coalition on West Valley Nuclear Waste and Radioactive Waste Campaign and DOE regarding development of a comprehensive Environmental Impact Statement for the Project and for on-site and off-site disposal of low-level radioactive waste.
- Resource Conservation and Recovery Act 3008(h) Administrative Order on Consent (1992) between the United States Environmental Protection Agency, the New York State Department of Environmental Conservation, DOE and New York State Energy Research and Development Authority regarding Resource Conservation and Recovery Act.
- Cooperative Agreement between the Seneca Nation of Indians and the West Valley Demonstration Project (1996) establishes a framework for inter-governmental relationships between the Seneca Nation of Indians and the Department with respect to project activities.
- The Final Environmental Impact Statement for Decommissioning and/or Long-Term Stewardship and the associated Record of Decision issued in April 2010. The Record of Decision was "Phased Decision-making" in which the decommissioning will be completed in two phases.

## **Contractual Framework**

Program planning and management at the West Valley Demonstration Project is conducted through the issuance and execution of contracts to large and small businesses. The major contracts at the West Valley Demonstration Project include:

- Phase 1 Decommissioning – Facility Disposition (Phase 1A) contract, was awarded to CH2M Hill BWXT West Valley, LCC, with a contract period of performance from August 29, 2011, through a completion date of June 23, 2025. The Phase 1A activities were completed under this contract on June 23, 2025.
- Phase 1B Decommissioning - Consistent with the EM End State Contracting Model (ESCM), the West Valley Demonstration Project (WVDP) Phase 1B Indefinite-Delivery Indefinite-Quantity (IDIQ) contract was awarded on October 30, 2024 under which Cost Reimbursable (CR) and/or Fixed Price (FP) task orders may be issued. The contract ordering period is 10 years, with 120-day transition period. The contract value is approximately \$3.0 billion over the ten-year ordering period which includes the issuance of task orders that shall not exceed five years beyond the end of the contract ordering period. Task Order 2-Implementation, was awarded on June 24, 2025 with a Period of Performance (PoP) until January 16, 2026. Task Order 3 was awarded on January 17, 2026 with a PoP until January 17, 2030.
- Probabilistic Performance Assessment contract was awarded on June 16, 2022 to a small business for a time and materials contract to perform a probabilistic analysis to support Phase 2 decision making for

the West Valley Demonstration Project and New York State Energy Research and Development Authority.

- Technical Assistance Contract was awarded in the second quarter of FY 2023 as an indefinite delivery/indefinite quantity contract from which task orders will be issued on either a time and materials or fixed-price basis. The site will begin procurement of the follow-on contract in October 2025 with award in September 2026.
- Supplemental Environmental Impact Statement Development contract, which was awarded to SC&A in FY 2017 to evaluate alternatives for completing DOE's mission at West Valley Demonstration Project and bringing the site to closure. A follow-on contract was awarded in calendar year 2023.

## **Strategic Management**

The Department has completed the first two mandates of the West Valley Demonstration Project Act - solidification of the liquid high-level radioactive waste and development of containers suitable for permanent disposal of the high-level radioactive waste. There are currently 278 high-level radioactive waste canisters that have been produced that are in safe storage in a cask storage system. The remaining work to be completed by DOE at West Valley includes: (1) storage and shipment of the high-level radioactive waste canisters for off-site disposal; (2) disposal of Project-generated low-level radioactive waste and transuranic waste; and (3) facility decontamination and decommissioning.

DOE will continue to focus on the planning of the removal of the below grade portion of the Main Plant Processing Building and Vitrification Facility; low-level radioactive waste and transuranic waste disposition; and removal of non-essential facilities. In addition, the Department has installed a permeable treatment wall to mitigate the spread of a ground water plume and has installed a Tank and Vault Drying System to safely manage the high-level radioactive waste tanks until their final closure pathway is determined. The Main Plant Process Building was successfully deactivated, and demolition started on September 21, 2022 and above-grade demolition was completed on time and underbudget on June 17, 2025. Demolition is consistent with the Environmental Impact Statement Record of Decision. The Vitrification Facility has been deactivated and demolished to grade-level. Below-grade removal of the Main Plant Process Building and the Vitrification Facility will be consistent with the Environmental Impact Statement Record of Decision. All 46 unneeded buildings and facilities (balance of site facilities or BOSFs) have been removed.

The following assumptions will impact the overall achievement of the program's strategic goal:

- The Project will be able to disposition higher activity low-level radioactive waste off-site, without obstruction, consistent with the 2005 Waste Management Record of Decision.
- Additional National Environmental Policy Act (e.g., Supplemental analysis and amendments to the Record of Decision) may be developed to allow for off-site disposition of other Project waste.
- The Project's non-defense transuranic waste has been included within the Department's Final Environmental Impact Statement for the Disposal of Greater-Than-Class C Low-Level Radioactive Waste and Greater-Than-Class-C-Like Waste that was published in February 2016 and the subsequent Environmental Assessment for the Disposal of Greater-Than-Class-C (GTCC) Low-Level Radioactive Waste and GTCC-Like Waste at Waste Control Specialists (WCS), Andrews County, Texas. Neither document resulted in a decision. The non-defense transuranic waste will be packaged and stored until a disposition path is available.

**West Valley Demonstration Project  
Funding (\$K)**

	FY 2025 Enacted	FY 2026 Enacted	FY 2027 Request	FY 2027 Request vs FY 2026 Enacted	
				\$	%
<b>Defense Environmental Cleanup</b>					
<b>Safeguards and Security</b>					
OH-WV-0020 / Safeguards and Security	7,808	7,589	7,988	+399	+5%
<b>Non-Defense Environmental Cleanup</b>					
<b>West Valley Demonstration Project</b>					
OH-WV-0013 / Solid Waste Stabilization and Disposition	23,714	14,962	27,944	+12,982	+87%
OH-WV-0040 / Nuclear Facility D&D	66,166	74,918	61,936	-12,982	-17%
<b>Subtotal, West Valley     Demonstration Project</b>	<b>89,880</b>	<b>89,880</b>	<b>89,880</b>	<b>+0</b>	<b>0%</b>
<b>Total, West Valley Demonstration Project</b>	<b>97,688</b>	<b>97,469</b>	<b>97,868</b>	<b>+399</b>	<b>0%</b>

**West Valley Demonstration Project  
Explanation of Major Changes (\$K)**

	<b>FY 2026 Enacted</b>	<b>FY 2027 Request</b>	<b>FY 2027 Request vs FY 2026 Enacted</b>
<b>Defense Environmental Cleanup</b>			
<b>Safeguards and Security</b>			
<b>OH-WV-0020 / Safeguards and Security</b>			
• No significant change.	7,589	7,988	+399
<b>Non-Defense Environmental Cleanup</b>			
<b>West Valley Demonstration Project</b>			
<b>OH-WV-0013 / Solid Waste Stabilization and Disposition</b>			
• Increase in funding will be utilized for the removal, storage, and disposal of the Waste Tank Farm mobilization pumps and the removal and disposal of the Remote Handled Waste Facility filter banks.	14,962	27,944	+12,982
<b>OH-WV-0040 / Nuclear Facility D&amp;D</b>			
• Decrease is due to the completion of the above grade portion of the Main Plant Process Building.	74,918	61,936	-12,982
<b>Total, West Valley Demonstration Project</b>	<b>97,469</b>	<b>97,868</b>	<b>+399</b>

**Safeguards and Security (PBS: OH-WV-0020)**

**Overview**

This Project Baseline Summary (PBS) can be found within the Defense Environmental Cleanup appropriation.

The Safeguards and Security Program at the West Valley Demonstration Project protects government assets, information, and technology systems to support the cleanup of this spent fuel reprocessing facility. These activities provide for overall site access security and protection of personnel and Government property.

This scope will continue until DOE’s mission at the West Valley Demonstration Project is complete. The Cyber Security Program (e.g., Executive Order 14028, DOE O 205.1C, and the EM Cyber Security Program Plan) at the West Valley Demonstration Project protects Government information and technology systems to support the cleanup of this spent fuel reprocessing facility.

**Activities and Explanation of Changes**

FY 2026 Enacted	FY 2027 Request	Explanation of Changes - FY 2027 Request vs FY 2026 Enacted
<b>\$7,589,000</b>	<b>\$7,988,000</b>	<b>+\$399,000</b>
<ul style="list-style-type: none"> <li>• Provide physical security with an on-site guard force to ensure the Department's information resources are identified and protected.</li> <li>• Continue program management to oversee the security program including cybersecurity (e.g., Executive Order 14028, DOE O 205.1C, EM Cyber Security Program Plan), training and qualifications for the West Valley Demonstration Project.</li> </ul>	<ul style="list-style-type: none"> <li>• Provide physical security with an on-site guard force to ensure the Department's information resources are identified and protected.</li> <li>• Continue program management to oversee the security program including cybersecurity (e.g., Executive Order 14028, DOE O 205.1C, EM Cyber Security Program Plan), training and qualifications for the West Valley Demonstration Project.</li> </ul>	<ul style="list-style-type: none"> <li>• No significant change.</li> </ul>

**Solid Waste Stabilization and Disposition (PBS: OH-WV-0013)**

**Overview**

This Project Baseline Summary (PBS) is within the Non-Defense Environmental Cleanup appropriation.

The solid waste stabilization and disposition project at the West Valley Demonstration Project involves the waste management activities required to disposition the low-level radioactive waste and transuranic waste produced as a result of high-level radioactive waste solidification activities. When this project is completed, all West Valley Demonstration Project-generated, low-level radioactive waste will have been shipped off-site for disposal, reducing worker and environmental risk at the site. In order to prepare for waste disposition efforts associated with transuranic and other high activity waste, a Remote-Handled Waste Facility has been constructed, which provides the capability to safely characterize, size reduce, package and prepare high activity and transuranic waste for off-site shipment and disposal. Transuranic waste will be packaged and interim stored until a disposition path is available. The long-term liability of West Valley solid waste stabilization and disposition is currently estimated to cost \$1.65 billion and take up to 25 years to complete. Activities funded in FY 2027 will reduce this long-term liability by \$27.944 million.

**Activities and Explanation of Changes**

FY 2026 Enacted	FY 2027 Request	Explanation of Changes - FY 2027 Request vs FY 2026 Enacted
<b>\$14,962,000</b>	<b>\$27,944,000</b>	<b>+\$12,982,000</b>
<ul style="list-style-type: none"> <li>• Store legacy transuranic waste.</li> <li>• Store newly generated transuranic waste.</li> <li>• Ship and dispose of all other newly generated waste, primarily the Permanent Ventilation System (PVS) filter replacement, FRS demolition, FRS Ventilation Slab removal, Replacement Ventilation Unit (RVU) Building and Slab removal.</li> </ul>	<ul style="list-style-type: none"> <li>• Store legacy transuranic waste.</li> <li>• Store newly generated transuranic waste.</li> <li>• Ship and dispose of all other newly generated waste, primarily the demolition debris created by removal of the Laundry Room Slab, Plant Office Building Slab, Load-In Load-Out Slab, Hittman Slab, Manipulator Repair Shop Slab, Contact Size Reduction Facility (CSRf) Slab, Emergency Vehicle Slab, Cold Chemical Facility Slab, 01-14 Slab, Fire Pump House, and Tank 32D-1 including slab.</li> </ul>	<ul style="list-style-type: none"> <li>• Increase in funding will be utilized for the removal, storage, and disposal of the Waste Tank Farm mobilization pumps and the removal and disposal of the Remote Handled Waste Facility filter banks.</li> </ul>

**Nuclear Facility D&D (PBS: OH-WV-0040)**

## Overview

This Project Baseline Summary (PBS) is within the Non-Defense Environmental Cleanup appropriation.

The decontamination and decommissioning program at the West Valley Demonstration Project encompasses the facilities, tanks and hardware used during high-level radioactive waste solidification efforts. Decontamination and decommissioning activities were subject to a Final Environmental Impact Statement which was completed in January 2010 and a Record of Decision was issued in April 2010. DOE has selected a phased approach for decommissioning activities at the West Valley Demonstration Project. During Phase 1A, 278 HLW canisters were removed from the Main Plant Process Building (MPPB) and relocated to a new on-site interim storage system, over 40 balance of site facilities were removed, and the MPPB and Vitrification (Vit) Facility were demolished to grade. In October 2024, DOE awarded an End State Contract Model Contract to West Valley Cleanup Alliance to execute Phase 1B of the phased approach. During Phase 1B, which began in June 2025, the below-grade portion of the MPPB and Vit Facility will be removed, as well as the Liquid Waste Treatment System (as well as four active and one inactive lagoon). The decontamination and decommissioning will be performed consistent with the Nuclear Regulatory Commission criteria per the approved decommissioning plan. To support decontamination and decommissioning efforts, safety management and maintenance at the site are in compliance with federal and state statutes, as well as DOE orders and requirements. This PBS also includes funding for the Cooperative Agreement between the Seneca Nation of Indians and the West Valley Demonstration Project (1996) establishes a framework for inter-governmental relationships between the Seneca Nation of Indians and the Department with respect to project activities. The long-term liability of West Valley nuclear facility D&D is currently estimated to cost \$2.2 billion and take up to 25 years to complete. Activities funded in FY 2027 will reduce long-term liability by \$61.93 million.

### Activities and Explanation of Changes

FY 2026 Enacted	FY 2027 Request	Explanation of Changes - FY 2027 Request vs FY 2026 Enacted
<b>\$74,918,000</b>	<b>\$61,936,000</b>	<b>-\$12,982,000</b>

- |   |  |  |
|---|--|--|
| <ul style="list-style-type: none"> <li>• Maintain Site Services.</li> <li>• Set conditions for and begin demolition of the below-grade portion of the Main Plant Process Building.</li> <li>• Maintain the underground storage tanks, the Nuclear Regulatory Commission-Licensed Disposal Area, and the Permeable Treatment Wall.</li> <li>• Manage and maintain site infrastructure.</li> <li>• Conduct environmental monitoring.</li> </ul> | <ul style="list-style-type: none"> <li>• Maintain Site Services.</li> <li>• Commence removal of the mobilization pumps and transfer pumps from the underground storage tanks.</li> <li>• Maintain the Nuclear Regulatory Commission-Licensed Disposal Area and the Permeable Treatment Wall.</li> <li>• Manage and maintain site infrastructure.</li> <li>• Conduct environmental monitoring.</li> <li>• Replace Site Fire Fighting System.</li> </ul> | <ul style="list-style-type: none"> <li>• Decrease is due to the completion of the above grade portion of the Main Plant Process Building.</li> </ul> |
|---|--|--|

- Replace Permanent Ventilation System (PVS) filters.
- Demolish FRS.
- Demolish Replacement Ventilation Unit (RVU) building.
- Remove FRS Ventilation Slab and RVU slab.
- Remove Laundry Room Slab, Plant Office Building Slab, Load-In Load-Out Slab, Hittman Slab, Manipulator Repair Shop Slab, Contact Size Reduction Facility (CSRF) Slab, Emergency Vehicle Slab, Cold Chemical Facility Slab, 01-14 Slab, Fire Pump House, Tank 32-D1 including Slab.

## Energy Technology Engineering Center

### Overview

The Energy Technology Engineering Center (ETEC) supports the Department's cleanup of radioactive and chemical waste resulting from historical nuclear energy and liquid metals research activities. Cleanup activities at ETEC involve completion of site characterization; issuance of a court-ordered Record of Decision pursuant to the National Environmental Policy Act (NEPA); deactivation, decommissioning, and demolition of excess facilities; remediation of contaminated groundwater and soil; and disposition of resulting radioactive and hazardous waste.

ETEC was a collection of DOE facilities within Area IV of the Santa Susana Field Laboratory. The Boeing Company is the landowner. By the end of 2021, all above-ground portions of the DOE-owned buildings were demolished. Ongoing and planned activities at the site before site closure include remediation of soil and groundwater contamination which will be implemented after continued collaboration with the State of California. Based on current estimates, the Office of Environmental Management (EM) is responsible for addressing \$0.22 billion in identified clean-up liability at the ETEC site – roughly 0.05 percent of the \$418 billion total liability across all EM sites. Successful implementation of current plans and milestones would result in completion of the identified clean-up mission at the ETEC site in the 2035 to 2045 timeframe. It is important to note that the estimates for ETEC are the Department's best estimate given the ongoing issues with the State of California in setting an implementable soil cleanup standard following the 2010 Administrative Order on Consent (AOC). As this justification details, the Department cannot initiate final soil remediation – a primary driver of the site's completion timeline and liability – until a scientifically-sound and implementable path forward is established.

ETEC site priorities are driven by several compliance agreements, which drive both the timing and sequence of cleanup priorities as follows:

- Complete the groundwater Corrective Measures Study (CMS) and implement final groundwater remedies.
- Advance the supplemental environmental review to support Record of Decision for soils.
- Continue planning to clean up contaminated soil and groundwater in Area IV and the Northern Buffer Zone to a level that is protective of human health and the environment at the Santa Susana Field Laboratory.

### Highlights of the FY 2027 Budget Request

The ETEC FY 2027 request will enable the site to continue making progress toward completion of cleanup, including planning for groundwater and soil remediation. The ETEC FY 2027 request will enable the site to continue making significant progress on key cleanup priorities and focus on advancing critical groundwater remediation and securing regulatory approval to resume demolition of remaining subsurface buildings. The site will transition the ongoing Groundwater Interim Measures for areas that exceed 1,000 parts per billion for trichloroethylene and continue a pilot test of an in-situ treatment of trichloroethylene to be part of the groundwater remediation following the Department's submittal of the revised Groundwater CMS to the California Department of Toxic Substances Control (DTSC) for approval in FY 2026. The site will continue its collaborations with the State of California so that once a Record of Decision for soils is published, the Department can begin a timely initiation of the soil remediation, once a scientifically-sound and implementable path forward for the site's cleanup is established. It is important to note that until the State of California

completes and issues Notice(s) of Determination as required by the California Environmental Quality Act, the Department cannot initiate groundwater or soil remediation.

### **FY 2026 - 2027 Key Milestones/Outlook**

- (March 2026) Completed analysis of Laboratory Method Reporting Limits and Backfill Source evaluations supporting proposal of modified Look Up Table Values to DTSC.
- (June 2026) Submit initial workplan to resume demolition of subsurface DOE buildings to the State of California for approval.
- (September 2026) Submit revised Groundwater CMS to the State of California for approval.
- (December 2026) Complete Groundwater In-Situ Treatability Pilot and submit evaluation report.
- (September 2027) Advance the NEPA process to support the issuance of a soils Record of Decision.

### **Regulatory Framework**

Prior decontamination and demolition activities of the radiologically contaminated facilities at ETEC were conducted under Atomic Energy Act authority. In May 2007, the U.S. District Court for the Northern District of California directed the Department to complete an Environmental Impact Statement and Record of Decision for Area IV of the Santa Susana Field Laboratory in accordance with NEPA. Also, the California Environmental Quality Act requires the State of California to complete an Environmental Impact Report before additional remediation can be conducted. The Resource Conservation and Recovery Act groundwater cleanup is regulated by DTSC consistent with a signed Consent Order issued by the DTSC in August 2007. The Department completed negotiation of an Administrative Order on Consent with DTSC in December 2010 for all remaining soil characterization and remediation.

The Department is continuing progress to complete NEPA requirements for ETEC site. In December 2018, the Department published the Final Environmental Impact Statement, supported by extensive studies of the site for radiological and chemical contamination conducted by DOE and the U.S. Environmental Protection Agency. The Department has published two Records of Decision: the first for Building Demolition in September 2019, the second for Groundwater Remediation in November 2020. The Department has yet to issue a Record of Decision for Soil Remediation. Building on previous environmental reviews, DOE issued a Notice of Intent in December 2024 for a Supplemental Environmental Impact Statement (SEIS) to assess additional soil remediation alternatives. Public scoping meetings for this SEIS were held in March 2025 to engage stakeholders.

Before any additional groundwater or soils cleanup is initiated, the Department will continue working with California's DTSC. The State approves the Department's remediation plans subject to the California Environmental Quality Act-required Program Environmental Impact Report. California issued their Draft Program Environmental Impact Report in September 2017, issued the Final Program Environmental Impact Report in June 2023, and certified it in July 2023. Further cleanup of groundwater and/or soils will require California to publish Notice(s) of Determination.

In the meantime, ongoing and additional interim remediation can continue with agreement from the State of California. In May 2020, DOE and DTSC executed an Order on Consent for Interim Actions that provided the framework for building demolition and agreed to demolish ten buildings, which was amended in October 2020, to include the final eight DOE-owned buildings. These interim actions were completed with the demolition of all above ground portions of DOE-owned buildings and waste shipped off-site for disposal in January 2022. Remaining building demolition activities include removal of the slabs, two vaults, and one basement along with

closure of two open Resource Conservation and Recovery Act permits for the Radioactive Material Handling Facility and Hazardous Waste Management Facility.

The State of California announced a Settlement Agreement with The Boeing Company in May 2022 providing a framework for a cleanup standard for Boeing's areas of responsibility at the Santa Susana Field Laboratory. The cleanup standards in this framework are up to and including a "resident with garden" standard for chemical constituents and cleanup to "background" levels for radiological contamination. This Settlement Agreement does not apply to DOE's soil remediation in Area IV, but would be applied to adjacent areas, separated only by administrative boundaries.

### **Contractual Framework**

ETEC awarded a new contract for environmental monitoring, surveillance and maintenance, the development of NEPA documentation and project support activities to North Wind Portage, Inc. in May 2024 and extended in January 2026. This scope was the first Task Order awarded under the Office of Environmental Managements' Small Business Nationwide Deactivation, Decommissioning and Removal contract. The award included CDM Smith as a teaming partner.

In December 2021, the DOE awarded a cooperative agreement with the Santa Ynez Band of Chumash Indians that provides funds to the local federally recognized Tribe to study and develop educational materials documenting the cultural significance of the Burro Flats portion of the Santa Susana Field Laboratory and how the past, current, and future activities have affected and can help preserve the site. This award furthers the site's ongoing collaboration with the Tribe and supports the National Historic Preservation Act Section 106 Programmatic Agreement with the State of California Historic Preservation Officer that was signed in September 2019 and amended in August 2024.

### **Strategic Management**

The Department is actively addressing significant challenges to implement the 2010 Administrative Order on Consent due to scientifically problematic Look-Up Table Values, which as analyzed in final Environmental Impact Statement present the risks of doing more environmental harm than good. Recognizing these shared implementation challenges, the DOE continues to work with the State of California to develop and evaluate technically sound soil remediation alternatives ETEC continues active engagement with stakeholders, including local elected officials and community members, to provide an understanding of DOE's history at the site and current progress towards cleanup. With the updated information provided in the Final Program Environmental Impact Report, which the State of California certified in July 2023, DOE is prioritizing continued progress on groundwater remediation and building demolition at ETEC. Consequently, implementation of soil remediation is not anticipated to commence until after FY 2029 reflecting a phased approach to align with available resources. The DOE continues working with the State of California with the support of the Network of National Laboratories for Environmental Management and Stewardship and the Regulatory Center of Excellence to reconcile these differences in a timely manner.

**Energy Technology Engineering Center**

**Funding (\$K)**

	FY 2025 Enacted	FY 2026 Enacted	FY 2027 Request	FY 2027 Request vs FY 2026 Enacted	
				\$	%

**Non-Defense Environmental Cleanup  
Small Sites  
Energy Technology Engineering  
Center  
CBC-ETEC-0040 / Nuclear Facility  
D&D**

10,000	10,000	10,000	+0	0%
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**Energy Technology Engineering Center  
Explanation of Major Changes (\$K)**

		<b>FY 2027 Request vs FY 2026 Enacted</b>
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**Non-Defense Environmental Cleanup**

**Small Sites**

**Energy Technology Engineering Center**

**CBC-ETEC-0040 / Nuclear Facility D&D**

- No change.

	10,000	10,000	+0
<b>Total, Energy Technology Engineering Center</b>	<b>10,000</b>	<b>10,000</b>	<b>+0</b>

**Nuclear Facility D&D (PBS: CBC-E TEC-0040)**

**Overview**

This Project Baseline Summary (PBS) can be found within the Non-Defense Environmental Cleanup appropriation.

The purpose of this PBS scope is to: 1) clean up contaminated release sites; 2) perform remediation of both contaminated groundwater and soil; and 3) remove radioactive and hazardous waste from the site applying (when possible) waste minimization principles. DOE has completed decontamination, decommissioning, and demolition for the above-ground portion of all DOE-owned buildings, but slabs, two vaults, and a basement remain. Soil and groundwater characterization has been performed. The scope of this PBS also includes direct maintenance and repair that are applicable to these areas.

In 2007, DOE received Court-ordered direction to prepare an Environmental Impact Statement regarding the cleanup of the Energy Technology Engineering Center facilities. Additionally, the State of California issued a Consent Order in 2007 for groundwater remediation and an Administrative Order on Consent in 2010 for cleanup of soils to a background level established by the State. The Department is actively addressing significant challenges to implement this Administrative Order on Consent for soil cleanup due to scientifically problematic Look-Up Table Values, which as analyzed in the final Environmental Impact Statement present the risks of doing more environmental harm than good. Recognizing these shared implementation challenges, DOE continues to work with the State of California to develop and evaluate technically sound alternatives.

The end-state is to complete cleanup of soils and groundwater for both radiological and chemical contamination. The site will then be transferred to The Boeing Company, which owns the land. In 2023, The State of California issued and certified the final Program Environmental Impact Report (PEIR) for the Santa Susana Field Laboratory; however, the Program Environmental Impact Report did not approve any cleanup standards, but rather analyzed the potential environmental impacts assuming the most extensive set of cleanup activities that could occur on the project site. Given updated information and current budgetary considerations, DOE is prioritizing significant progress on groundwater remediation and the Building 4024 demolition. Comprehensive soil remediation at ETEC is now anticipated to commence in the out years (FY2028 or beyond). The Department continues to work with the State to coordinate the timing and scope of the cleanup activities at ETEC.

**Activities and Explanation of Changes**

FY 2026 Enacted	FY 2027 Request	Explanation of Changes - FY 2027 Request vs FY 2026 Enacted
<b>\$10,000,000</b>	<b>\$10,000,000</b>	<b>+\$0</b>
<ul style="list-style-type: none"> <li>Complete Soil Remediation Action Implementation Plan pending agreement</li> </ul>	<ul style="list-style-type: none"> <li>Conclude the groundwater in-situ treatability pilot.</li> </ul>	<ul style="list-style-type: none"> <li>No change.</li> </ul>

- on an implementable soils standard with the State of California.
- Initiate groundwater remediation after the Corrective Measures Implementation Plan is approved by the State Regulators.
  - Initiate interim field activities with approval from State regulators.
  - Continue environmental review if required to support Record of Decision for soils remediation
- Initiate steps to increase groundwater remediation following State regulatory approval of the Groundwater Corrective Measures Study Report and subsequent Corrective Measures Implementation Plan.
  - Initiate subsurface facility demolition activities upon receiving State regulatory approvals.
  - Initiate subsurface facility demolition activities upon receiving State regulatory approvals.
  - Complete supplemental environmental review to support Record of Decision for soils remediation.

# Moab

## Overview

The Moab Uranium Mill Tailings Remedial Action Project supports the Department's cleanup of radioactive and chemical waste resulting from the Manhattan Project and Cold War activities. The project involves the excavation and transportation of 16-million-ton pile of uranium mill tailings from near the Colorado River at the Moab, Utah site along with additional contaminated material from the sub-pile and off-pile areas of over 1 million tons and placement/disposal at an engineered disposal cell constructed at Crescent Junction, Utah. Through the end of calendar year 2025, the Project shipped more than 16 million tons of material. Based on current estimates, the Office of Environmental Management (EM) is responsible for addressing \$183 million in identified clean-up liability at the Moab site – roughly .04 percent of the \$418 billion total liability across all EM sites. Successful implementation of current plans and milestones would result in completion of the identified clean-up mission at the Moab site in the 2029 timeframe.

Direct maintenance and repair at the Moab Uranium Mill Tailings Remedial Action Project is estimated to be \$293,000 in FY 2027.

## Highlights of the FY 2027 Budget Request

EM's FY 2027 request supports safely excavating, transporting, and placing the final contaminated mill tailings from the Moab site to the disposal cell at Crescent Junction, Utah, continue Final Status Survey of areas at the Moab site to verify the soil cleanup standards to release areas at the sites, operating the interim remedial action for contaminated groundwater, and select the final groundwater remedy from a groundwater compliance action plan.

## FY 2026 - 2027 Key Milestones/Outlook

- (September 2026) Excavate, transport, and dispose of approximately 950,000 tons of tailings.
- (September 2027) Excavate, transport, and dispose of approximately 400,000 tons of tailings.

## Regulatory Framework

Remediation must be performed in accordance with Title I of the Uranium Mill Tailings Radiation Control Act and the cleanup standards established under 40 CFR 192, Health and Environmental Protection Standards for Uranium and Thorium Mill Tailings.

## Contractual Framework

North-Wind Portage holds the Remedial Action Contract, which is an End State Contract for up to 10 years that utilizes cost reimbursement and fixed price task orders for cleanup activities. S&K Mission Support was awarded the Technical Assistance Contract starting in June 2025 for 27 months and is a firm-fixed-price contract.

## Strategic Management

The Department will work aggressively to complete cleanup at the Moab site. This involves the transport of uranium mill tailings away from their current location near the Colorado River and Arches National Park to a DOE disposal facility in Crescent Junction, Utah.

**Moab**

**Funding (\$K)**

	FY 2025 Enacted	FY 2026 Enacted	FY 2027 Request	FY 2027 Request vs FY 2026 Enacted	
				\$	%

**Non-Defense Environmental Cleanup**

**Small Sites**

**Moab**

CBC-MOAB-0031 / Soil and Water  
Remediation

74,420

64,265

64,265

+0

0%

**Moab**  
**Explanation of Major Changes (\$K)**

		<b>FY 2027 Request vs FY 2026 Enacted</b>
<b>FY 2026 Enacted</b>	<b>FY 2027 Request</b>	

**Non-Defense Environmental Cleanup**

**Small Sites**

**Moab**

**CBC-MOAB-0031 / Soil and Water Remediation**

- No change.

	64,265	64,265	+0
<b>Total, Moab</b>	<b>64,265</b>	<b>64,265</b>	<b>+0</b>

**soil and Water Remediation (PBS: CBC-Moab-0031)**

**Overview**

This Project Baseline Summary (PBS) is within the Non-Defense Environmental Cleanup appropriation.

The project scope includes remediating radioactive uranium mill tailings, mill debris, contaminated ground water, and contaminated vicinity properties at the former Atlas Minerals Corporation uranium ore processing site. The Department became responsible for this mission upon enactment of the Floyd D. Spence National Defense Authorization Act of 2001. The site is of particular public interest due to its unique setting on the banks of the Colorado River and its proximity to Arches National Park.

The scope of this PBS also includes direct maintenance and repair that are applicable to these areas.

**Activities and Explanation of Changes**

FY 2026 Enacted	FY 2027 Request	Explanation of Changes - FY 2027 Request vs FY 2026 Enacted
<b>\$64,265,000</b>	<b>\$64,265,000</b>	<b>+\$0</b>
<ul style="list-style-type: none"> <li>• Conduct Moab and Crescent Junction operation and maintenance.</li> <li>• Operate interim remedial action for contaminated groundwater and develop groundwater compliance action plan.</li> <li>• Excavate tailings and transport (4 trains/week) to the disposal cell (approximately 950,000 tons).</li> <li>• Perform operations and maintenance of the materials handling system and infrastructure.</li> <li>• Continue equipment maintenance/replacement.</li> <li>• Place a portion of the interim cover.</li> <li>• Construct disposal cell cover</li> </ul>	<ul style="list-style-type: none"> <li>• Conduct Moab and Crescent Junction operation and maintenance.</li> <li>• Operate interim remedial action for contaminated groundwater and develop groundwater compliance action plan.</li> <li>• Excavate tailings and transport to the disposal cell (approximately 400,000 tons).</li> <li>• Perform operations and maintenance of the materials handling system and infrastructure.</li> <li>• Continue equipment maintenance/replacement.</li> <li>• Perform Final Status Surveys</li> </ul>	<ul style="list-style-type: none"> <li>• No change.</li> </ul>

## **Other Sites**

### **Overview**

In supporting the Department of Energy (DOE) to meet the challenges of the Nation's Manhattan Project and Cold War environmental legacy responsibilities, the Environmental Management (EM) Program manages scope that includes closure and post-closure administrative activities at a number of geographic sites across the nation. The sites included in this section are in the final stages of cleanup and closure or have actually transitioned to the post-closure phase. Additionally, this account includes a site/facility for which DOE has no liability or mission requirement, but for which Congress has provided funds.

### **Lawrence Berkeley National Laboratory**

Over the past eleven years, Congress has provided approximately \$200,000,000 in funding. DOE will continue utilizing these funds to deactivate, decommission and demolish various facilities across Lawrence Berkeley National Laboratory and remove associated contaminated soil.

### **EM Consolidated Business Center**

The EM Consolidated Business Center (EMCBC) provides a wide range of activities supporting DOE's national environmental cleanup mission, from financial management, contracting, technical support and information resource management. EMCBC also has responsibility for administrative closure and post-closure activities at EM defense and non-defense sites, which includes contract closeout, litigation and litigation support within this Other Sites budget. EMCBC serves as the lead EM office for new cleanup contract acquisitions required to support the EM program mission. Respectively, EMCBC administers Closure Sites activities for Rocky Flats, Fernald, Mound and provides oversight, technical, project controls, cybersecurity (e.g., EO 14028, DOE O 205.1C, EM Cybersecurity Program Plan), and legal/litigation support for the Separations Process Research Unit, EMCBC New York Project Support Office, Nevada, West Valley, Moab, Energy Technology Engineering Center, and EM work at Lawrence Berkeley National Laboratory, Lawrence Livermore National Laboratory, and Sandia National Laboratory.

### **Highlights of the FY 2027 Budget Request**

Continue regulatory support of the Fernald Closure Project, and small sites' litigation and support requirements.

### **Strategic Management**

The EM program will conduct closure and post-closure administrative activities at several sites across the nation.

**Other Sites**

**Funding (\$K)**

FY 2025 Enacted	FY 2026 Enacted	FY 2027 Request	FY 2027 Request vs FY 2026 Enacted	
			\$	%

**Defense Environmental Cleanup**

**Closure Sites**

**Closure Sites Administration**

CBC_0100_EM / Litigation Support	750	300	300	+0	0%
CBC_0100_FN / CBC Post Closure Administration - Fernald	500	100	100	+0	0%
CBC_0100_RF / CBC Post Closure Administration - Rocky Flats	100	100	100	+0	0%
<b>Subtotal, Closure Sites Administration</b>	<b>1,350</b>	<b>500</b>	<b>500</b>	<b>+0</b>	<b>0%</b>
<b>Total, Other Sites</b>	<b>1,350</b>	<b>500</b>	<b>500</b>	<b>+0</b>	<b>0%</b>

**Other Sites**  
**Explanation of Major Changes (\$K)**

	<b>FY 2026 Enacted</b>	<b>FY 2027 Request</b>	<b>FY 2027 Request vs FY 2026 Enacted</b>
<b>Defense Environmental Cleanup</b>			
<b>Closure Sites</b>			
<b>Closure Sites Administration</b>			
<b>CBC_0100_EM / Litigation Support</b>			
• No change.	300	300	+0
<b>CBC_0100_FN / CBC Post Closure Administration - Fernald</b>			
• No change.	100	100	+0
<b>CBC_0100_RF / CBC Post Closure Administration - Rocky Flats</b>			
• No change.	100	100	+0
<b>Total, Other Sites</b>	<b>500</b>	<b>500</b>	<b>+0</b>

**Litigation Support (PBS: CBC-0100-EM)**

**Overview**

EMCBC has a responsibility to provide ongoing litigation support for all supported sites. The Project Baseline Summary scope is to provide litigation support related to Closure Sites (Rocky Flats, Fernald, and Mound), as well as legal/litigation support for all active EMCBC sites.

**Activities and Explanation of Changes**

<b>FY 2026 Enacted</b>	<b>FY 2027 Request</b>	<b>Explanation of Changes - FY 2027 Request vs FY 2026 Enacted</b>
<b>\$300,000</b>	<b>\$300,000</b>	<b>+\$0</b>

- 
- Provide ongoing litigation support to sites supported by the EM Consolidated Business Center.
  - Support records vault lease and records management costs.
  - Provide ongoing litigation support to sites supported by the EM Consolidated Business Center.
  - No change.

**CBC Post Closure Administration – Fernald (PBS: CBC-0100-FN)**

**Overview**

This Project Baseline Summary (PBS) is within the Defense Environmental Cleanup appropriation.

This Post-Closure Administration PBS scope includes the Fernald Closure Project post closure administration and litigation support.

**Activities and Explanation of Changes**

FY 2026 Enacted	FY 2027 Request	Explanation of Changes - FY 2027 Request vs FY 2026 Enacted
\$100,000	\$100,000	+\$0
<ul style="list-style-type: none"> <li>• Fund the Fernald Workers II class action lawsuit and contract closeout at the Fernald closure site.</li> </ul>	<ul style="list-style-type: none"> <li>• Fund the Fernald Workers II class action lawsuit and contract closeout at the Fernald closure site.</li> </ul>	<ul style="list-style-type: none"> <li>• No change.</li> </ul>

**CBC Post Closure Administration – Rocky Flats (PBS: CBC-0100-RF)**

**Overview**

**Environmental Management/  
Other Sites**

**FY 2027 Congressional Justification**

This Project Baseline Summary (PBS) is within the Defense Environmental Cleanup appropriation.

The Rocky Flats Closure Project achieved site closure in FY 2006. The PBS scope provided site litigation support related to the continuing class actions and other civil litigation activities of former site contractors.

**Activities and Explanation of Changes**

<b>FY 2026 Enacted</b>	<b>FY 2027 Request</b>	<b>Explanation of Changes - FY 2027 Request vs FY 2026 Enacted</b>
<b>\$100,000</b>	<b>\$100,000</b>	<b>+\$0</b>
<ul style="list-style-type: none"> <li>• Pay/Reimburse Workers' Compensation claims and support Contract Closeout.</li> </ul>	<ul style="list-style-type: none"> <li>• Pay/Reimburse Workers' Compensation claims and support Contract Closeout.</li> </ul>	<ul style="list-style-type: none"> <li>• No change.</li> </ul>

## **Mission Support**

### **Overview**

EM's Mission Support activities encompass an array of functions that enable the overall cleanup mission. These activities are managed through headquarters as crosscutting EM and DOE initiatives.

### **Policy, Management, and Technical Support**

The headquarters operations program includes policy, management, and technical support activities to provide management and direction for various crosscutting EM and DOE initiatives. Through this program, EM establishes and implements national and departmental policies, provides focused technical expertise to resolve barriers to site cleanup, and conducts analyses and integrates activities across the DOE complex. This program also includes government-furnished services and items necessary to accelerate site cleanup and risk reduction efforts, assure pathways to disposition waste and materials; conduct transportation, packaging, and emergency preparedness activities; complete necessary policy analyses; support legal claims; support closure assistance activities; and effectively communicate with the public, tribal nations, and stakeholders regarding the EM program's activities.

### **Minority Serving Institutions Partnership Program**

EM recognizes that successfully completing its legacy environmental cleanup mission will require maintaining a well-trained and technically skilled workforce. EM has mission-specific workforce needs, requiring education and training beyond the traditional classroom coursework. Engagement with universities and colleges provides an opportunity to inform students about the real challenges of the EM mission and position a future workforce pipeline. EM's Minority Serving Institutions Partnership Program (MSIPP) was designed to address EM's future workforce needs by partnering with DOE field sites and DOE national laboratory and contractor organizations, academia, and other Federal government agencies to mentor and provide career pathway opportunities for future science, technology, engineering, and math graduates. EM has created and designed the EM MSIPP that supports science, technology, engineering, and mathematics activities at institutions engaged in cleanup-relevant research and development and related science, technology, engineering, and mathematics efforts supporting EM's needs.

### **Technology Development**

The Technology Development (TD) program will facilitate the use of innovative solutions and state-of-the-art technology to reduce costs, accelerate schedules, reduce safety risks, mitigate vulnerabilities, and quickly respond to urgent technological needs. The infusion of new technology and innovative solutions are necessary to fill science and technology-rooted mission gaps and to improve or optimize baseline technologies.

The TD program provides the opportunity to reduce the aggregate cleanup cost, complete cleanup and close sites sooner and, more importantly, perform work and operate facilities more effectively and in a manner that assures public, workers, and environmental safety. New and novel technologies as well as innovative solutions are needed to address the significant challenges associated with the remaining nuclear cleanup work that will span the next five decades. The program encompasses the entire maturation lifecycle of technology which includes transfer of technologies from other nuclear and non-nuclear industry sectors. The program addresses issues related to public, worker, facility/asset, and environmental safety and security; radioactive liquid and solid waste treatment, storage, and disposal; soil and groundwater remediation; nuclear materials and spent fuel management and disposition; and facility deactivation and decommissioning.

### **Environmental Management/ Mission Support**

**FY 2027 Congressional Justification**

## **Mercury Storage Facility**

The Mercury Export Ban Act of 2008 (Public Law 110-414) as amended by the Frank R. Lautenberg Chemical Safety for the 21st Century Act (Public Law 114-182), which banned the export of elemental mercury generated in the United States beginning in 2013, prohibits federal agencies from either selling or distributing mercury, and instructs DOE to provide long-term management and storage for elemental mercury generated within the United States. The Act, as amended, requires that a storage facility be operational by January 1, 2019. Additionally, DOE's mercury storage operations will be subject to the requirements of the Resource Conservation and Recovery Act. EM is responsible for designating a DOE facility for the long-term management and storage of elemental mercury and the Office of Legacy Management is responsible for the operation of the facility. DOE began preparation of an Environmental Impact Statement in May 2009 to identify a location for a long-term elemental mercury management and storage facility. The final Environmental Impact Statement was issued in January 2011. In June 2012, DOE announced its intention to evaluate additional locations near the Waste Isolation Pilot Plant in Carlsbad, New Mexico, and developed a Supplemental Environmental Impact Statement. The final Supplement to the Environmental Impact Statement was issued in October 2013. EM published a Supplement Analysis in June 2019 that analyzed changes that had occurred since 2011. EM published the Record of Decision, designating Waste Control Specialists (WCS) LLC in Andrews, Texas, and the final rule on mercury management and storage fees in December 2019. Nevada Gold Mines and Coeur Mining filed lawsuits in opposition to the fee rule and designation. DOE settled the Nevada Gold Mines lawsuit and entered into a settlement agreement that terminated the fee rule and removed the designation. DOE expects the conveyance of title to 112 metric tons of elemental mercury in FY 2027 pursuant to the Nevada Gold Mines legal settlement. DOE published a second Supplemental Environmental Impact Statement in February 2024, followed by a Record of Decision designating WCS in Andrews County, Texas, as the long-term elemental mercury storage facility. DOE plans to initiate the fee rule in FY 2027. A revised fee rule will follow environmental analyses, enabling the acceptance of elemental mercury from domestic sources.

## **Reimbursement and Financial Review of Claims for Uranium and Thorium Licensees**

Pursuant to Title X of the Energy Policy Act of 1992 (Public Law 102-486, as amended) and 10 CFR Part 765, the Title X Uranium and Thorium Reimbursement Program provides reimbursements to uranium and thorium licenses for the portion of the environmental cleanup costs attributable to nuclear material sold to the federal government during the Cold War Era. Title X authorizes the Department to reimburse eligible costs for Title X licenses. The Department will conduct financial reviews to ensure eligible costs have been submitted to the Department by the Title X licenses.

**Mission Support**

**Funding (\$K)**

	FY 2025 Enacted	FY 2026 Enacted	FY 2027 Request	FY 2027 Request vs FY 2026 Enacted	
				\$	%
<b>Defense Environmental Cleanup</b>					
<b>Technology Development</b>					
HQ-TD-0100 / Technology Development	35,569	16,012	16,012	+0	0%
<b>Program Support</b>					
HQ-HBCU-0100 / Minority Serving Institution Partnership Program	10,000	10,000	10,000	+0	0%
HQ-MS-0100 / Policy, Management, and Technical Support	7,504	10,320	10,320	+0	0%
<b>Subtotal, Mission Support</b>	<b>17,504</b>	<b>20,320</b>	<b>20,320</b>	<b>+0</b>	<b>0%</b>
<b>Safeguards and Security</b>					
HQ-0020 / Safeguards and Security	21,089	2,496	11,000	+8,504	+341%
<b>Total, Defense Environmental Cleanup</b>	<b>74,162</b>	<b>38,828</b>	<b>47,332</b>	<b>+8,504</b>	<b>+22%</b>
<b>Non-Defense Environmental Cleanup</b>					
<b>Management and Storage of Elemental Mercury</b>					
HQ-MSF-0100 / Management and Storage of Elemental Mercury	5,000	0	0	+0	0%
Mercury Receipts	3,000	3,000	3,000	+0	0%
Use of Mercury Receipts	-3,000	-3,000	-3,000	+0	0%
<b>Total, Non-Defense Environmental Cleanup</b>	<b>5,000</b>	<b>0</b>	<b>0</b>	<b>+0</b>	<b>0%</b>
<b>Uranium Enrichment Decontamination and Decommissioning Fund</b>					
<b>U/Th Reimbursements</b>					
HQ-UR-0100 / Reimbursements to Uranium / Thorium Licensees	0	5,115	5,115	+0	0%
<b>Total, Mission Support</b>	<b>79,162</b>	<b>43,943</b>	<b>52,447</b>	<b>+8,504</b>	<b>+18%</b>

**Environmental Management/  
Mission Support**

**FY 2027 Congressional Justification**

**Mission Support**  
**Explanation of Major Changes (\$K)**

	<b>FY 2026 Enacted</b>	<b>FY 2027 Request</b>	<b>FY 2027 Request vs FY 2026 Enacted</b>
<b>Defense Environmental Cleanup</b>			
<b>Technology Development</b>			
<b>HQ-TD-0100 / Technology Development</b>			
• No change.	16,012	16,012	+0
<b>Program Support</b>			
<b>HQ-HBCU-0100 / Minority Serving Institution Partnership Program</b>			
• No change.	10,000	10,000	+0
<b>HQ-MS-0100 / Policy, Management, and Technical Support</b>			
• No change.	10,320	10,320	+0
<b>Safeguards and Security</b>			
<b>HQ-0020 / Safeguards and Security</b>			
• Increase will support the cybersecurity oversight program for the EM complex and a portion of the funding for the renewal of software and hardware and implementation of shared, enterprise cybersecurity solutions for information systems and operational technology/industrial control systems. To be able to continue to maintain EM’s ability to anticipate and defend against increasingly sophisticated cybersecurity threats and provide assurance that as EM pursues its nuclear remediation and revitalization mission, its information is secure, communications are not compromised, risk to data and system infiltrations are mitigated, and to meet some compliance requirements, EM’s field sites will need to fund the remaining requirement out of their safeguards and security accounts.	2,496	11,000	+8,504
<b>Uranium Enrichment Decontamination and Decommissioning Fund</b>			
<b>U/Th Reimbursements</b>			
<b>HQ-UR-0100 / Reimbursements to Uranium / Thorium Licensees</b>			
• No Change.	5,115	5,115	+0
<b>Total, Mission Support</b>	<b>43,943</b>	<b>52,447</b>	<b>+8,504</b>

## Policy, Management, and Technical Support (PBS: HQ-MS-0100)

### Overview

This Project Baseline Summary (PBS) can be found within the Defense Environmental Cleanup appropriation.

This PBS scope includes management and direction for various crosscutting EM and DOE programs and initiatives, establishment and implementation of national and departmental policies, various intergovernmental activities, and analyses and integration activities across the DOE complex. Also, the scope of this PBS includes government-furnished services and items necessary to accelerate site cleanup and risk reduction efforts; assure pathways to disposition waste and materials; conduct transportation, packaging, and emergency preparedness activities; complete necessary policy analyses; support legal claims; support closure assistance activities; and effectively communicate with the public and stakeholders regarding the EM program’s activities.

### Activities and Explanation of Changes

FY 2026 Enacted	FY 2027 Request	Explanation of Changes - FY 2027 Request vs FY 2026 Enacted
<b>\$10,320,000</b>	<b>\$10,320,000</b>	<b>+\$0</b>
<ul style="list-style-type: none"> <li>• Continue support for DOE’s Strategic Sourcing Initiative to purchase commodities through a supply chain framework, which results in cost avoidance on purchases.</li> <li>• Continue support for various Secretarial and Departmental initiatives, including the Defense Contracts Audit Agency audits, Government Industry Data Exchange Program and Consolidated Accounting Investment System.</li> <li>• Continue to provide expertise in the areas of safety, health, and security; emergency management; quality assurance; nuclear criticality safety; and risk management.</li> </ul>	<ul style="list-style-type: none"> <li>• Continue support for DOE’s Strategic Sourcing Initiative to purchase commodities through a supply chain framework, which results in cost avoidance on purchases.</li> <li>• Continue support for various Secretarial and Departmental initiatives, including the Defense Contracts Audit Agency audits, Government Industry Data Exchange Program and Consolidated Accounting Investment System.</li> <li>• Continue to provide expertise in the areas of safety, health, and security; emergency management; quality assurance; nuclear criticality safety; and risk management.</li> </ul>	<ul style="list-style-type: none"> <li>• No change.</li> </ul>

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- Continue to provide support to instill safety awareness by utilizing the National Safety Council to conduct surveys which will indicate whether and how EM's commitment to safety is working.
  - Continue to provide support to various advisory groups such as the Nuclear Regulatory Commission, National Academy of Sciences and Low-Level Radioactive Waste Forum, to obtain technical assistance and expertise that indirectly supports EM mission objectives.
  - Continue to provide support to packaging and transportation stakeholders outreach grants.
  - Continue to provide rapid response from technical experts or "External/Internal" review teams to address emerging, imminent technical issues impeding site cleanup and closure.
  - Continue to provide technical solution projects designed to reduce near-term technical risks and technical assistance to include site troubleshooting, consulting, scientific, or technical problem solving.
- Continue to provide support to instill safety awareness by utilizing the National Safety Council to conduct surveys which will indicate whether and how EM's commitment to safety is working.
  - Continue to provide support to various advisory groups such as the Nuclear Regulatory Commission, National Academy of Sciences and Low-Level Radioactive Waste Forum, to obtain technical assistance and expertise that indirectly supports EM mission objectives.
  - Continue to provide support to packaging and transportation stakeholders outreach grants.
  - Continue to provide rapid response from technical experts or "External/Internal" review teams to address emerging, imminent technical issues impeding site cleanup and closure.
  - Continue to provide technical solution projects designed to reduce near-term technical risks and technical assistance to include site troubleshooting, consulting, scientific, or technical problem solving.

## **Minority Serving Institutions Partnership Program (PBS: EM-HBCU-0100)**

### **Overview**

This Project Baseline Summary (PBS) can be found within the Defense Environmental Cleanup appropriation.

The PBS scope supports EM's Minority Serving Institutions Partnership Program (MSIPP) to attract, develop, and retain the technical workforce at its national laboratories, field sites, and offices required to execute its mission. The program supports development of a future-focused workforce whereby improvements are sought in the technical training of the atomic energy workforce as well as filling the pipeline of the next generation nuclear cleanup professionals through science, technology, engineering, and mathematics education, experiential learning, and apprenticeships.

The EM MSIPP was designed to address DOE's future workforce needs by partnering with academic, government and DOE contractor organizations to mentor future science, technology, engineering, and mathematics scientists and engineers in the research, development, and deployment of new technologies. The EM MSIPP has the following foundational programs:

- **Competitive Research Awards:** Research contracts potentially awarded on EM mission-related research and award recipients will partner with national laboratories.
- **Internships:** Summer and seasonal internships hosted at DOE national laboratories, DOE field sites, and EM headquarters.
- **Environmental Sciences Field Station:** Hands-on summer program with integrated experiential learning that offers course credits. Research projects will be affiliated with an EM field site and/or a DOE national laboratory.
- **Graduate Fellowship Program:** This year-long fellowship program includes salary and travel for conferences and professional networking events at various DOE facilities.
- **Success Through Academic Research Scholars Program:** This program is designed to develop and sustain a diverse, highly skilled, and agile workforce by providing a path from higher education into the EM workforce through offering talented undergraduate students attending Minority Serving Institutions scholarships for the pursuit of a degree and internship opportunities at EM headquarters, field offices, and national laboratories.

**Activities and Explanation of Changes**

<b>FY 2026 Enacted</b>	<b>FY 2027 Request</b>	<b>Explanation of Changes - FY 2027 Request vs FY 2026 Enacted</b>
<b>\$10,000,000</b>	<b>\$10,000,000</b>	<b>+\$0</b>
<ul style="list-style-type: none"> <li>Continue support for EM’s MSIPP to attract, develop, and retain the technical workforce at its national laboratories, field sites, and offices required to execute its mission.</li> </ul>	<ul style="list-style-type: none"> <li>Continue support for EM's MSIPP to attract, develop, and retain the technical workforce at its national laboratories, field sites, and offices required to execute its mission.</li> </ul>	<ul style="list-style-type: none"> <li>No change.</li> </ul>

## **Technology Development (PBS: HQ-TD-0100)**

### **Overview**

This Project Baseline Summary can be found within the Defense Environmental Cleanup appropriation.

Recognizing that many mission enabling technologies are commercially available in non-nuclear industry sectors and others have been developed by federal agencies to support their highly specialized missions, EM will seek to transfer these technologies to support nuclear cleanup.

EM collaborates and partners with technologists in other U.S. executive departments and independent agencies to leverage highly specialized expertise, government assets and facilities, and publicly funded programs. Access to non-DOE national laboratories and technology centers, non-DOE federally funded research and development centers, non-DOE testing facilities and proving grounds, as well as university affiliated research centers, can greatly increase opportunities for cleanup innovation and enhance cleanup capabilities.

The TD program continues to address strategic investments in high-impact and disruptive technologies and solutions that have the potential to positively impact EM's lifecycle by: reducing costs; accelerating schedules; mitigating mission uncertainties, vulnerabilities, and risks; and minimizing the long-term, post-closure and post-completion stewardship. High-impact and disruptive technologies are aimed at those that are outside the day-to-day program, target big challenges, and could result in breakthroughs. Alternatives to baseline technologies are sought, particularly to leverage advancements in the current state of the art and to capitalize on the availability of new solutions.

In FY 2027, existing technologies and innovative approaches used in other industry sectors will be evaluated and adapted to clean up EM sites, which will save money by requiring minimal research and development and potentially accelerate cleanup. Research and development will continue to address the EM cleanup mission, particularly when basic phenomena are not adequately understood or there is a high level of technical uncertainty. Early-stage applied research may lead to high-impact solutions and may also provide insight on ways to improve existing environmental processes and facility operations. EM will efficiently and incrementally continue its activities in early-stage applied research as it serves as basis for new technological development, deployment on mission-relevant work, and technology transfer and commercialization.

In FY 2027, EM will focus on essential projects that provide solutions and technologies aimed at facilitating safer, higher quality, and more efficient work, with emphasis on site closure. The development of technologies will equip EM with advanced tools. These innovations will enhance quality, improve environmental and facility operations, and mitigate the environmental liabilities associated with legacy nuclear cleanup. Their objective is to enhance worker, nuclear, facility, industry, and environmental safety. As advancements in various technological fields progress, these technologies will provide alternatives or enhancements to existing baseline technologies.

**Activities and Explanation of Changes**

FY 2026 Enacted	FY 2027 Request	Explanation of Changes - FY 2027 Request vs FY 2026 Enacted
<b>\$16,012,000</b>	<b>\$16,012,000</b>	<b>+\$0</b>

- Continue incremental technology development activities and applied research to enhance the efficiency of operations and schedule, improve worker environmental protection and safety, and improve overall mission performance.
- Continue high-impact and disruptive technology development activities, including alternatives to baseline technologies that leverage advancements in the current state of the art and capitalize on the availability of new solutions.
- Continue providing technical assistance to EM field sites, as reduced funding allows, utilizing technical subject matter experts in DOE's national laboratories, academia, private industry, and other Federal agencies.
- Continue incremental qualification, testing, and research to advance state-of-the-art containment ventilation systems and related technologies.

- Continue incremental technology development activities and applied research to enhance the efficiency of operations and schedule, improve worker environmental protection and safety, and improve overall mission performance.
- Continue high-impact and disruptive technology development activities, including alternatives to baseline technologies that leverage advancements in the current state of the art and capitalize on the availability of new solutions.
- Continue providing technical assistance to EM field sites, as reduced funding allows, utilizing technical subject matter experts in DOE's national laboratories, academia, private industry, and other Federal agencies.
- Continue incremental qualification, testing, and research to advance state-of-the-art containment ventilation systems and related technologies.
- Develop new and maintain current interagency agreements to maintain effective cross-agency collaboration and efficient use of available off-the-shelf technologies.

- No change.

**Safeguards and Security – HQ Cyber Activities (PBS: HQ-0020)**

**Overview**

This Project Baseline Summary (PBS) can be found within the Defense Environmental Cleanup appropriation.

This PBS supports the headquarters Safeguards and Security Cybersecurity account activities associated with the EM Mission Information Protection Program.

EM’s Mission Information Protection Program delivers a cybersecurity oversight program for the EM complex and a portion of the funding for the renewal of enterprise cybersecurity software and hardware and for the implementation of shared, enterprise cybersecurity solutions that improve the protection of the EM information systems and operational technology/industrial control systems that enable the EM remediation and revitalization mission. The Mission Information Protection Program provides cybersecurity subject matter experts, information sharing and analysis processes, and best-in-class, enterprise cybersecurity technology solutions that provide governance and oversight for EM headquarters and field sites to better govern, identify, protect, detect, and respond to potential threats in near real-time, providing assurance that as EM pursues its mission of cleaning up the nation's nuclear legacy, its information is secure, communications are not compromised, risks to data and system infiltrations are mitigated, and to meet some compliance requirements (e.g., E.O. 14028, 14144, and 14306). Enterprise licensing of cybersecurity technology solutions provides significant volume-based cost avoidance, predictable budgeting, improved security and compliance, and reduced administrative burden by consolidating contract agreements.

**Activities and Explanation of Changes**

FY 2026 Enacted	FY 2027 Request	Explanation of Changes - FY 2027 Request vs FY 2026 Enacted
<b>\$2,496,000</b>	<b>\$11,000,000</b>	<b>+\$8,504,000</b>
<ul style="list-style-type: none"> <li>Maintain enterprise security level by renewing software licenses, refreshing hardware, and providing oversight.</li> </ul>	<ul style="list-style-type: none"> <li>Maintain enterprise security level by renewing software licenses, refreshing hardware, and providing oversight.</li> </ul>	<ul style="list-style-type: none"> <li>Increase will support the cybersecurity oversight program for the EM complex and a portion of the funding for the renewal of software and hardware and implementation of shared, enterprise cybersecurity solutions for information systems and operational technology/industrial control systems. To be able to continue to maintain EM’s ability to anticipate and defend against cybersecurity threats and provide assurance that as EM</li> </ul>

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pursues its remediation and revitalization mission, its information is secure, communications are not compromised, risk to data and system infiltrations are mitigated, and to meet some compliance requirements, EM's field sites will need to fund the remaining requirement out of their safeguards and security account.

## Uranium/Thorium Reimbursements (PBS: HQ-UR-0100)

### Overview

This Project Baseline Summary can be found within the Uranium Enrichment and Decontamination and Decommissioning Fund appropriation.

The Office of Environmental Management implements DOE's statutory responsibilities pursuant to Title X of the Energy Policy Act of 1992, Public Law 102-486, as amended, and 10 CFR Part 765. This Title X Program includes reimbursements to uranium and thorium processing site licenses for the portion of environmental cleanup costs attributable to nuclear material sold to the federal government during the Cold War Era. Title X authorizes the Department to reimburse eligible costs to licensees. The Department will conduct financial reviews to ensure eligible costs have been submitted to the Department by Title X licenses.

The intent of Title X is to reimburse eligible costs previously incurred by licensees and does not relieve licensees of their liability to complete environmental restoration of their former mill sites. Through December 2025, four of the 14 sites have completed remediation and have transferred their disposal facilities to DOE for long-term stewardship. One site, Moab, was transferred to DOE by Public Law 106-398 and is no longer within the Title X program. Nine sites have continuing remediation programs. [1]

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[1] DOE has fulfilled its reimbursement obligation to three of the nine sites, Dawn Mining Company, Rio Algom Mining LLC, and West Chicago Environmental Response Trust. These companies will continue to complete their remediation efforts.

**Activities and Explanation of Changes**

<b>FY 2026 Enacted</b>	<b>FY 2027 Request</b>	<b>Explanation of Changes - FY 2027 Request vs FY 2026 Enacted</b>
<b>\$5,115,000</b>	<b>\$5,115,000</b>	<b>+\$0</b>
<ul style="list-style-type: none"> <li>• Continue to implement statutorily required program to reimburse eligible uranium and thorium licenses for a portion of remediation costs attributable to nuclear material sold to the federal government during the Cold War Era.</li> <li>• Continue to provide payment to licensees of approved claims for FY 2025 and prior.</li> </ul>	<ul style="list-style-type: none"> <li>• Continue to implement statutorily required program to reimburse eligible uranium and thorium licensees for a portion of remediation costs attributable to nuclear material sold to the federal government during the Cold War Era.</li> <li>• Continue to provide payment to licensees of approved claims for FY 2026 and prior.</li> </ul>	<ul style="list-style-type: none"> <li>• No change.</li> </ul>

**Title X of the Energy Policy Act of 1992: Uranium/Thorium Reimbursement Program  
Status of Payments through Fiscal Year 2025 and Estimated Maximum Program Liability**

(\$ Thousands)

<u>Licensees</u>	Total Payments FY 1994- FY 2025	Approved but Unpaid Claim Balances After FY 2025 Payments	Maximum Remaining Program Liability Including Estimated Costs in Approved Plans for Subsequent Remedial Action
<b>Uranium</b>			
American Nuclear Corp. Site			
American Nuclear Corporation	820	0	0
State of Wyoming	1,485	0	822
Atlantic Richfield Company <sup>a</sup>	32,306	0	0
Atlas Corporation/Moab Mill Reclamation	9,694	0	0
Trust <sup>a</sup>			
Cañon City Site			1,942
Cotter Corporation	3,411	0	
Colorado Legacy Land	1,896	256	
Colorado Dept. of Public Health and Environment	0	109	
Dawn Mining Company <sup>a</sup>	19,151	0	0
Homestake Mining Company	113,661	6,641	41,353
Pathfinder Mines Corporation/Areva/Orano	10,790	0	380
Petrotomics Company <sup>a</sup>	2,850	0	0
Rio Algom Mining LLC <sup>a,b</sup>	48,081	0	0
Tennessee Valley Authority <sup>a</sup>	25,130	0	0
Umetco Minerals Corporation-CO	75,522	5,300	17,743
Umetco Minerals Corporation-WY	26,106	205	1,046
Western Nuclear, Incorporated <sup>a</sup>	33,636	0	0
Subtotal, Uranium	404,538	12,511	63,286

<u>Licensees</u> <b>Thorium</b>	Total Payments FY 1994- FY 2025	Approved but Unpaid Claim Balances After FY 2025 Payments	Maximum Remaining Program Liability Including Estimated Costs in Approved Plans for Subsequent Remedial Action
West Chicago <sup>a,c</sup>	399,652	0	0
Subtotal, Thorium	399,652	0	0
Total, Uranium and Thorium	804,190	12,511	63,286

<sup>a</sup> Reimbursements have been completed to Atlantic Richfield Company, Dawn Mining, the licenses of the Moab site, Petrotomics Company, Rio Algom LLC, West Chicago Environmental Trust, and the Western Nuclear, Inc., site.

<sup>b</sup> Formerly Quivira Mining Company.

<sup>c</sup> Includes former licenses, Kerr-McGee Chemical Corp. & Tronox, LLC. Effective 2011, the thorium site license was transferred to the West Chicago Environmental Response Trust. The thorium site reimbursement has reached its authority allowed under Title X.

## **Program Direction**

### **Overview**

EM is responsible for the safe cleanup of the environment resulting from decades of nuclear weapons production and government-sponsored nuclear energy research. This mission is carried out largely by a contractor workforce. However, various functions are inherently governmental (e.g., program management, contract oversight and administration, budget formulation and execution, and interagency and international coordination) requiring a dedicated federal workforce emphasizing fiscal discipline, rightsizing, and accelerating risk-reducing cleanup while maintaining a safe and secure posture. The Program Direction account provides the resources necessary for the federal workforce to oversee the overall direction and administrative support of the EM program, including both headquarters and field personnel.

### **Highlights of the FY 2027 Budget Request**

EM's ability to ensure its programs are staffed with the appropriate expertise to meet mission requirements efficiently and effectively. The federal workforce provides leadership, establishes and implements policy, conducts analyses, and integrates activities across EM sites. In the field, federal staff oversee daily operations; manage projects at DOE facilities; and monitor contractor, construction, and test activities. In FY 2027, EM will continue to fund its critical travel, training, and contractor support to ensure the federal workforce can effectively carry out its responsibilities.

EM will also leverage three key programs (Pathways, Interns, Scholars) to recruit mission critical talent at the journeyman level (lower grade) to mitigate the risk of future talent loss and create a strong pipeline of highly qualified candidates to support EM's unique current and future workforce needs. These programs, along with other workforce development strategies, will help ensure EM's mission and goals are supported by a skilled and qualified workforce.

The FY 2027 request includes funding for 30 Office of Chief Human Capital Officer and 2 Office of General Counsel full-time equivalents not reflected in the current EM staffing plan.

**Program Direction Summary**

**Funding (\$K)**

	<b>FY 2025 Enacted</b>	<b>FY 2026 Enacted</b>	<b>FY 2027 Request</b>	<b>FY 2027 Request vs FY 2026 Enacted</b>	
				<b>\$</b>	<b>%</b>
<b>Carlsbad</b>					
Salaries and Benefits	11,427	10,809	10,917	+108	+1%
Travel	274	365	375	+10	+3%
Support Services	749	921	940	+19	+2%
Other Related Expenses	429	1,337	1,665	+328	+25%
<b>Total, Carlsbad</b>	<b>12,879</b>	<b>13,432</b>	<b>13,897</b>	<b>+465</b>	<b>+3%</b>
<b>Idaho</b>					
Salaries and Benefits	8,043	7,679	7,756	+77	+1%
Travel	82	264	270	+6	+2%
Support Services	79	750	765	+15	+2%
Other Related Expenses	112	779	795	+16	+2%
<b>Total, Idaho</b>	<b>8,316</b>	<b>9,472</b>	<b>9,586</b>	<b>+114</b>	<b>+1%</b>

**Oak Ridge**

Salaries and Benefits	13,592	12,505	12,630	+125	+1%
Travel	59	145	145	+0	0%
Support Services	3,103	2,828	2,885	+57	+2%
Other Related Expenses	1,723	1,930	1,970	+40	+2%
<b>Total, Oak Ridge</b>	<b>18,477</b>	<b>17,408</b>	<b>17,630</b>	<b>+222</b>	<b>+1%</b>

**Portsmouth/Paducah Project Office**

Salaries and Benefits	10,740	9,964	10,064	+100	+1%
Travel	124	228	235	+7	+3%
Support Services	2,458	3,825	3,905	+80	+2%
Other Related Expenses	2,920	4,150	4,235	+85	+2%
<b>Total, Portsmouth/Paducah Project Office</b>	<b>16,242</b>	<b>18,167</b>	<b>18,439</b>	<b>+272</b>	<b>+1%</b>

**Richland**

Salaries and Benefits	34,216	30,567	30,873	+306	+1%
Travel	78	255	260	+5	+2%
Support Services	1,623	1,599	1,630	+31	+2%
Other Related Expenses	6,241	4,458	4,550	+92	+2%
<b>Total, Richland</b>	<b>42,158</b>	<b>36,879</b>	<b>37,313</b>	<b>+434</b>	<b>+1%</b>

**Environmental Management/  
Program Direction****FY 2027 Congressional Justification**

**River Protection**

Salaries and Benefits	19,129	17,201	17,373	+172	+1%
Travel	56	234	240	+6	+3%
Support Services	1,078	1,209	1,235	+26	+2%
Other Related Expenses	2,528	3,282	3,350	+68	+2%
<b>Total, River Protection</b>	<b>22,791</b>	<b>21,926</b>	<b>22,198</b>	<b>+272</b>	<b>+1%</b>

**Savannah River**

Salaries and Benefits	33,784	26,043	26,303	+260	+1%
Travel	92	256	260	+4	+2%
Support Services	0	0	0	+0	0%
Other Related Expenses	996	2,507	2,560	+53	+2%
<b>Total, Savannah River</b>	<b>34,872</b>	<b>28,806</b>	<b>29,123</b>	<b>+317</b>	<b>+1%</b>

**Small Sites**

Salaries and Benefits	5,077	4,437	4,481	+44	+1%
Travel	59	104	125	+21	+20%
Support Services	482	660	675	+15	+2%
Other Related Expenses	139	554	650	+96	+17%
<b>Total, Small Sites</b>	<b>5,757</b>	<b>5,755</b>	<b>5,931</b>	<b>+176</b>	<b>+3%</b>

**Environmental Management/  
Program Direction****FY 2027 Congressional Justification**

**Nevada Site Office**

Salaries and Benefits	2,508	2,327	2,350	+23	+1%
Travel	19	55	55	+0	0%
Support Services	0	150	155	+5	+3%
Other Related Expenses	83	185	190	+5	+3%
<b>Total, Nevada Site Office</b>	<b>2,610</b>	<b>2,717</b>	<b>2,750</b>	<b>+33</b>	<b>+1%</b>

**Los Alamos Site Office**

Salaries and Benefits	4,477	5,113	5,164	+51	+1%
Travel	33	100	100	+0	0%
Support Services	0	600	615	+15	+3%
Other Related Expenses	106	292	300	+8	+3%
<b>Total, Los Alamos Site Office</b>	<b>4,616</b>	<b>6,105</b>	<b>6,179</b>	<b>+74</b>	<b>+1%</b>

**Field Sites**

Salaries and Benefits	142,992	126,645	127,911	+1,266	+1%
Travel	876	2,006	2,065	+59	+3%
Support Services	9,572	12,542	12,805	+263	+2%
Other Related Expenses	15,277	19,474	20,265	+791	+4%
<b>Total, Field Sites</b>	<b>168,717</b>	<b>160,667</b>	<b>163,046</b>	<b>+2,379</b>	<b>+1%</b>

**Environmental Management/  
Program Direction****FY 2027 Congressional Justification**

**Headquarters Operations**

Salaries and Benefits	88,571	82,064	58,798	-23,266	-28%
Travel	509	1,657	1,690	+33	+2%
Support Services	21,183	24,448	24,940	+492	+2%
Other Related Expenses	2,061	1,500	2,945	+1,445	+96%
<b>Total, HQ Operations</b>	<b>112,324</b>	<b>109,669</b>	<b>88,373</b>	<b>-21,296</b>	<b>-19%</b>

**Headquarters Working Capital Fund**

Other Related Expenses	11,146	11,146	13,687	+2,541	+23%
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**Consolidated Business Center**

Salaries and Benefits	29,244	24,943	25,192	+249	+1%
Travel	156	340	340	+0	0%
Support Services	3,445	3,055	3,120	+65	+2%
Other Related Expenses	1,860	2,998	3,560	+562	+19%
<b>Total, Consolidated Business Center</b>	<b>34,705</b>	<b>31,336</b>	<b>32,212</b>	<b>+876</b>	<b>+3%</b>

**Enviromental Management**

Salaries and Benefits	260,808	233,652	211,901	-21,751	-9%
Travel	1,541	4,003	4,095	+92	+2%
Support Services	34,200	40,045	40,865	+820	+2%
Other Related Expenses	30,344	35,118	40,457	+5,339	+15%
<b>Total, Enviromental Management</b>	<b>326,893</b>	<b>312,818</b>	<b>297,318</b>	<b>-15,500</b>	<b>-5%</b>
<b>Full Time Equivalent</b>	<b>1,214</b>	<b>1,000</b>	<b>970</b>	<b>-30</b>	<b>-3%</b>

**Support Services and Other Related Expenses**

	<b>FY 2025 Enacted</b>	<b>FY 2026 Enacted</b>	<b>FY 2027 Request</b>	<b>FY 2027 Request vs FY 2026 Enacted</b>
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**Support Services**

Technical Support

Feasibility of Design Considerations	2,579	3,000	3,000	+0
System Definition	72	100	100	+0
Economic and Environmental Analysis	4,266	5,500	5,500	+0
Test and Evaluation Studies	71	100	100	+0
Surveys or Reviews of Technical Operations	7,535	9,600	10,010	+410

**Environmental Management/  
Program Direction**

**FY 2027 Congressional Justification**

	<b>FY 2025 Enacted</b>	<b>FY 2026 Enacted</b>	<b>FY 2027 Request</b>	<b>FY 2027 Request vs FY 2026 Enacted</b>
Total, Technical Support	14,523	18,300	18,710	+410
Management Support				
Directives Management Studies	1,169	1,244	1,244	+0
Automatic Data Processing	5,086	5,545	5,545	+0
Training and Education	285	285	285	+0
Analysis of DOE Management Processes	2,178	2,000	2,000	+0
Reports and Analyses Management and General Administrative Support	10,959	12,671	13,081	+410
Total, Management Support	19,677	21,745	22,155	+410
<b>Total, Support Services</b>	34,200	40,045	40,865	+820
<b>Other Related Expenses</b>				
Rent to GSA	5,916	5,650	5,950	+300
Rent to Others	1,000	1,200	1,250	+50
Communication, Utilities, Misc.	2,456	2,700	2,900	+200
Printing and Reproduction	8	8	8	+0
Other Services	5,576	8,564	10,242	+1,678

**Environmental Management/  
Program Direction**

**FY 2027 Congressional Justification**

	<b>FY 2025 Enacted</b>	<b>FY 2026 Enacted</b>	<b>FY 2027 Request</b>	<b>FY 2027 Request vs FY 2026 Enacted</b>
Training	600	1,150	1,200	+50
Purchases from Gov. Accounts	100	100	100	+0
Operation and Maintenance of Equipment	336	500	600	+100
Supplies and Materials	250	500	520	+20
Equipment	2,956	3,600	4,000	+400
Working Capital Fund	11,146	11,146	13,687	+2,541
<b>Total, Other Related Expenses</b>	<b>30,344</b>	<b>35,118</b>	<b>40,457</b>	<b>+5,339</b>

**Program Direction (PBS: HQ-PD-0100)**

**Activities and Explanation of Changes**

<b>FY 2026 Enacted</b>	<b>FY 2027 Request</b>	<b>Explanation of Changes - FY 2027 Request vs FY 2026 Enacted</b>
<b>\$301,672,000</b>	<b>\$283,631,000</b>	<b>-\$18,041,000</b>
<b>Salaries and Benefits</b>	<b>\$233,652,000</b>	<b>\$211,901,000</b>
<b>-\$21,751,000</b>	<ul style="list-style-type: none"> <li>• Supports Federal salaries and benefits for EM's full-time equivalent level.</li> </ul>	<ul style="list-style-type: none"> <li>• Supports Federal salaries and benefits for EM's full-time equivalent level.</li> <li>• Decrease is based on projected payroll requirements.</li> </ul>
<b>Travel</b>	<b>\$4,003,000</b>	<b>\$4,095,000</b>
<b>+\$92,000</b>	<ul style="list-style-type: none"> <li>• Supports costs of transportation of persons, subsistence of travelers, incidental travel</li> </ul>	<ul style="list-style-type: none"> <li>• The Request funds costs of transportation of persons, subsistence of travelers, incidental</li> <li>• No significant change.</li> </ul>

expenses, as well as funding to support permanent change of duty station in accordance with federal travel regulations. In addition, travel costs associated for detail assignments at EM sites and training and participation at professional conferences.	travel expenses, as well as funding to support permanent change of duty station in accordance with federal travel regulations. In addition, travel costs associated for detail assignments at EM sites.
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<b>Support Services</b>	<b>\$40,045,000</b>	<b>\$40,865,000</b>	<b>+\$820,000</b>
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|---|---|---|
| <ul style="list-style-type: none"> <li>Supports services in the areas of administrative, procurement, and human capital support; technical oversight support; information technology to support new systems; operation and maintenance of equipment; and operation and maintenance of facilities occupied by EM staff.</li> </ul> | <ul style="list-style-type: none"> <li>The Request will fund services in the areas of administrative, procurement, and human capital support; technical oversight support; information technology to support modernization of current systems; operation and maintenance of equipment; and operation and maintenance of facilities occupied by EM staff.</li> </ul> | <ul style="list-style-type: none"> <li>Increase supports escalation for contractor services.</li> </ul> |
|---|---|---|

<b>Other Related Expenses</b>	<b>\$23,972,000</b>	<b>\$26,770,000</b>	<b>+\$2,798,000</b>
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|--|--|--|
| <ul style="list-style-type: none"> <li>Funds fixed requirements associated with rent, utilities, and telecommunications; building and grounds maintenance; computer/video maintenance and support; information technology equipment leases, purchases, and maintenance.</li> </ul> | <ul style="list-style-type: none"> <li>The Request will fund fixed requirements associated with rent, utilities, and telecommunications; building and grounds maintenance; computer/video maintenance and support; information technology equipment leases, purchases, and maintenance.</li> </ul> | <ul style="list-style-type: none"> <li>Increase for cyber costs, information technology integration and upgrades, Federal moves and space adjustments due to return to work. Also supports system licenses.</li> </ul> |
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**WCF Program Direction (PBS: HQ-PDWCF-0100)**

**Activities and Explanation of Changes**

<b>FY 2026 Enacted</b>	<b>FY 2027 Request</b>	<b>Explanation of Changes - FY 2027 Request vs FY 2026 Enacted</b>
<b>\$11,146,000</b>	<b>\$13,687,000</b>	<b>+\$2,541,000</b>

<b>Working Capital Fund</b>	<b>\$11,146,000</b>	<b>\$13,687,000</b>	<b>+\$2,541,000</b>
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- |  |  |   |
|--|--|---|
| <ul style="list-style-type: none"> <li>Funds EM’s share of the Working Capital Fund in Program Direction’s other related expenses for services such as building occupancy, corporate business systems, corporate training services, health services, overseas presence, supply, and telecommunications.</li> </ul> | <ul style="list-style-type: none"> <li>The Request funds EM’s share of the Working Capital Fund in Program Direction’s other related expenses for services such as building occupancy, corporate business systems, corporate training services, health services, overseas presence, supply, telecommunications, and human resources information technology.</li> </ul> | <ul style="list-style-type: none"> <li>Increase for corporate business systems, overseas presence, and telecommunications.</li> </ul> |
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**Environmental Management  
Facilities Maintenance and Repair**

The Department’s Facilities Maintenance and Repair activities are tied to its programmatic missions, goals, and objectives. The Facilities Maintenance and Repair activities funded by this budget and displayed below are intended to halt asset condition degradation.

**Costs for Direct-Funded Maintenance and Repair (including Deferred Maintenance Reduction)**  
(\$K)

	FY2025 Actual Cost	FY2025 Planned Cost	FY2026 Planned Cost	FY2027 Planned Cost
Carlsbad	46,651	14,241	23,171	20,000
Idaho National Laboratory	40,994	39,728	48,050	50,800
Moab	229	563	574	293
Oak Ridge	71,332	67,835	62,829	73,372
Pacific Northwest National Laboratory	0	0	0	0
Paducah	31,598	30,294	32,022	31,858
Portsmouth	36,668	50,079	41,191	36,492
Richland Operations Office	110,320	220,200	253,800	259,438
Office of River Protection	155,480	154,300	213,200	216,900
Savannah River	360,168	219,608	278,080	301,978
<b>Total, Direct-Funded Maintenance and Repair</b>	<b>853,440</b>	<b>796,848</b>	<b>952,917</b>	<b>991,131</b>

**Costs for Indirect-Funded Maintenance and Repair (including Deferred Maintenance Reduction)**  
(\$K)

	FY2025 Actual Cost	FY2025 Planned Cost	FY2026 Planned Cost	FY2027 Planned Cost
Carlsbad	0	0	0	0
Idaho National Laboratory	0	0	0	0
Moab	0	0	0	0
Oak Ridge	0	0	0	0
Pacific Northwest National Laboratory	7,811	16,429	16,249	16,249
Paducah	0	0	0	0
Portsmouth	0	0	0	0
Richland Operations Office	0	0	0	0
Office of River Protection	0	0	0	0
Savannah River	0	61,999 <sup>a</sup>	0 <sup>b</sup>	0
<b>Total, Indirect-Funded Maintenance and Repair</b>	<b>7,811</b>	<b>78,428</b>	<b>16,249</b>	<b>16,249</b>

<sup>a</sup> Funds transferred to NNSA in the PSO transfer from EM to NNSA.

<sup>b</sup> Reflects final approval of the transfer to NNSA.

**Environmental Management Research and Development  
Research and Development (\$K)**

	FY 2025 Enacted	FY 2026 Enacted	FY 2027 Request	FY 2027 Request vs FY 2026 Enacted
Basic	0	0	0	+0
Applied	12,728	6,373	6,439	+66
Development	25,841	12,939	13,073	+134
Subtotal, R&D	<hr/> 38,569	<hr/> 19,312	<hr/> 19,512	<hr/> +200
Equipment	0	0	0	+0
Construction	0	0	0	+0
<b>Total, R&amp;D</b>	<hr/> <b>38,569</b>	<hr/> <b>19,312</b>	<hr/> <b>19,512</b>	<hr/> <b>+200</b>

**Environmental Management  
Small Business Innovation Research/Small Business Technology Transfer (SBIR/STTR)**

	FY 2025 Enacted	FY 2026 Enacted	FY 2027 Request	FY 2027 Request vs FY 2026 Enacted
Technology Development and Deployment				
SBIR	1,298	584	584	+0
STTR	0	0	0	+0
Oak Ridge				
SBIR	110	120	128	+7
STTR	0	0	0	+0
<b>Total, SBIR</b>	<hr/> <b>1,408</b>	<hr/> <b>705</b>	<hr/> <b>712</b>	<hr/> <b>+7</b>
<b>Total, STTR</b>	<hr/> <b>0</b>	<hr/> <b>0</b>	<hr/> <b>0</b>	<hr/> <b>+0</b>

**Safeguards and Security by Activity (\$K)**

	FY 2025 Enacted	FY 2026 Enacted	FY 2027 Request	FY 2027 Request vs FY 2026 Enacted	
				\$	%
<b>Carlsbad</b>					
Protective Forces	6,956	6,490	6,548	+58	+1%
Physical Security Systems	1,126	0	0	+0	+0%
Security Investigations	100	0	0	+0	+0%
Program Management	430	0	0	+0	+0%
<b>Subtotal, Carlsbad</b>	<b>8,612</b>	<b>6,490</b>	<b>6,548</b>	<b>+58</b>	<b>+1%</b>
Cyber Security	6,697	4,412	4,452	+40	+1%
<b>Total, Carlsbad</b>	<b>15,309</b>	<b>10,902</b>	<b>11,000</b>	<b>+98</b>	<b>+1%</b>
<b>Oak Ridge</b>					
Protective Forces	4,100	3,481	4,100	+619	+18%
Physical Security Systems	3,030	4,160	3,030	-1,130	-27%
Information Security	915	1,292	915	-377	-29%
Personnel Security	655	1,659	655	-1,004	-61%
Security Investigations	240	287	240	-47	-16%
Material Control and Accountability	445	496	445	-51	-10%
Program Management	525	525	525	+0	+0%
<b>Subtotal, Oak Ridge</b>	<b>9,910</b>	<b>11,900</b>	<b>9,910</b>	<b>-1,990</b>	<b>-17%</b>
Cyber Security	4,090	2,100	7,090	+4,990	+238%
<b>Total, Oak Ridge</b>	<b>14,000</b>	<b>14,000</b>	<b>17,000</b>	<b>+3,000</b>	<b>+21%</b>
<b>Paducah</b>					
Protective Forces	4,603	4,265	7,976	+3,711	+87%
Physical Security Systems	1,171	1,995	1,228	-767	-38%
Information Security	2,650	2,206	1,023	-1,183	-54%
Personnel Security	582	596	610	+14	+2%
Security Investigations	192	197	203	+6	+3%
Material Control and Accountability	697	817	840	+23	+3%
Security Infrastructure/Construction	1,188	1,157	936	-221	-19%

**Environmental Management**

**FY 2027 Congressional Justification**

	FY 2025 Enacted	FY 2026 Enacted	FY 2027 Request	FY 2027 Request vs FY 2026 Enacted	
				\$	%
Program Management	2,646	1,931	1,562	-369	-19%
<b>Subtotal, Paducah</b>	<b>13,729</b>	<b>13,164</b>	<b>14,378</b>	<b>+1,214</b>	<b>+9%</b>
Cyber Security	3,181	3,270	4,050	+780	+24%
<b>Total, Paducah</b>	<b>16,910</b>	<b>16,434</b>	<b>18,428</b>	<b>+1,994</b>	<b>+12%</b>
<b>Portsmouth</b>					
Protective Forces	7,838	6,944	8,968	+2,024	+29%
Physical Security Systems	1,035	981	720	-261	-27%
Information Security	1,331	1,032	974	-58	-6%
Personnel Security	871	819	853	+34	+4%
Security Investigations	168	182	177	-5	-3%
Material Control and Accountability	-	847	750	-97	-11%
Program Management	1,110	877	1,046	+169	+19%
<b>Subtotal, Portsmouth</b>	<b>12,353</b>	<b>11,682</b>	<b>13,488</b>	<b>+1,806</b>	<b>+15%</b>
Cyber Security	5,410	5,581	5,743	+162	+3%
<b>Total, Portsmouth</b>	<b>17,763</b>	<b>17,263</b>	<b>19,231</b>	<b>+1,968</b>	<b>+11%</b>
<b>Richland</b>					
Protective Forces	65,300	65,300	66,002	+702	+1%
Physical Security Systems	9,610	9,110	9,831	+721	+8%
Information Security	1,700	1,700	2,154	+454	+27%
Personnel Security	5,117	5,117	9,586	+4,469	+87%
Security Investigations	1,057	1,057	1,348	+291	+28%
Material Control and Accountability	1,777	1,277	2,443	+1,166	+91%
Program Management	11,120	9,120	10,560	+1,440	+16%
<b>Subtotal, Richland</b>	<b>95,681</b>	<b>92,681</b>	<b>101,924</b>	<b>+9,243</b>	<b>+10%</b>
Cyber Security	24,085	27,085	28,076	+991	+4%
<b>Total, Richland</b>	<b>119,766</b>	<b>119,766</b>	<b>130,000</b>	<b>+10,234</b>	<b>+9%</b>
<b>Savannah River</b>					
Protective Forces	105,524	24,082	22,023	-2,059	-9%
Physical Security Systems	15,986	5,524	5,172	-352	-6%

**Environmental Management**

**FY 2027 Congressional Justification**

	FY 2025 Enacted	FY 2026 Enacted	FY 2027 Request	FY 2027 Request vs FY 2026 Enacted	
				\$	%
Information Security	2,562	885	829	-56	-6%
Personnel Security	8,317	2,874	2,690	-184	-6%
Security Investigations	69	24	22	-2	-8%
Material Control and Accountability	5,439	1,880	1,760	-120	-6%
Program Management	12,433	2,585	2,585	+0	+0%
Transportation	228	79	74	-5	-6%
Site Indirect	0	8,498	14,166	+5,668	+67%
Normal Cost	0	509	509	+0	+0%
<b>Subtotal, Savannah River</b>	<b>150,558</b>	<b>46,940</b>	<b>49,830</b>	<b>+2,890</b>	<b>+6%</b>
Cyber Security	19,442	23,654	25,005	+1,351	+6%
<b>Total, Savannah River</b>	<b>170,000</b>	<b>70,594</b>	<b>74,835</b>	<b>+4,241</b>	<b>+6%</b>
<b>Los Alamos National Laboratory</b>					
Protective Forces	0	0	0	+0	+0%
Physical Security Systems	0	0	0	+0	+0%
Information Security	0	0	0	+0	+0%
Personnel Security	0	0	0	+0	+0%
Security Investigations	0	0	0	+0	+0%
Material Control and Accountability	0	0	0	+0	+0%
Security Infrastructure/Construction	0	0	0	+0	+0%
Program Management	0	0	0	+0	+0%
<b>Subtotal, Los Alamos National Laboratory</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>+0</b>	<b>+0%</b>
Cyber Security	5,000	956	2,000	+1,044	+109%
<b>Total, Los Alamos National Laboratory</b>	<b>5,000</b>	<b>956</b>	<b>2,000</b>	<b>+1,044</b>	<b>+109%</b>
<b>Mission Support</b>					
Program Management	0	0	0	+0	+0%
<b>Subtotal, Mission Support</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>+0</b>	<b>+0%</b>
Cyber Security	21,089	2,496	11,000	+8,504	+341%
<b>Total, Mission Support</b>	<b>21,089</b>	<b>2,496</b>	<b>11,000</b>	<b>+8,504</b>	<b>+341%</b>

**West Valley Demonstration Project**

**Environmental Management**

**FY 2027 Congressional Justification**

	FY 2025 Enacted	FY 2026 Enacted	FY 2027 Request	FY 2027 Request vs FY 2026 Enacted	
				\$	%
Protective Forces	6,239	5,138	5,466	+328	+6%
Program Management	729	599	617	+18	+3%
<b>Subtotal, West Valley Demonstration Project</b>	<b>6,968</b>	<b>5,737</b>	<b>6,083</b>	<b>+346</b>	<b>+6%</b>
Cyber Security	840	1,852	1,905	+53	+3%
<b>Total, West Valley Demonstration Project</b>	<b>7,808</b>	<b>7,589</b>	<b>7,988</b>	<b>+399</b>	<b>+5%</b>
<b>Total, Safeguards and Security</b>	<b>387,645</b>	<b>260,000</b>	<b>291,482</b>	<b>+31,482</b>	<b>+12%</b>

**Safeguards and Security (\$K)**

	FY 2025 Enacted	FY 2026 Enacted	FY 2027 Request	FY 2027 Request vs FY 2026 Enacted	
				\$	%
Protective Forces	200,560	115,700	121,083	+5,383	+5%
Physical Security Systems	31,958	21,770	19,981	-1,789	-8%
Information Security	9,158	7,115	5,895	-1,220	-17%
Personnel Security	15,542	11,065	14,394	+3,329	+30%
Security Investigations	1,826	1,747	1,990	+243	+14%
Material Control and Accountability	8,358	5,317	6,238	+921	+17%
Security Infrastructure/Construction	1,188	1,157	936	-221	-19%
Program Management	28,993	15,637	16,895	+1,258	+8%
Transportation	228	79	74	-5	-6%
Site Indirect	0	8,498	14,166	+5,668	+67%
Normal Cost	0	509	509	+0	+0%
<b>Subtotal, Safeguards and Security</b>	<b>297,811</b>	<b>188,594</b>	<b>202,161</b>	<b>+13,567</b>	<b>+7%</b>
Cyber Security	89,834	71,406	89,321	+17,915	+25%
<b>Total, Safeguards and Security</b>	<b>387,645</b>	<b>260,000</b>	<b>291,482</b>	<b>+31,482</b>	<b>+12%</b>

**DEPARTMENT OF ENERGY**  
**Funding by Site Detail**  
Environmental Management - FY 2027

**TAS\_0251 - Defense Environmental Cleanup - FY 2027**  
**(Dollars in Thousands)**

	FY 2025 Enacted	FY 2026 Enacted	FY 2027 Request
<b>Carlsbad Area Office</b>			
Program Direction - Defense Environmental Cleanup	12,879	13,432	13,897
Safeguards and Security - Defense Environmental Cleanup	15,309	10,902	11,000
<b>Total Carlsbad Area Office</b>	<b>28,188</b>	<b>24,334</b>	<b>24,897</b>
<b>Consolidated Business Center</b>			
Closure Sites Administration	750	300	300
Program Direction - Defense Environmental Cleanup	40,462	37,091	38,143
<b>Total Consolidated Business Center</b>	<b>41,212</b>	<b>37,391</b>	<b>38,443</b>
<b>East Tennessee Technology Park (K25)</b>			
Safeguards and Security - Defense Environmental Cleanup	14,000	14,000	17,000
<b>Total East Tennessee Technology Park (K25)</b>	<b>14,000</b>	<b>14,000</b>	<b>17,000</b>
<b>Fernald Environmental Management Project</b>			
Closure Sites Administration	500	100	100
<b>Total Fernald Environmental Management Project</b>	<b>500</b>	<b>100</b>	<b>100</b>
<b>Hanford Site</b>			
River Corridor and Other Cleanup Operations	155,000	151,000	69,000
Central Plateau Remediation	797,000	843,772	795,124
22-D-401 Eastern Plateau Fire Station	13,500	3,900	0
22-D-402 L-897, 200 Area Water Treatment Facility	7,800	1,000	0
23-D-405 181B Export Water System Reconfiguration and Upgrade	1,168	0	0
24-D-401 Environmental Restoration Disposal Facility Supercell 11 Expansion Proj	25,000	35,000	0
26-D-403, 200E Potable Water Tank Replacement	0	6,518	0
Construction - Richland	47,468	46,418	0
Richland	999,468	1,041,190	864,124
Safeguards and Security - Defense Environmental Cleanup	119,766	119,766	130,000
<b>Total Hanford Site</b>	<b>1,119,234</b>	<b>1,160,956</b>	<b>994,124</b>
<b>Idaho National Laboratory</b>			
Idaho Cleanup and Waste Disposition	435,006	485,000	472,726
Idaho Community and Regulatory Support	2,705	3,779	3,295

**DEPARTMENT OF ENERGY**  
**Funding by Site Detail**  
Environmental Management - FY 2027

	FY 2025 Enacted	FY 2026 Enacted	FY 2027 Request
22-D-403 Idaho Spent Nuclear Fuel Staging Facility	2,000	2,000	2,000
22-D-404 Additional ICDF Landfill Disposal Cell and Evaporation Ponds Project	39,300	0	0
23-D-402 - Calcine Construction	2,000	2,000	2,000
Construction - Idaho	43,300	4,000	4,000
Idaho National Laboratory (INL)	481,011	492,779	480,021
<b>Total Idaho National Laboratory</b>	<b>481,011</b>	<b>492,779</b>	<b>480,021</b>
<b>Idaho Operations Office</b>			
Program Direction - Defense Environmental Cleanup	8,316	9,472	9,586
<b>Total Idaho Operations Office</b>	<b>8,316</b>	<b>9,472</b>	<b>9,586</b>
<b>Lawrence Livermore National Laboratory</b>			
Lawrence Livermore National Laboratory (LLNL)	1,879	1,955	1,955
NNSA Sites and Nevada Off-Sites	1,879	1,955	1,955
<b>Total Lawrence Livermore National Laboratory</b>	<b>1,879</b>	<b>1,955</b>	<b>1,955</b>
<b>Los Alamos National Laboratory</b>			
Los Alamos National Laboratory (LANL)	285,831	278,288	293,937
Los Alamos Excess Facilities D&D	13,648	1,693	0
NNSA Sites and Nevada Off-Sites	299,479	279,981	293,937
Safeguards and Security - Defense Environmental Cleanup	5,000	956	2,000
<b>Total Los Alamos National Laboratory</b>	<b>304,479</b>	<b>280,937</b>	<b>295,937</b>
<b>Nevada Field Office</b>			
Program Direction - Defense Environmental Cleanup	2,610	2,717	2,750
<b>Total Nevada Field Office</b>	<b>2,610</b>	<b>2,717</b>	<b>2,750</b>
<b>Nevada Operations Office</b>			
Nevada Site	5,177	3,000	5,176
NNSA Sites and Nevada Off-Sites	5,177	3,000	5,176
<b>Total Nevada Operations Office</b>	<b>5,177</b>	<b>3,000</b>	<b>5,176</b>
<b>Nevada National Security Site</b>			
Nevada Site	58,200	61,835	59,659
NNSA Sites and Nevada Off-Sites	58,200	61,835	59,659
<b>Total Nevada National Security Site</b>	<b>58,200</b>	<b>61,835</b>	<b>59,659</b>
<b>NNSA Albuquerque Complex</b>			
Program Direction - Defense Environmental Cleanup	4,616	6,105	6,179
<b>Total NNSA Albuquerque Complex</b>	<b>4,616</b>	<b>6,105</b>	<b>6,179</b>

**Environmental Management**

**FY 2027 Congressional Justification**

**DEPARTMENT OF ENERGY**  
**Funding by Site Detail**  
Environmental Management - FY 2027

	FY 2025 Enacted	FY 2026 Enacted	FY 2027 Request
<b>Oak Ridge National Laboratory</b>			
OR Nuclear Facility D&D	385,673	400,000	289,297
U233 Disposition Program	60,000	63,000	70,000
Oak Ridge (OR)	445,673	463,000	359,297
<b>Total Oak Ridge National Laboratory</b>	<b>445,673</b>	<b>463,000</b>	<b>359,297</b>
<b>Oak Ridge Office</b>			
Program Direction - Defense Environmental Cleanup	18,477	17,408	17,630
<b>Total Oak Ridge Office</b>	<b>18,477</b>	<b>17,408</b>	<b>17,630</b>
<b>Oak Ridge Reservation</b>			
OR Cleanup and Waste Disposition	72,000	75,000	85,800
Oak Ridge (OR)	72,000	75,000	85,800
<b>Total Oak Ridge Reservation</b>	<b>72,000</b>	<b>75,000</b>	<b>85,800</b>
<b>Oak Ridge Reservation (Off-Site)</b>			
OR Community and Regulatory Support	5,500	5,900	5,100
Oak Ridge (OR)	5,500	5,900	5,100
<b>Total Oak Ridge Reservation (Off-Site)</b>	<b>5,500</b>	<b>5,900</b>	<b>5,100</b>
<b>Office of River Protection</b>			
Waste Treatment Immobilization Plant Commissioning	165,003	480,000	466,000
Rad Liquid Tank Waste Stabilization and Disposition	847,065	994,000	984,000
01-D-16D High-Level Waste Facility	600,000	611,585	330,000
15-D-409 Low Activity Waste Pretreatment System	37,500	50,000	75,000
18-D-16 Waste treatment and immobilization plant - LBL/Direct Feed LAW	250,000	0	0
23-D-403, Hanford 200 West Area Tank Farms Risk Management Project	37,809	37,500	90,000
Construction - Office of River Protection	925,309	699,085	495,000
Office of River Protection (ORP)	1,937,377	2,173,085	1,945,000
Program Direction - Defense Environmental Cleanup	22,791	21,926	22,198
<b>Total Office of River Protection</b>	<b>1,960,168</b>	<b>2,195,011</b>	<b>1,967,198</b>
<b>Paducah Gaseous Diffusion Plant</b>			
Program Direction - Defense Environmental Cleanup	16,242	18,167	18,439
Safeguards and Security - Defense Environmental Cleanup	16,910	16,434	18,428
<b>Total Paducah Gaseous Diffusion Plant</b>	<b>33,152</b>	<b>34,601</b>	<b>36,867</b>

**DEPARTMENT OF ENERGY**  
**Funding by Site Detail**  
Environmental Management - FY 2027

**Portsmouth Gaseous Diffusion Plant**

Safeguards and Security - Defense Environmental Cleanup	17,763	17,263	19,231
<b>Total Portsmouth Gaseous Diffusion Plant</b>	<b>17,763</b>	<b>17,263</b>	<b>19,231</b>

**Richland Operations Office**

Richland Community and Regulatory Support	11,130	10,700	12,000
Richland	11,130	10,700	12,000
Program Direction - Defense Environmental Cleanup	42,158	36,879	37,313
<b>Total Richland Operations Office</b>	<b>53,288</b>	<b>47,579</b>	<b>49,313</b>

**Rocky Flats Site**

Closure Sites Administration	100	100	100
<b>Total Rocky Flats Site</b>	<b>100</b>	<b>100</b>	<b>100</b>

**Sandia Field Office**

Sandia National Laboratory (SNL)	2,264	1,030	1,030
NNSA Sites and Nevada Off-Sites	2,264	1,030	1,030
<b>Total Sandia Field Office</b>	<b>2,264</b>	<b>1,030</b>	<b>1,030</b>

**Savannah River National Laboratory**

Savannah River National Laboratory Operations & Maintenance	42,000	100,719	90,719
Savannah River Sites	42,000	100,719	90,719
<b>Total Savannah River National Laboratory</b>	<b>42,000</b>	<b>100,719</b>	<b>90,719</b>

**Savannah River Operations Office**

SR Community and Regulatory Support	12,389	5,317	5,450
Savannah River Sites	12,389	5,317	5,450
Program Direction - Defense Environmental Cleanup	34,872	28,806	29,123
Safeguards and Security - Defense Environmental Cleanup	170,000	70,594	74,835
<b>Total Savannah River Operations Office</b>	<b>217,261</b>	<b>104,717</b>	<b>109,408</b>

**Savannah River Site**

Savannah River Risk Management Operations	472,422	396,394	465,620
19-D-701 SR Security Systems Replacement	0	708	0
Construction - Savannah River Risk Management Operations	0	708	0
Total, Savannah River Risk Management Operations	472,422	397,102	465,620
Radioactive Liquid Tank Waste Stabilization and Disposition	1,066,000	1,112,955	1,066,000
20-D-401 Saltstone Disposal Unit #10, 11, 12	56,250	82,500	82,500
Construction - Savannah River Sites	56,250	82,500	82,500

**DEPARTMENT OF ENERGY**  
**Funding by Site Detail**  
Environmental Management - FY 2027

Savannah River Sites	1,594,672	1,592,557	1,614,120
<b>Total Savannah River Site</b>	<b>1,594,672</b>	<b>1,592,557</b>	<b>1,614,120</b>
<b>Separations Process Research Unit</b>			
Separations Processing Research Unit	1,300	950	950
NNSA Sites and Nevada Off-Sites	1,300	950	950
<b>Total Separations Process Research Unit</b>	<b>1,300</b>	<b>950</b>	<b>950</b>
<b>Washington Headquarters</b>			
Program Direction - Defense Environmental Cleanup	123,470	120,815	102,060
Program Support - Defense Environmental Cleanup	17,504	20,320	20,320
Safeguards and Security - Defense Environmental Cleanup	21,089	2,496	11,000
Technology Development and Deployment	35,569	16,012	16,012
<b>Total Washington Headquarters</b>	<b>197,632</b>	<b>159,643</b>	<b>149,392</b>
<b>Waste Isolation Pilot Plant</b>			
Waste Isolation Pilot Plant (WIPP)	447,320	410,000	400,020
15-D-411 Safety Significant Confinement Ventilation System, WIPP	1,000	0	0
15-D-412 Utility Shaft, WIPP	1,200	0	0
21-D-401 Hoisting Capability Project	40,000	0	72,000
Construction - Waste Isolation Pilot Plant	42,200	0	72,000
WIPP Community and Regulatory Support	0	10,000	0
Total Waste Isolation Pilot Plant	489,520	420,000	472,020
<b>Total Waste Isolation Pilot Plant</b>	<b>489,520</b>	<b>420,000</b>	<b>472,020</b>
<b>West Valley Demonstration Project</b>			
Safeguards and Security - Defense Environmental Cleanup	7,808	7,589	7,988
<b>Total West Valley Demonstration Project</b>	<b>7,808</b>	<b>7,589</b>	<b>7,988</b>
<b>Y-12 Field Office</b>			
14-D-403 Outfall 200 Mercury Treatment Facility	44,000	0	0
17-D-401 On-site Waste Disposal Facility	10,000	54,885	57,828
Construction - Oak Ridge	54,000	54,885	57,828
OR Technology Development and Deployment	3,000	3,300	3,500
Oak Ridge (OR)	57,000	58,185	61,328
<b>Total Y-12 Field Office</b>	<b>57,000</b>	<b>58,185</b>	<b>61,328</b>
<b>Total Funding by Site for TAS_0251 - Defense Environmental Cleanup</b>	<b>7,285,000</b>	<b>7,396,833</b>	<b>6,983,318</b>

**DEPARTMENT OF ENERGY**  
**Funding by Site Detail**  
Environmental Management - FY 2027

**TAS\_0315 - Non-Defense Environmental Cleanup - FY 2027**  
**(Dollars in Thousands)**

	FY 2025 Enacted	FY 2026 Enacted	FY 2027 Request
<b>Energy Technology Engineering Center</b>			
Small Sites - NDEC	10,000	10,000	10,000
<b>Total Energy Technology Engineering Center</b>	<b>10,000</b>	<b>10,000</b>	<b>10,000</b>
<b>Hanford Site</b>			
Fast Flux Test Reactor Facility (WA)	3,200	3,200	3,200
<b>Total Hanford Site</b>	<b>3,200</b>	<b>3,200</b>	<b>3,200</b>
<b>Idaho National Laboratory</b>			
Small Sites - NDEC	11,500	12,500	12,500
<b>Total Idaho National Laboratory</b>	<b>11,500</b>	<b>12,500</b>	<b>12,500</b>
<b>Moab Site</b>			
Small Sites - NDEC	74,420	64,265	64,265
<b>Total Moab Site</b>	<b>74,420</b>	<b>64,265</b>	<b>64,265</b>
<b>Paducah Gaseous Diffusion Plant</b>			
Gaseous Diffusion Plants	76,317	70,416	80,804
<b>Total Paducah Gaseous Diffusion Plant</b>	<b>76,317</b>	<b>70,416</b>	<b>80,804</b>
<b>Portsmouth Gaseous Diffusion Plant</b>			
Gaseous Diffusion Plants	71,683	72,110	77,841
<b>Total Portsmouth Gaseous Diffusion Plant</b>	<b>71,683</b>	<b>72,110</b>	<b>77,841</b>
<b>Washington Headquarters</b>			
Management and Storage of Elemental Mercury	5,000	0	0
<b>Total Washington Headquarters</b>	<b>5,000</b>	<b>0</b>	<b>0</b>
<b>West Valley Demonstration Project</b>			
West Valley Demonstration Project - NDEC	89,880	89,880	89,880
<b>Total West Valley Demonstration Project</b>	<b>89,880</b>	<b>89,880</b>	<b>89,880</b>
<b>Total Funding by Site for TAS_0315 - Non-Defense Environmental Cleanup</b>	<b>342,000</b>	<b>322,371</b>	<b>338,490</b>

**DEPARTMENT OF ENERGY**  
**Funding by Site Detail**  
Environmental Management - FY 2027

**Defense Uranium Enrichment D&D Fund - FY 2027**  
(Dollars in Thousands)

	FY 2025 Enacted	FY 2026 Enacted	FY 2027 Request
<b>Undesignated LPI</b>			
Defense Uranium Enrichment D&D Program	285,000	0	253,000
<b>Total Undesignated LPI</b>	<b>285,000</b>	<b>0</b>	<b>253,000</b>
<b>Total Funding by Site for Defense Uranium Enrichment D&amp;D Fund</b>	<b>285,000</b>	<b>0</b>	<b>253,000</b>

**TAS\_5231 - Uranium Enrichment Decontamination and Decommissioning Fund - FY 2027**  
(Dollars in Thousands)

	FY 2025 Enacted	FY 2026 Enacted	FY 2027 Request
<b>East Tennessee Technology Park (K25)</b>			
Oak Ridge (D&D Fund)	91,000	75,000	65,000
Pension and Community and Regulatory Support	9,792	10,115	10,115
<b>Total East Tennessee Technology Park (K25)</b>	<b>100,792</b>	<b>85,115</b>	<b>75,115</b>
<b>Paducah Gaseous Diffusion Plant</b>			
Nuclear Facility D&D, Paducah	247,552	240,209	270,707
Joppa Power Plant D&D	0	0	50
Pension and Community and Regulatory Support	2,838	2,895	3,609
<b>Total Paducah Gaseous Diffusion Plant</b>	<b>250,390</b>	<b>243,104</b>	<b>274,366</b>
<b>Portsmouth Gaseous Diffusion Plant</b>			
26-U-401 Administrative Support Building	0	41,000	0
Construction - Paducah	0	41,000	0
Nuclear Facility D&D, Portsmouth	418,258	453,106	480,480
20-U-401 On-site Waste Disposal Facility (Cell Line 2&3)	82,000	30,125	15,000
25-U-401 On Site Waste Disposal Facility Liner Buildout and Final Cover Systems	0	3,875	1,000
Construction - Portsmouth	82,000	34,000	16,000
Pension and Community and Regulatory Support	3,560	3,560	3,507
<b>Total Portsmouth Gaseous Diffusion Plant</b>	<b>503,818</b>	<b>531,666</b>	<b>499,987</b>
<b>Washington Headquarters</b>			
Title X Uranium Thorium Reimbursement Program	0	5,115	5,115
<b>Total Washington Headquarters</b>	<b>0</b>	<b>5,115</b>	<b>5,115</b>
<b>Total Funding by Site for TAS_5231 - Uranium Enrichment Decontamination and Decommissioning Fund</b>	<b>855,000</b>	<b>865,000</b>	<b>854,583</b>