

# Environmental Management Completed Projects 2005-Present



**EM** Environmental Management

safety ❖ performance ❖ cleanup ❖ closure



Photos of decontamination and decommissioning of the Heavy Water Components Test Reactor at the Savannah River Site (from ENERGY.GOV's Photostream at <http://www.flickr.com/photos/departmentofenergy/>).

In order to promote transparency with stakeholders and the public, the Office of Environmental Management (EM) is posting key project management information. This web page provides the list of completed EM cleanup projects from various sites across the country from 2005 to present, along with the each project's performance related to cost, schedule, and scope.

The EM cleanup projects address large quantities of radioactive wastes, spent nuclear fuel, excess plutonium and uranium, thousands of contaminated facilities, and contaminated soil and groundwater resulting from five decades of nuclear weapons production and energy research during the Cold War.

The EM cleanup projects fall into several categories including soil and water remediation, ground water remediation, solid waste stabilization and disposition, nuclear and non-nuclear decommissioning and demolition. In each of these cleanup categories, EM has to complete a series of individual projects at the various sites. The cleanup at a site is broken into multiple individual projects with a well-defined scope, schedule, and cost.

The table below shows the individual projects EM has completed in each category at each site. At many sites, additional projects are ongoing or will be needed in the future to finish the cleanup in each category.

The table highlights the projected costs, actual costs, projected completion dates, and actual completion dates. The EM projects were completed through October 21, 2013 with the following success metrics:

- 95 percent (82 of 86 projects) completed all scope defined at project start
- 90 percent (77 of 86 projects) completed on schedule
- 83 percent (71 of 86 projects) completed within 10 percent of project budget

## Environmental Management Completed Projects 2005-Present

Site	Category	Project Name	Notes	Approved Budget \$M	Actual Cost \$M	Completion Date (Calendar Year)		Cost Success?	Schedule Success?	Completed Scope?
						Approved	Actual			
Argonne National Laboratory, IL	Soil and Water Remediation	Soil and Water Remediation ANLE-0030	a	\$ 28	\$ 30	2007	2007			
	Nuclear Facility Deactivation and Decommissioning	Nuclear Facility Deactivation and Decommissioning ANLE-0040		\$ 18	\$ 14	2009	2010			
		Nuclear Facility Decontamination and Decommissioning Building 310 ANLE-0040.NEW.R1.1		\$ 13	\$ 8	2011	2011			
		Nuclear Facility D & D Building 330 ANLE-0040.NEW.R1.2		\$ 34	\$ 15	2011	2011			
Ashtabula, OH	Soil and Water Remediation	Soil and Water Remediation OH-AB-0030	a	\$ 157	\$ 147	2006	2006			
Brookhaven National Lab, NY	Soil and Water Remediation	Soil and Water Remediation BRNL-0030	a	\$ 196	\$ 202	2005	2005			
	Nuclear Facility Decontamination and Decommissioning	Nuclear Facility Decontamination and Decommissioning-Brookhaven Graphite Research Reactor		\$ 54	\$ 74	2012	2012			
		Nuclear Facility Decontamination and Decommissioning-High Flux Beam Reactor BRNL-0041		\$ 12	\$ 15	2012	2010			
Columbus (West Jefferson), OH	Nuclear Facility Decontamination and Decommissioning	Nuclear Facility Decontamination and Decommissioning OH-CL-0040	a	\$ 163	\$ 163	2006	2006			
Fernald, OH	Solid Waste Stabilization and Disposition	Solid Waste Stabilization and Disposition OH-FN-0013	a	\$ 1,489	\$ 1,599	2006	2006			
	Soil and Water Remediation	Soil and Water Remediation OH-FN-0030	a	\$ 1,110	\$ 1,069	2006	2006			
	Nuclear Facility Decontamination and Decommissioning	Non-Nuclear Facility Decontamination and Decommissioning OH-FN-0050	a	\$ 512	\$ 234	2006	2006			
Idaho National Laboratory, ID	Nuclear Materials Stabilization and Disposition	Nuclear Materials Stabilization and Disposition ID-0011		\$ 35	\$ 13	2012	2010			
	Construction Line Item Project	Sodium Bearing Waste Treatment Plant 06-D-401		\$ 462	\$ 571	2010	2012			
	Soil and Water Remediation	Soil and Water Remediation - 2012 - Idaho ID-0030B.C1		\$ 743	\$ 548	2012	2012			
		Accelerated Retrieval Project VIII ID-0030B/C-C003		\$ 49	\$ 38	2013	2013			
		Buried Waste ID-0030B.R1.1		\$ 75	\$ 64	2011	2011			
		In-Situ Grouting ID-0030B.R1.2		\$ 23	\$ 7	2011	2011			
Nuclear Facility Decontamination and Decommissioning	Nuclear Facility Decontamination and Decommissioning - INL ID-0040B		\$ 753	\$ 356	2012	2012				

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Inhalation Toxicology Lab, NM	Soil and Water Remediation	Soil and Water Remediation CBC-ITL-0030	a	\$ 8	\$ 11	2006	2008			
Kansas City Plant, MO	Soil and Water Remediation	Soil and Water Remediation VL-KCP-0030	a	\$ 29	\$ 28	2006	2006			
Lab for Energy Related Health Research, CA	Nuclear Facility Decontamination and Decommissioning	Nuclear Facility Decontamination and Decommissioning LEHR-0040	a	\$ 41	\$ 38	2005	2005			
Lawrence-Livermore National Lab, CA	Solid Waste Stabilization and Disposition	Solid Waste Stabilization and Disposition LLNL-0013	a	\$ 74	\$ 72	2006	2005			
	Soil and Water Remediation	Soil and Water Remediation LLNL-0030	a	\$ 123	\$ 123	2006	2005			
		Soil and Groundwater Remediation Project, Site 300 VL-LLNL-0031	a, c	\$ 54	\$ 125	2008	2010			
Lawrence-Berkeley National Lab, CA	Soil and Water Remediation	Soil and Water Remediation CBC-LBNL-0030	a	\$ 34	\$ 34	2006	2007			
Los Alamos Site Office, NM	Nuclear Facility Decontamination and Decommissioning	Decontamination and Decommissioning of the Tritium Systems and Test Assembly (TSTA) Facility, Capital Asset		\$ 15	\$ 14	2010	2010			
	Soil and Water Remediation	DP Site - MDA-B LANL-0030.R1.1		\$ 111	\$ 132	2012	2013			
		Defense Soil and Groundwater - Groundwater Wells LANL-0030.R1.2		\$ 45	\$ 37	2012	2011			
	Nuclear Facility Decontamination and Decommissioning	Defense Decontamination and Decommissioning - TA-21 LANL-0040-D.R1		\$ 74	\$ 49	2012	2011			
Moab UMTRA Project, UT	Soil and Water Remediation	Uranium Mill Tailings Remediation Project (UMTRA) CBC-MOAB-0031.C1		\$ 41	\$ 39	2012	2010			
Mound, OH	Solid Waste Stabilization and Disposition	Solid Waste Stabilization and Disposition OH-MB-0013	a	\$ 202	\$ 265	2006	2006			
	Soil and Water Remediation	Soil and Water Remediation OH-MB-0030	a	\$ 164	\$ 250	2006	2006			
		Soil and Water Remediation - OU-1 OH-MB-0031		\$ 34	\$ 43	2008	2011			
		Mound OU-1 OH-MB-0031-NEW.R1		\$ 20	\$ 18	2011	2011			
		Nuclear Facility Decontamination and Decommissioning	Nuclear Facility Decontamination and Decommissioning OH-MB-0040	a	\$ 484	\$ 505	2006	2006		
Nevada Test Site, NV	Solid Waste Stabilization and Disposition	Solid Waste Stabilization and Disposition VL-NV-0013		\$ 30	\$ 29	2008	2009			

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Oak Ridge, TN	Construction Line Item Project	U-233 Disposition Project - Building 3019 OR-0011Z		\$ 240	\$ 225	2020	2011			
	Solid Waste Stabilization and Disposition	Solid Waste Stabilization and Disposition OR-0013	a	\$ 461	\$ 465	2006	2006			
	Soil and Water Remediation	Soil and Water Remediation OR-0030	a	\$ 352	\$ 351	2006	2006			
		Soil and Water Remediation - Offsites OR-0031	a	\$ 13	\$ 11	2012	2010			
	Nuclear Facility Decontamination and Decommissioning	Zone 1 Remedial Action OR-0040.C2		\$ 19	\$ 19	2017	2011			
		ETTP Main Plant Area Decontamination and Decommissioning Facilities OR-0040.C3		\$ 19	\$ 11	2017	2011			
		K-27 Demolition Preparation Project OR-0040.R1.1		\$ 27	\$ 26	2012	2011			
		K-33 Demolition Project OR-0040.R1.2		\$ 65	\$ 58	2012	2012			
		K-33 Slab & Soils Buy Back OR-0040.R1.3		\$ 23	\$ 14	2012	2013			
		Cell 6 Expansion OR-0041.C1		\$ 31	\$ 22	2012	2011			
		Disposal Facility Expansion - Cell 5 OR-0041.R1.3		\$ 13	\$ 9	2011	2011			
		Disposal Facility Expansion--Sanitary Landfill OR-0041.R1.4		\$ 11	\$ 9	2012	2011			
		Y-12 Biology Complex Decontamination and Decommissioning OR-0041.NEW.R1.2		\$ 30	\$ 14	2011	2011			
		Tank W1A OR-0042.C1.1		\$ 48	\$ 51	2012	2012			
		Facility Demolition Building 3026/Wooden Facilities OR-0042.R1.2		\$ 13	\$ 12	2011	2011			
Bethel Valley Burial Grounds OR-0042.R1.5			\$ 16	\$ 18	2011	2011				
Facility Demolition-Small Facilities OR-0042.R1.6			\$ 11	\$ 12	2012	2012				
Non-Defense Facility Demolition - 2000 Complex OR-0042.NEW.R2.2		\$ 13	\$ 9	2011	2011					
Office of River Protection, WA	Solid Waste Stabilization and Disposition	SY-Farm Transfer Line Upgrade ORP-0014.R1.5		\$ 18	\$ 15	2011	2011			

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Pantex Plant, NM	Soil and Water Remediation	Soil and Water Remediation VL-PX-0030	a, c	\$ 168	\$ 186	2008	2010			
	Nuclear Facility Decontamination and Decommissioning	Nuclear Facility Decontamination and Decommissioning VL-PX-0040	a, c	\$ 18	\$ 15	2007	2007			
Portsmouth Paducah Project Office (PPPO), KY and OH	Construction Line Item Project	Depleted Uranium Hexafluoride Conversion Project (DUF6) Portsmouth & Paducah 02-U-101		\$ 346	\$ 580	2008	2010			
	Nuclear Facility Decontamination and Decommissioning	Nuclear Facility Decontamination and Decommissioning - Paducah Gaseous Diffusion Plant PA-0040.C1		\$ 30	\$ 35	2012	2012			
		C-746-A East End Smelter Project PA-0040.R1.3		\$ 32	\$ 19	2011	2011			
		C-340 Complex Decontamination and Decommissioning PA-0040.R1.2		\$ 36	\$ 36	2011	2011			
Richland, WA	Soil and Water Remediation	Groundwater Remedy Implementation for 200-ZP-1 and 100 DX Treatment Systems RL-0030.C		\$ 385	\$ 336	2011	2012			
	Nuclear Facility Decontamination and Decommissioning	U Plant/Other Decontamination and Decommissioning RL-0040.R1.1		\$ 257	\$ 206	2011	2012			
		Outer Zone Decontamination and Decommissioning RL-0040.R1.2		\$ 115	\$ 89	2011	2011			
		100 K Area Remediation RL-0041.R1.1		\$ 203	\$ 188	2012	2011			
		ERDF Cell Expansion RL-0041.R1.2		\$ 56	\$ 48	2012	2011			
		Accelerated Remediation & Disposal RL-0041.R1.3		\$ 89	\$ 49	2012	2011			
		Super Cell 10 RL-0041.R1.4		\$ 36	\$ 29	2012	2011			
		618-10 Trench Remediation RL-0041.R2		\$ 72	\$ 57	2012	2011			
		Trench Remediation 618-10 RL-0041.R3		\$ 20	\$ 20	2012	2012			
Rocky Flats, CO	Nuclear Materials Stabilization and Disposition	NM Stabilization and Disposition RF-0011	b	\$ 7,500	\$ 6,707	2006	2005			
	Solid Waste Stabilization and Disposition	Solid Waste Stabilization and Disposition RF-0013	b			2006	2005			
	Nuclear Facility Decontamination and Decommissioning	Nuclear Facility Decontamination and Decommissioning-North Side Facility Closures RF-0040	b			2006	2005			
		Nuclear Facility Decontamination and Decommissioning-South Side Facility Closures RF-0041	b			2006	2005			

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						Approved	Actual				
Savannah River Site, SC	Radioactive Liquid Tank Waste Stabilization and Disposition	Saltstone Disposal Unit 2 SR-0014.C3.1		\$ 32	\$ 33	2012	2012	<span style="color: green;">G</span>	<span style="color: green;">G</span>	<span style="color: green;">G</span>	
		Saltstone Disposal Units 3&5 SR-0014.C3.2		\$ 77	\$ 69	2014	2013	<span style="color: green;">G</span>	<span style="color: green;">G</span>	<span style="color: green;">G</span>	
	Soil and Water Remediation	P-Area Ash Basin Remedial Action Project SR-0030.R1.3		\$ 30	\$ 18	2011	2011	<span style="color: green;">G</span>	<span style="color: green;">G</span>	<span style="color: green;">G</span>	
		R-Area Ash Basin Remedial Action Project SR-0030.R1.5		\$ 12	\$ 10	2011	2011	<span style="color: green;">G</span>	<span style="color: green;">G</span>	<span style="color: green;">G</span>	
	Nuclear Facility Decontamination and Decommissioning	P Reactor Decommissioning Project SR-0030.R1.2		\$ 142	\$ 81	2012	2012	<span style="color: green;">G</span>	<span style="color: green;">G</span>	<span style="color: green;">G</span>	
		R-Reactor Decommissioning Project SR-0030.R1.4		\$ 149	\$ 78	2012	2012	<span style="color: green;">G</span>	<span style="color: green;">G</span>	<span style="color: green;">G</span>	
		Heavy Water Components Test Reactor Building Decommissioning SR-0030.R3.2		\$ 11	\$ 8	2011	2011	<span style="color: green;">G</span>	<span style="color: green;">G</span>	<span style="color: green;">G</span>	
Sandia National Laboratory, NM	Soil and Water Remediation	Soil and Water Remediation VL-SN-0030	a, c	\$ 50	\$ 59	2006	2010	<span style="color: red;">R</span>	<span style="color: red;">R</span>	<span style="color: green;">G</span>	
Separations Process Reactor Unit, NY	Soil and Water Remediation	Contaminated Soil Removal - North Field SPRU-0040.R1.2		\$ 15	\$ 13	2011	2011	<span style="color: green;">G</span>	<span style="color: green;">G</span>	<span style="color: green;">G</span>	
Stanford Linear Accelerator Center, Stanford, CA	Soil and Water Remediation	Soil and Water Remediation 2 - SLAC CBC-SLAC-0030.R1		\$ 33	\$ 40	2012	2011	<span style="color: red;">R</span>	<span style="color: green;">G</span>	<span style="color: green;">G</span>	
West Valley Demonstration Project, NY	Nuclear Facility Decontamination and Decommissioning	Main Plant Decontamination and Decommissioning WV-0040.C1		\$ 46	\$ 100	2012	2011	<span style="color: red;">R</span>	<span style="color: green;">G</span>	<span style="color: red;">R</span>	
				<b>\$ 18,889</b>	<b>\$ 17,436</b>	<b>Total (of 86 Projects)</b>		<b>71</b>	<b>77</b>	<b>82</b>	
								<b>% Success</b>	<b>83%</b>	<b>90%</b>	<b>95%</b>

(a) These projects were baselined at different times and under different guidance. The cost, schedule, and scope success is measured against values reported to Congress in July 2004 by the Department of Energy's Office of Management and Budget.

(b) Rocky Flats Closure Project cost, schedule, and scope success is measured against the 2001 Closure Baseline.

(c) Projects achieved Physical Completion in 2009. Formal Project Closeout (Critical Decision-4) documentation was completed in 2010.