

GETTING THE JOB DONE

AMERICAN RECOVERY AND REINVESTMENT ACT

Ben Roberts

Idaho Recovery Act Site Representative
Office of Environmental Management
U.S. Department of Energy

Presented to:
Idaho National Laboratory
Citizen's Advisory Board



Sept. 29, 2010



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

OVERVIEW

- Key Recovery Act Objectives
- Financials
- Small Business
- Jobs
- Performance Metrics
- Footprint Reduction
- Compliance Milestones
- Worker Transition
- Challenges
- Observation and Lessons
- Summary



SECRETARY CHU'S KEY RECOVERY ACT OBJECTIVES



“We will turn this time of economic crisis into an opportunity to build a clean, secure, and prosperous energy future for America....”

—Dr. Steven Chu, Secretary of Energy

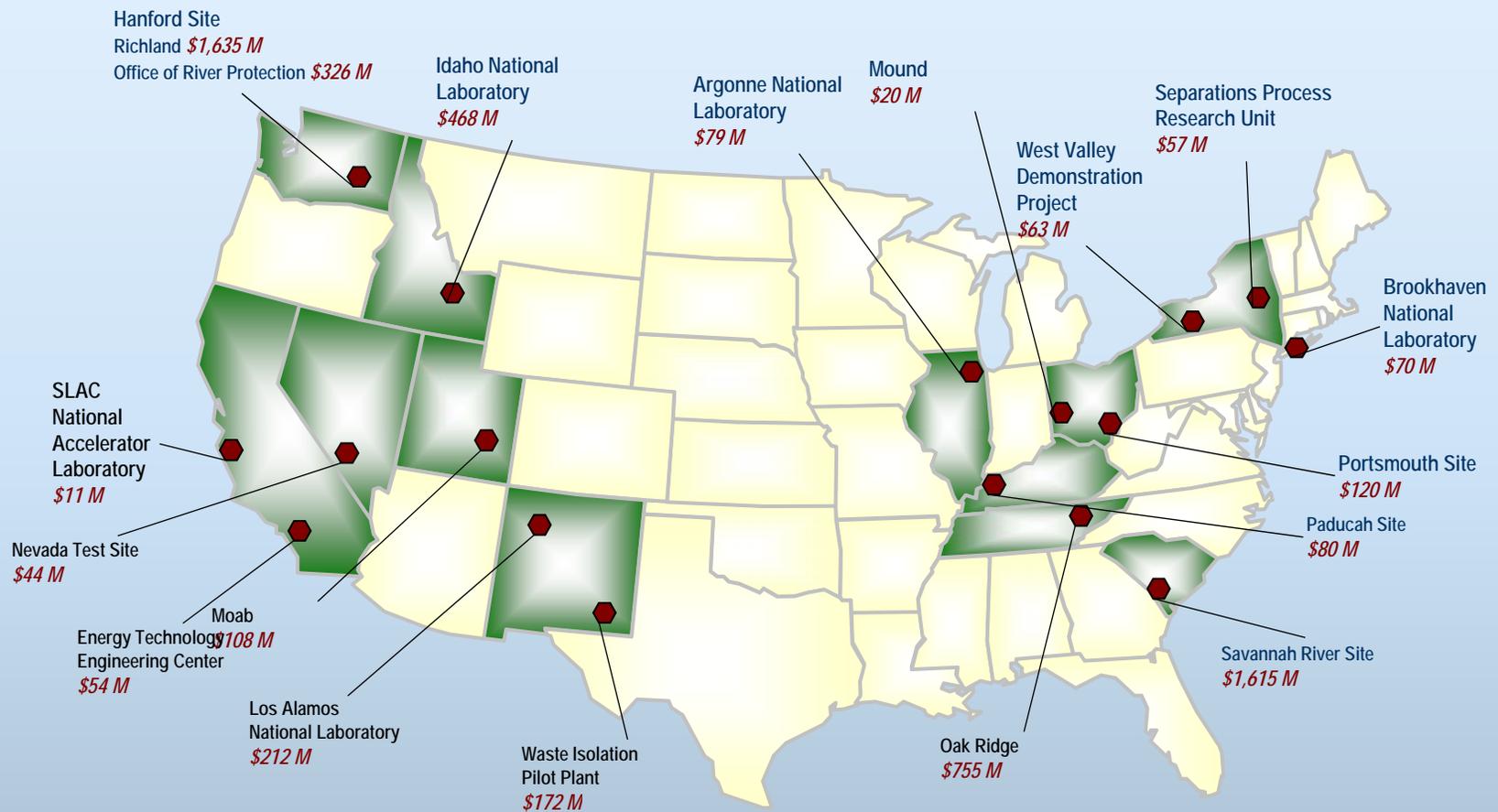
- Start projects quickly
- Ensure projects have lasting value
- Provide public with unprecedented transparency
- Make a significant down payment on the Nation's energy and environmental future



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

\$6 Billion: Looking Ahead to Communities Across the Country



12 States, 17 Sites
 Uranium/Thorium \$70 M
 Management & Oversight \$41 M



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

RECOVERY ACT FINANCIALS

- EM Recovery Act Program up and running over 16 months
- Total EM Recovery Act allocation — **\$6B**
- Obligated to contracts — **\$5.9B**
- Outlaid (Payments) to date — **\$2.7B**
- On-track to outlay \$3B by September 2010
- Majority of projects to be complete and funds spent by 2011



RECOVERY ACT FUNDING AWARDED TO SMALL BUSINESSES



Data as of end of July 2010



EM Environmental Management

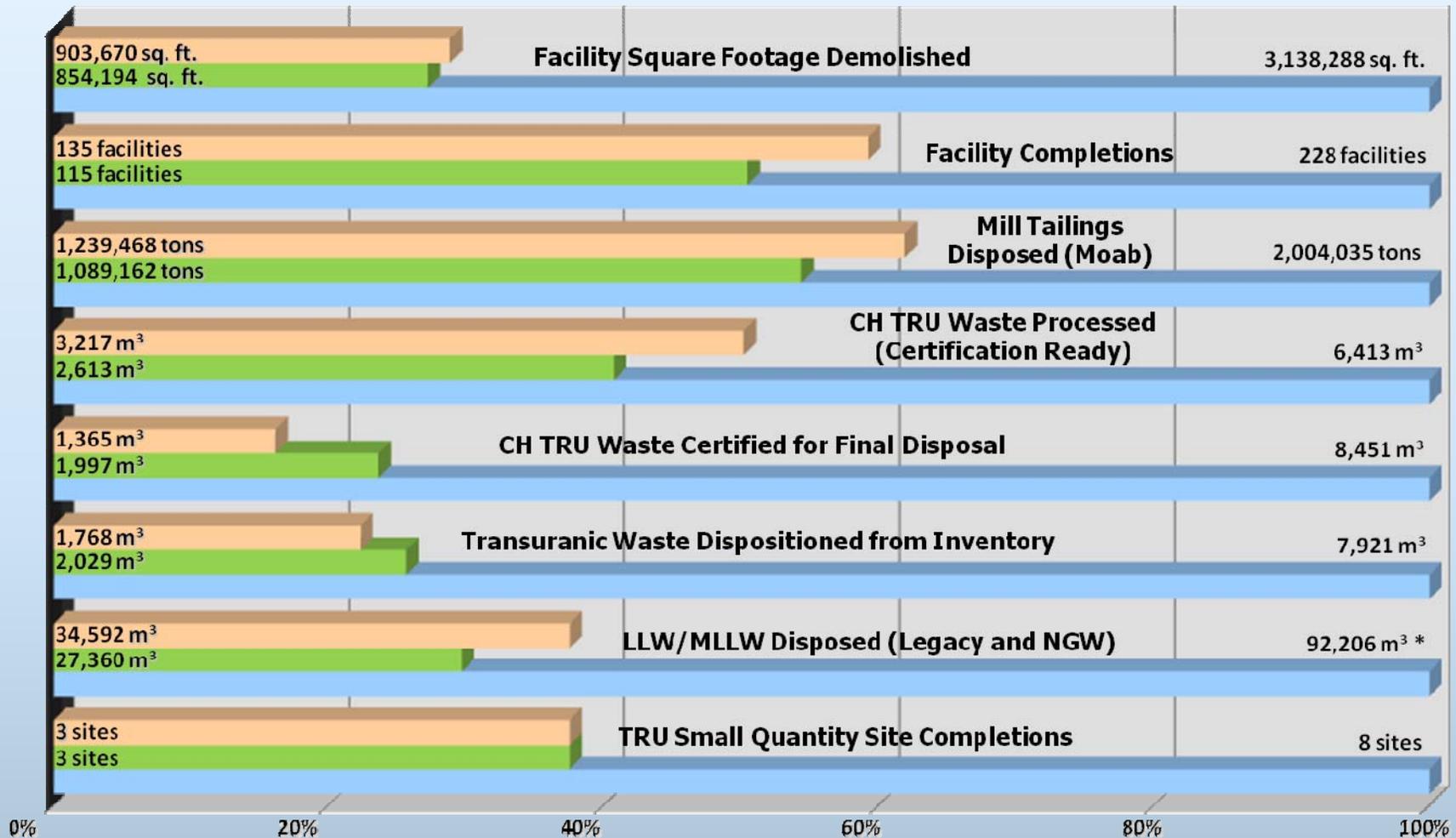
safety ❖ performance ❖ cleanup ❖ closure

RECOVERY ACT JOBS

- Prime Contractors plus Subcontractors — **10,485 FTEs**
 - As reported into Federalreporting.gov second quarter 2010 (Apr-Jun 2010)
 - On target in relation to estimated Recovery Act job numbers
- Headcount — **24,234**
 - Represents prime contractor and subcontractor workers compensated with Recovery Act funding since the start of EM Recovery Act Projects April 2009. The headcount includes full-time, part-time, and temporary workers.



RECOVERY ACT DOLLARS AT WORK



*Overall goal for LLW & MLLW Disposed increased 16,523 cubic meters, due to better estimates from Oak Ridge (CR 20100647)



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

Actual to Date (08/31/10)
 Target to Date (08/31/10)
 ARRA Total

GETTING THE JOB DONE

Performance Measure	Overall ARRA Goals (Sept. 30, 2011)	August 31, 2010 Plan	Accomplishments (as of August 31, 2010)	
Facility Square Footage Demolished (square feet)	3,138,288	854,194	903,670 (29% of goal)	= 16 football fields 
Demolition Debris and Soil Permanently Disposed (cubic meters)	1,319,047*	646,551	764,181 (58% of goal)	= 306 Olympic swimming pools 
Mill Tailings Disposed (tons)	2,004,035	1,089,162	1,239,468 62% of goal	= 8,607 rail cars 
Contact-Handled Transuranic Waste Processed (certification-ready) (cubic meters)	6,413	2,613	3,217 (50% of goal)	= 15,451 55-gal drums 
Contact-Handled Transuranic Waste Certified for Final Disposal (cubic meters)	8,451	1,997	1,365 (16% of goal)	= 468 TRUPACT IIs (6,557 55-gal drums) (156 shipments) 
Transuranic Waste Inventory Dispositioned (cubic meters)	7,921	2,029	1,768 (22% of goal)	= 8,491 55-gal drums 
Low-Level and Mixed Low-Level Waste Permanently Disposed (cubic meters)	92,206**	27,360	34,592 (38% of goal)	= 166,150 55-gal drums 

*Overall goal for D&D Debris and Soil Remediated decreased 5851 cubic meters, due to better estimates from Oak Ridge (CR 20100647)

**Overall goal for LLW & MLLW Permanently Disposed increased 16,523 cubic meters, due to better estimates from Oak Ridge (CR 20100647)



EM Environmental Management

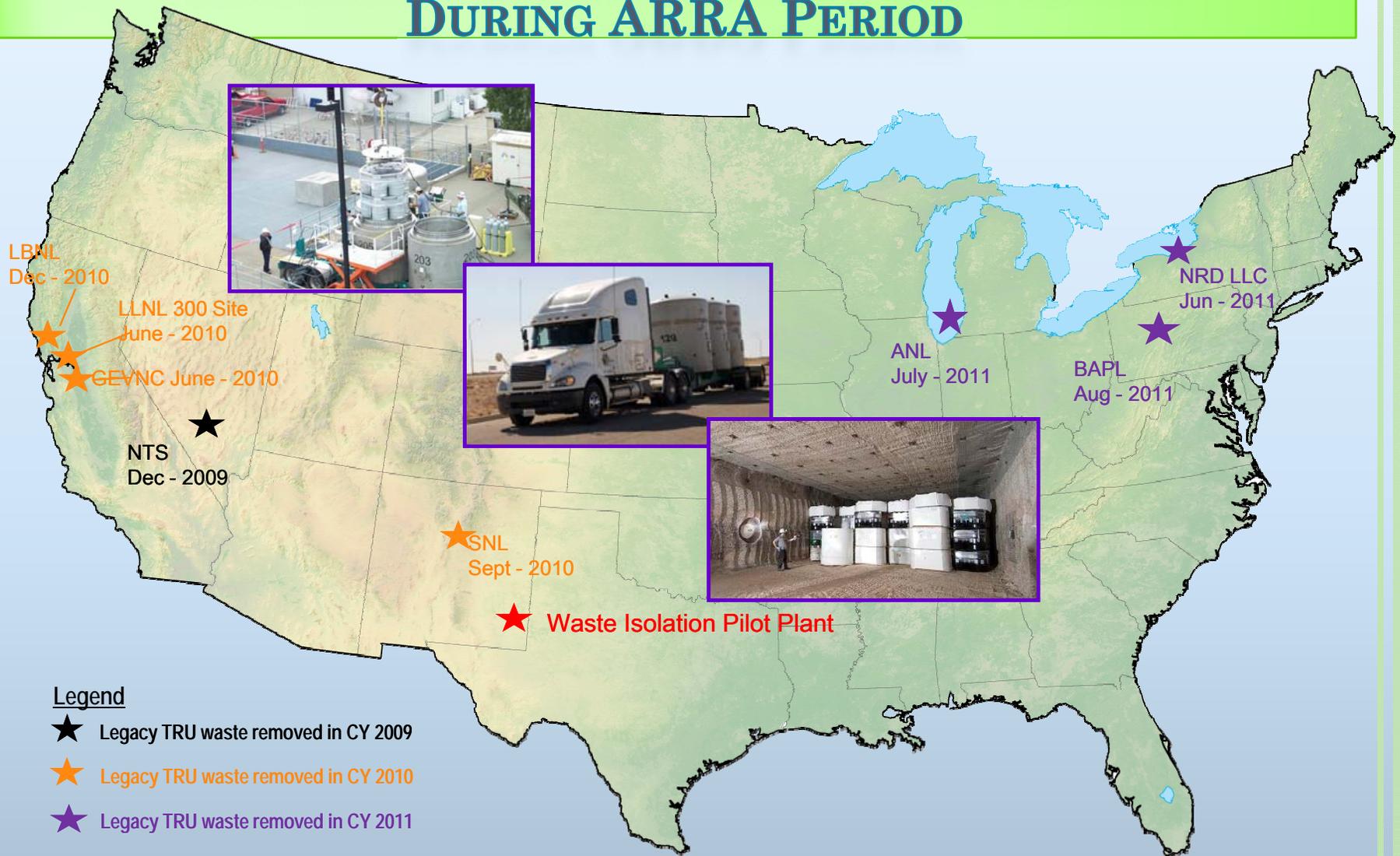
safety ❖ performance ❖ cleanup ❖ closure

ACCELERATING COMPLIANCE MILESTONES

- Approximately 40 agreements/orders in place with regulators dealing with EM's cleanup mission
- Recovery Act projects on-track to accelerate 46 compliance milestones (between 1 to 19 years)
- Already 23 of 46 milestones have been met
- A listing of accelerated milestones and states can be found at www.em.doe.gov/emrecovery



EIGHT SMALL QUANTITY SITES PROJECTED TO BE DE-INVENTORIED OF LEGACY TRU WASTE DURING ARRA PERIOD



Legend

- ★ Legacy TRU waste removed in CY 2009
- ★ Legacy TRU waste removed in CY 2010
- ★ Legacy TRU waste removed in CY 2011

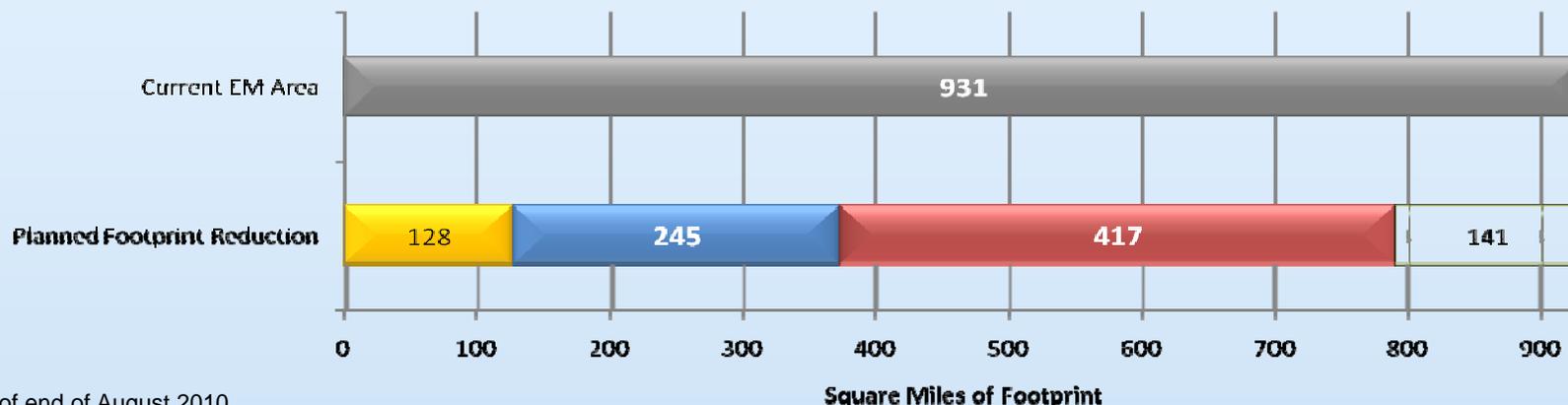


EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

HIGH PRIORITY PERFORMANCE GOAL – FOOTPRINT REDUCTION

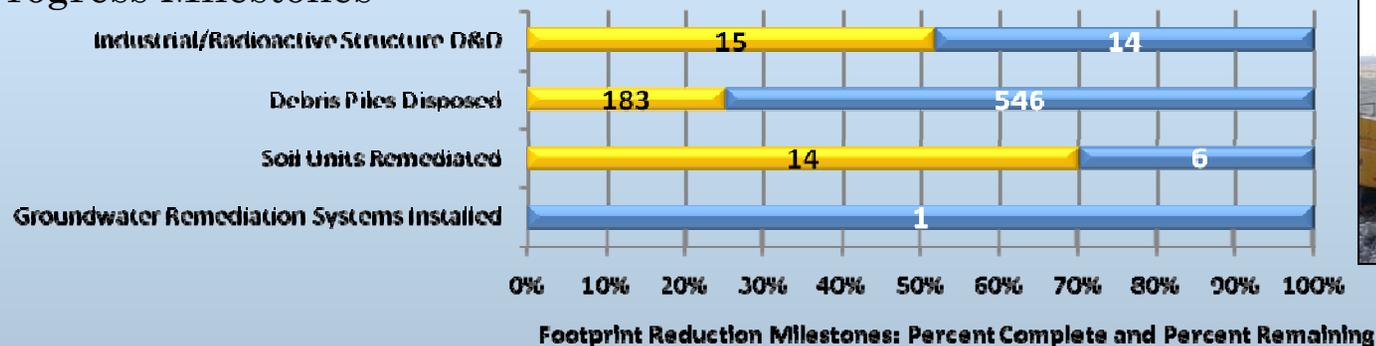
Planned Completions by Year and Site



Data as of end of August 2010

■ Actual Completed to Date
 ■ 2011 Reduction
 ■ 2015 Reduction
 ■ Remaining Area
 ■ Current EM Area

Progress Milestones



■ Actual Completed to Date
 ■ Target Remaining for Completion by End of FY 2011

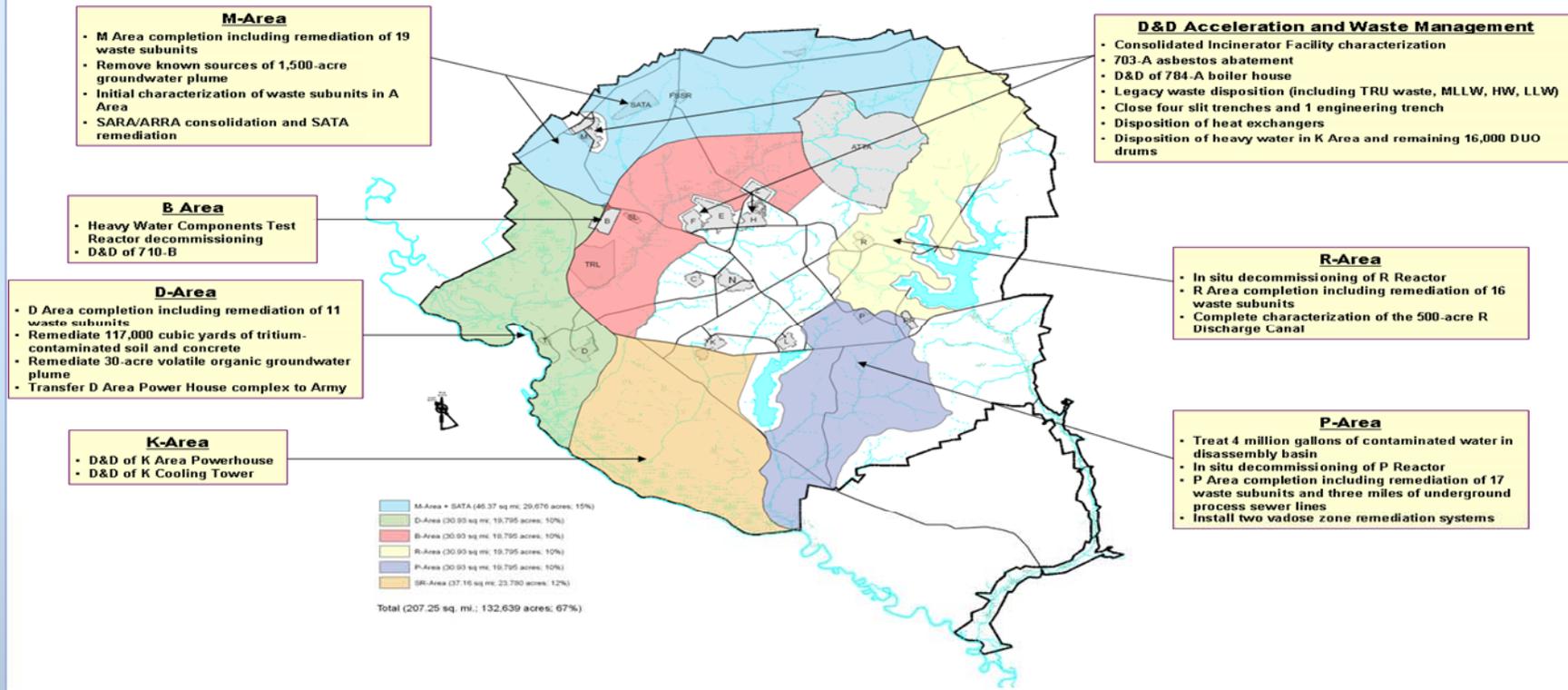


EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

SAVANNAH RIVER SITE FOOTPRINT REDUCTION ACHIEVE >50% BY 2011 AND ACHIEVE >80-90% BY 2015

SRS Foot Print Reduction Strategy Achieve Greater Than 50% Footprint Reduction by 2011



HANFORD SITE FOOTPRINT REDUCTION

ACHIEVE >50% BY 2011 AND ACHIEVE >80-90% BY 2015

2010

Excluding C-7 waste site and B Reactor Museum

- All B & C Area Interim ROD Remedial Actions Complete
- Completion of 9 sites in IU2/IU6 (Segment 1 Area) (ARRA funded)
- Goal of Footprint reduction of ~33 Square Miles

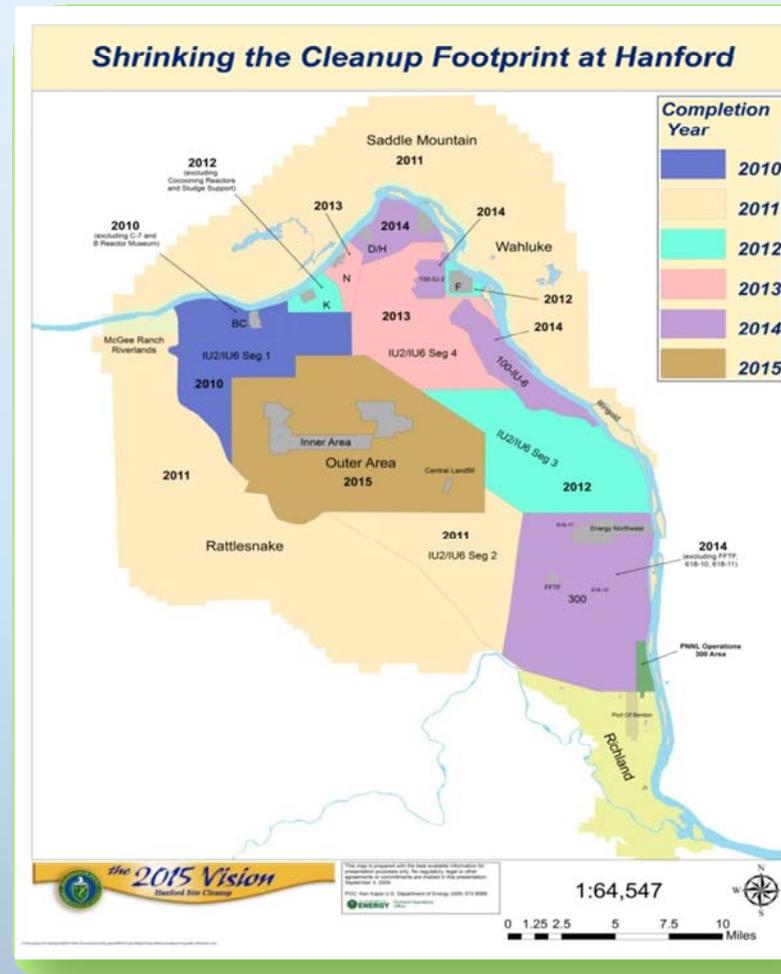
2011

- Disposition 11 Excess facilities in the Rattlesnake Area ((ARRA funded)
- Complete processing of Interim ROD Remedial Actions IU2/IU6 (Segment 2 Area)
- Cleanup of non-contaminated debris at Rattlesnake/Arid Lands Ecology Reserve
- Final closeout for waste sites in the Saddle Mountain and Wahluke Areas (ARRA funded)
- Footprint reduction of ~247 Square Miles

2012

Excluding Cocooning Reactors and sludge support

- All K Area Interim ROD Remedial Actions Complete (except K West)
- Remediation completion of 39 waste sites (ARRA funded)
- Interim ROD Remedial Actions at F Area complete
- Remediation completion of 12 waste sites at F Area
- All Interim ROD Remedial Actions IU2/IU6 (Segment 3) complete including orphan sites (ARRA funded)
- Footprint reduction of ~44 Square Miles



2013

- Interim Safe Storage of N Reactor Complete
- All N Area Final ROD Remedial Actions Complete
- Completion of ~100 waste sites at 100N
- Complete D4 on ~25 facilities at 100N
- All N Area Groundwater Remedies Implemented
- Complete Interim ROD Remedial Actions for IU2/IU6 (Segment 4) including orphan sites
- Footprint reduction of ~35 Square Miles

2014

Excluding FFTF, 618-10, 618-11 burial grounds

- Complete all D & H Area Final ROD Remedial Actions
- Implement all D & H Area Groundwater Remedies including pump and treat (ARRA funded)
- Complete 300 Area Final ROD Remedial Actions
- Complete remediation of 36 waste sites in the 300 Area
- Complete D4 of 54 facilities in the 300 Area
- Complete remediation of the 618-7 Burial Ground
- Complete all 100-IU2 & IU6 Area Final ROD Remedial Actions
- Complete remediation of 68 waste sites at 100-IU2 and 100-IU6
- Complete all 100-IU2 & 100-IU6 Area Final ROD Remedial Actions
- Footprint reduction of ~78 Square Miles

2015

- All 200 West Carbon Tetrachloride, Uranium and Technetium 99 Groundwater Remedies including P&T completed (ARRA funded)
- Remediate 24 waste sites in the 200 and 600 areas (ARRA funded)
- D4 of 18 structures (ARRA funded)
- Complete design of Non-Radioactive Dangerous Waste Landfill (NRDWL) and Solid Waste Landfill (SWL) remedies
- Footprint reduction of ~70 sq miles



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

GETTING WORK DONE

Washington (*Hanford*) *Richland Operations Office*

- **618-10 Burial Grounds.** The trenches at 618-10 have long been regarded as some of Hanford's worst waste sites. Using ARRA funds, WCH will characterize the site.
- **618-11 Burial Grounds.** Along with 618-10, the 618-11 Burial Grounds are among the biggest challenges faced by WCH using ARRA funds.
- **Waste Site Remediation.** WCH is employing ARRA funds to clean up many failed waste sites not originally part of its contract.
- **Confirmatory Sampling of other new sites.** WCH is proposing to complete the early sampling process of 66 potential waste sites using ARRA funds.

Office of River Protection

- Meeting schedule milestones for Tank/Farm upgrades for Waste Treatment and Immobilization Plant feed readiness including:
 - Electrical modifications in SY farm.
 - Removal of the 242-T HEPA exhaust filters Removal of the P-28 exhauster in SY Farm.
 - Continue fabrication of split plugs for SP & SY farms.



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

GETTING WORK DONE

Washington (*Hanford*) Cont'd.

The Environmental Restoration Disposal Facility (ERDF)

ERDF is the hub of the WCH scope of work and supports a major portion of other Hanford contractor (OHC) waste disposal. Wastes collected from sites around the Hanford complex are brought to ERDF for treatment and disposal. WCH operates the ERDF and is currently using ARRA funds to upgrade and expand its capabilities to meet the needs of Hanford's accelerating mission.



GETTING THE WORK DONE

Idaho

- Decontaminate and Decommission buildings that no longer have a useful mission.
- Accelerate removal of buried radioactive waste which will be packaged and sent to appropriate offsite disposal sites.
- Accelerate removal and disposal of remote-handled transuranic waste.
- Speed packaging, removal and offsite disposal of mixed low-level waste currently stored on site.



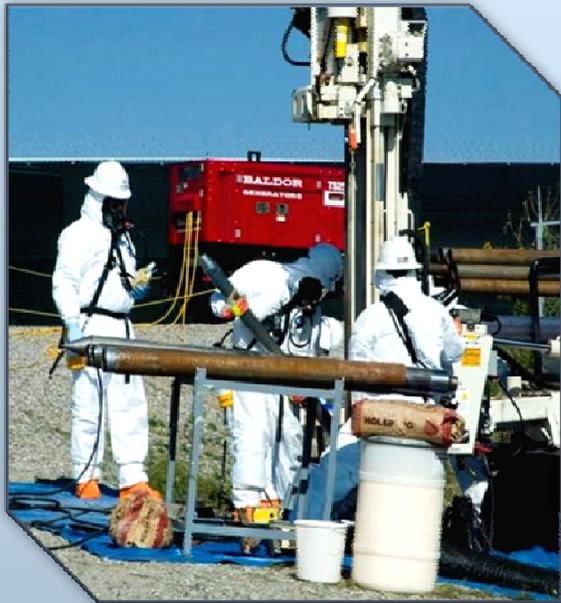
EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

GETTING THE WORK DONE

New Mexico

- **LANL (*Los Alamos National Laboratory*)**
 - Initiated Material Disposal Area-B geo-probe data collection activities.
 - Equipment Removal and waste packaging activities at the Tritium Systems Test and Assembly facility.



Core sampling at MDA B



- **WIPP (*Disposal of Transuranic Wastes*)**
 - Accelerate retrieval, treatment, and/or repackaging of legacy inventory of transuranic waste at 12 sites.
 - Allowing 11 sites to be completed by 2015 instead of 2022
 - Transport Waste to WIPP permanent disposal.
 - Completing activities early results in over \$2 billion life-cycle cost savings.



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

GETTING THE WORK DONE

Tennessee

Oak Ridge National Laboratory

- Building 3026 Wooden Superstructure:
 - Continued preparation of waste profiles
 - Began exterior siding removal
 - Began clearing pipe and equipment from face of Cell Banks 1 & 2
 - Began construction of windbreaks for vent modifications
 - Stabilized off-gas piping with acrylic
 - Utility isolations being completed by UT-B



*Activities at
ORNL
Building 3026*

East Tennessee Technology Park

- Building K-27 Pre-Demolition Activities
 - Began removal of wood/fence walls within the vaults
 - Continued removal of combustibles on the vault and cell floors
 - Conducted pre-bid walk down for the Asbestos Abatement subcontract



*Placing the
first
intermodal
for the K-27
Project*



GETTING WORK DONE

Utah/Nevada

○ Moab

- Removal of 2 million tons of mill tailings (by-product of uranium ore mining) away from the Colorado River to a new disposal cell approximately three years ahead of schedule.



○ Nevada Test Site

- Initiated demolition of the movable shed and nuclear furnace piping at the Test Cell C Facility.
- Completed drilling of the first groundwater well in Pahute Mesa.



Demolition of the movable shed and nuclear furnace piping at NTS Test Cell C Facility.



GETTING THE WORK DONE

New York

○ West Valley Demonstration Project

- WVES developed systematic approach to assessing individual qualifications and tailoring training requirements to the individuals.

○ Brookhaven National Laboratory

- Cleanup of cesium contaminated soil at the former Hazardous Waste Management Facility perimeter.

○ SPRU (Separation Process Research Unit)

- Completed design and began construction of the evaporation pond.
- Road installation completed in August 2009.
- 6 intermodal containers of waste shipped in August



Road installation completed at SPRU.

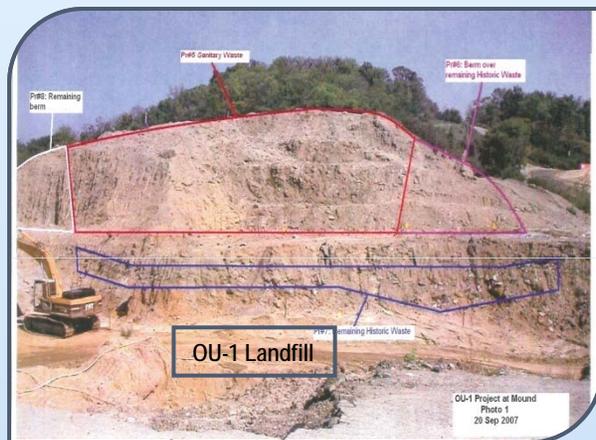


New West Valley employees participate in asbestos removal training in preparation for ACM removal in the Main Plant.



GETTING THE WORK DONE

Ohio



Mound OU-1

- Initiated excavation activities in the eastern leg of the OU-1 historic waste area.
- Estimated waste volume for transportation and disposal – approximately 10,100 cubic meters
- Footprint reduction - 9 acres allowing for 100% of the site to be transferred for economic reuse
- Projected ARRA project completion is September 2011
- Cleanup industrial reuse and economic redevelopment and the safe removal of radioactive materials and other contamination from the OU-1 landfill area.



WORKER TRANSITION

- To the extent possible, EM desires to retain pool of highly skilled labor force trained under ARRA
- Since June 2010 HQ working with sites to develop site specific worker transition plans
- HQ is ready to approve site plans and proceed with implementing worker transition activities including:
 - Job fairs and outplacement services (coordination with local & state agencies)
 - Resume' writing, interview and job skills, job search tools, and retirement counseling
- EM is working to engage contractor community to assist in supporting worker transition activities
 - Providing access to corporate and commercial industry vacancies
- Long term vision is to develop contractor employee service centers to support all EM contractor employees



CHALLENGES

- **Contract Definitization.** Goal: All ARRA activities definitized in contracts by FY 2010
- **Project Execution.** Goal: majority of ARRA projects complete by September 2011. To date, nine projects will extend in FY 2012
- **Payments.** Goal, is to outlay \$3B by end of September 2010. Working with sites and contractors to ensure timely processing of invoices
- **Critical Decision 4 (CD-4) for ARRA Projects.** Need to understand all requirements and deliverables on a site-specific basis
- **Worker Transition.**
 - Most RA funding for 10,500 jobs will cease September 2011
 - Plans for worker transition being drafted by sites
 - To extent possible, EM desires to retain pool of highly skilled labor force trained under RA
 - EM Service Centers to include job search training, access to job openings, career counseling, and community involvement



OBSERVATIONS AND LESSONS

- **Safety**
 - Even with numerous new employees, noteworthy record, keys pre-planning characterization (hazards, risks) and mentoring approach
- **Pre-Planning**
 - 2015 Strategic Initiative – on-the-shelf projects ready to go
 - Contracts ready to go – easy to add additional scope
 - Scope of ARRA projects well defined/characterized
 - Compliance agreements in place
 - Clearer project scoping, costing and scheduling
- **Early and Frequent Communications**
 - On-going engagement with Stakeholders, Regulators, Tribal Nations, Congress, OMB, GAO, IG. Newsflashes, newsletters videos, briefings, etc.
- **Recruiting and Teaming**
 - Create a sense of urgency, power of a small enthusiastic dedicated team
- **Reinforced use of DOE Order 413 Project Management System**
 - Strict adherence reviews (external, program, others), reporting, metrics
- **On-the-ground Site Representatives**
 - Site assessment, assistance, advocacy and oversight



OBSERVATIONS AND LESSONS

- **Vigorous engagement between HQ and Recovery Act Sites**
 - Day to day interactions
 - HQ site visits – support and oversight roles
- **IPABs data collection system**
 - Financials, metrics, change control
- **Clear definitive projects – carving of work scope**
 - Based on the right scope, cost and schedule
 - Easier to manage, more meaningful reporting, achieving results
- **Sharper reporting resolution**
 - Dashboard – EVMS, EAC, metrics, milestones
 - Spending rates
- **Looking to the Future**
 - Getting out in-front of issues
 - Risk management
 - ARRA ramp-down



PROACTIVE COMMUNICATION

EM Headquarters and Field sites are striving to provide “unprecedented transparency” as to where the ARRA money is going and what is being accomplished

- Hot Link Jobs Button
- EM Recovery Act newsletter
- Weekly News Flash
- EM Recovery Act website
- Stakeholder conference calls
- Public meetings
- OMB/Congress
- GAO/IG



SUMMARY

Safety is our #1 priority for all EM Recovery Act projects!

- Over \$5.965 billion obligated to contracts for EM Recovery projects
- Over \$2.7 billion spent on Recovery work
- Over 24,000 workers have benefitted in 12 States
- Over \$3B planned to be spent by end of FY2010
- Over 90% of ARRA to be spent by end of FY2011
- Achieved EM small business prime and subcontracting goal
- Monthly monitoring of project execution and performance
- Active engagement with stakeholders and regulators



LEARN MORE ABOUT THE EM RECOVERY ACT PROGRAM



ABOUT DOE | ORGANIZATION | NEWS | CONTACT US SEARCH GOV

U.S. DEPARTMENT OF ENERGY

SCIENCE & TECHNOLOGY ENERGY SOURCES ENERGY EFFICIENCY THE ENVIRONMENT PRICES & TRENDS NATIONAL SECURITY SAFETY & HEALTH

RECOVERY AND REINVESTMENT

You are here: DOE Home > Recovery and Reinvestment > Ask an Expert: DOE Recovery Act Clearinghouse

RECOVERY.GOV Printer-Friendly

Ask an Expert: DOE Recovery Act Clearinghouse

The purpose of the DOE Recovery Act Clearinghouse is to help increase the availability of information about DOE's American Recovery and Reinvestment Act of 2009 (ARRA) activities. The Clearinghouse will provide initial consultations, and also make referrals when appropriate to other information sources (websites, documents, DOE staff, etc).

You can [contact us](#) with your questions using our submittal form, by calling our toll-free number: 1-888-DOE-RCVY (1-888-363-7289), or browse our list of frequently asked questions. Media inquiries should be directed to the [DOE Press Office](#).

FREQUENTLY ASKED QUESTIONS

Funding Opportunities

- [How do I find out about the funds available from DOE?](#)
- [When will funds become available?](#)
- [What types of funding are available from DOE?](#)
- [How do I apply for a grant from DOE?](#)
- [How do I apply for a contract from DOE?](#)
- [How do I apply for a loan guarantee from DOE?](#)
- [How do I apply for funds that are administered through a state/local program?](#)

EM Recovery Act Program Office
<http://www.em.doe.gov/emrecovery>

Email: EMRecovery@em.doe.gov

Phone: 202-586-2083

DOE Recovery Act Clearinghouse

<http://RecoveryClearinghouse.energy.gov>

Email: RecoveryClearinghouse@hq.doe.gov

Phone: 1-888-DOE-RCVY

BACKUP SLIDES

- Funding Obligations at EM Sites
- Small Business Awards
- Reported Jobs using Recovery Act Funds



Recovery Act Funding Obligations at EM Sites

Site	Spend Plan	Obligated to Contracts	Outlaid (Payments) to Date
Argonne National Laboratory	\$79,000,000	\$79,000,000	\$30,807,854
Brookhaven National Laboratory	\$70,810,000	\$70,810,000	\$43,348,007
ETEC	\$51,675,000	\$51,675,000	\$42,292,580
Hanford (Office of River Protection)	\$326,035,000	\$326,035,000	\$129,759,783
Hanford (Richland)	\$1,634,500,000	\$1,634,500,000	\$666,128,486
Idaho	\$467,875,000	\$467,875,000	\$237,027,308
Los Alamos National Laboratory	\$211,775,000	\$200,375,000	\$117,339,272
Moab	\$108,350,000	\$108,350,000	\$50,444,816
Mound	\$17,900,000	\$17,900,000	\$13,975,180
Nevada Test Site	\$44,325,000	\$44,325,000	\$29,695,172
Oak Ridge	\$755,110,000	\$751,051,821	\$262,045,132
Paducah	\$80,400,000	\$80,400,000	\$38,124,832
Portsmouth	\$119,800,000	\$119,800,000	\$64,449,562
Savannah River	\$1,615,400,000	\$1,615,399,948	\$767,752,751
SLAC	\$14,300,000	\$11,800,000	\$6,403,073
SPRU	\$58,575,000	\$58,575,000	\$23,524,639
WIPP	\$172,375,000	\$172,175,000	\$80,375,723
West Valley	\$62,875,000	\$62,875,000	\$31,727,354
Title X Uranium/Thorium Reimbursements Management & Oversight	\$70,000,000 \$28,920,000	\$69,350,000 \$23,598,663	\$45,650,002 \$16,070,849
Total *	\$5,990,000,000	\$5,965,870,432	\$2,696,942,375

* Total does not include \$10 million reprogrammed to DOE Departmental Administration

Financial data are based on reporting as September 7, 2010 and are subject to change.



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

RECOVERY ACT FUNDING AWARDED TO SMALL BUSINESSES

Site	EM Recovery Act Small Business Contract Awards		
	Prime to Small Business Subcontracts (As of 7/31/10)	DOE Prime Small Business Contracts (As of 07/31/10*)	Total Small Business Contract Awards
Argonne	\$19,785,656	\$0	\$19,785,656
Brookhaven	\$21,939,686	\$0	\$21,939,686
ETEC	\$24,587,220	\$0	\$24,587,220
Hanford-Office of River Protection	\$60,095,159	\$6,600,480	\$66,695,639
Hanford-Richland	\$372,954,834	\$17,829,586	\$390,784,420
Idaho	\$38,949,745	\$15,770,549	\$54,720,294
Los Alamos	\$129,363,493	\$0	\$129,363,493
Moab	\$5,838,031	\$3,445,000	\$9,283,031
Mound	\$0	\$17,900,000	\$17,900,000
Nevada	\$12,842,550	\$8,936,201	\$21,778,751
Oak Ridge	\$86,238,599	\$276,819,830	\$363,058,429
Paducah	\$0	\$78,800,000	\$78,800,000
Portsmouth	\$0	\$118,200,000	\$118,200,000
Savannah River	\$272,114,070	\$6,170,737	\$278,284,807
SLAC	\$0	\$11,800,000	\$11,800,000
SPRU	\$1,490,784	\$14,775,000	\$16,265,784
West Valley	\$15,189,504	\$0	\$15,189,504
WIPP	\$23,510,361	\$6,984,365	\$30,494,726
TOTALS	\$1,084,899,691	\$584,031,748	\$1,668,931,439

*Prior to closeout of IDW Data.



OVER 24,000 WORKERS HAVE BENEFITTED

Reported EM Jobs Using Recovery Act Funding (CY2010)

Site (State)	Q2 CY 2010 Recovery.gov Prime Contractor plus Subcontractor Jobs (FTEs) (Apr-Jun 2010)	EM Recovery Act Headcount "Lives Touched" (Cumulative from start of project through Jun 30, 2010)
Argonne (IL)	113	349
Brookhaven (NY)	112	182
ETEC (CA)	11	323
Hanford-ORP (WA)	479	1,928
Hanford-Richland (WA)	2,645	6,074
Idaho (ID)	907	2,040
Los Alamos (NM)	421	952
Moab (UT)	213	279
Mound (OH)	38	52
Nevada (NV)	144	624
Oak Ridge (TN)	1,860	4,587
Paducah (KY)	293	806
Portsmouth (OH)	430	925
Savannah River (SC)	2,244	3,669
SLAC (CA)	33	178
SPRU (NY)	125	362
West Valley (NY)	136	392
WIPP (NM)	282	512
TOTALS	10,485	24,234



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure