



U.S. DEPARTMENT OF **ENERGY**

Environmental Management Idaho Operations Office ***Cleanup Vision***

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Idaho Operations Office
U.S. Department of Energy



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Environmental Management: A National Responsibility

Idaho's 2015 Cleanup Vision

- ✓ We reduce risks and protect our workers, our communities and the environment through cleanup
- ✓ Our work is urgent and essential to the health and economic vitality of our communities and the nation and positions our Sites for future missions and use
- ✓ Our mission is not discretionary—it is a Federal obligation to address the cold war environmental legacy cleanup and honor our regulatory commitments
- ✓ We have demonstrated value for the American Taxpayer by delivering significant progress in the past several years in reducing risks and the overall liability—but our work is not done
- ✓ The Environmental Management portfolio is one of our nation's largest liabilities—we have a responsibility to relieve future generations of this environmental and financial liability
- ✓ Time is not on our side—costs and risks increase over time



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Idaho's 2015 Cleanup Vision

Staging EM's Legacy Cleanup Exit from Idaho

Building on the ARRA momentum, the Idaho team will:

✓ Reduce the Idaho clean up cost to American Taxpayers by \$2.4 Billion

✓ Protect the Snake River aquifer

- Disposition all targeted buried waste in the subsurface disposal area 9 years ahead of schedule
- Construct and operate the Sodium Bearing Waste (SBW) facility by 2012
- Close the last 4 of 15 High Level Waste tanks by 2014 and cap Tank Farm area

✓ Reduce Idaho's EM footprint from 775 acres to 62 acres – a decrease of 92%

- Deactivate and demolish over 240 facilities/structures
- Transition stewardship of INTEC and RWMC to NE by 2015

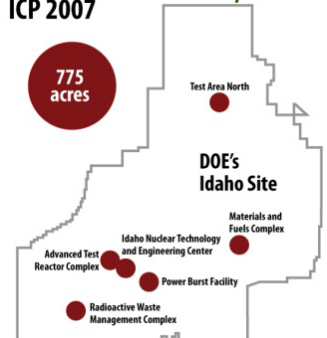
✓ Disposition all TRU waste

- Complete treatment and shipping of 65,000 meters³ of stored CH TRU waste out of Idaho 4 years ahead of the Idaho Settlement Agreement requirement
- Ship all RH TRU waste out of the state 4 years ahead of the Idaho Settlement Agreement requirement
- Optimize WIPP operations

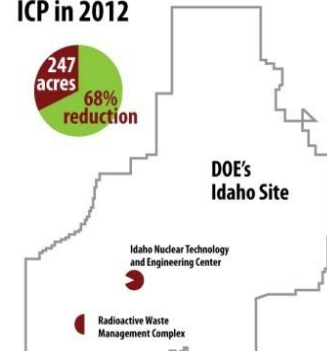
✓ Complete all of Idaho's EM legacy cleanup missions

- Continue advancing calcine disposition activities by utilizing TD&D funds

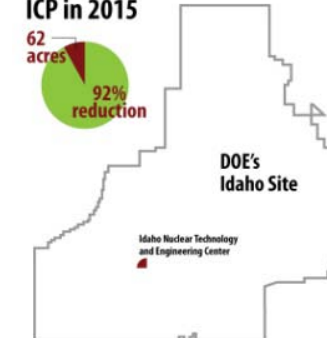
Idaho's 2015 Cleanup Vision
ICP 2007



ICP in 2012



ICP in 2015



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Return on American Taxpayers' Investment at Idaho – Key Cleanup Accomplishments

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Cleanup Scope	Accomplishments to Date	By FY 2015
TRU Waste Dispositioned (m3)	41,866 of 65,000 cubic meters TRU waste disposed	Dispositions 65,000 m3 – completes Idaho Settlement Agreement milestone
Sodium Bearing Waste Tanks RCRA Closed	11 of 15 tanks closed	Closes all 15 Tanks (11 @ 300,000 gallons; 4 @ 30,000 gallons)
Retrieval of Buried Waste (Acres)	1.69 of 5.69 acres buried waste retrieved	Exhumes 5.69 Acres of soil and treat and ship accompanying targeted waste – completes Idaho Settlement Agreement and Agreement to Implement
D&D of Facilities and Structures	199 of 241 facilities and structures D&D	Completes D&D of 241 facilities/structures
Remote Handled TRU Containers Shipped	729 out of 811 containers shipped	Dispositions 811 Containers of RH-TRU waste
EBR II Spent Nuclear Fuel Bottles Shipped	Begins in FY 2011	Transfers all 3,624 Bottles of EBR II fuel from INTEC to NE's Material Fuels Complex



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Economic Benefits at Idaho

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- ✓ Received \$468M in Recovery Act funds
- ✓ 569 jobs created and 380 jobs saved with Recovery Act funds
- ✓ \$306M of Recovery Act funding paid to date
- ✓ \$46M in Recovery Act prime and subcontracts awarded to small business in FY 2010
- ✓ \$73M out of \$460M in Base prime and subcontracts awarded to small businesses in FY 2010

Report reflects jobs and small business reporting through the end of FY 2010



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Recovery Act Performance Metrics at Idaho

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Measure	Actuals to Date	Targets to Date	Total Target	<div> <div></div>Actuals to Date <div></div>Targets to Date <div></div>Total Target </div>
Industrial Facility Completions Number of Facilities	25	25	33	
MLLW disposed (Legacy and NGW) Cubic meters	1,230	1,195	1,195	
Radioactive Facility Completions Number of Facilities	23	22	28	
LLW Disposed (Legacy and NGW) Cubic meters	2,096	2,000	2,000	
Facility Square Footage Demolished Gross Square Feet	464,545	430,317	810,077	
Nuclear Facility Completions Number of Facilities	19	17	29	



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Idaho is a Sound Investment

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- ✓ Overall alignment and excellent rapport with Regulators on Idaho's cleanup vision and strategy, general support from Tribal Nations, and stakeholders
- ✓ Save \$2.4B in life cycle costs
- ✓ We have proven that substantial cleanup progress can be achieved within cost and ahead of schedule
- ✓ By 2015, Idaho can be the next large site that completes it's EM legacy cleanup mission
- ✓ We are providing economic benefit to the region with a renewed commitment to on small business



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FY 2012 Budget Request to Meet 12088 Requirements

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PBS	Regulatory Document	Regulatory Requirement	Milestone Date
ID-0013	Site Treatment Plan	Process 4,500 meters ³ of TRU waste	Annually
ID-0013	Idaho Settlement Agreement	Running average of no fewer than 2,000 meters ³ shipped out of state	Annually
ID-0013	Idaho Settlement Agreement	All TRU waste shipped out of Idaho	Target Date, December 31, 2015; No later than December 31, 2018
ID-0014B	Idaho Settlement Agreement	Complete treatment of sodium bearing waste	December 31, 2012
ID-0014B	Notice of Non-compliance consent order	Cease use of the existing sodium bearing waste storage tanks at the INTEC tank farm	December 31, 2012
ID-0014B	Idaho Settlement Agreement	Submit Calcine RCRA Part B permit modification to state of Idaho	December 1, 2012



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Idaho's Accomplishments by Year

Idaho's 2015 Cleanup Vision

Cleanup Scope	Accomplished prior to 2011	2011	2012	2013	2014	2015	Status (total)
TRU & MLL/LLW counted as TRU Dispositioned (m3)	41,866	5,000	6,500	7,500	4,134		65,000 m3 disposition Complete
SBW Tanks Flushed	11			4			15 tanks – Complete
SBW Tanks RCRA Closed	11				4		15 tanks - Complete
Buried Waste (Acres Exhumed)	1.69	.79	.60	0.58	0.96	1.07	5.69 Acres – Complete
Targeted Waste Packaged (m3)	4,166	671	607	788	1,328	1,545	9,105 m3 – Complete
D&D of Facilities and Structures	199	25		1	10	6	241 facilities Demolished Complete
LLW/MLLW Dispositioned from D&D (m3)	39,858	19,923	15,830	3,100	5,100	5,500	89,311 m3 - Complete
RH-TRU Containers Shipped	729	56			26		811 Containers - Complete
EBR II Fuel Bottles Shipped	0	32	550	1,250	900	892	3,624 Bottles - Complete



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Idaho's Accomplishments by Year

FY 2012 Key Activities

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Idaho

(\$ in thousands)

FY 2010 Current Enacted	FY 2012 Cong Request
469,168	392,000

- Complete readiness testing in and startup of operations of the Sodium Bearing Waste facility
 - Process approximately 900,000 gallons of radioactive waste
 - Complete treatment of all tank waste and meet milestone to cease use of the Tank Farm Facility
 - Close four waste tanks
- Continue shipping stored contact-handled transuranic waste to the Waste Isolation Pilot Plant using the Advanced Mixed Waste Treatment Facility
 - Approximately 5,000 cubic meters
- Continue to dispose RH waste at the Radioactive Waste Management Complex
- Continue to receive Domestic and Foreign Research Reactor spent (used) nuclear fuel shipments
- Maintain compliance with the "1995 Idaho Settlement Agreement"
- Utilize TD&D funding to support maturation of the Hot Isostatic Press technology
 - To acquire certain technology parameters to support submission of a RCRA Part B permit application by December, 2012



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Idaho's Footprint Reduction Actions

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Idaho Nuclear Technology & Engineering Center (Completed)

- ✓ Complete the flushing and RCRA closure of the final four High Level Waste Tanks resulting in all 15 tanks RCRA closed
- ✓ D&D of final 17 facilities and structures prior to transition of INTEC to NE
- ✓ Complete treatment and disposition of 811 RH – TRU containers
- ✓ Transfer all 3,624 EBR II Spent Nuclear Fuel bottles to MFC

Advanced Test Reactor Complex (Completed)

- ✓ Complete D&D of all facilities and structures

Radioactive Waste Management Complex (Completed)

- ✓ Complete Disposition of 65,000 m3 of stored TRU waste
- ✓ Complete 5.69 acres of targeted buried waste exhumation
- ✓ Complete packaging and offsite shipping of 9,105 m3 of targeted TRU waste

Power Burst Facility (Completed)

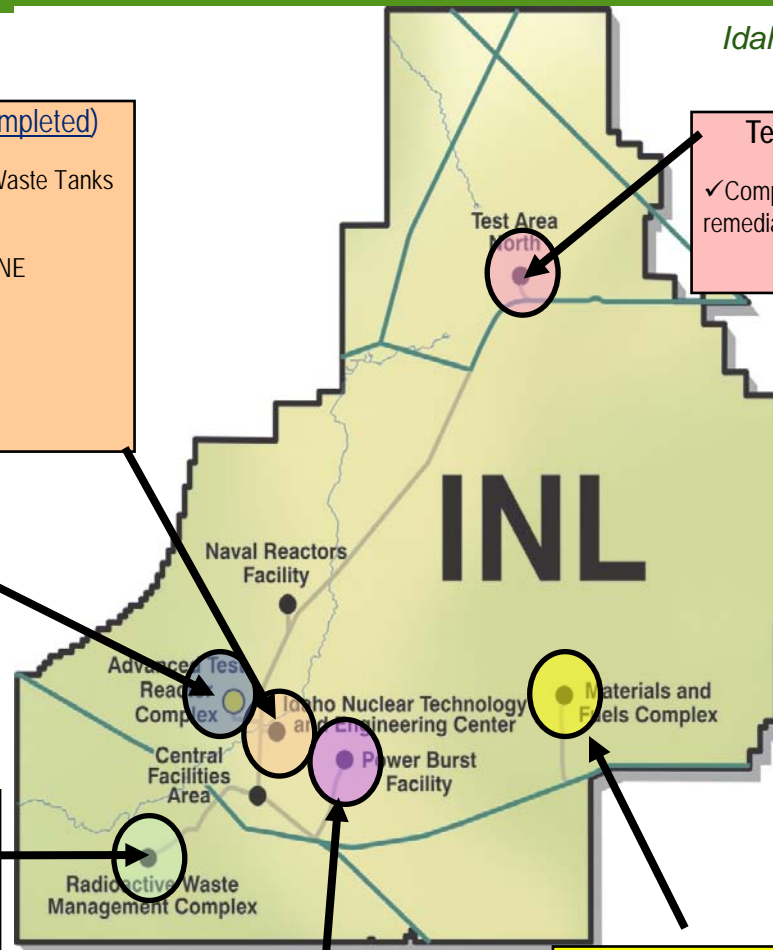
- ✓ Completed D&D of EM facilities

Test Area North (Completed)

- ✓ Completed TSF-07 Disposal Pond remediation

Materials and Fuels Complex (Completed)

- ✓ Complete retrieval of 811 containers of RH – TRU waste
- ✓ Complete receipt 3,624 bottles of EBR II Spent Nuclear Fuel (NE)



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