

U.S. DEPARTMENT OF  
**ENERGY**

Environmental Management  
Savannah River Operations Office

## *Cleanup Vision*

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Office of Environmental Management  
Savannah River Operations Office  
U.S. Department of Energy



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# *Environmental Management: A National Responsibility*

*SR'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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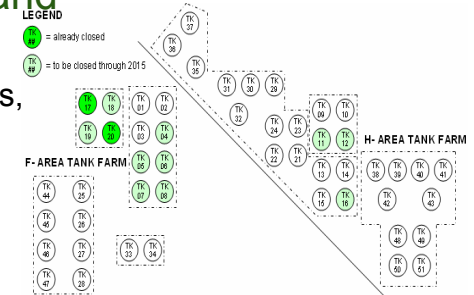
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# Savannah River's 2015 Cleanup Vision

SR's 2015 Cleanup Vision

## Building on the ARRA momentum, the Savannah River team will:

- ✓ Reduce Savannah River tank waste treatment mission by up to 6 years and \$3.2Billion in life-cycle costs:
  - ✓ Rotary Microfiltration and Small Column Ion Exchange fabrication, installation and operations,
  - ✓ ARP/MCU equipment/process life extension and extended operations with next generation extractant,
  - ✓ Salt Waste Processing Facility (SWPF) performance enhancement,
  - ✓ Saltstone enhancements
- ✓ Continue construction of Salt Waste Processing Facility: Complete SWPF CD-4. Currently negotiating with regulators to set startup completion milestone at end of October 2015. Project current early finish is September 2013
- ✓ Disposition 100% of Legacy TRU waste by end of CY2012: Continue transuranic (TRU) waste retrieval, treating for disposal, and shipping TRU waste to the Waste Isolation Pilot Plant. Disposition of legacy TRU waste is about 70% complete (about 9,800 m3 retrieved of about 14,000 m3). The Savannah River Site is on track to complete retrieval and disposal of 100% of this waste by end of FY2013
- ✓ Initiate activities in H-Canyon/HB-Line to establish the Savannah River Site as the center for Advanced Fuel Cycle unit operations testing/demonstration:
  - ✓ Commence modifications to H-Canyon to demonstrate proof-of-concept or pilot-scale operations while retaining current capabilities
  - ✓ Used Nuclear Fuel processing not precluded
- ✓ Shrink the active footprint by 90%: Complete clean-up of 90% of the Savannah River Site's 310 square miles (279 square miles). Work includes remediation of waste units and D&D of excess facilities. Continue to expedite remediation through the use of early and removal actions



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# Return on American Taxpayers' Investment at Savannah River – Key Cleanup Accomplishments

SR's 2015 Cleanup Vision

Cleanup Scope	Accomplishments To Date	By FY 2015
<b>Old Style Radioactive Liquid Waste (RLW) Tanks Bulk Waste Removal Effort Complete</b>	8 of 24 Non-Compliant RLW Tanks Bulk Waste Removed	13 of 24 Non-Compliant RLW Tanks Bulk Waste Removal Effort Complete
<b>Old Style RLW Tanks Closed</b>	2 of 24 Non-Compliant RLW Tanks Closed	12 of 24 Non-Compliant RLW Tanks Closed
<b>DWPF Canisters Produced</b>	3,043 of 7,557 Canisters produced	4,532 of 7,557 Canisters Produced (Saltstone Disposal Facility Industrial Landfill Permit #025500)
<b>SWPF Construction</b>	35% Construction Complete	CD-4 October 2015 (Early Finish by September 2013) (Saltstone Disposal Facility Industrial Landfill Permit #025500)
<b>Legacy TRU Dispositioned</b>	9,800 of 14,000 cubic meters Legacy TRU waste disposed	Dispositions 14,000 m3 Legacy TRU
<b>Footprint Reduction</b>	109 of 310 Sq. Miles	279 of 310 Sq. Miles



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# *Economic Benefits at Savannah River*

*SR's 2015 Cleanup Vision*

- ✓ Received \$1,615M in Recovery Act funds
- ✓ 1,768 jobs created / saved with Recovery Act funds
- ✓ \$1,028M of Recovery Act funding paid to date
- ✓ \$299M in Recovery Act prime and subcontracts awarded to small business
- ✓ \$428M out of \$1.396B 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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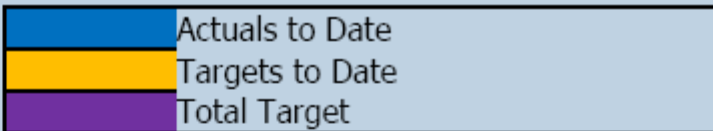


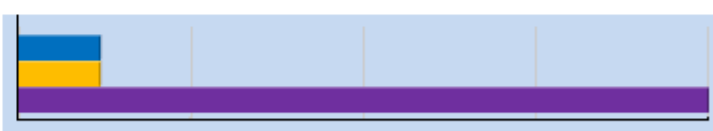

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# Recovery Act Performance Metrics at Savannah River

SR's 2015 Cleanup Vision

Measure	Actuals to Date	Targets to Date	Total Target	
MLLW disposed (Legacy and NGW) Cubic meters	416	431	755	
Transuranic Waste Dispositioned - Remote Handled Cubic Meters	22.5	22.7	39.3	
Facility Square Footage Demolished Gross Square Feet *	109,113	109,113	917,847	
Industrial Facility Completions Number of Facilities	8	8	14	

Graphic reflects key performance metrics through December 2010

\* Also includes facilities stabilized in-situ



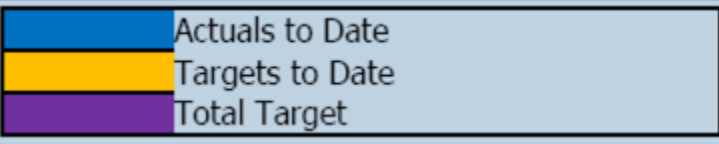
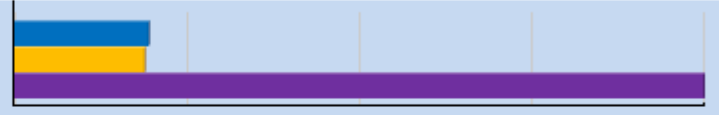
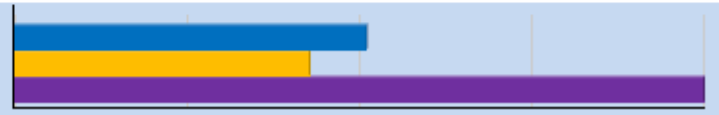
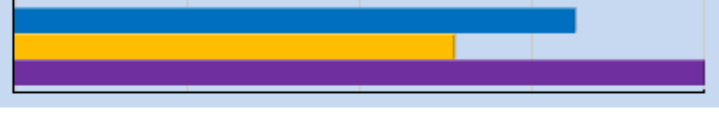

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# Recovery Act Performance Metrics at Savannah River

SR's 2015 Cleanup Vision

Measure	Actuals to Date	Targets to Date	Total Target	
Transuranic Waste Dispositioned - Contact Handled Cubic Meters	970	943	4,961	
CH TRU Waste Processed (Certification Ready) Cubic meters	2,537	2,124	4,961	
LLW Disposed (Legacy and NGW) Cubic meters	14,011	10,994	17,230	
ER and D&D Debris and Remediated Soil Disposed (MLLW, LLW and Industrial) Cubic Meters	213,668	199,668	239,668	

Graphic reflects key performance metrics through December 2010



# *Savannah River is a Sound Investment*

*SR's 2015 Cleanup Vision*

- ✓ Overall alignment with Regulators on Savannah River Cleanup vision and strategy, general support from stakeholders and surrounding communities
- ✓ Initiating activities in H-Canyon/HB-Line to establish the Savannah River as the center for Advanced Fuel Cycle unit operations testing/demonstration
- ✓ We are making substantial cleanup progress at Savannah River within cost and ahead of schedule
- ✓ We're providing economic benefit to the region with an emphasis on small business



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