



U.S. DEPARTMENT OF  
**ENERGY**

## *Presentation to the SRS Citizens Advisory Board*

# SRS Performance Measures Update

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**EM** Environmental Management  
safety ✦ performance ✦ cleanup ✦ closure

# Purpose

- **In response to SRS CAB Recommendation # 265, provide a review of the DOE-SR site specific quarterly Performance Measures Report for 2<sup>nd</sup> Quarter FY 2010**



# Background

- **The site specific Performance Measures Report is grouped into three categories**
  - Liquid Waste
  - Nuclear Materials
  - Recovery Act (ARRA)
  
- **Each measure attempts to provide a complete perspective**
  - History - Cumulative thru 2009
  - FY 2010 - Actuals and Target
  - End State Target



# DOE-SR Performance Measures – 2<sup>nd</sup> Quarter FY 2010

<u>Liquid Waste</u>  <i>Measure</i>	Unit of Measure	FY 2009		FY 2010		Cum thru 2010 3/31/10	End State (Rev. 15 System Plan) 3/31/10
		Actual	Cum thru 2009	Actual FYTD 3/31/10	Target Annual		
<b>DWPF Canisters Poured &amp; Tested</b>							
Canisters Produced	Canisters	196	2,795	103	190	2,898	7,235
Canister Storage Spaces Available	Spaces		1,795	1,692	1,605	1,692	TBD <sup>1</sup>
<b>Tank Preparation and Closure</b>							
Bulk Waste Removal Complete	Tanks	0	7	0	2	7	51
Heel Removal Campaign Complete	Tanks	2	4	0	2	4	51
Annuli Prepared for Closure	Tanks	0	0	0	2	0	43 (8=NA)
Three Agency Preliminary Approval <sup>2</sup>	Tanks	2	4	0	2	4	51
Three Agency Final Approval <sup>2</sup>	Tanks	0	2	0	2	2	51
Tanks Isolated	Tanks	0	2	0	1	2	51
Operationally Closed	Tanks	0	2	0	0	2	51
<b>SPF Salt Solution Processed</b>							
Salt Solution Processed	k Gallons	1,524	2,967	510	2,220	3,477	120,690
<b>Radioactivity</b>							
Curies Stabilized in Canisters <sup>3</sup>	k Curies	6,880	23,800	3,980	7,254	27,780	385,000

**Notes:**

1. GWSB # 3 Contingency Capacity - TBD
2. Approval to Cease Waste Removal
3. Estimate based on Sludge Batch Sampling

# DOE-SR Performance Measures – 2<sup>nd</sup> Quarter FY 2010

<b><u>Nuclear Materials</u></b>		<b>FY 2009</b>		<b>FY 2010</b>		<b>Cum thru 2010</b>	<b>End State</b>
<i>Measure</i>	<b>Unit of Measure</b>	<b>Actual</b>	<b>Cum thru 2009</b>	<b>Actual FYTD</b>	<b>Target Annual</b>		
				<b>3/31/10</b>		<b>4/1/10</b>	
<b>Plutonium &amp; Enriched Uranium</b>							
Plutonium Dissolved in H-Area for Disposition <sup>1</sup>	Containers	8	42	10	31	52	967 <sup>2</sup>
LEU Shipped to TVA Vendor (LEU = HEU blended with NU) <sup>3</sup>	Trailers	11	297	14	20	311	564

**Notes:**

1. Quantities Since 2008
2. Pre- Decisional Quantity
3. LEU = Low Enriched Uranium  
HEU = Highly Enriched Uranium  
NU = Natural Uranium

# DOE-SR Performance Measures – 2<sup>nd</sup> Quarter FY 2010

## Recovery Act

Jobs
Saved / Created
3,225

Measure	Unit of Measure	2009 Actual	FY 2010		Cum thru 2010	ARRA End State
			Actual FYTD	Target Annual		
			3/31/10			
<b>Funding Spent</b>						
SRNS		225,506	255,699	520,093	481,205	1,414,000
SRR		<u>104</u>	<u>28,262</u>	<u>140,000</u>	<u>28,366</u>	<u>200,000</u>
Total	\$ (000)	225,610	283,961	660,093	509,571	1,614,000

# DOE-SR Performance Measures – 2<sup>nd</sup> Quarter FY 2010

<u>Recovery Act</u> <i>Measure</i>	Unit of Measure	2009 Actual	FY 2010		ARRA Cum thru 2010 3/31/10	ARRA End State	Total Cum thru 2010 <sup>1</sup> 3/31/10	Total End State
			Actual FYTD 3/31/10	Target Annual				
<b>Solid Waste Disposition</b>								
RH-TRU Waste Dispositioned	Cubic Meters	17	0	5	17	39		
CH-TRU Waste Dispositioned		<u>281</u>	<u>350</u>	<u>739</u>	<u>631</u>	<u>4,161</u>		
Total TRU Dispositioned		298	350	744	648	4,200	6,589	15,658
PAD 1 - % TRU Waste Removed	%	0%	33%	100%	33%	100%		
PAD 1 - % TRU Waste Disposed	%	0%	0%	20%	0%	90%		
<b>MLLW Disposed (Legacy and NGW<sup>2</sup>)</b>								
MLLW Disposed (Legacy and NGW <sup>2</sup> )	Cubic Meters	325	40	359	365	1,075		
LLW <sup>3</sup> Disposed (Legacy and NGW <sup>2</sup> )		<u>2,067</u>	<u>3,678</u>	<u>15,852</u>	<u>5,745</u>	<u>27,832</u>		
Total MLLW & LLW		2,392	3,718	16,211	6,110	28,907	109,282	140,856
<b>Nuclear Material Disposition</b>								
Depleted Uranium Oxide Shipped	Drums	0	5,409	15,606	5,409	15,606	5,409	15,606

**Notes:**

1. Total Cum = Pre-ARRA Cum + ARRA Cum
2. NGW = Newly Generated Waste
3. Includes DUO

# DOE-SR Performance Measures – 2<sup>nd</sup> Quarter FY 2010

<u>Recovery Act</u> <i>Measure</i>	Unit of Measure	2009 Actual	FY 2010		ARRA Cum thru 2010 3/31/10	ARRA End State	Total Cum thru 2010 <sup>1</sup> 3/31/10	Total End State
			Actual FYTD 3/31/10	Target Annual				
<b>Soil &amp; Water Remediation</b>								
Characterized for Remediation	Waste Sites	4	7	13	11	25		
Remediation Systems Installed	Systems	2	0	8	2	14		
Remediations Completed	Release Sites	2	0	0	2	11	368	515
Ground Plumes Remediated	# of Plumes	1	0	5	1	8		
<b>Deactivation &amp; Decommissioning</b>								
Facilities - D&D Completed			No Appreciable Completions Scheduled for 2010 Measure to be tracked in 2011					
Industrial Facilities		}				2	232	759
Radioactive Facilities						<u>16</u>	7	<u>40</u>
Total Facilities D&D'd	Facilities					18	239	799
Reactors Decommissioned	# Completed	0	0	1	0	3		
<b>Operational Footprint Reduction</b>								
Site Remediated/ Footprint Reduction	Acres	0	0	45	0	108,856		

**Notes:**

1. Total Cum = Pre-ARRA Cum + ARRA Cum

# Summary and Path Forward

- The site specific Performance Measures Report will be provided to the full CAB at the May Meeting
- Suggestions from the CAB for any improvements are welcomed



# Acronyms

<b>ARRA</b>	American Recovery & Reinvestment Act
<b>GWSB</b>	Glass Waste Storage Building
<b>HW</b>	Hazardous Waste
<b>LEU</b>	Low Enriched Uranium
<b>HEU</b>	Highly Enriched Uranium
<b>LLW</b>	Low Level Waste
<b>LLMW</b>	Low Level Mixed Waste
<b>MLLW</b>	Mixed Low level Waste
<b>NU</b>	Natural Uranium
<b>SCDHEC</b>	South Carolina Dept of Health & Environmental Control
<b>SRNS</b>	Savannah River Nuclear Solutions
<b>SRR</b>	Savannah River Remediation
<b>SWPF</b>	Salt Waste Processing Facility
<b>TRU</b>	Transuranic Waste
<b>TVA</b>	Tennessee Valley Authority

