



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

Acronyms

ARRA	American Recovery & Reinvestment Act
D&D	Deactivation & Decommission
EM	Environmental Management
EPA	Environmental Protection Agency
ER	Environmental Responsibility
HW	Hazardous Waste
LLW	Low Level Waste
LLMW	Low Level Mixed Waste
SCDHEC	South Carolina Dept of Health & Environmental Control
TRU	Transuranic Waste
TVA	Tennessee Valley Authority



- **Provide a review of the initial DOE-SR quarterly Performance Measures Report**
 - This report is in response to CAB recommendation #265 which requested a set of performance metrics to communicate site quantitative progress in Environmental Clean-up



Background

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



DOE-SR Performance Measures Report – 1st Qtr FY 2010

<u>Liquid Waste</u> <i>Measure</i>	Unit of Measure	FY 2009		FY 2010		Cum thru 2010 12/31/09	End State (Rev. 15 System Plan) 12/31/09
		Actual	Cum thru 2009	Actual FYTD 12/31/09	Target Annual		
DWPF Canisters Poured & Tested							
Canisters Produced	Canisters	196	2,795	52	190	2,847	7,235
Canister Storage Spaces Available	Spaces		1,795	1,743	1,605	1,743	TBD ¹
Tank Preparation and Closure							
Bulk Waste Removal Complete	Tanks	0	7	0	2	7	51
Heel Removal Complete	Tanks	2	4	0	2	4	51
Annuli Prepared for Closure	Tanks	0	0	0	2	0	43 (8=NA)
SCDHEC & EPA CWR ² Concurrence	Tanks	2	4	0	2	4	51
Tanks Isolated	Tanks	0	2	0	1	2	51
Operationally Closed	Tanks	0	2	0	0	2	51
SPF Salt Solution Processed							
Salt Solution Processed	k Gallons	1,524	2,967	510	2,220	3,477	120,690
Radioactivity							
Curies Stabilized in Canisters ³	k Curies	3,030	20,000	848	3,100	20,848	385,000

Notes:

1. GWSB # 3 Contingency Capacity - TBD
2. CWR = Cessation of Waste Removal
3. Estimate based on Sludge Batch Sampling

DOE-SR Performance Measures Report – 1st Qtr FY 2010

<u>Nuclear Materials</u>		FY 2009		FY 2010		Cum thru 2010	End State
<i>Measure</i>	Unit of Measure	Actual	Cum thru 2009	Actual FYTD	Target Annual		
				12/31/09		12/31/09	
Plutonium & Enriched Uranium							
Plutonium Dissolved in H-Area for Disposition ¹	Containers	8	42	3	31	45	967 ²
LEU Shipped to TVA Vendor (LEU = HEU blended with NU) ³	Trailers	11	297	8	20	305	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 Report – 1st Qtr FY 2010

Recovery Act

Jobs
Saved / Created
2,860

Measure	Unit of Measure	2009 Actual	FY 2010		Cum thru 2010	ARRA End State
			Actual FYTD 12/31/09	Target Annual		
Funding Spent						
SRNS		225,506	152,983	520,093	378,490	1,400,000
SRR		104	4,572	140,000	4,676	200,000
Total	\$ (000)	225,610	157,555	660,093	383,166	1,600,000

DOE-SR Performance Measures Report – 1st Qtr FY 2010

<u>Recovery Act</u>		Unit of Measure	2009 Actual	FY 2010		Cum thru 2010	ARRA End State
<i>Measure</i>	Actual FYTD			Target Annual			
				12/31/09		12/31/09	
Solid Waste Disposition							
RH-TRU Waste Dispositioned	Cubic Meters	17	0	5	17	39	
CH-TRU Waste Dispositioned	Cubic Meters	<u>281</u>	<u>180</u>	<u>739</u>	<u>461</u>	<u>4,161</u>	
Total TRU Dispositioned	Cubic Meters	298	180	744	478	4,200	
PAD 1 - % TRU Waste Removed	%	0%	20%	100%	20%	100%	
PAD 1 - % TRU Waste Disposed	%	0%	0%	20%	0%	90%	
MLLW Disposed (Legacy and NGW ¹)	Cubic Meters	325	36	359	361	1,075	
LLW Disposed (Legacy and NGW ¹)	Cubic Meters	2,067	1,947	12,575	4,014	24,554	
Nuclear Material Disposition							
Depleted Uranium Oxide Shipped	Drums	0	5,409	15,606	5,409	15,606	

Notes:

1. NGW = Newly Generated Waste

DOE-SR Performance Measures Report – 1st Qtr FY 2010

<u>Recovery Act</u>		Unit of Measure	2009 Actual	FY 2010		Cum thru 2010 12/31/09	ARRA End State
Measure	Actual FYTD 12/31/09			Target Annual			
Soil & Water Remediation							
Characterized for Remediation	Waste Sites	4	1	13	5	25	
Remediation Systems Installed	Systems	2	0	8	2	14	
Remediations Completed	Release Sites	2	0	0	2	11	
Ground Plumes Remediated	# of Plumes	1	0	5	1	8	
Deactivation & Decommissioning							
Facilities - D&D Completed		}	No Appreciable Completions Scheduled for 2010 Measure to be tracked in 2011				
Industrial Facilities						2	
Radioactive Facilities						16	
Total Facilities D&D'd	Facilities					18	
Reactors Decommissioned	# Completed	0	0	1	0	3	
Operational Footprint Reduction							
Site Remediated/ Footprint Reduction	Acres	0	0	45	0	108,856	

Summary and Path Forward

- Going forward the Performance Measures Report will be provided to the CAB on a quarterly basis
- As this report is evolving, suggestions from the CAB for any improvements are welcomed

