

Presentation to the SRS CAB Strategic & Legacy Management Committee

SRS Performance Measures Update

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Doug Hintze Assistant Manager for Integration & Planning DOE-SR / AMIP



Acronyms

ARRA	American Recovery & Reinvestment Act					
D&D	Deactivation & Decommissioning					
EM	Environmental Management					
ER	Environmental Responsibility					
HW	Hazardous Waste					
LLW	Low Level Waste					
LLMW	Low Level Mixed Waste					
NNSA	National Nuclear Security Administration					
SNF	Spent Nuclear Fuel					
TRU	Transuranic Waste					





Provide an update of the DOE-SR effort to develop a sitewide set of performance measures aligned with the 82 SRS Strategies and the SRS vision.

Provide a response to CAB recommendation # 265 that requests DOE-SR provide performance metrics in specific areas of SRS operations.



Background

DOE-SR

- The 2009 SRS Strategic Plan was finalized and distributed in May 2009 with 82 Site Strategies identified in support of DOE's 5 Strategic Themes and the SRS vision.
- A DOE-SR initiative was launched to develop a site-wide set of performance measures aligned with the 82 SRS Strategies and the SRS vision.

<u>CAB</u>

CAB recommendation #265 has requested an interim set of performance metrics to more fully communicate site quantitative progress in ER, D&D, Waste Management Operations, Nuclear Materials Disposition and ARRA.



Progress to Date

- Ist draft of defined performance measures was completed on October 1.
- Federal and Contractor / Tenant responsibilities have been mapped to strategies.
- Performance Measures are tied to contractor Performance Based Incentives (PBI's) and/or contracts with EM / NNSA.
- > CAB interests have been incorporated into efforts.



DOE Supporting Themes 25 Environmental Responsibility SRNS **11 Nuclear Security NNSA** SRR Shaw Areva **13 Scientific** WSI **Discovery** Parsons EM & Innovation Ameresco SREL **14 Energy Security Forest Svc 19 Management Excellence** 165 82 **Performance Measures Identified** Strategies by Lead Federal & Contractor/ Tenant



Statistical Analysis

➤ 165 Performance Measures Identified for 2010

DOE Theme Distribution	
Environmental Responsibility	46
Nuclear Security	30
Energy Security	18
Scientific Discovery & Innovation	20
Management Excellence	<u>51</u>
	165

> 80% of the 82 Strategies are supported by Performance Measures



Statistical Analysis (cont)

Distribution of 165 PM's by Federal Oversight Organizations

EM

Nuclear Material	23
Liquid Waste	7
Closure	17
SRNL	30
Safety & Quality Assurance	4
Safeguards & Emergency Svcs	4
Business Systems	31
ARRA	<u>23</u>
	139
NNSA	
Defense Program - Tritium	6
Nuclear Nonproliferation	<u>20</u>
	26



CAB Interim Performance Measures

CAB Recommendation # 265

- DOE-SR has reviewed the CAB's request to establish an interim set of Performance Metrics.
- Responses to specific suggestions are included on the following pages.



DOE-SR Response to CAB Recommendation # 265

Item	CAB Recommendation	DOE-SR Response
	Solid Waste	
1.b.i	Modify the PBS 13 metrics to show the acceleration of legacy solid waste disposition by category (LLW, LLMW, and TRU).	Included in the DOE-SR Interim Performance Measures
1.b.ii	Add a new metric to PBS 13 that specifically addresses the minimization and disposition of newly generated solid wastes.	Included in the DOE-SR Interim Performance Measures
1.d	Devise a metric that disaggregates the data for TRU waste drums, large boxed TRU wastes, and drummed and boxed TRU wastes on TRU Pad #1.	Included in the DOE-SR Interim Performance Measures. SRS tracking by RH, CH and PAD 1



DOE-SR Response to CAB Recommendation # 265

Item	CAB Recommendation	DOE-SR Response
	Liquid Waste	
1.e	Reaffirm, revise as necessary, and republish the total number V-HLW canisters expected to be produced by DWPF and the number of GWSBs expected to be built to temporarily store the canisters.	Included in the DOE-SR Interim Performance Measures
1.f	Devise a metric that disaggregates "liquid waste eliminated" and publish as separate items the sludge, salt waste and curies processed and by the facilities where the liquid wastes were processed.	Included in the DOE-SR Interim Performance Measures
1.g	Devise a metric that disaggregates the number of tanks cleaned, partially cleaned, and annuli cleaned compared to the number of tanks with and without annuli to be cleaned.	Proposed Measures will provide a status of the various stages of tank preparation and closure from bulk waste removal through regulatory approval to final closure
1.h	Publish the number of HLW curies and volumes stored and treated and to be treated each year (in canisters; in liquid waste eliminated; etc.). The total number of curies of HLW that have been disposed should also be expressed as a percentage of the total curies	The total number of curies has been identified in the tanks. However, as part of the current vitrification process, specific curie measurement by canister is not performed. A curie measure will be established based on samplings of each sludge batch before vitrification processing



DOE-SR Response to CAB Recommendation # 265

Item	CAB Recommendation	DOE-SR Response		
	Nuclear Materials			
1.a	Provide relevant metrics for PBS 11 (Pu and U packaged for disposition) and 12 (SNF packaged for disposition) that show progress for FY09 and each year beyond.	Pu and Enriched Uranium metrics have been included. Metrics for SNF will be established coincident with the start of SNF dispositioning which is targeted for 2011		
	<u>Remediation</u>			
1.i	For PBS 30 (ER) and PBS 40 (D&D), publish the percentage of sites completed in addition to the number of sites cleaned, and publish the amount of work in progress (e.g., "20% of site (site identity listed) is finished" etc.).	Included in the DOE-SR Interim Performance Measures		
	Recovery Act			
1.c	a. Devise a new metric for ER and D&D to measure the acceleration in onsite remediation as a result of ARRA, and provide metrics for all projects with funding directly impacted by ARRA by displaying the old milestone and the impact of ARRA on each project	A significant number Performance Measures have been developed to address all the aspects of ARRA and are included in the DOE-SR Interim Performance Metrics.		



CAB Interim Performance Measures

DOE-SR Proposed set of Interim Performance Measures

- DOE-SR has identified <u>30</u> performance measures for 2010 to address the interests of the CAB.
- 2009 Actuals and 2010 Targets for these measures will be provided at the November CAB meeting.
- It is proposed that a Performance Measures Report will be provided to the CAB on a Quarterly basis starting FY 2010.



Liquid Waste	Unit of 2009 Measure Actual		2	010			
Measure			Cum thru 2009	Actual YTD	Target Annual	Cum thru 2010	End State
measure					Annual		
DWPF Canisters Poured & Tested							
Canisters Produced	Canisters						
Canister Storage Available	Spaces						
Tank Preparation and Closure							
Bulk Waste Removed	Tanks						
Tanks Cleaned	Tanks						
Annuli Cleaned	Tanks						
Tanks Isolated	Tanks						
SCDHEC & EPA Approval Received	Tanks						
Operationally Closed	Tanks						
SPF Salt Solution Processed							
Salt Solution Processed	(000) Gallons						
Radioactivity							
Curies Stabilized in Canisters	(000) Curies						
(Est.based on Sludge Batch Samplings)							



Nuclear Materials				2010		Ourse the sec	
Measure	Unit of Measure	2009 Actual	Cum thru 2009	Actual YTD	Target Annual	Cum thru 2010	
Plutonium & Enriched Uranium							
Plutonium							
Dispositioned to Waste	TBD						
Dispositioned to MOX	TBD						
Total Pu Dispositioned							
HEU Dispositioned	TBD						
(As LEU to Commercial Vendor)							
LEU Prepared & Loaded for Shipment	Trailers						



Recovery Act			2010			Recov	
	Unit of Measure	2009 Actual	Actual YTD	Target Annual	Cum thru 2010	Total	
Measure			TID	Annual		End of 2	
Jobs							
Jobs Saved- Cum							
Jobs Created- Cum							
Total Cum Jobs Saved / Created	Jobs						
Funding Spent				•			
SRNS						1,40	
SRR						20	
Total	\$ (000)					1,60	
Deactivation & Decommissioning							
Facilities - D&D Completed							
Industrial Facilities							
Radioactive Facilites							
Nuclear Facilities							
Total Facilities D&D'd	Facilities						
Facility Sq Footage Deinventoried	Sq Feet						
Facility Sq Footage Demolished	Sq Feet						
Soil & Water Remediation							
Remediation Complete	Release Sites						
Operational Footprint Reduction							
Site Remediated/ Footprint Reduction	Acres						



Recovery Act	Unit of	2009	
Measure	Measure	Actual	
Solid Waste Disposition			
RH-TRU Waste Dispositioned	Cubic Meters		
CH-TRU Waste Dispositioned	Cubic Meters		
Total TRU Dispositioned	Cubic Meters		
PAD 1 Waste Dispositioned	Cubic Meters		
Newly Generated			
LLW -Accumulated Waste	Cubic Meters		
MLLW - In Storage Time Frame	Months		
Nuclear Material Disposition			
Depleted Uranium Oxide Shipped	Metric Tons		

20)10	Course the second	Recovery Act
Actual YTD	Target Annual	Cum thru 2010	Total Target End of 2011
			< 400
			< 12
			- 12



Summary and Path Forward

- Efforts will continue to finalize the performance measures and develop a consistent reporting process across contractors, tenants and federal organizations.
- The interim set of performance measures will be provided to the CAB on a quarterly basis starting FY 2010 (Jan Report).

