U.S. DEPARTMENT OF ENERGY

Presentation to the SRS Citizens Advisory Board

SRS Performance Update: Final FY11 Results & FY12 Targets

November 14, 2011

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EM Environmental Management
safety ❖ performance ❖ cleanup ❖ closure

Purpose

- Review the major areas of the EM Cleanup Program at SRS and explain supporting high level performance metrics

- Provide a update of key EM performance results for FY 2011 and targets for FY2012

<u>Lifecycle Baseline</u>
Management tool for SRS Cleanup Program

- The Lifecycle Baseline (scope, cost & schedule) for the SRS cleanup program was originally established in the 1990's

- Over the years, modifications to the Lifecycle Baseline have been managed through a disciplined change control process

  (changes due to technology, funding, regulatory, etc.)

- Performance metrics have evolved to track progress

  towards current Lifecycle Baseline targets

SRS Clean Up Program - Major Areas

Liquid Waste	Solid Waste	Nuclear Materials	Soil, Groundwater & Facilities
Insoluble Sludge	Transuranic Waste	Highly Enriched Uranium	Waste Site Remediation
Salt Waste	Mixed & Low Level Waste	Used Nuclear Fuel	Deactivation and Decommission
Tank Closures		Plutonium	

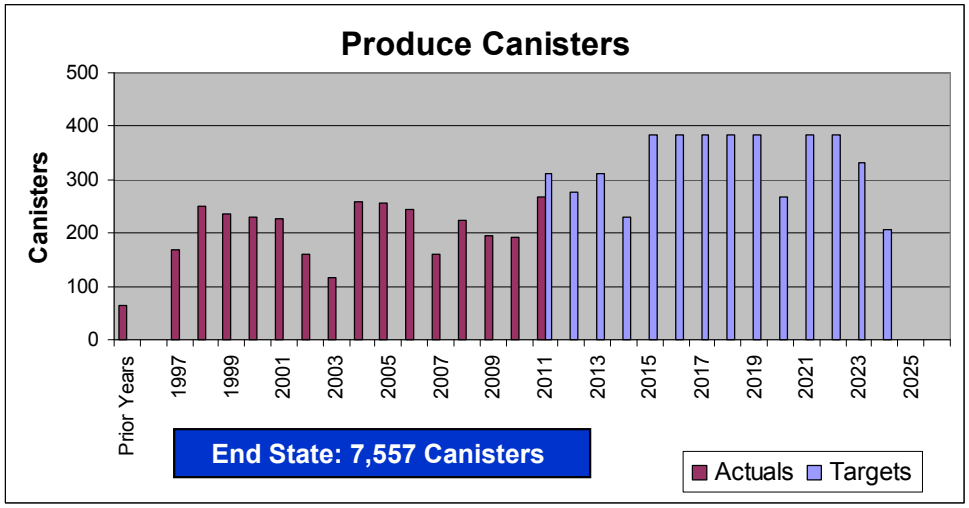
“How are we doing ?”

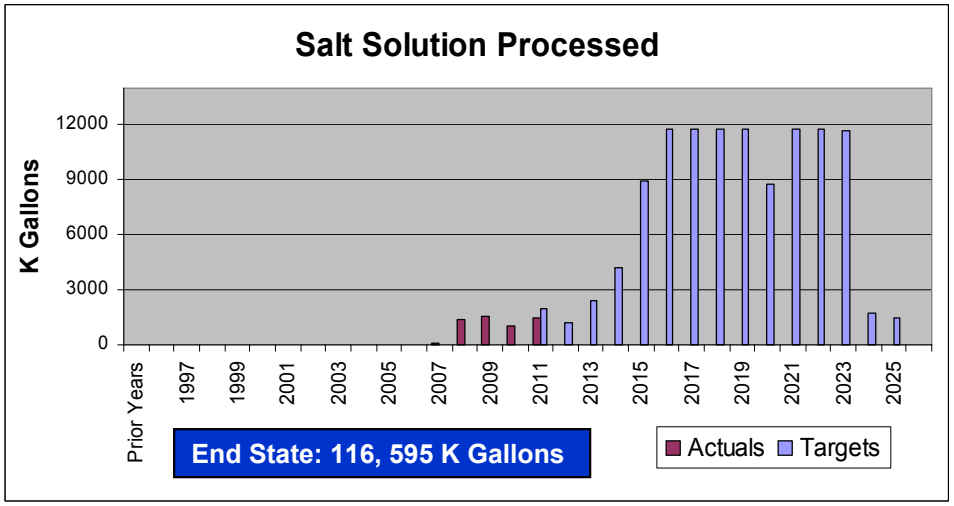
Progress towards EM Site Cleanup – through FY 2011

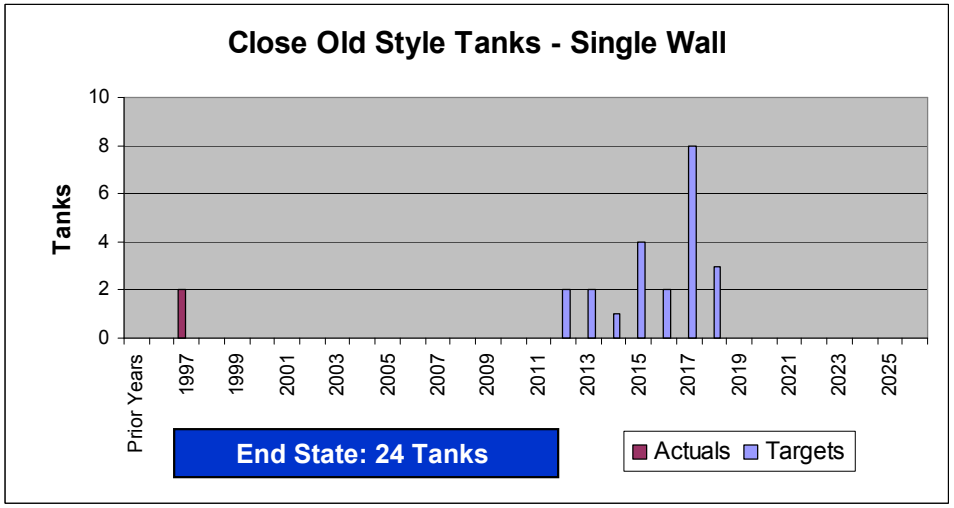
EM Site Cleanup- Major Areas	% End State Complete			End State	Unit of	FY Year
	FY 09	FY10	FY11	Quantity	Measure	Complete
Liquid Waste						
Disposition Radioactive Liquid Waste						
Produce Canisters	39%	40%	**43%**	7,557	Canisters	2028
Process Salt Solution	2%	4%	**5%**	116,595	k Gallons	2025
Close Tanks						
Old Style	8%	8%	**8%**	24	Tanks	2022
Newer Style	0%	0%	**0%**	27	Tanks	2026
Solid Waste						
Transuranic (TRU) Waste Disposed						
Legacy	59%	62%	**71%**	11,084	Cu Meters	2013
Newly Generated	0%	0%	**0%**	3,980	Cu Meters	2031
Mixed & Low-Level Waste Disposed						
Legacy	100%	100%	**100%**	103,171	Cu Meters	2008
Newly Generated	2%	8%	**19%**	135,017	Cu Meters	2031
Nuclear Materials						
Highly Enriched Uranium: Blend Down & Ship	89%	96%	**99.7%**	336	Trailers	2012
Used Nuclear Fuel: Blend Down & Ship	0%	0%	**0%**	TBD	Bundles	TBD
Plutonium Disposition						
Pu Dissolved for processing at DWPF	54%	86%	**100%**	100	Containers: 3013	2011
Pu Packaged for Shipment to WIPP	0%	0%	**1%**	5,833	Containers: POC	2016
Pu Oxide prepared for MOX	0%	0%	**0%**	TBD	TBD	TBD
Soil, Ground Water & Facilities						
Complete Remediation of Waste Sites	71%	72%	**74%**	515	Release Sites	2038
Facilities Deactivated & Decommissioned	23%	23%	**25%**	1,101	Facilities	2032
Foot Print Reduction (ARRA)	0%	48%	**98%**	234	Square Miles	2012

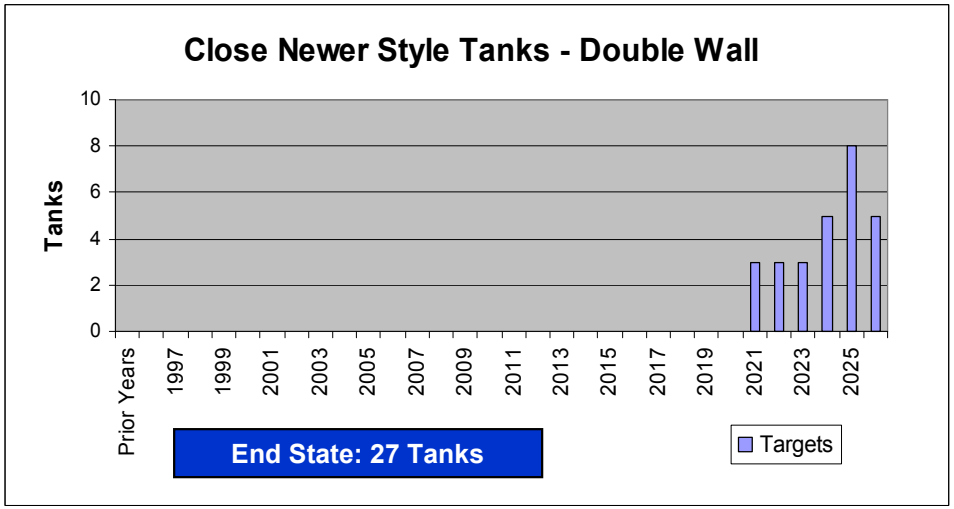
POC: Pipe Overpack Container

Liquid Waste



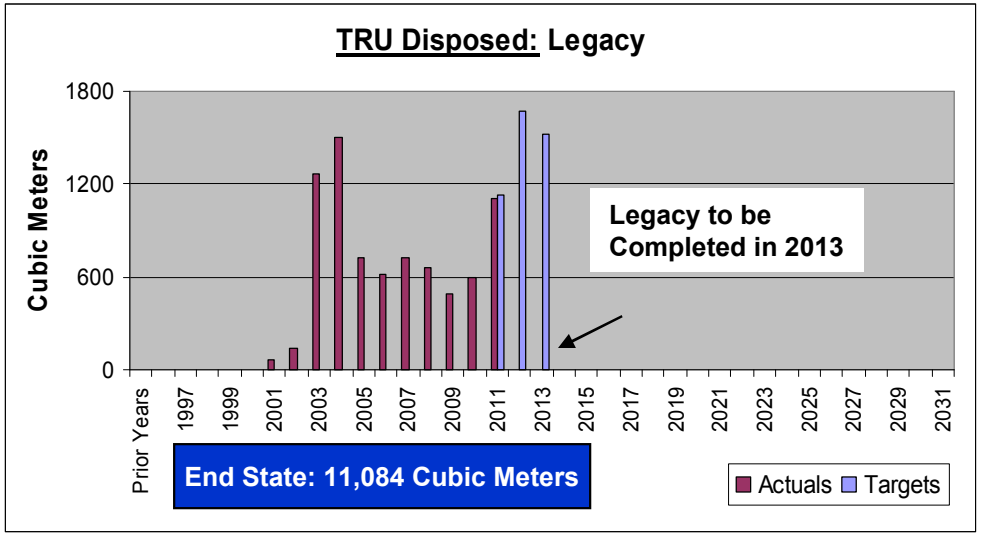


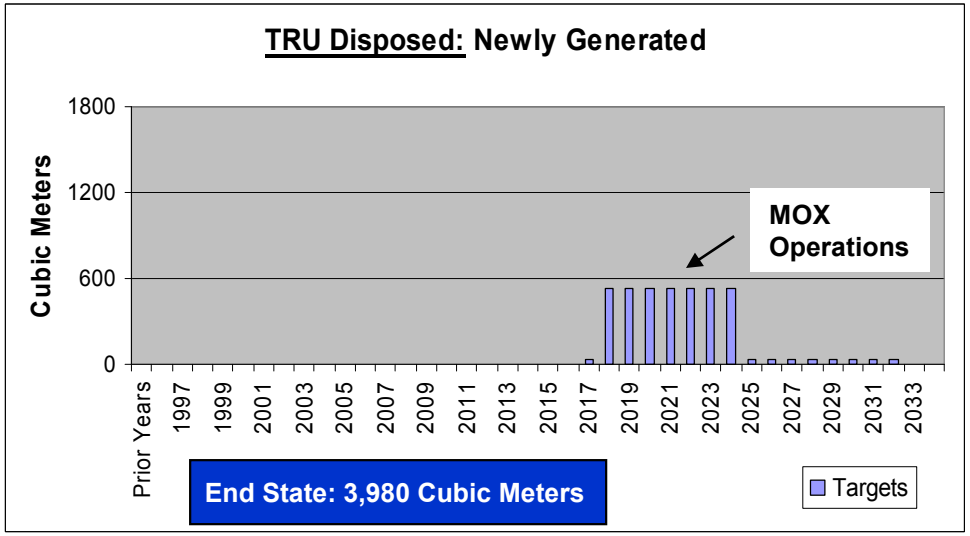


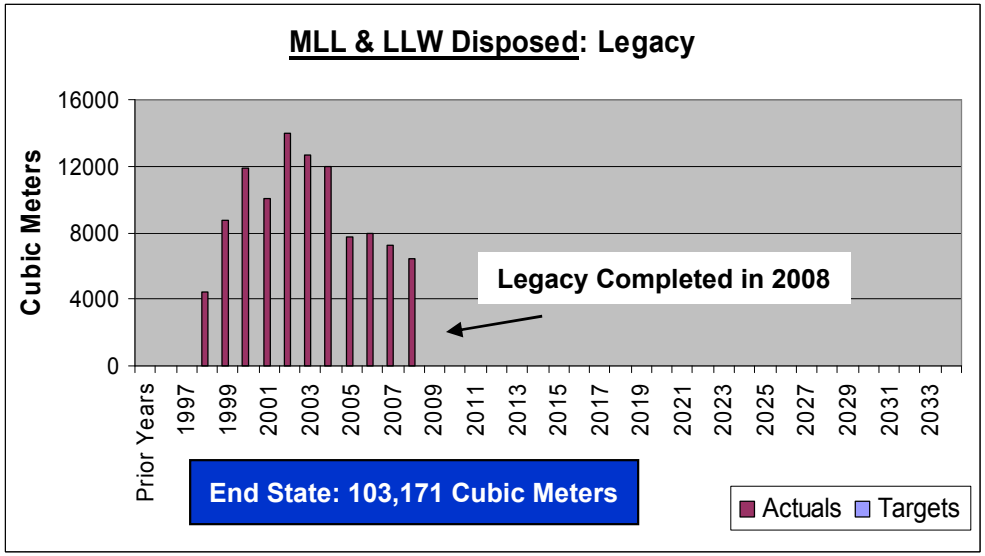


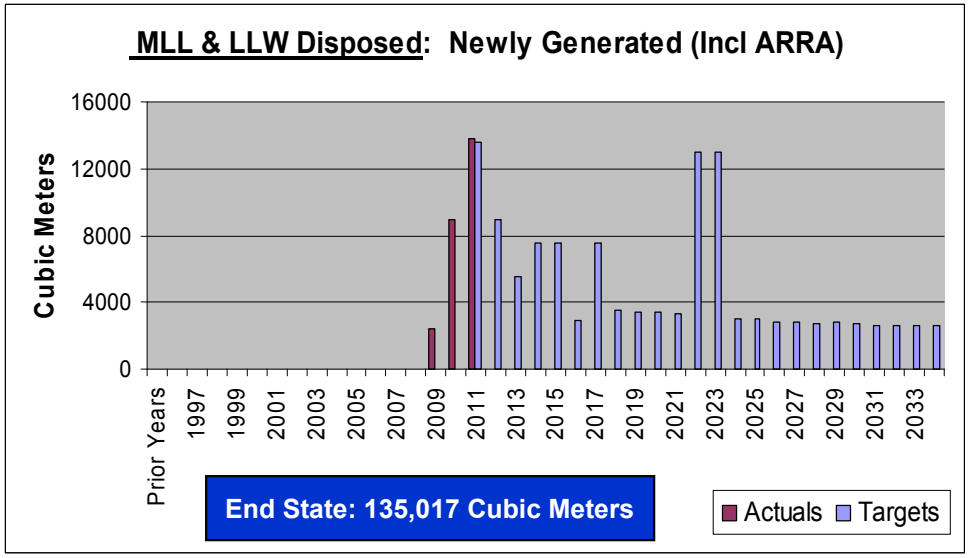
Note: Targets Based on Liquid Waste System Plan Rev 16

Solid Waste



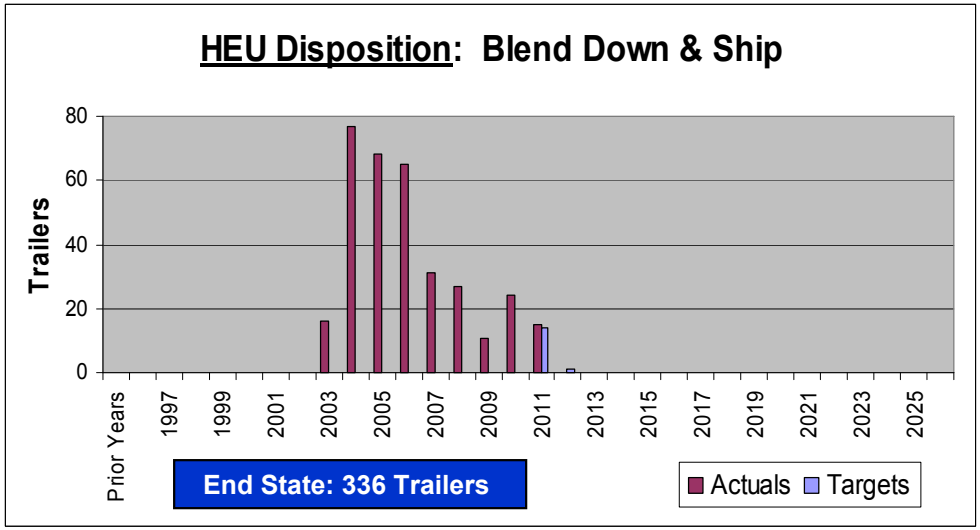


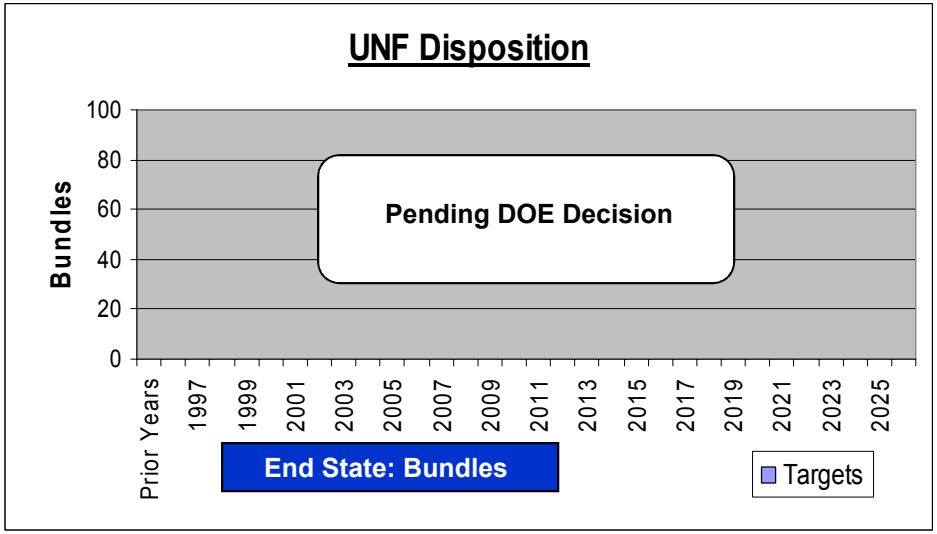




Note: Excludes LLW associated with Facility D&D

Nuclear Materials

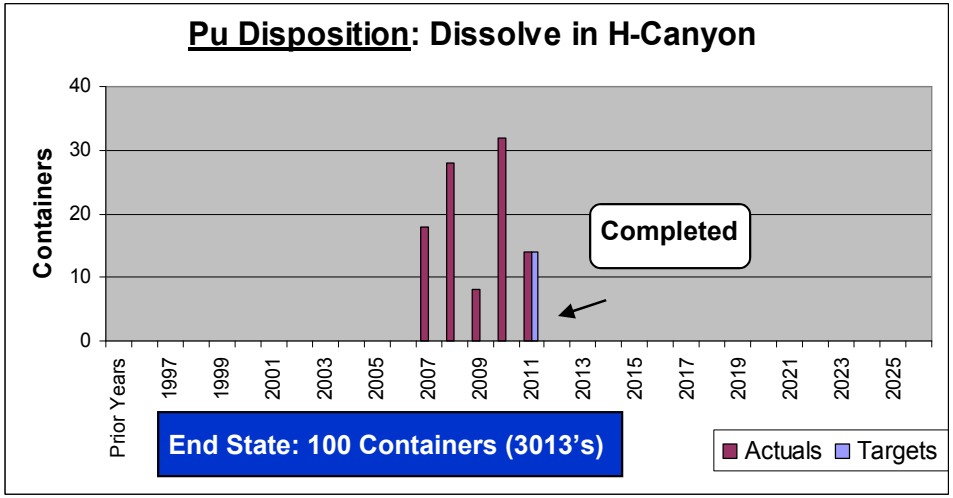


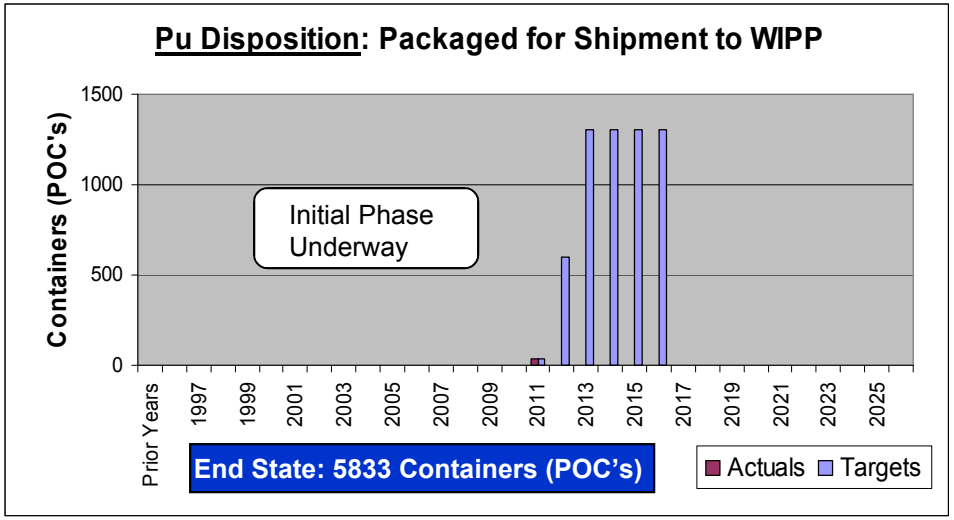


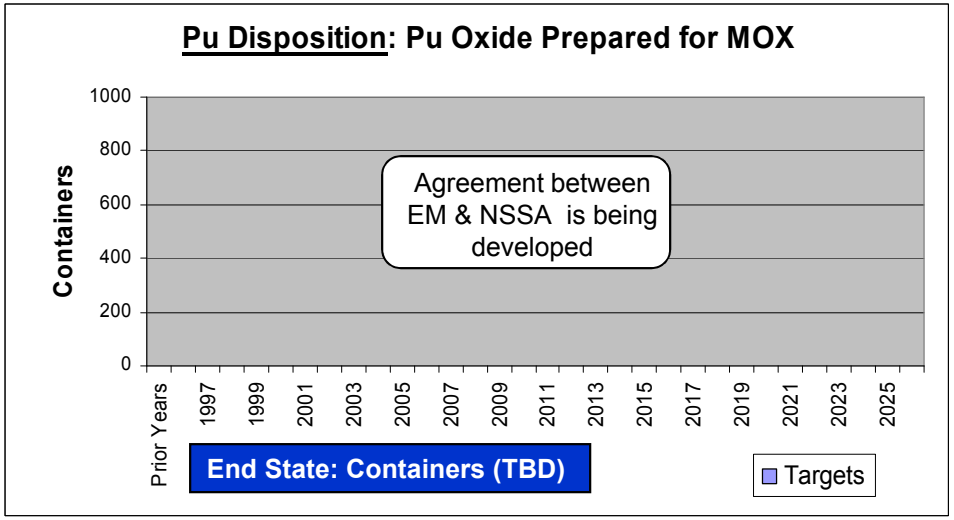
HEU: Highly Enriched Uranium

UNF: Used (Spent) Nuclear Fuel

Nuclear Materials

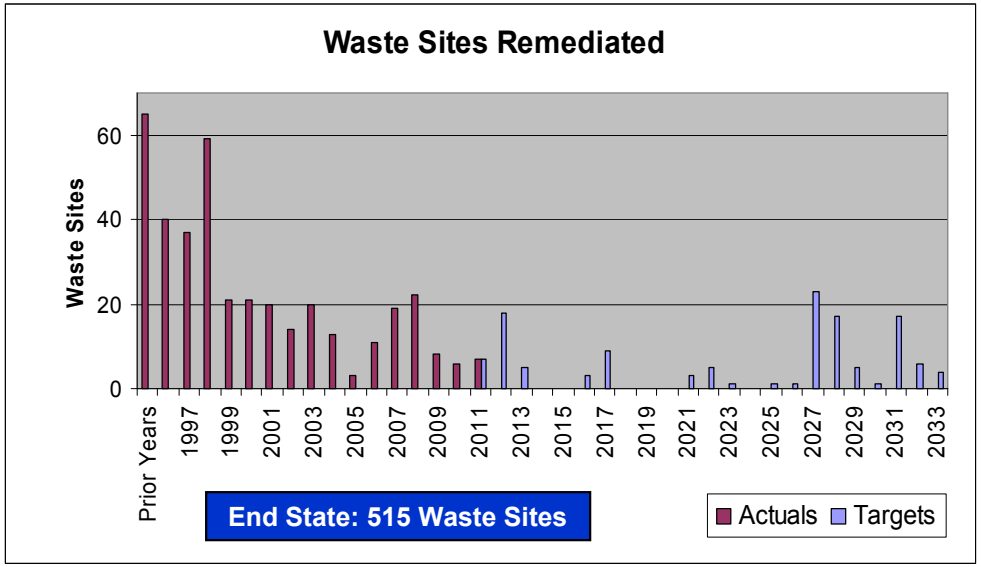


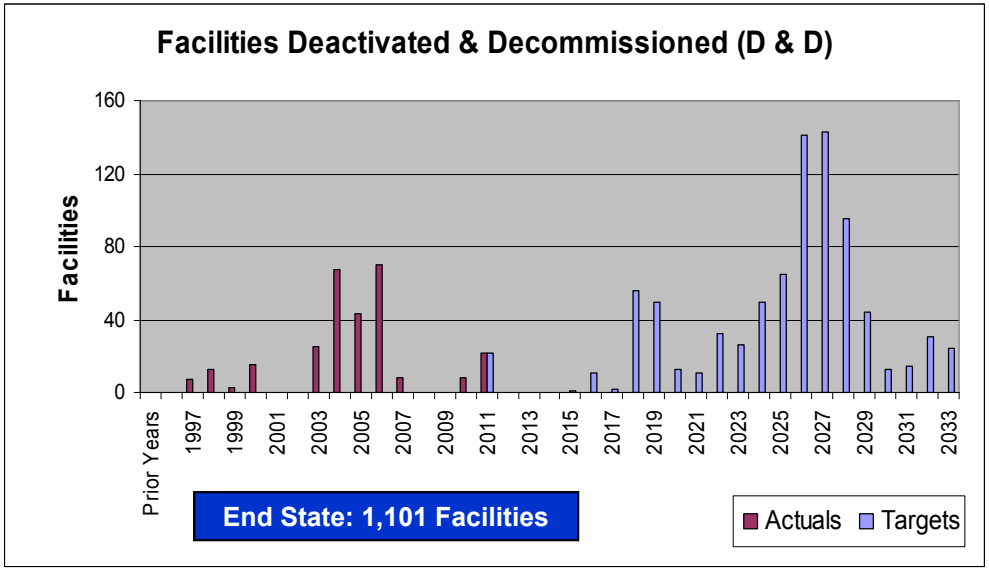




POC: Pipe Overpack Container

Area Completion





Summary and Path Forward

- DOE-SR will continue to provide the Stakeholders periodic updates of performance lifecycle measures for the key operational areas of EM cleanup operations

- Suggestions from for any improvements are welcomed

Acronyms

ARRA	American Recovery & Reinvestment Act
DRR	Domestic Research Reactor
D&D	Decommission & Demolition
DWPF	Defense Waste Processing Facility
FFA	Federal Facility Agreement
LEU	Low Enriched Uranium
HEU	Highly Enriched Uranium
LLW	Low Level Waste
MLLW	Mixed Low level Waste
NU	Natural Uranium
Pu	Plutonium
SCDHEC	South Carolina Dept of Health & Environmental Control
UNF	Used Nuclear Fuel
SWPF	Salt Waste Processing Facility
TRU	Transuranic Waste
TVA	Tennessee Valley Authority