



U.S. DEPARTMENT OF
ENERGY

OFFICE OF
**ENVIRONMENTAL
MANAGEMENT**

Solid Waste Management Program

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DOE-Savannah River

Savannah River Site Citizens Advisory Board

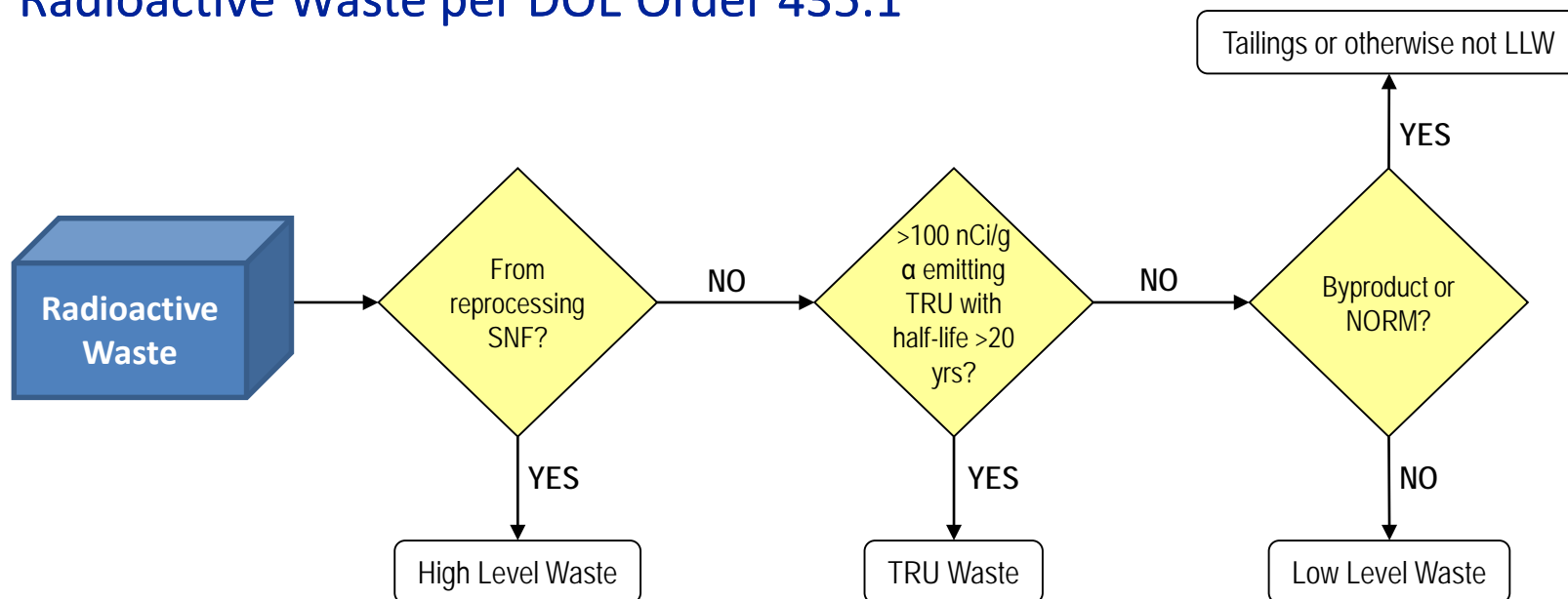
November 14, 2017

Performance-Based Objectives

- Manage DOE waste in a manner that is
 - Protective of worker health and safety
 - Protective of public health and safety
 - Protective of the environment
 - Compliant with all applicable laws and regulations

Radioactive Waste Management

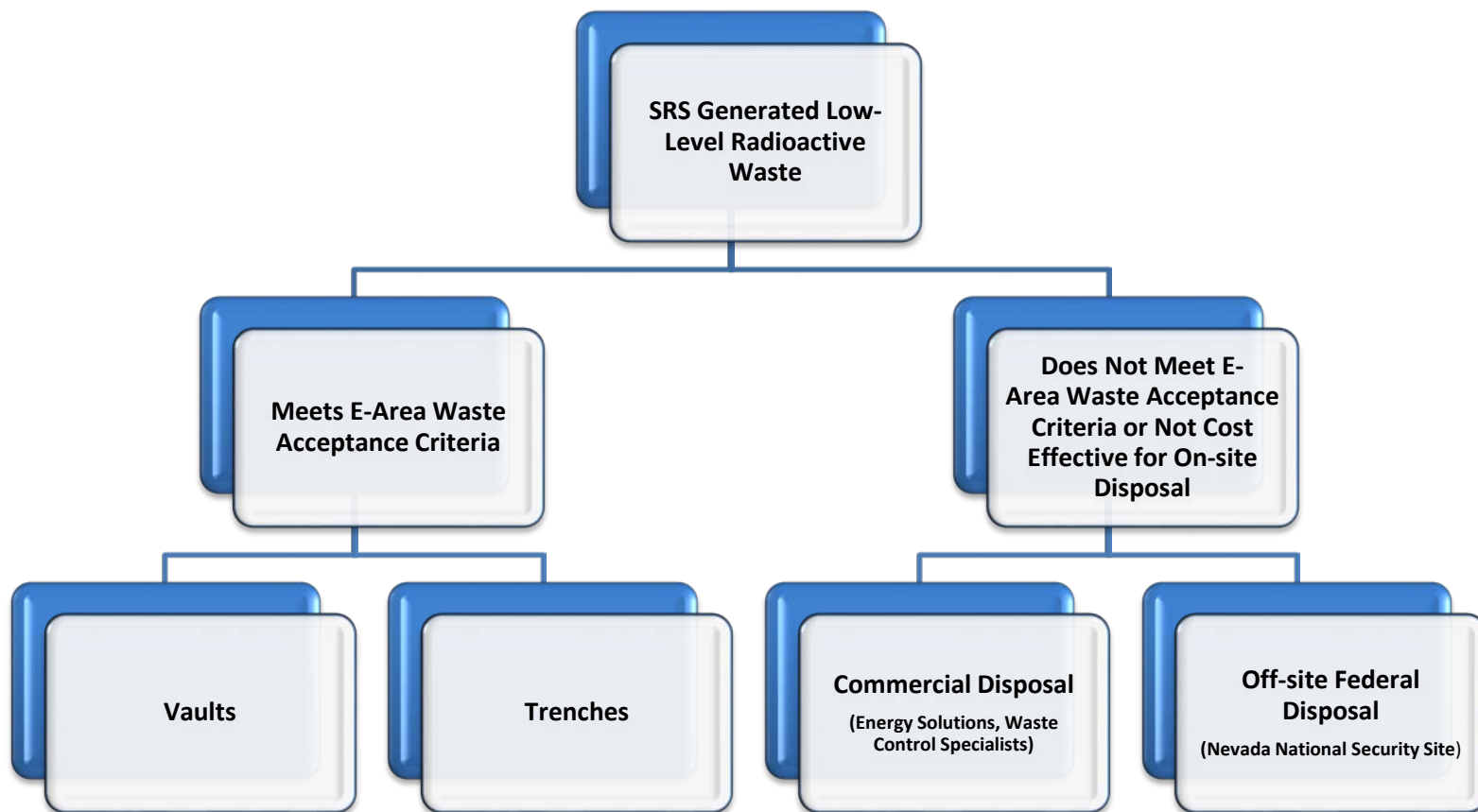
Radioactive Waste per DOE Order 435.1



Solid Waste Management Facility



Low Level Radioactive Waste



Low Level Radioactive Waste

- Generate approximately 5,000 cubic meters per year
- No legacy waste in storage
- Only off-site receipts are from Naval Reactor Facilities



Solid Waste Disposal: Mixed & Low Level Waste

Mixed Waste Shipment to Utah



Low Level Waste (LLW) New Trench - On Site



Performance Measure	Unit of Measure	Actual FY15	Target FY16	Actuals FY16	Cum To Date	End State	% Compl.
M&LL-Legacy (Prior to April 2008)	Cubic Meters	-	-	-	103,171	103,171	100%
M&LL-Newly Generated	Cubic Meters	Met	< 400*	Met	< 400	< 400	Ongoing

* Accumulation of M&LL not to exceed 400 Cu Meters at anytime

Hazardous and Mixed Low Level Wastes

- No legacy waste in storage
- Generate approximately 30 cubic meters per year
- Permit only allows storage up to one year



SRS Generated
TRU Waste

Packaged to WIPP
Requirements

Perform WIPP
Characterization

Meets WIPP
Waste Acceptance
Criteria

Ship to WIPP for
Disposal



Solid Waste Disposal: Transuranic Waste

Transuranic Waste (TRU) Shipment to WIPP

Note: WIPP Shipments
Resumed on
April 12, 2017



Performance Measure	Unit of Measure	Actual FY16	Target FY17	Actual FY17	Cum To Date	End State	% Compl.
TRU- Legacy Shipped (in storage prior 2009)	Cubic Meters	0	0	54.9	10,450	11,062	95%
TRU- Newly Generated Shipped	Cubic Meters	0	0	0	177	TBD	Ongoing

Acronyms

AROD	Amended Record of Decision (1000 bundles + 200 HFIR Cores)
ARP	Actinide Removal Process
D&D	Deactivation & Decommission
DWPF	Defense Waste Processing Facility
FFA	Federal Facility Agreement
HEU	Highly Enriched Uranium
LLW	Low Level Waste
MCU	Modular Caustic Side Solvent Extraction Unit
MLLW	Mixed Low level Waste
Pu	Plutonium
RCRA	Resource Conservation & Recovery Act
SNF	Spent Nuclear Fuel
SRE	Sodium Reactor Experiment
SWPF	Salt Waste Processing Facility
TRU	Transuranic Waste
WIPP	Waste Isolation Pilot Plant