



U.S. DEPARTMENT OF
ENERGY



Legacy Transuranic Waste Update

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*Savannah River Site Citizens Advisory Board Meeting
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SRS Legacy Transuranic (TRU) Waste Topics

- SRS Legacy TRU Waste History
- SRS TRU Waste Operations
- SRS Recent Legacy TRU Waste Recent Accomplishments
- SRS Legacy TRU Waste Challenges
- SRS Legacy TRU Waste Inventory
- Priorities
- Summary



SRS Legacy TRU Waste History

- **1999: Waste Isolation Pilot Plant (WIPP) opened**
 - Over 30,000 containers of TRU Waste at SRS in storage
 - Waste stored in drums, large steel boxes, concrete culverts, other containers
 - Over 9,000 drums were buried
 - Remediation and Repackaging for compliance with WIPP Waste Acceptance Criteria (WAC)
- **2001: SRS first shipment of TRU Waste to WIPP**
 - Over 1,730 shipments completed from SRS to WIPP (Through End of CY24)
 - Over 35,900 legacy containers shipped from SRS to WIPP (Through End of CY24)



SRS TRU Waste Operations at SRS

- TRU waste is stored in E-area on Resource Conservation and Recovery Act (RCRA) permitted TRU Pads
- TRU Waste requires characterization and certification by WIPP before it can be shipped
- TRU waste mission at SRS can be divided into three distinct programs
 - 1) Legacy TRU waste
 - 2) New Gen TRU waste
 - 3) Surplus Pu Disposition
- Implementing new packaging and shipping process for legacy Remote-Handled TRU waste



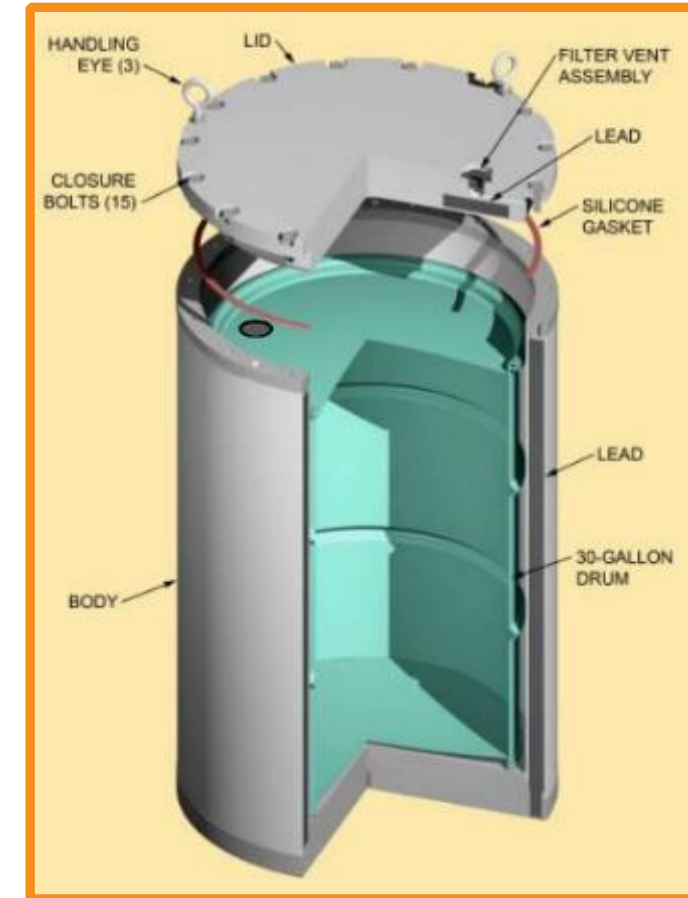
SRS Legacy TRU Waste Recent Accomplishments

- Completed shipping Large Container Shipments in December of 2022
- Maintaining a High Shipping Rate
 - FY24 TRU waste shipments
 - Total: 24 Shipments
 - FY25 TRU Expectations:
 - Planned: 12 Shipments



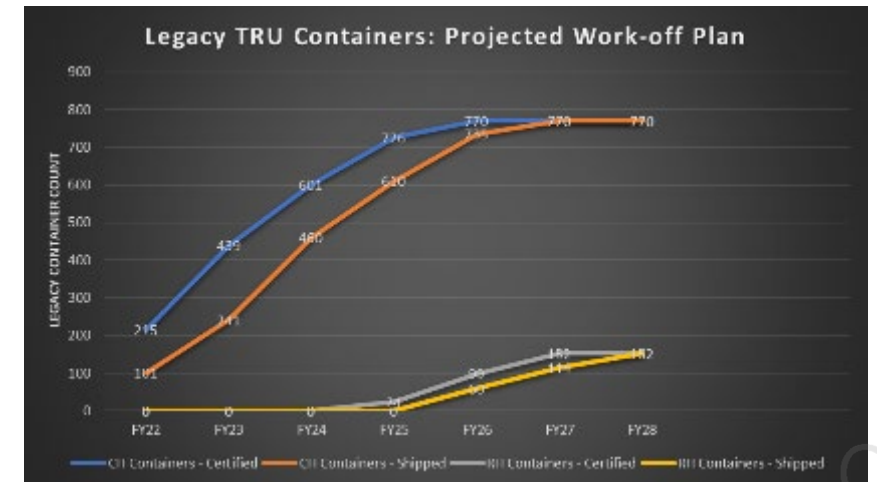
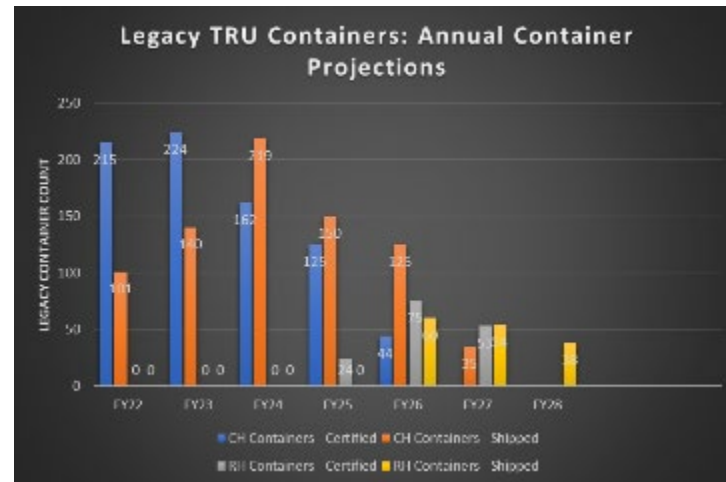
SRS Legacy TRU Waste Challenges

- **Updated WIPP Requirements**
 - Waste generated prior to current requirements
 - Documentation not always available
 - Prior characterization documentation not always viable
- **Overpacks**
 - Previously overpacked drums not re-certified at same time
 - Need for additional overpacking
 - Repacking will be needed for specific containers
- **Shipping Logistics**
 - Competing with other Sites
 - Requires coordination with State Agencies
- **Remote Handled (RH) Containers**
 - Shielded Container Assemblies (SCAs)- delivery expected in 2025
 - Borehole Emplacement



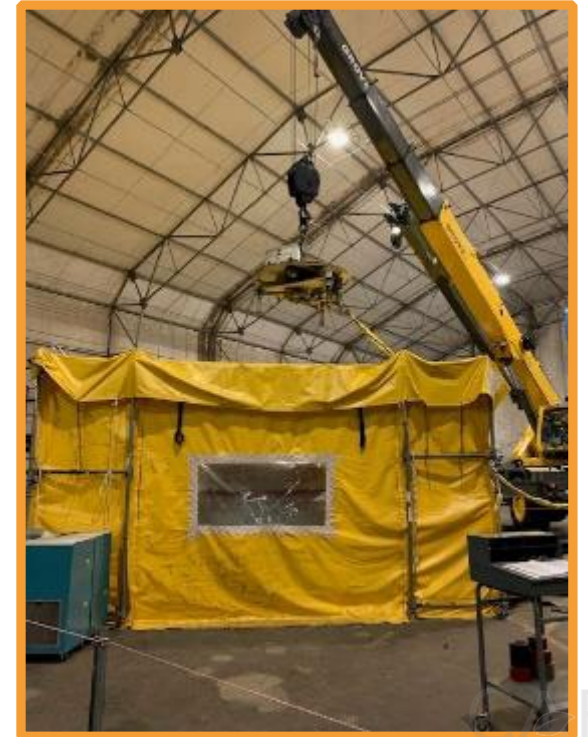
SRS Legacy TRU Waste Inventory

- Remaining Legacy Inventory
 - 128 Contact Handled (CH) Drums (not overpacked)
 - 65 CH Standard Waste Boxes (SWBs) (includes overpacks)
 - 65 CH Standard Waste Boxes (SWBs) (includes overpacks)
 - 152 RH Drums



Priorities

- Continue to make progress on disposition of SRS Legacy TRU Waste inventory
- Implementation of the new Remote Handling disposition strategy using Shielded Container Assemblies.



Summary

- Majority of SRS Legacy TRU Waste has been shipped to WIPP
- Significant progress to be made in FY25 on disposition of SRS TRU Waste
- SRS continues to maintain a safe and compliant TRU Waste Program

