

A Presentation to the SRS Citizens Advisory Board

SRS Transuranic (TRU) Waste Program

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Agenda

- TRU Waste
 - Definition
 - Waste Isolation Pilot Plant
- SRS Legacy TRU Waste
- Recovery Act (RA) Funded Accelerated TRU Waste Project and Status
- Overall Progress to Date
- Summary





TRU Waste (Definition)

- Alpha emitting transuranic isotopes with an atomic weight greater than 92 (uranium)
- Waste greater than 100 nanocuries per gram in weight
- Half life greater than 20 years
- DOE waste only
- Two general categories
 - Contact Handle and Remote Handle





Waste Isolation Pilot Plant

- Facility specific for disposal of TRU Waste
- Located in Carlsbad, New Mexico
- Disposal mine 2,100 feet below surface in salt formation
- Waste requires extensive characterization and certification before disposal
- Waste shipped in special trucks, trailers, and containers
- Received its first shipment in March 1999















SRS Legacy TRU Waste (History)

- Job control type waste contaminated with mainly Pu-238 and Pu-239 TRU isotopes
- Generated and stored since 1972
- 11,650 cubic meters in storage in 2002
- First shipment to WIPP in May 2001
- Received some off site waste from Mound (2003) and Battle-Columbus Lab (2005) in support of DOE initiatives
- First Site for TRUPACT-III initiative







Standard Large Box

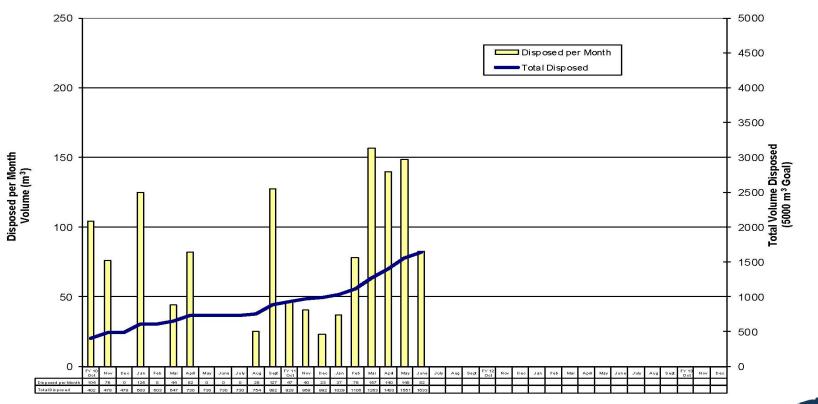
Standard Waste Box





Recovery Act Funded Accelerated TRU Project Status

Legacy TRU Waste Disposed







TRU Pad 1





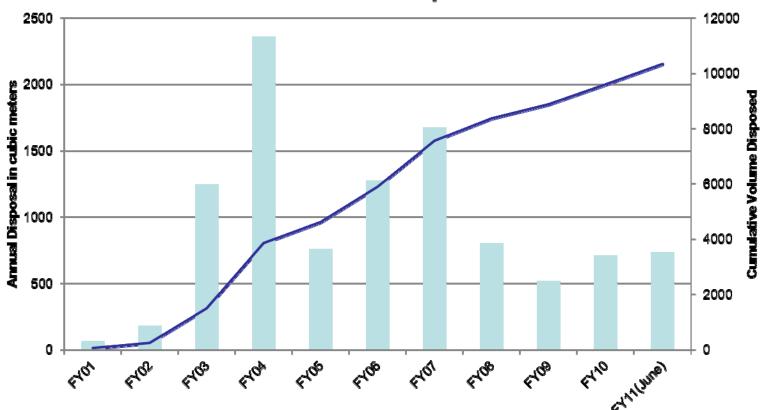






Legacy TRU Waste Disposition Progress to Date

TRU Waste Disposed







Summary

- Close to finishing legacy TRU waste disposition
- All key initiatives needed to complete project in place
 - Remediation facilities
 - Pad 1 capabilities
 - TRUPACT-III
- RA project to disposition 5,000 cubic meters by December 2012 on schedule

