



U.S. DEPARTMENT OF
ENERGY

OFFICE OF
**ENVIRONMENTAL
MANAGEMENT**

SRS Transuranic Waste Program Update

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**Presentation for the SSEB Transuranic Waste Transportation Working Group
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1. SRS Legacy TRU Waste
2. Recent Events at WIPP
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4. SRS legacy TRU Waste Inventory
5. SRS Storage of TRU Waste
6. Plans for Completing Disposal of SRS legacy TRU waste



WIPP Site and TRUPACT-II Truck

- ❑ SRS legacy TRU waste
 - Mainly generated on site from years of nuclear material processing
 - Debris type waste contaminated with plutonium -238 and -239 isotopes
 - Most of the waste was packaged and stored before the waste acceptance criteria (WAC) at WIPP was finalized



TRU Pad 1 Waste Retrieval

Recent Events at WIPP

- On February 5, 2014, underground vehicle used to transport salt caught on fire
- On Friday, February 14, at approximately 11:30 PM MST, a continuous air monitor detected airborne radiation in the underground. The monitor detected high Alpha/Beta activity, which is consistent with the type of radiation in the transuranic (TRU) waste being placed in the repository. Immediately upon activation of the monitor the air being exhausted routinely from the mine was immediately diverted through the high-efficiency particulate air (HEPA) filters to capture any contamination. The system worked as designed.
- WIPP is recovering from the February events and is not currently receiving waste shipments
- Visit the WIPP website for updated information <http://www.wipp.energy.gov>

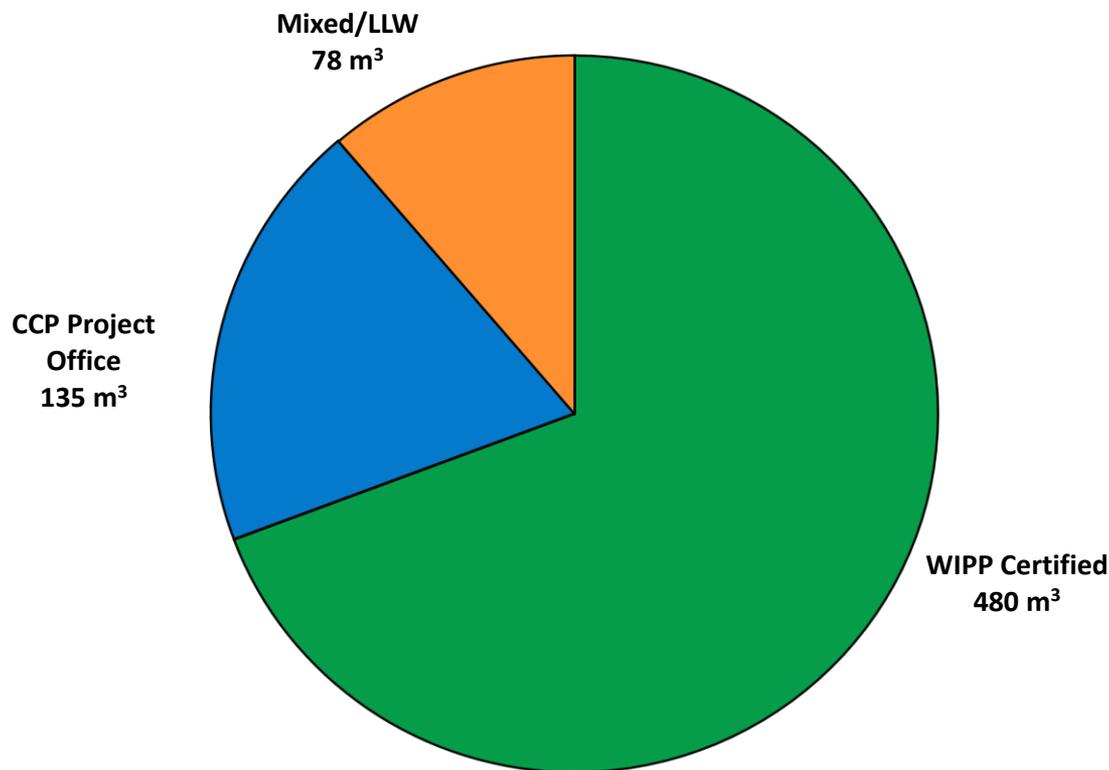
Recent Site Accomplishments

- Reduced the legacy TRU waste stored at SRS from over 12,000 cubic meters to 615 cubic meters today
- Made 1,652 shipments to WIPP
 - Completed 232 TRUPACT-III shipments to WIPP
- Completed all repackaging of legacy TRU waste containers into WIPP compliant containers
- Completed all field WIPP certification activities on SRS legacy TRU waste



WIPP Trucks leaving SRS

SRS legacy TRU Waste Inventory



Total legacy inventory is 693 cubic meters (TRU waste to WIPP is 615 cubic meters)

- SRS TRU Pads are located in E-area at the central part of the Site
- SRS TRU waste is stored in cover above grade concrete pads
- SRS TRU waste pads are permitted under Resource Conservation and Recovery Act (RCRA) by South Carolina Department of Health and Environmental Control (SCDHEC).
- TRU Waste Storage Pads also meet Federal Standards and DOE Orders for the management of radioactive waste
- TRU waste containers are inspected routinely by trained and qualified Site personnel



Plans for Completing Disposal of SRS Legacy TRU Waste

- SRS legacy TRU waste is all compliantly packaged and field certification activities complete
- Remaining waste certification activities at WIPP expected to be completed by early next year and will be ready for shipment to WIPP
- Waste will remain safe and compliantly stored on TRU waste Pads in E-area until shipped
- Approximately 125 shipments to WIPP are required to complete the SRS legacy TRU waste program



Waste disposed at WIPP

- Waste will be safely stored at SRS until it can be shipped to WIPP
- SRS has completed all field activities and will have all its legacy TRU waste certified and ready to ship
- SRS will continue to generate TRU waste