



U.S. DEPARTMENT OF  
**ENERGY**

# Savannah River Site – EM TRU Program

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*November 2022*

## SRS TRU Waste Topics

- **Status of SRS Transuranic (TRU) Waste Operations**
- **SRS TRU Waste Priorities**
  - Initiate Plutonium (Pu) Down Blends Shipments
  - Continue Legacy TRU Waste Shipments
  - Characterization of Newly Generated TRU Waste
- **SRS TRU Waste Accomplishments & Challenges**
- **Waste Isolation Pilot Plant (WIPP)**  
**Activities Remaining to initiate shipping from K-Area**





## Status of SRS TRU Operations

- **Continue to compliantly store Legacy and Newly Generated TRU waste**
  - Sufficient storage capability
- **Contact Handled (CH) TRU Characterization Capability**
  - E-Area (TRU Pad 4) re-established
  - K-Area (CCO Pad) established (Criticality Control Overpack)
- **Shipment Capability**
  - E-Area (TRUPACT-II, TRUPACT-III)
    - *Completed last 4 TP-III shipments in FY22*
    - *Completed 11 TP-II shipments in FY22*
  - K-Area (TP-II pending)
    - *Ready to ship*



## SRS TRU Waste Priorities – Surplus Pu Disposition

- **CCO Pad Operations (K-Area)**

- Storage
- Characterization: RTR8, HENC4, HENC5
  - *Hot Ops started Aug 2021*
  - *EPA Tier 1 field work Oct 2021; report Jan 2022*
  - *CBFO Audit field work Dec 2021; report Mar 2022*
    - NMED review pending
- TP-II Shipping
  - *Readiness Assessment approved Mar 2022*

(Real Time Radiography-RTR & High Efficiency Neutron Counter-HENC)





## SRS TRU Waste Priorities – SPD (Cont'd)

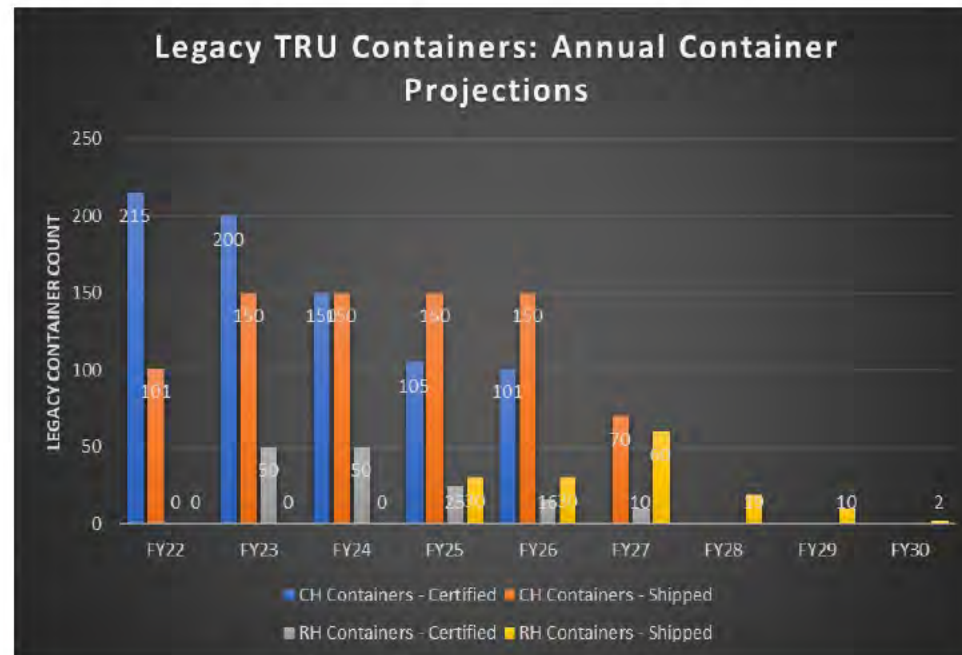
- **CCO Shipments: TP-II**

- Start 1QFY23
- Assumes initial shipping rate: 1 shipment / 2 weeks (average)
- Ramp up shipments as CCO production increases
- Shipments will continue for ~ 30 years



## SRS TRU Waste Priorities: Legacy TRU Waste

- **GOAL: Ship all SRS Legacy TRU Waste to WIPP by FY30**
- **Legacy CH-TRU Waste Shipments**
  - 670 remaining Standard Waste Boxes (SWB) and drums (as of 9/30/22)
  - < 50 shipments needed to complete mission
- **Legacy Remote Handled (RH)-TRU Waste Shipments**
  - 151 drums
  - Approx. 30 shipments needed
    - *Shipments to maximize use of SCAs*  
(Shielded Container Assemblies)





## SRS TRU Waste Priorities: Newly Generated TRU Waste

- **E-Area: Non-SPD Newly Generated TRU Waste**
  - HB-Line, SRNL, 235-F, F/H Labs, K-Area, SWMF
    - *Average < 50 CH-TRU containers per year total*
  - Storage (Pads 6, 14, 15, 17, 19)
    - *Approx. 410 SWBs and drums currently stored*
  - Characterization (Pad 4): RTR2, MILCC6  
(Mobile ISOCS Large Container Counter)
    - *> 300 drums characterized*
  - Shipping (Pad 3)
  - No repackaging or remediation capability





# SRS TRU Waste Accomplishments



- **Completion of TP-III Shipments**
  - 239 total shipments (2011 – 2022)
  - Final 7: 2019 – 2022
- **CCO Pad: Ready to Ship**
- **Final 30 POCs:**
  - Ship in early FY23



## SRS TRU Waste Program Summary

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1. SRS needs to continue to be a significant WIPP shipping Site in FY23
  - Initiate TRU waste shipments out of K-Area
  - Establish plans to complete legacy TRU waste at SRS by 2030
  - Re-establish RH shipments from SRS
2. No regulatory drivers for disposition of SRS TRU waste
3. SRS can accelerate RH shipments with SCAs
4. Significant portion of newly generated TRU waste at SRS coming from NNSA future missions

## Questions

