



U.S. DEPARTMENT OF
ENERGY



Transuranic (TRU) Waste Overview and Status

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TRU Waste Overview

- **TRU Waste Definition**

- Radioactive waste container with more than 100 nanocuries (nCi) of alpha-emitting transuranic isotopes with half-lives greater than 20 years per gram (g) of waste
- Transuranic isotopes: atomic number greater than 92
- Does not include
 - *Waste determined to be High-Level Waste*
 - *Waste determined by DOE, with EPA concurrence, that does not require isolation per 40 Code of Federal Regulations (CFR) 191*
 - *Waste approved by Nuclear Regulatory Commission for disposal per 10 CFR 61*

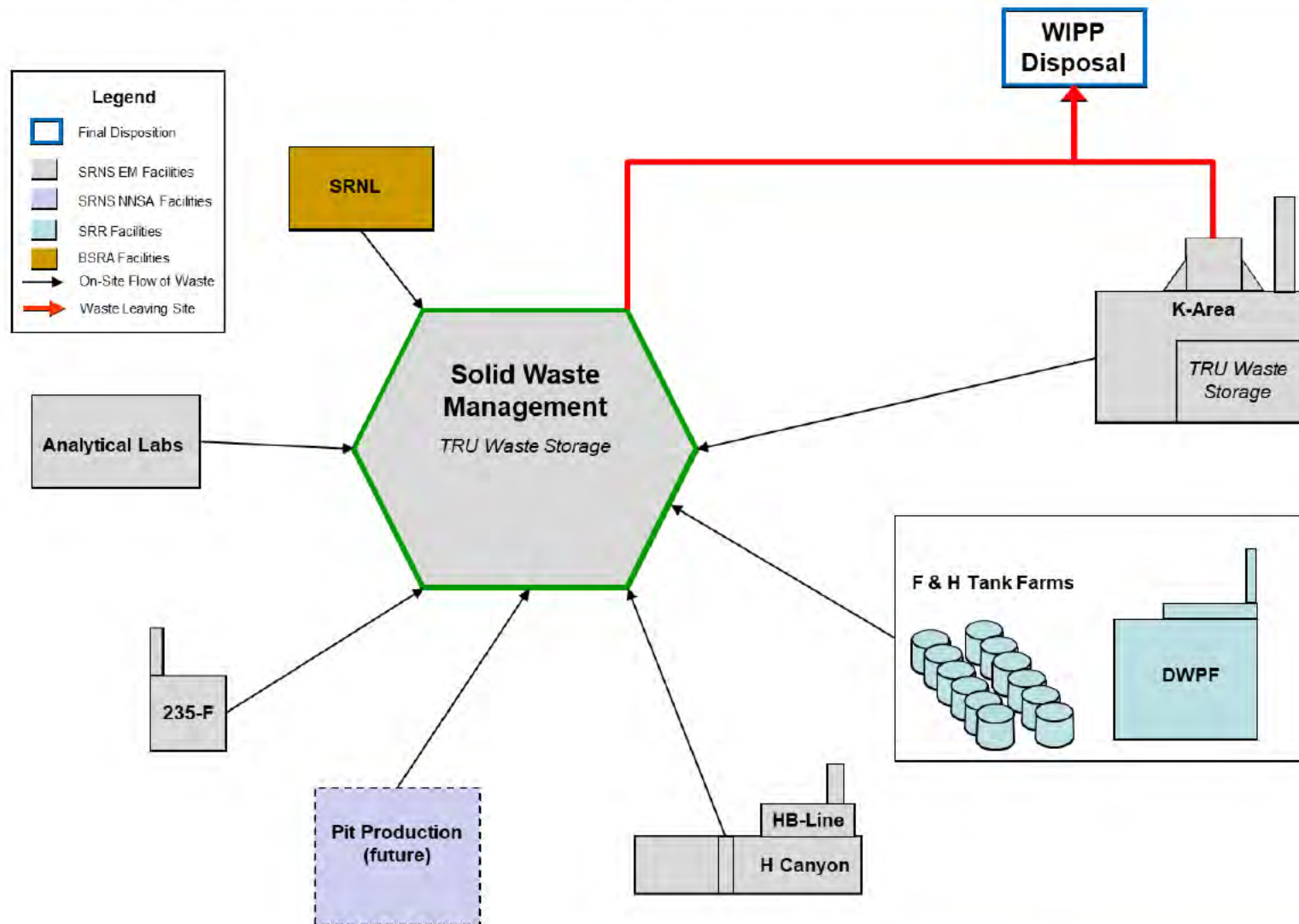
- **TRU Waste Prohibitions**

- Reactives
- Ignitables
- Corrosives
- Explosives
- Compressed Gases
- Unabsorbed Liquids
- Pressurized Containers



- 1) Standard Waste Boxes
- 2) Seven-packs of 55-gallon drums
- 3) Standard Large Box

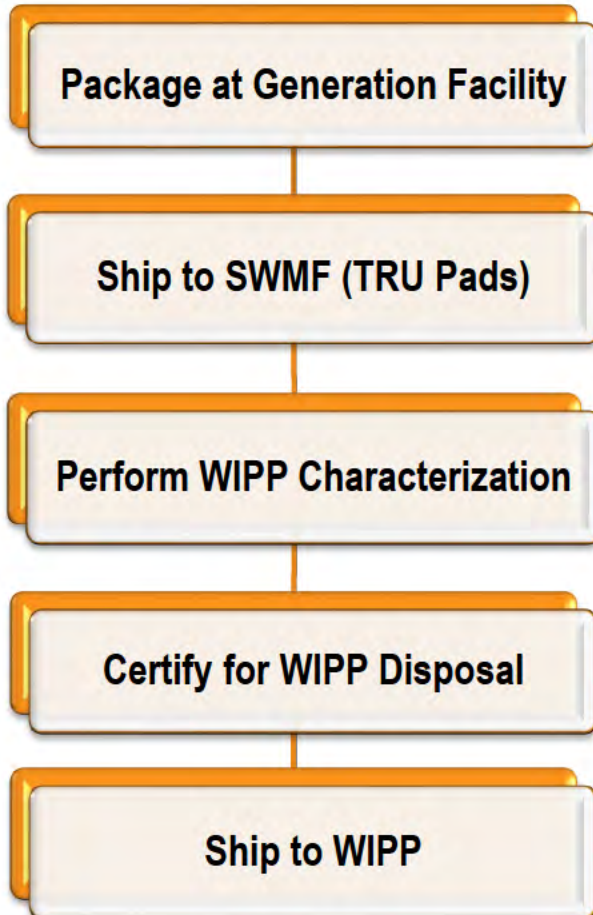
Savannah River Site (SRS) TRU Waste Generators



Solid Waste Management Facility (SWMF) (TRU Waste Facilities)



SRS TRU Waste Management (Cradle to Grave)



Transuranic (TRU) Waste Status

- **Approx. 20 cubic meters per year generated at SRS**
- **Currently 573 cubic meters stored at SWMF on TRU pads**
- **Shipments to WIPP resumed in 2017**
 - FY21: 6 shipments (61 cubic meters)
 - FY22: 4 shipments (33 cubic meters) through 12/31/21
 - Additional FY22 expected: 4+ shipments



Three Different TRU Waste Shipments Leaving SRS

Transuranic (TRU) Waste Focus Area: Plutonium Downblend (K-Area) for Disposition at WIPP

Goal: Ready to Ship Criticality Control Overpacks (CCOs) by 3QFY22

- ✓ National Environmental Policy Act (NEPA) Approval (13.1 Metric Tons)
- ✓ Criticality Container Overpack (CCO) Storage Pad Construction and Operations
- ✓ WIPP Characterization of CCOs
 - WIPP Certification (Ongoing)
 - Load and Ship (Ongoing Facility Readiness)



K-Area



Questions?

