Savannah River Remediation
Emerging Issues with U.S. DOE Prime Contractors

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Closing the Circle

Legend:
ARP – Actinide Removal Process
DWPF – Defense Waste Processing Facility
MCU – Modular Caustic Side Solvent Extraction Unit
SWPF – Salt Waste Processing Facility

- Radionuclides to glass
- Chemicals to Saltstone
- Tanks empty and closed

Legacy Liquid Waste
49 tanks, 37M gal

Salt waste

Interim Salt Processing

Salt waste

Inert chemicals

Saltstone Disposal Facility
<1% radionuclides to saltstone

Glass Waste Storage
>99% radionuclides to glass

Tanks Empty and Closed

Nuclear Materials Disposition
Tank Closure Progression

Safe Storage & Surveillance
- Tanks 1, 2, 3, 21, 22, 23, & 24

Bulk Waste Removal

Mechanical Heel Removal

Chemical Cleaning

Cooling Coil Flushing

Annulus Cleaning

Final Sampling and Isolation

Grout Tank

Tank 4 in active BWR; Tanks 7, 9, 10, 11, 13, 14, & 15 preparation

Tank 12 in progress

Tank 8 being prepped for chemical cleaning and ECC design/real waste testing in progress

Tank 16 in progress

Tanks 5, 6, 18 & 19 in progress

Tanks 17 & 20 closed
Next 12 Months

- Deploy additional technology improvements in the Liquid Waste System
- Near-term investment for lifecycle acceleration
  - Complete Recovery Act work
  - Execute Supplemental Salt treatment

Results

- Close 22 tanks by 2018
  - Four years ahead of federal and state requirements
- Complete HLW Mission 2026
  - Realize 6 Year, $3B lifecycle savings
- Demonstrate technologies for deployment in the DOE Complex
Opportunities and Challenges

- Return on Investment
- Human Capital
- Technology
- Regulatory Integration
- Partnering
- Integrated Safety Management System