A Presentation to the
SRS Citizens Advisory Board

Low-level, Mixed Low-level and Hazardous Waste Disposition

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July 25, 2011
Purpose

To provide the process and general status for low-level radioactive, mixed low-level radioactive and hazardous waste disposition at the Savannah River Site
Agenda

- Low-level Radioactive Waste
- Mixed Low-level Radioactive Waste
- Hazardous Waste
- Conclusion
E-Area Low-level Radioactive Waste Disposal Facility
Low-level Radioactive Waste Disposition Process Flow

SRS Generated Low-Level Radioactive Waste

Meets E-Area Performance Objectives
- Vaults
- Trenches

Does Not Meet E-Area Performance Objectives or Not Cost Effective for On-site Disposal
- Commercial Disposal (Energy Solutions, Utah with future potential for Waste Control Specialists in Texas)
- Offsite Federal Disposal (Nevada National Security Site)
Low-level Radioactive Waste Status

- Covers recently installed over Slit Trenches 1-5
- Depleted Uranium Oxide disposition
- No legacy waste in storage
- Only off-site receipts are from Naval Reactor facilities
Mixed Low-level Radioactive Waste Disposition Process flow

- SRS Generated Mixed Low-level Waste
  - Off-site Treatment @ Commercial Vendor
    - Energy Solutions
      - Disposal @ Energy Solutions Utah Facility
    - Permafix
      - Disposal @ Energy Solutions, Utah
  - On-site Treatment Followed by Off-site Disposal
    - Waste Control Specialists
      - Disposal @ Nevada National Security Site
    - Potential Future Disposal @ Waste Control Specialists Facility
      - Disposal @ Nevada National Security Site
    - Disposal @ Energy Solutions, Utah
      - Disposal @ Energy Solutions, Utah

* Typical vendors but not all inclusive
Mixed Low-level Radioactive Waste Status

- Two Resource Conservation and Recovery Act (RCRA) permitted treatment and storage facilities recently closed to reduce operational footprint
- Approximately 50 cubic meters legacy waste in storage undergoing radioactive decay prior to off-site treatment per the Site Treatment Plan
- Continue disposition of newly generated waste within one year of generation
- No off-site receipts

Building 710-B Hazardous/Mixed Waste Facility

N-Area Hazardous/Mixed Waste Facilities
Hazardous Waste Disposition Process Flow

- SRS Generated Hazardous Waste
- Off-site Treatment @ Commercial Vendor
- Off-site Commercial Disposal
Hazardous Waste Status

• Dispositioned 154 railcars of lead contaminated soil recently removed from the Small Arms Training Area (SATA)
• Continue disposition of newly generated waste within one year of generation
• No legacy waste in storage
• No off-site receipts
Conclusion

• Legacy waste, with one small exception, has been eliminated at the Savannah River Site
• Operational footprint has been reduced
• The Solid Waste Program is in steady-state where all waste types are being dispositioned in an efficient and timely manner