South Carolina Governor’s Nuclear Advisory Council

Update on Savannah River Recovery Act Program

March 25, 2010

Presented by
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Savannah River Recovery Act Program
Achieved Goal of 3,000

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Grand Total = 3,225 (as of March 12, 2010)
Contracts

- Savannah River Nuclear Solutions, LLC (SRNS)
  - SRNS subcontracts awarded = $271,210,801
    - $186,630,440 to small businesses †
    - $108,150,219 to local businesses ‡

- Savannah River Remediation (SRR)
  - SRR subcontracts awarded = $16,404,607
    - $9,238,468 to small businesses †
    - $11,959,832 to local businesses ‡

† Includes local and non-local businesses
‡ Includes small and large businesses
Mission Objective: Reduce Operational Footprint

Initial Target 45%

Baseline Scope 67%

New Target 75%
### Mission Objective: Disposition Legacy TRU

**Baseline** | **Path Forward**
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4,200 cubic meters of legacy waste disposed by 6/28/2012 | 4,200 cubic meters of legacy waste disposed by 12/30/2012
800 cubic meters of legacy waste in 6.6-m³ boxes (SLB) by 9/30/2012 | 800 cubic meters of legacy waste in 1.8-m³ boxes (SWB) by 9/30/2012
Development of technical approach to disposition 200 cubic meters of very difficult legacy waste | 200 cubic meters of very difficult legacy waste dispositioned by 12/31/2012
Mission Objective: Accelerate, Optimize, Integrate Tank Closure and LW Operations

- **Tank Closure**: Conduct various phases of tank closure to include waste characterization, bulk waste and heel removal, and annulus cleaning.

- **Waste Treatment**: Design and install components to enhance Defense Waste Processing Facility and Saltstone operations

- **Salt Disposition Integration**: Install salt processing infrastructure to support Salt Waste Processing Facility

- **Facility Operations**: Design and install modifications to support enhanced salt and sludge waste removal
Mission Objective: *In Situ* Reactor Decommissioning

- Final end state
- Precedent-setting
- Demonstrate in place closure for other structural monoliths
Funding: $324.5M

Accomplishments

- Submitted 710-B/N Area Closure Plan to regulators
- Completed setup in F Area to load DUO drums into sealands for shipment to ORNL
- Continuing with solid waste management operations in E Area
SR-0013.R1.2, Accelerated TRU Waste Disposition

❖ Funding: $303.6M

❖ Accomplishments

➢ Completed RTR Fastscan of 49 drums and 6 SWBs
➢ Completed remediation of 19 drums at F Canyon
➢ Overpacked 110 Pad 1 Drums
➢ Initiated ISOCS assay of SLB-2 containers from H-Canyon repackaging
➢ Initiated remediation in H Canyon Warm Shop producing 6 compliant SWBs
➢ Processed 54 TRU Pad 1 Drums through Vent and Purge
➢ Completed 17 shipments to WIPP
SR-0014C.R1.1, Liquid Waste System Recapitalization

❖ Funding: $200.0M
❖ Accomplishments – Waste Removal and Tank Closure
  ➢ Completed first RA project moving a pump from Tank 6 to Tank 5
  ➢ Completed Tank 5 Ventilation Refurbishment
  ➢ Installed Tank 13 steam line modifications
  ➢ Completed D&R of Riser 2A and 4
  ➢ Awarded contract for ECC Real Waste Test Equipment
❖ Accomplishments – Facility Operations
  ➢ Completed preliminary design for Tank 50 shielding
❖ Accomplishments – Waste Treatment
  ➢ Completed final designs for all 4 DWPF Bubblers to increase melter throughput
Funding: $165.5M

P Area Accomplishments

- Achieved mechanical completion of P Cask Car Railroad Tracks Waste Unit

R Area Accomplishments

- Achieved mechanical completion of R Cask Car Rail Road Tracks Waste Unit
SR-0030.R1.2, P-Reactor Decommissioning Project

- Funding: $142.2M
- Accomplishments
  - Completed core-drilling in the monitor-pin room roof to accommodate exhaust stacks for evaporators 7-10
  - Released contractor (Bierlein) to assemble main crane for Gantry Crane removal
SR-0030.R1.3, P-Area Ash Basin Remedial Action Project

- **Funding:** $30.0M
- **Accomplishments**
  - Started removing 35-acres of vegetation from the P Ash Basin and 007 Outfall
  - Completed hand-auger sampling at 37 locations to determine ash thickness

Vegetation Removal
SR-0030.R1.4, R-Reactor Decommissioning Project

- Funding: $149.3M
- Accomplishments
  - Placed 3,674 cubic yards of grout in the Disassembly Basin
  - Started removing non-embedded metal from the exterior of 105-R

R Reactor D & E Canal Grouting
Funding: $11.8M

Accomplishments

- Completed stockpiling more than 62,000 cubic yards of soil (fill material) from an on-site borrow pit

Excavating fill material
Funding: $17.3M

D Area Accomplishments
- Started removing PCB coating from the 420-D slab
- Started reassembly of the new Detritiation Treatability Unit

M Area Accomplishments
- Achieved mechanical completion of Soil Remediation Cells 1 & 2
- Started installing four soil vapor extraction wells
Funding: $226.5M

Accomplishments

- Completed waste characterization and core sampling at ECODS B-3 and B-5
- Initiated biohazard removal at the 293-F stack
Funding: $10.7M

Accomplishments

- Completed asbestos inspection
- Replaced ventilation exhaust blower
- Completed public comment for the RSER/EE/CA
- Removal residual water from the HWCTR basement (-52 foot-level)
Meeting Objectives

- **Employing people**
  - 3,225 at SRS

- **Contributing to local economy**
  - $120 million in local subcontracts
  - $287 million in subcontracts

- **Getting real work done**
  - Reducing operational footprint by 75%
  - First large site to disposition legacy TRU
  - First in situ decommissioning of nuclear reactors