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

<table>
<thead>
<tr>
<th></th>
<th>Saved</th>
<th>Created</th>
<th>Subtotal</th>
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<tbody>
<tr>
<td>SRR</td>
<td>495</td>
<td>475</td>
<td>970</td>
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<tr>
<td>SRNS</td>
<td>798</td>
<td>1,414</td>
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<td>Cavanagh</td>
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<tr>
<td>SREL</td>
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<td>1</td>
<td>23</td>
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<tr>
<td>DOE Staff Augs</td>
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Grand Total = 3,225  
(as of March 12, 2010)
Spend Profile

- $501M, 31% $905M, 56% $1,573M, 97%

Expenditures ($M)


P & R M & D Sitewide TRU & SW

FUNDING LEVEL

Savannah River Site

U.S. DEPARTMENT OF ENERGY

Savannah River Site

AMERICAN RECOVERY AND REINVESTMENT ACT
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

<table>
<thead>
<tr>
<th>Baseline</th>
<th>Path Forward</th>
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<tbody>
<tr>
<td>4,200 cubic meters of legacy waste disposed by 6/28/2012</td>
<td>4,200 cubic meters of legacy waste disposed by 12/30/2012</td>
</tr>
<tr>
<td>800 cubic meters of legacy waste in 6.6-m³ boxes (SLB) by 9/30/2012</td>
<td>800 cubic meters of legacy waste in 1.8-m³ boxes (SWB) by 9/30/2012</td>
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<tr>
<td>Development of technical approach to disposition 200 cubic meters of very difficult legacy waste</td>
<td>200 cubic meters of very difficult legacy waste dispositioned by 12/31/2012</td>
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</table>
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
SR-0013.R1.1, Solid Waste Disposition

- **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
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

Overpacking drums
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
SR-0030.R1.1, P-Area & R-Area Completion GPP & Operations

- 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 Railroad Tracks Waste Unit
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
SR-0030.R3.1, Site-Wide Completion
GPP & Operations

- 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

Characterization at ECODS B-3 & B-5
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