Environmental Management Appropriations, Budget & Enterprise SRS Updates

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AMMS / CFO
DOE-Savannah River
Citizens Advisory Board
November 18, 2013
Provide updates:

- Lapse of Appropriations
- Continuing Resolution for Fiscal Year 2014
- Enterprise SRS
- SRS Workforce
<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CERCLA</td>
<td>Compensation and Liability Act</td>
</tr>
<tr>
<td>D&amp;D</td>
<td>Deactivation &amp; Decommission</td>
</tr>
<tr>
<td>DWPF</td>
<td>Defense Waste Processing Facility</td>
</tr>
<tr>
<td>EM</td>
<td>Environmental Management</td>
</tr>
<tr>
<td>FY</td>
<td>Fiscal Year</td>
</tr>
<tr>
<td>LW</td>
<td>Liquid Waste</td>
</tr>
<tr>
<td>MOX</td>
<td>Mixed Oxide (mixture of plutonium and uranium oxides)</td>
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<tr>
<td>NNSA</td>
<td>National Nuclear Security Administration</td>
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<tr>
<td>RCRA</td>
<td>Resource Conservation and Recovery Act</td>
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<tr>
<td>SRNL</td>
<td>Savannah River National Laboratory</td>
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<tr>
<td>SRNS</td>
<td>Savannah River Nuclear Solutions</td>
</tr>
<tr>
<td>SRR</td>
<td>Savannah River Remediation</td>
</tr>
<tr>
<td>TRU</td>
<td>Transuranic Waste</td>
</tr>
<tr>
<td>WSI</td>
<td>Site Security Contractor</td>
</tr>
</tbody>
</table>
• Federal Fiscal Year (FY) Starts October 1

• In anticipation of a possible Government Shutdown due to a lack of appropriations authorization for FY 2014, SRS developed plans to stretch some limited FY 2013 carryover funds into FY 2014

• Various levels of operation were considered for the Site Contractors (SRNS, SRR and WSI):
  
  Normal Operations
  Minimum Safe
  Safe & Secure
  Imminent Harm Avoidance
Levels of Operations

- Normal Operations
- Minimum Safe
- Safe & Secure
- Imminent Harm Avoidance

Work Scope
Funding
Work Force

Time
Levels of Operations

Minimum Safe
- No production / processing operations
- Facilities and systems are maintained in a state of operational readiness
- Continued emergent, corrective and preventative maintenance
- Full staffing levels, trained and qualified

Safe & Secure
- Minimal level of facility operations and support in which:
  - Documented Safety Analysis/ technical Safety Requirements (DSA/ TSR) will be deferred as allowable
  - Operations sustained to remain compliant with RCRA and CERCLA
  - Emergent & correction maintenance; no preventative maintenance
  - Actions sustained to protect property and preserve human life
- Assume sixty (60) day maximum duration

Imminent Harm Avoidance
- Actions sustained to protect property and preserve human life
Lapse of Appropriations – Timeline of Events

Oct 1
Lapse of Appropriations Begins

Oct 3
SRR begins Safe & Secure posture for LW program

Oct 4
SRR Furloughs 1465 Employees

Oct 6
SRR Completely Ramped down to Safe & Secure

Oct 10
WSI Furloughs 270 Employees

Oct 11
WSI Ramped down to Safe & Secure

Oct 13
WSI Ramped down to Safe & Secure

Oct 14
DOE-SR notifies support contractors to proceed with Safe & Secure

Oct 15
SRNS Submits Contingency Plan for Safe & Secure

Oct 17
Short Term (Jan 15) Continuing Resolution Announced

Oct 18
SRS receives partial Allotment & issues Return to Work letter to contractors

Oct 21
Return to Operations at SRS
Lapse of Appropriations - Major Impacts

SRR
- 1465 Furloughs
- Grouting of Tanks 5 & 6 suspended
- Closure work on Tanks 12 and 16 suspended
- Lost Production
  - DWPF Canister Production
  - Salt Processing through ARP / MCU

WSI
- 270 Furloughs
- Security performance testing deferred
- Site access points operated at reduced hours

SRNS
- No Furloughs
- Deferred dissolution of Used Nuclear Fuel (UNF) in H Canyon
- Delayed receipt of Used Nuclear Fuel
- Delayed shipments of off-site mixed radioactive low level waste
Continuing Resolution for FY14
## Fiscal Year 2014 - Continuing Resolution

<table>
<thead>
<tr>
<th>EM BUDGET ($M)</th>
<th>FY 2013 Enacted</th>
<th>FY 2013 w/ Reprogramming</th>
<th>FY 2014 Congressional Request</th>
<th>FY 2014 Continuing Resolution (thru January 15th)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRS Risk Management Operations</td>
<td>313</td>
<td>398</td>
<td>432</td>
<td>92</td>
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<tr>
<td>Radioactive Liquid Tank Waste</td>
<td>613</td>
<td>613</td>
<td>553</td>
<td>162</td>
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<tr>
<td>Glass Waste Storage Building #3</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td>0</td>
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<tr>
<td>Salt Waste Processing Facility</td>
<td>156</td>
<td>72</td>
<td>92</td>
<td>27</td>
</tr>
<tr>
<td><strong>Subtotal, Environmental Cleanup</strong></td>
<td><strong>1,085</strong></td>
<td><strong>1,083</strong></td>
<td><strong>1,077</strong></td>
<td><strong>281</strong></td>
</tr>
<tr>
<td>Community &amp; Regulatory Support</td>
<td>9</td>
<td>11</td>
<td>11</td>
<td>3</td>
</tr>
<tr>
<td>Safeguards &amp; Security</td>
<td>120</td>
<td>120</td>
<td>121</td>
<td>35</td>
</tr>
<tr>
<td><strong>Total SRS EM Budget Authority</strong></td>
<td><strong>1,214</strong></td>
<td><strong>1,214</strong></td>
<td><strong>1,209</strong></td>
<td><strong>319</strong></td>
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enterprise•SRS Update

Located on the Savannah River, in Aiken and Barnwell counties in South Carolina

Chosen for its location, chemistry, land quality, soil characterization, and construction costs
What is enterprise•SRS?

- **enterprise•SRS** was introduced as the site’s strategic vision in the 2011 Savannah River Site Strategic Plan.

- Current Environmental Management (EM) and National Nuclear Security Administration (NNSA) missions are critical components of **enterprise•SRS**.

- **enterprise•SRS** is a transformational strategy for an enduring sustainable future for SRS.
Transformation

Located on the Savannah River, in Aiken and Barnwell counties in South Carolina.

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National Needs

Current SRS Missions

New SRS Missions and Opportunities

Mission

Funding

People

Value

TIME

safety  performance  cleanup  closure

www.energy.gov/EM
• Successfully execute current EM and NNSA missions.

• Leverage those unique nuclear materials capabilities and expertise for the benefit of the nation.

• Identify new opportunities within global business segments of Environmental Stewardship, National Security and Clean Energy to enable a transformation of SRS to a sustainable future.
SRS Strategic Initiatives identified in Strategic Plan

- Nuclear Materials Disposition Paths
- Secure Nuclear Fuel Cycles
- Center of Nuclear Materials Research
- Liquid High Level Waste Dispositioning
- Next Generation Cleanup Technologies
- National Center of Radioecology
- Tritium Center of Excellence
- Small Modular Reactors Deployment
- National Security
- Helium 3 Supply
- Revitalization of Site Assets
- Alternative Energy Projects
Based on lessons learned from two years of enterprise-SRS “under our belt,” we are sharpening our efforts through:

- **Grouping Initiatives into logical Focus Areas**
  - Surplus Nuclear Materials Management
  - Environmental Risk Reduction
  - Next Generation Tritium Supply
  - Global Monitoring & Securing of Nuclear Materials

- **Prioritizing Initiatives by:**
  - Sponsorship / Funding
  - Resources Available
  - Return on Investment
  - Probability of Success
Focus Area Grouping and Prioritization of Initiatives

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<th>Priority 1 Initiatives</th>
<th>Priority 2 Initiatives</th>
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<td><strong>Crosscutting</strong></td>
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Current Missions: Critical components of enterprise - SRS

**EM Cleanup**
- Nuclear Materials Disposition
- Used Nuclear Fuel Receipt, Storage & Disposition
- Radioactive Liquid Waste Stabilization & Disposition
- Solid Waste Disposition
- Soil, Groundwater & Facilities Deactivation & Decommission

**NNSA**
- Tritium Supply
- Surplus Plutonium Disposition
- Secure Global Materials
## Alignment of Current Missions

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<td>• EM Solid Waste</td>
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Why enterprise: SRS Matters

- Transform legacy nuclear materials into valuable assets and stable waste forms.
  - Unique processing capabilities including H Canyon, Defense Waste Processing Facility (DWPF) and Mixed Oxide Fuel Fabrication (MOX)
- Develop highly innovative approaches to address national nuclear material challenges.
  - Intellectual leadership and Research & Development (R&D) with the Savannah River National Laboratory
- Secure materials to prevent unwanted global proliferation.
- Sustain the nation’s only tritium supply for our nuclear weapons deterrent.
- Provide economic impact to the region while reducing environmental risk.
• **We are making progress in light of budget reductions:**
  
  Used Nuclear Fuel Processing  
  Liquid Waste Canister Production  
  Plutonium Preparation for MOX  
  Next Generation Liquid Waste Solvent  
  TRU Shipments off Site  
  Foreign Material Receipts  
  Nuclear Forensics  
  Tritium Supply

• **Additional opportunities within e-SRS initiatives and focus areas are currently being developed and verified and will be shared with the CAB in future meetings.**
SRS Workforce

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