



U.S. DEPARTMENT OF  
**ENERGY**

OFFICE OF  
**ENVIRONMENTAL  
MANAGEMENT**

# Environmental Management Appropriations, Budget & Enterprise SRS Updates

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**Citizens Advisory Board**

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## Provide updates:

- Lapse of Appropriations
- Continuing Resolution for Fiscal Year 2014
- Enterprise SRS
- SRS Workforce

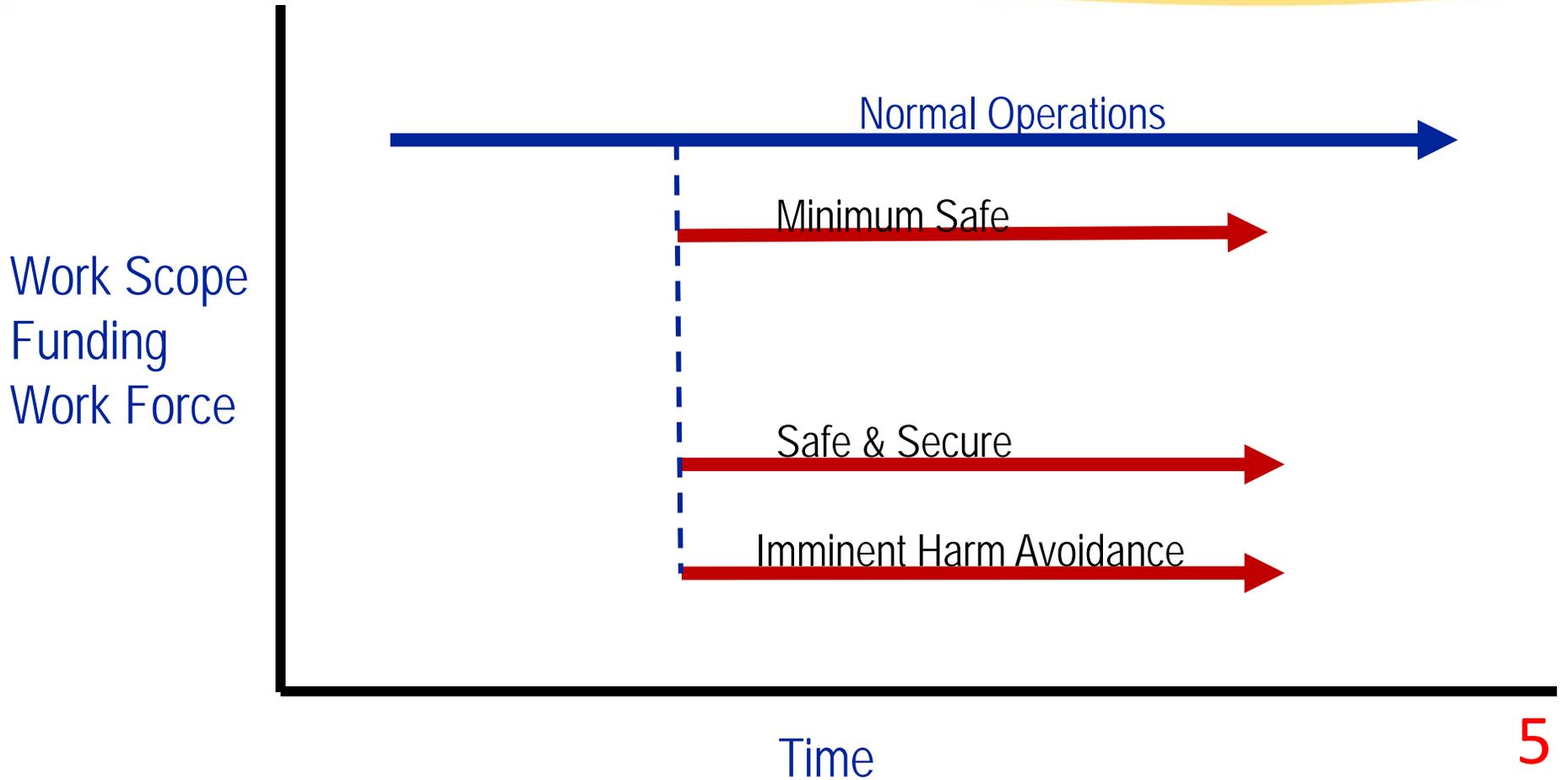
# Acronyms

CERCLA	Compensation and Liability Act
D&D	Deactivation & Decommission
DWPF	Defense Waste Processing Facility
EM	Environmental Management
FY	Fiscal Year
LW	Liquid Waste
MOX	Mixed Oxide (mixture of plutonium and uranium oxides)
NNSA	National Nuclear Security Administration
RCRA	Resource Conservation and Recovery Act
SRNL	Savannah River National Laboratory
SRNS	Savannah River Nuclear Solutions
SRR	Savannah River Remediation
TRU	Transuranic Waste
WSI	Site Security Contractor

## Lapse of Appropriations - Background

- 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



## 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

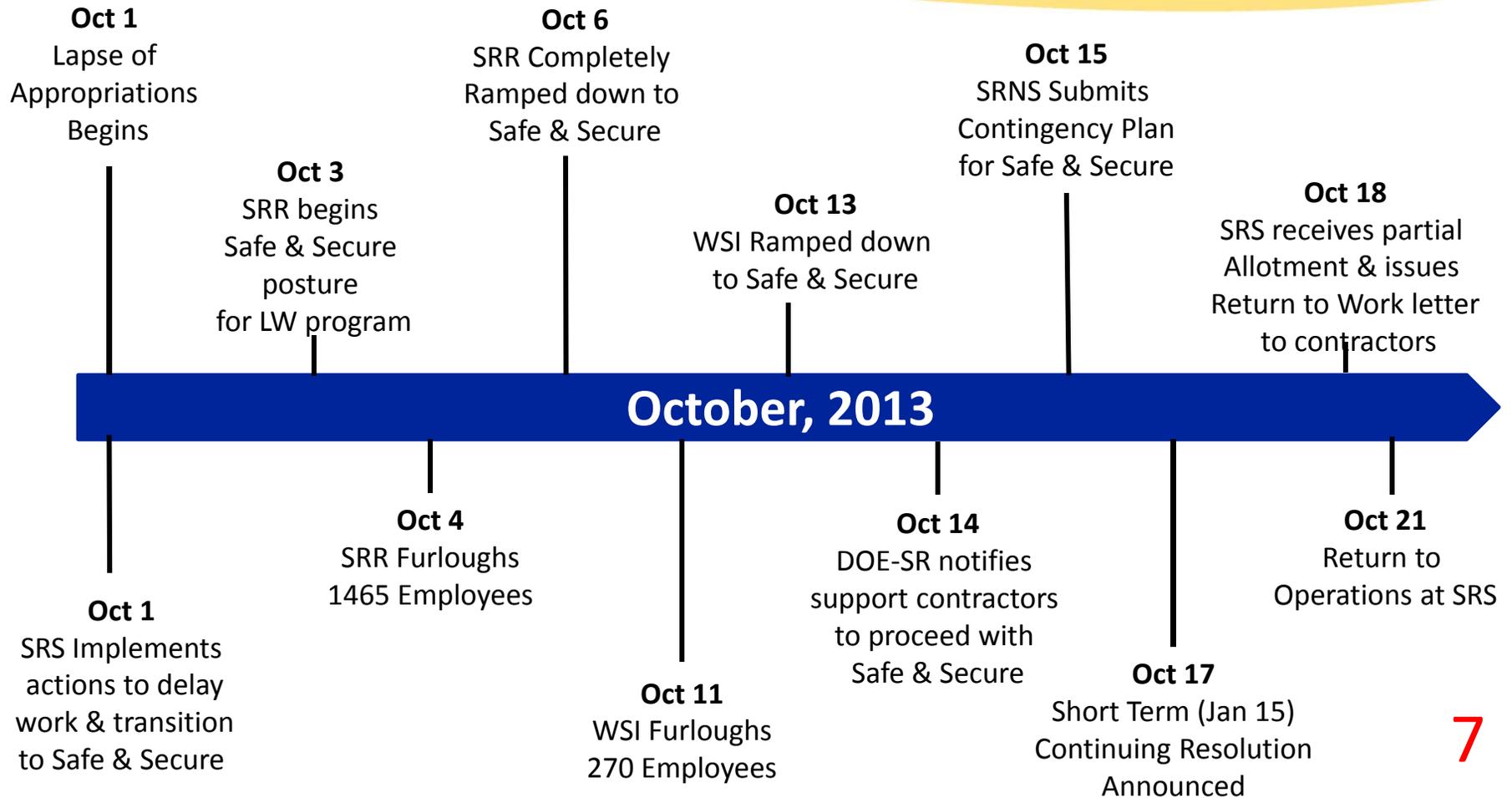
## Safe & Secure

- 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



# 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

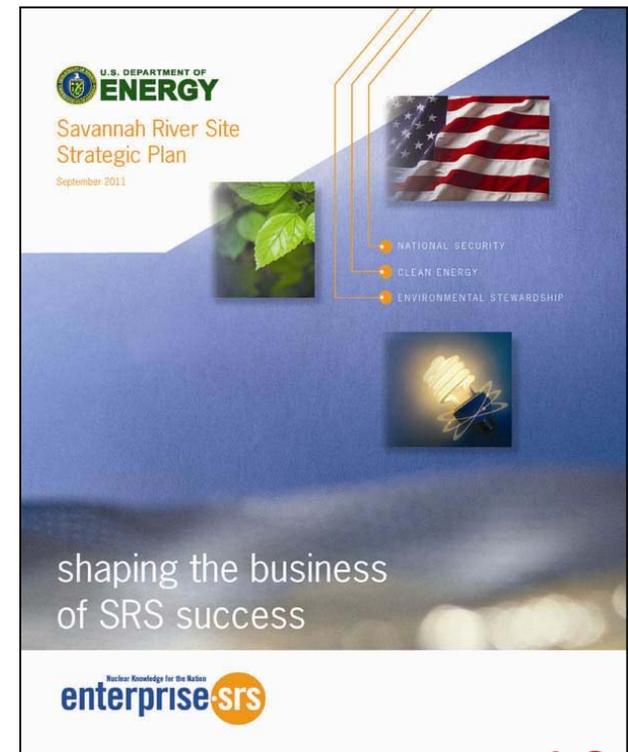
EM BUDGET (\$M)	FY 2013 Enacted	FY 2013 w/ Reprogramming	FY 2014 Congressional Request	FY 2014 Continuing Resolution (thru January 15th)
SRS Risk Management Operations	313	398	432	92
Radioactive Liquid Tank Waste	613	613	553	162
Glass Waste Storage Building #3	3	0	0	0
Salt Waste Processing Facility	156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

# enterprise•SRS Update

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# 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.



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## National Needs



- 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.

## enterprise•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

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# Grouping & Prioritization of Strategic Initiatives

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

Focus Area	Priority 1 Initiatives	Priority 2 Initiatives
<i>Surplus Nuclear Materials Management</i>	Nuclear Materials Disposition Paths	Secure Nuclear Fuel Cycle Center of Nuclear Materials Research
<i>Environmental Risk Reduction</i>	Liquid High Level Waste Dispositioning Next Generation Cleanup Technologies	National Center of Radioecology
<i>Next Generation Tritium Supply</i>	Tritium Center of Excellence	Small Modular Reactors Deployment
<i>Global Monitoring &amp; Securing of Nuclear Materials</i>	National Security	Helium 3 Supply
<i>Crosscutting</i>	Revitalization of Site Assets Alternative Energy Projects	

# 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

Focus Area	Priority 1 Initiatives	Priority 2 Initiatives
<i>Surplus Nuclear Materials Management</i>	<p>Nuclear Materials Disposition Paths</p> <ul style="list-style-type: none"> <li>EM Nuclear Materials Disposition</li> <li>NNSA Surplus Plutonium Disposition</li> </ul>	<p>Secure Nuclear Fuel Cycle</p> <p>Center of Nuclear Materials Research</p>
<i>Environmental Risk Reduction</i>	<p>Liquid High Level Waste Dispositioning</p> <ul style="list-style-type: none"> <li>EM Liquid Waste</li> </ul> <p>Next Generation Cleanup Technologies</p> <ul style="list-style-type: none"> <li>EM Solid Waste</li> <li>EM Soil, Groundwater, Facilities D&amp;D</li> </ul>	<p>National Center of Radioecology</p>
<i>Next Generation Tritium Supply</i>	<p>Tritium Center of Excellence</p> <ul style="list-style-type: none"> <li>NNSA Tritium Supply</li> </ul>	<p>Small Modular Reactors Deployment</p>
<i>Global Monitoring &amp; Securing of Nuclear Materials</i>	<p>National Security</p> <ul style="list-style-type: none"> <li>NNSA Secure Global Materials</li> <li>EM Used Nuclear Fuel Receipt &amp; Storage</li> </ul>	<p>Helium 3 Supply</p>
<i>Crosscutting</i>	<p>Revitalization of Site Assets</p> <p>Alternative Energy Projects</p>	<b>19</b>

## 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.

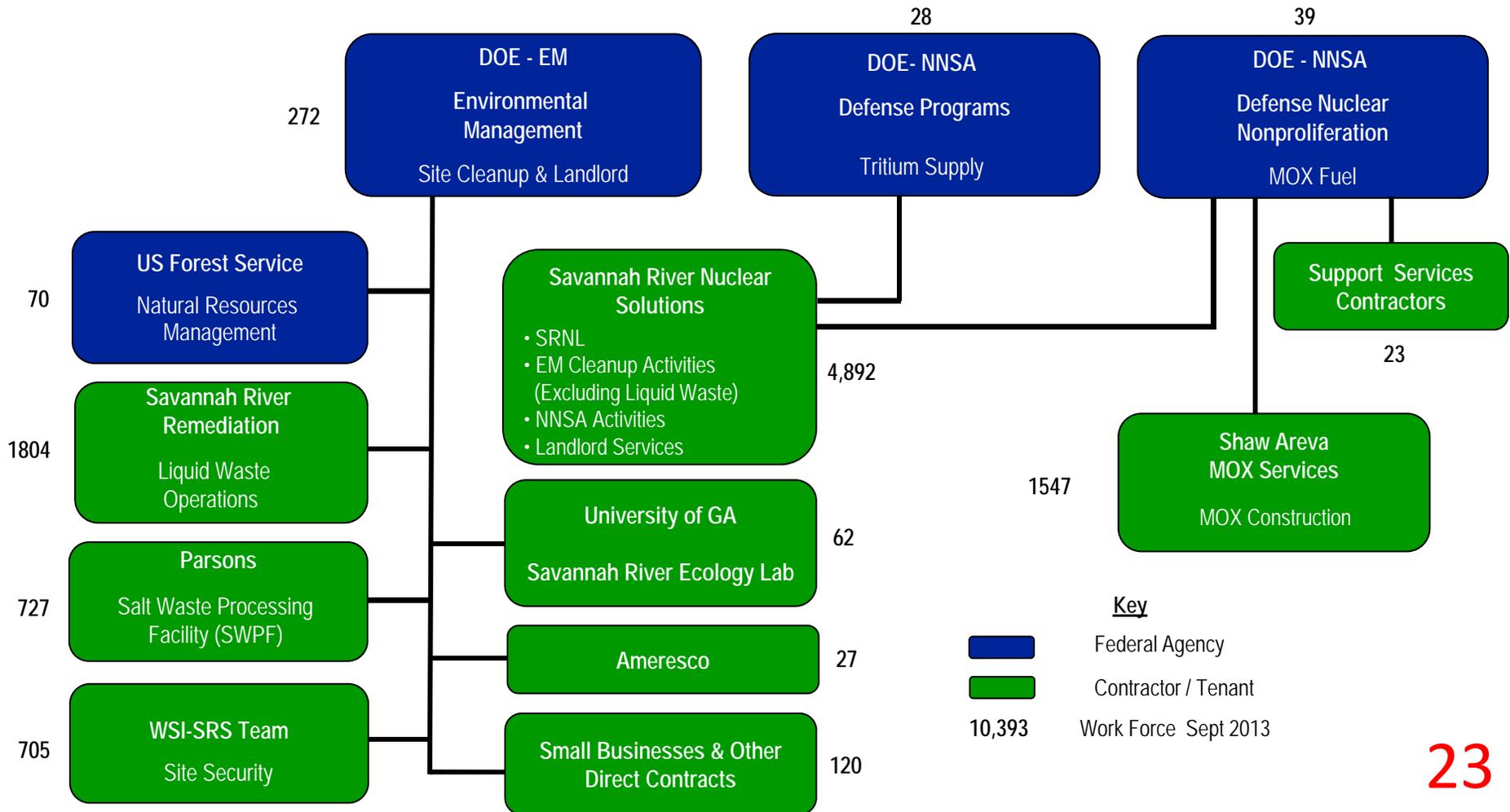
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- **We are making progress in light of budget reductions:**
  - Used Nuclear Fuel Processing
  - Liquid Waste Canister Production
  - Plutonium Preparation for MOX
  - Next Generation Liquid Waste Solvent
  - TRU Shipments off Site
  - Foreign Material 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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# SRS Workforce – September, 2013



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# SRS Workforce - Historical

