

SRNS Update

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Governor's Nuclear Advisory Council

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SRNS: Supplying solutions around the world



Environmental Stewardship
for soil, water and facilities



Nuclear Materials for National Security
nuclear weapons deterrent



Securing Nuclear Materials
to prevent unwanted proliferation



Transforming Nuclear Materials
into assets and stable wasteforms



Savannah River National Laboratory
putting science to work



Additional Support Services
Emergency Services • Water • Electrical
Cyber/IT • Roads • Construction • Maintenance

6,900
Employees
“Making the World Safer”

World-class safety culture
•
Strong community support

COVID-19 Site Integrated Response



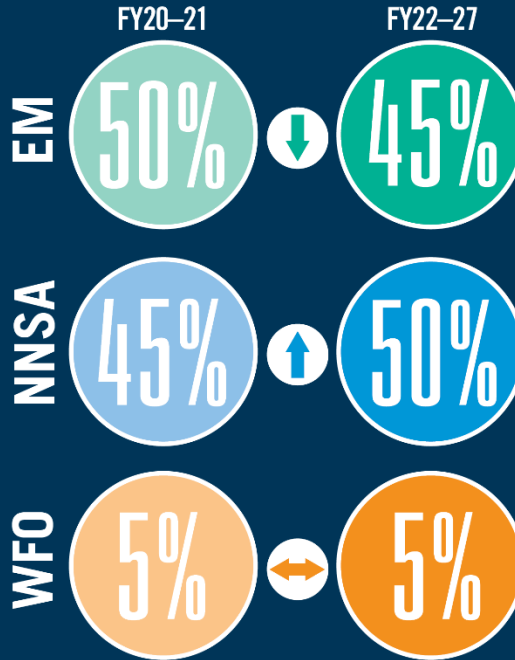
COVID-19 Site Integrated Response



Changing SRNS Customer Landscape

Our Missions

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Environmental Management

Management, stabilization and disposition of nuclear materials
Management and disposition of solid, liquid and transuranic wastes
Spent fuel management
Environmental remediation and cleanup

National Nuclear Security Administration

Tritium operations and extraction
Helium-3 recovery
Nonproliferation support
Uranium blending and shipping
Foreign fuel receipts

Work for Others

Other federal agencies
Other DOE sites
Private industry
Other minor entities

+ ADDS

MOX Termination
Proposed Pit Production Mission
Surplus Plutonium Disposition Acceleration
Tritium Finishing Facility

Delivering on EM Commitments

- K Area Operations plutonium blend down of 3013 containers
- L Area FRR/DRR fuel receipt and storage
- Accelerating spent fuel dissolution shipments from L Basin to H Canyon
- HB Line Layup and control room consolidation
- Discard of SRE to Sludge Batch 10
- 235-F and F/H Lab Layup/Deactivation
- Accelerated deactivation and decommissioning of (5) D Area buildings
- Achieved mechanical completion of D Area Coal Storage Yard
- Collect/analyze more than 10,000 environmental and groundwater samples
- Deploy innovative groundwater remediation technologies



U.S. DEPARTMENT OF
ENERGY



National Nuclear Security Administration

- Delivered pSRPPF CD-1 and Life Cycle Cost Estimate
- Established knowledge transfer program with LANL
- Execute Characterization and Storage Pad General Plant Project
- Achieve (4) shift operations of K Area Interim Surveillance Glovebox
- Deliver the Surplus Plutonium Disposition Project
- Complete government property disposition at MOX Termination Project
- Conduct three major outages at Savannah River Tritium Enterprise
- Perform six tritium extractions in 12 months
- Deliver B61-12 First Production Unit
- Developed critical path forward on Tritium Finishing Facility



Savannah River National Laboratory

Program Growth & Cost Effectiveness

- ~ 20% growth in program execution over past 2 years
 - FY21 first quarter program execution almost 10% higher than previous 2 years
- Surpassed \$400M in authorized budget for the first time
- Reduced overhead costs by approximately 10% over past 2 years



Modernizing Facilities

- A-Area Fire Water project completed
 - Exit of long-standing Justification for Continued Operations (JCO)
- Lab Consolidation –SRNL analytical functions moved from F-Area to A-Area
- Replacement of final three Shielded Cell Windows in second quarter of FY21
- Enhanced use of overhead funds with investment in new equipment
- Georgia Cyber Center – move in March

Impactful Programs

- EM cleanup program impacts
- Multiple NNSA program expansion
- Office of Science expansion
- Advanced Manufacturing initiatives
- National Training and Test Range
- Partnership with Army Cyber Command
- Discovery Science initiative through LDRD program
- Over 80% increase in external publications

Workforce

- Over 400 new staff in past 2 years
 - Average age down to 45
 - Several strategic hires
- Revitalized Post Doc program
 - ~ 30 Post Docs
 - Established Eisenhower post doc program
 - Process for conversion to staff
- Established Laboratory Fellow program
- Mentoring, personnel development, and recognition

Workforce for the Future

- Announced major apprenticeship initiative for SRS and CSRA with SC Governor
 - Current SRNS Apprenticeships
 - Production Operators (23)
 - Process Software & Software Engineers (8)
 - Records management (2)
 - Future SRNS Apprenticeships in process
 - E&I Maintenance Mechanics; Radcon Inspector; Project Controls; Fire Protection; Supply Chain; System Engineer
- 19 active MOU partners in education
 - Now including all eight SC Historically Black Colleges & Universities
- Robust internship program
- Targeting WORC grant recipients
 - Scholarships funded by DOE/NNSA
- Focused succession planning and mentoring programs

