INNOVATION • DEFENSE
NONPROLIFERATION • ENVIRONMENT





We make the world safer.

SRNS Fall 2023 Update

J.C. Wallace

EVP and NNSA COO, Savannah River Nuclear Solutions

Governor's Nuclear Advisory Council, October 2023



6,700 Employees "Making the world safer."





Savannah River Site Aiken, S.C.

310 square-mile site 12,700 employees



SRNS Budget

MISSION AREAS



Environmental Stewardship

for soil, water and facilities

Nuclear Materials for National Security

for nuclear weapons deterrent

Securing Nuclear Materials

to prevent unwanted proliferation

Transforming Nuclear Materials

into assets and stable wasteforms

M&(

M&O Support Services

21000001



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
Nonproliferation support
Foreign fuel receipts
Surplus Pu Disposition
Pu Modernization
SRPPF Project
Tritium Finishing Facility

210000008

SRS Landlord Transition Plan



EM and NNSA worked collaboratively to prepare a landlord transition plan to accomplish a seamless SRS transition with fairness and continuity for on-going programs.

The Plan includes the following:

- Transfer of four major responsibilities from SROO to NNSA:
 - Management and Operating (M&O) contract, including Landlord and Essential Site Services (ESS)
 - Protective Force Contract
 - K Area Complex (KAC)
 - Environmental Permits / Agreements
- Accounts for responsibility and management of functions transferring from SROO/EM to SRFO/NNSA at SRS
- Supports NNSA assumption of primary site management responsibility and budget authority by functions in FY25 and accomplishes Landlord transition on October 1, 2024 (FY25)

SRS Landlord Transition Milestones



SRPPF Pit Production Update





· Repurposing a seismically-qualified structure

- 400,000 square feet of Hazard Category-2 space
- Interior walls of reinforced concrete for personnel shielding and durability for 50-year facility design life
- FY23 and FY24 work focused on:
 - Achieving 60% design complete milestone
 - Removing unnecessary walls and equipment from existing 226-F structure
 - Procurement of gloveboxes (~\$1.2B total spend) and other critical long lead items
 - Site prep and early construction work packages
- Recently awarded a Construction Management (CM) subcontract to Fluor Federal Services. As the CM subcontractor, Fluor will utilize its significant Engineering, Procurement, and Construction experience to promote efficiency and ensure continuity through project completion

Pit Production Program Staffing







Maintenance



Operations

More than 1/3 of





IT and OT





Engineers

- Mechanical
- Electrical

Chemical

- Civil
- Environmental
- Criticality
- Info Systems
- Metrology
- Electrorefining



- Mechanics
- Rigging
- Electrical

HVAC

- total staff High precision
 - machining
 - Welding

Laboratory

- Analytical Chemistry
- Materials Characterization

Engineers

- Technicians
- Computer **Analysis**
- Cybersecurity
- Automation
- Network **Architects**
- Database **Designers**

ESH & QA

- Industrial Hygiene
- Safety & Health
- Rad Control
- Quality Assurance

Training and **Procedures**

- Engineering
- Maintenance
- Operations
- Laboratory
- IT / OT
- ESH
- QA

~1,800 Employees

Over half are non-exempt, open to personnel with associate degrees, certificates or other non-baccalaureate qualifications

Surplus Plutonium Disposition Mission



SRS exceeded its FY23 downblend target by 11% completing 111/100

Began shipments from K Area to WIPP

• SRS completed 13 out of 15 planned shipments to WIPP in FY23

 Lower than expected caused by WIPP pause due to non-SRS related issue

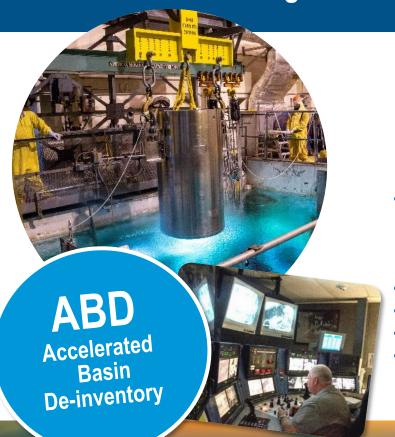
SPD Project to expand capability 99% complete with design

Fabrication of first glovebox completed



Nuclear Materials Management





Innovative Approaches to Nuclear Materials Challenges

- H Canyon accelerating spent fuel dissolution and direct discard to high level waste tanks
 - Due to ABD mission, H-Canyon successfully transferred 400kgs of Uranium to High-Level Waste tanks
- New Fast Critical Assembly mission using electrolytic dissolver (2024)
- High Assay Low Enriched Uranium (2025)
- Non-Aluminum Spent Nuclear Fuel (2026)
- Ongoing domestic and foreign fuel receipts in L Area

FY 23 SRNS Small Business Impact



\$223,728,223

Total Commitments to local small businesses

\$708,975,847

Total Commitments to small businesses

Percentage of Commitments

Local Total

23.3%

63.8%



INNOVATION • DEFENSE
NONPROLIFERATION • ENVIRONMENT

SRIS

Savannah River Nuclear Solutions
We make the world safer.







