A New Day at Savannah River

Dave Olson, President and Program Manager

April 11, 2022
Savannah River Mission Completion

Teaming Partners

Proudly led by

amentum

Integrated subcontractors

BWXT

fluor

Responsible for eliminating radioactive liquid waste produced from Cold War era nuclear weapons production

- SRMC’s 10-year contract began on February 27, 2022
- Current workforce of ~3,100 employees (including subcontractors)
How We Stay In Alignment

CORE VALUES

SAFETY
RELIABILITY
MUTUAL RESPECT
CONTINUOUS IMPROVEMENT
Provide a comprehensive risk-based methodology to the SRS legacy cleanup project, such as the dispositioning of radioactive liquid waste through the Salt Waste Processing Facility.

**Scope**
- Project Management and Support Services
- Liquid Waste Stabilization/Disposition
- May include Nuclear Materials Management and Stabilization

Contract value: estimated ceiling of approximately $21 billion over a 10-year ordering period.

In addition, SRMC will integrate the Salt Waste Processing Facility into the SRS liquid waste system to maximize salt waste processing and tank closures.
SRMC is committed to partnering with the DOE to seamlessly and safely transform SRS liquid waste operations to an end state-driven culture of completion.

Five primary initiatives in order to meet the goals of the DOE’s end state contracting model:

- Liquid waste system optimization and improvement
- Services review and cost reduction
- Work process improvement
- Enhanced workforce / small business utilization
- Risk-based, end-state regulatory partnering
Supporting the Community

Small business outreach

- Committed to subcontract 20% of the cumulative value of task orders to small businesses
- Maximize meaningful small business participation in our accelerated cleanup
- Further enlarge the qualified small business pool

Community investment

- SRMC’s community commitment covers four primary areas:
  - Regional educational outreach
  - Regional purchasing programs
  - Community support
  - Workforce and economic development
- We will seek community input on plans
Liquid Waste Path

Saltstone

Saltstone Disposal Units

Waste Solidified

Low-Level Waste Extracted

Salt Waste Processing Facility

Salt

High-Level Waste Extracted

Defence Waste Processing Facility

Glass Waste Storage Buildings

Waste Solidified

Salt

124 M curies (53%)
32 M gallons (93%)

Sludge

110 M curies (47%)
3 M gallons (7%)

Radioactivity: 227 million curies
Volume: 34.2 million gallons
Inventory values as of March 31, 2022

Sludge

124 M curies (53%)
32 M gallons (93%)

110 M curies (47%)
3 M gallons (7%)

Legacy Liquid Waste

F Canyon

H Canyon

Waste Tanks

43 Tanks

Radioactivity: 227 million curies
Volume: 34.2 million gallons
Inventory values as of March 31, 2022

Tank Closures Continue
6 tank closures completed;
8 total at SRS
**Liquid Waste Facilities Overview**

**Salt Waste Processing Facility**
- **Est. 2020**
- SRS’ newest liquid waste facility: Innovative, two-step clean-up process treating H Tank Farm waste stream
- Began operations January 18, 2021
- Decontaminates waste using proven technology piloted by SRR
- Will process majority of Site’s tank waste

**Tank Closure Cesium Removal**
- **Est. 2019**
- Supplemental at-tank process that is removing cesium, a highly radioactive element, from the salt waste; located in H Tank Farm
- Pilot demonstration to assist in acceleration of tank closure
- 300,000 gallons total processed
- TCCR-1A deployed at Tank 9

**These facilities will process 90 percent of the tank waste stored at the Savannah River Site**
All Liquid Waste Systems have been successfully operated to support SWPF and now the entire liquid waste system is under one contract.

Two million gallons processed at SWPF in first year, which ended in January.

SWPF processing leading to many processing records for a single Fiscal Year (FY):

- SRR has transferred more salt waste than ever before, breaking Tank Farm Fiscal Year record for total salt waste transferred to a processing facility, set in FY13.
- Saltstone Production Facility has produced and poured over 5 million gallons of grouted decontaminated salt solution for permanent disposition in Saltstone Disposal Units.

Every day is a new production record!
Liquid Waste Facilities Overview

- 33-million-gallon capacity Saltstone Disposal Units (SDUs)
- 43 feet high, 375 feet in diameter
- Supports larger output from SWPF
- 7 mega units needed versus ~80 smaller ones
- Saves $500 million over program lifecycle

Mega SDUs = 10x size of old-style units

Volume equal to 55 Olympic-sized swimming pools!