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SAVANNAH RIVER REMEDIATION: DELIVERING RESULTS IN 2020

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Safety **SRR** **Integrity** **SRR** **Ownership** **SRR** **Teamwork** **SRR** **Continuous Improvement**



My Management Philosophy

Mission

To eliminate the most significant environmental hazard in the state of South Carolina

Vision

1. We will safely improve the world
2. We will strive to be event free and learn from mistakes
3. We will be proud of what we do and how we do it
4. Every person will come to work knowing they will be valued and go home feeling they accomplished something wonderful

SRR **VALUES & EXPECTATIONS**
Savannah River Remediation
(SRR) (SRR) (SRR) (SRR) (SRR)

SAFETY

TEAMWORK **INTEGRITY** **OWNERSHIP**

CONTINUOUS IMPROVEMENT

<p>1. Safety</p> <ul style="list-style-type: none"> a. Conduct all activities in a disciplined manner b. Follow procedures or change them c. Take your safety and the safety of your co-workers personally — 24/7 d. Use time out or stop work when things aren't right e. Actively support safety programs and initiatives <p>2. Integrity</p> <ul style="list-style-type: none"> a. Tell the truth, all the time b. Do what you say you are going to do c. Model high standards <p>3. Ownership</p> <ul style="list-style-type: none"> a. Admit your mistakes and take responsibility b. Hold yourself and others accountable c. Have a positive attitude d. Give your best everyday 	<p>4. Teamwork</p> <ul style="list-style-type: none"> a. Respect each other and actively listen b. Express opinions without attacking others c. Treat others as you would like to be treated d. Help each other achieve our mission e. Show flexibility in meeting goals and commitments f. Recognize co-workers for exceptional performance g. Communicate "why" <p>5. Continuous Improvement</p> <ul style="list-style-type: none"> a. Learn from mistakes and successes b. Demonstrate a questioning attitude c. Eliminate non-value-added tasks d. Have a bias for action to fix issues e. Support individual development initiatives
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- Savannah River Remediation is responsible for eliminating radioactive liquid waste produced from Cold War era nuclear weapons production
- SRR contract began on July 1, 2009
- Contract extended to September 30, 2021
- DOE has issued a Request for Proposal on the new Integrated Mission Completion Contract
- Current workforce of ~2,600 employees (including subcontractors)

Safety is a Value

- Strong Nuclear Safety Culture
 - Employees engaged - behavioral safety, **“brother’s keeper,” feedback mechanisms, etc.**
- Record-setting worker safety
 - 11 million safe hours without a missed day of work injury
 - Achievement reached 2018
 - Highest operations total since contract began
 - SRR Construction >32 million safe work hours (22 years)
- Safety Recognition
 - Multiple state and national safety awards each year
 - Star of Excellence, Legacy of Stars (Voluntary Protection Program Participants Association)
 - Occupational Achievement Award, Industry Leader (National Safety Council)
 - Palmetto Shining Star (S.C. Dept. of Labor, Licensing and Regulation)



Pre-COVID-19

- SRS currently in Phase 1 of Return to Operations
 - Many protocols in place:
 - Fitness-for-Duty self-checks
 - Sanitization stations and routine cleaning
 - Social distancing & use of face coverings
 - Separating shift from day personnel
 - Restricting fans & increased ventilation
 - Vehicle occupancy protocols
 - Increased Management Field Observations
 - COVID-19 safety observations
- SRR continuously improving response
 - SRR developed a Response Plan, Contingency Action Plan, and Return to Operations Plan to address the COVID-19 pandemic
 - Plans are continuously revised to meet safety and health of the workforce and community
 - SRR converted 40% of the workforce to effectively telework and continues to protect personnel
- All mission work is being accomplished
 - Planning has begun to start bringing back teleworkers in a phased approach

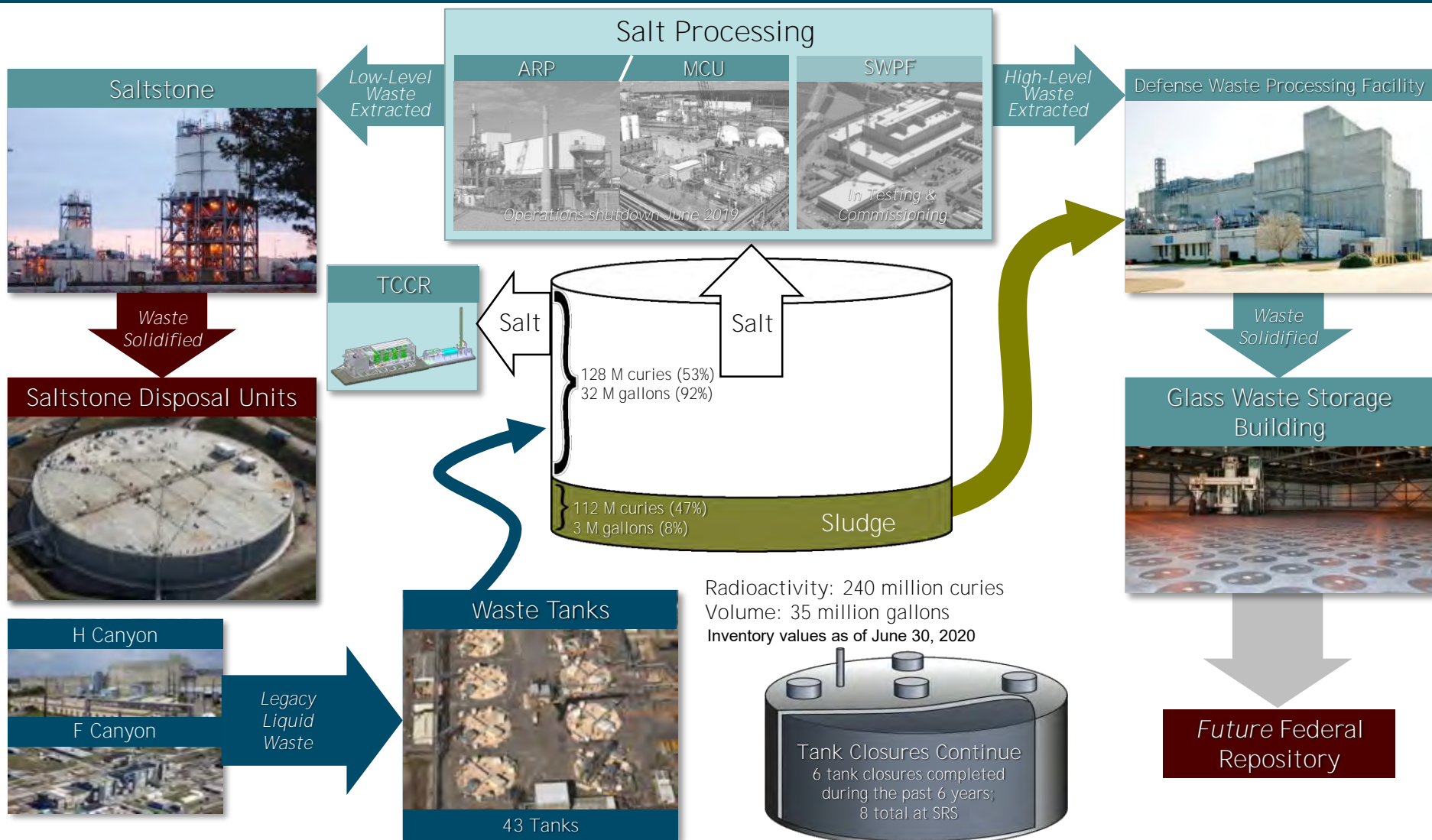


Fitness - temp check



Sanitizer Station

Liquid Waste Tank Cleanup



“The high-level waste at the Savannah River Site represents the single largest environmental risk in South Carolina.”

– S.C. Department of Health and Environmental Control

SRS Liquid Waste Program Integration

*Safe storage, treatment,
and disposition of SRS
liquid waste requires
synchronization of several
highly interdependent
nuclear facilities and
chemical operations*



Hiring Profile

- With many distinguished employees transitioning into retirement, a new generation of leaders are filling roles
- SRR new hires in the past year included 59 engineers and 37 production operators

Building the workforce is crucial to accomplishing the liquid waste mission



- Community outreach
 - United Way
 - Fundraising campaign, service projects, corporate donations
 - Annual American Heart Association Heart Walk
 - Toys for Tots
- Education outreach
 - STEM grants for elementary school teachers
 - Family scholarships
 - College summer internships
 - Corporate donations
- Stakeholder outreach
 - News releases
 - Social media
 - Tours



Pre-COVID-19

Delivering Results: Canister Double Stack Project

- Double-stacking radioactive canisters is an innovative effort to increase onsite interim storage capacity of glassified high-level waste
- Since the first canister double-stacked in August 2016 in Glass Waste Storage Building (GWSB) 1, over 1,000 canisters have been double stacked
- Will increase 2,254 slots to 4,508 slots, which is adequate safe interim canister storage until at least 2029
- Double stacking also postpones the expense of another storage facility, avoiding more than \$100 million in costs
- SRR is conducting a final engineering study to double-stack canisters in GWSB 2
 - If successful, no need for new storage



Delivering Results: Integrating with SWPF

- After 10 years of complex and preparatory work, SRR liquid waste facilities have integrated liquid waste operations with the Salt Waste Processing Facility (SWPF)
- The U.S. Department of Energy has authorized the hot commissioning of SWPF
- SRR is fully prepared to feed salt waste to the facility



Physical tie-ins complete



Simulated salt waste transfer capabilities proven

Delivering Results: Tank Closure Cesium Removal

- In 2019, SRR initiated Tank Closure Cesium Removal operations
- Demonstration project designed to accelerate removal of radioactive waste from the SRS underground tanks to support tank closure



✓ *Nearly 300,000
gallons of salt waste
processed*

Delivering Results: Mega-Volume Saltstone Disposal Units

- SRR continues to build 32-million-gallon Saltstone Disposal Units (SDUs), necessary for SWPF operations. The mega-vault structure stands 43 feet high and is 375 feet in diameter. SDU 7, the second mega-vault, is under construction and scheduled to be ready for operations by the spring of 2022. Work continues on two subsequent mega-units, SDUs 8 and 9.



Saltstone Disposal Units: Future

