

**U.S. Department of Energy
Savannah River Operations Office
and
Savannah River Remediation LLC**

**Authorization Agreement (AA)
for the
Saltstone Facility**

Revision Log

| <u>Rev.</u> | <u>Date</u> | <u>Purpose</u> |
|-------------|---------------|--|
| 0 | April 2011 | The initial issuance of this Saltstone AA is required to reflect change in the Saltstone Facility Hazard Category (HC) from HC-3 to HC-2. |
| 1 | August 2012 | Added DOE RA for ELAWD facility modifications and SDU 2 startup. Added Industrial Wastewater Permit Numbers 12,683-IW and 19,379-IW. Revised format and content to Procedure 1.08, Manual 11Q, Revision 5. |
| 2 | June 2013 | Deleted text referring to specific SER revision. Removed high organic operations text. Updated references. |
| 3 | June 2016 | Added SRR Contractor Readiness Assessment for SSRT facility modifications. Made minor edits in Section E. Removed the distribution list, as distribution is by letter. |
| 4 | February 2017 | Added a restriction that only allows Clean Cap Grout to be poured into SDU 6. |
| 5 | October 2017 | Removed Clean Cap Grout restriction from SDU 6. Added SRR Contractor Readiness Assessment for SDU 6 radioactive operation. Removed Clean Grout Plan approval letter in Section C. |
| 6 | June 2019 | Removed operating restriction from SSRT #2. |

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Section 1 – Facility Name, Function, and Location

This Authorization Agreement (AA) applies to the Saltstone Facility, a facility designed to treat and dispose of solutions containing low levels of radioactive and chemical contaminants from High Level Waste (HLW) treatment facilities located at the U.S. Department of Energy (DOE) Savannah River Site (SRS) near Aiken, South Carolina. The facility, major functions, subsystems, and support facilities are described in the facility Safety Basis (SB) documents as documented in the controlled facility Safety Basis Document List.

Section 2 – Authorized Scope of Operations

The scope of operational activities being authorized by this AA is as described in the DOE-approved SB documents listed in the controlled Safety Basis Document List, Records of Decision (ROD), Approved Contract Performance Baseline (CPB), Performance Evaluation and Measurement Plan (PEMP), Annual Operating Plan (AOP) and Work Control and Change Control documents.

Section 3 – Bases

The U.S. Department of Energy (DOE) has determined:

- A. Through a series of comprehensive reviews under the Technical Assessment Program, the facility will be operated in compliance with the Standards/Requirements Identification Document (S/RID), SRR-RP-2009-00558 as amended, and this AA as specified by the Contract DE-AC09-09SR22505. The S/RID has a separate review and approval process and may be amended without need to revise and re-approve this AA.
- B. The facility hazards have been adequately analyzed and appropriate operational controls have been employed as properly documented by the set of DOE-approved safety documents listed in the controlled facility Safety Basis

Document List. The basis for this determination is documented in the DOE Safety Evaluation Report (SER), as amended. Each safety document individually has a separate review and approval process; thus, each may be amended without need to revise and re-approve this AA. This AA serves to document the complete set of DOE-approved safety documents tailored for use by the facility and specifically approved by the DOE as the basis for safe operations. The controlled Safety Basis Document List for the Saltstone Facility is identified in Manual WSRC-IM-94-10, "*LWD/WS Projects Safety Basis Manual*" and contains a listing of current revisions to the Safety Basis Documents.

- C. In accordance with the National Environmental Policy Act (NEPA) regulations, the environmental impacts of facility construction and operation have been evaluated. The environmental impacts of facility construction and operation have been documented in the Final Supplemental Environmental Impact Statements. DOE has issued Records of Decision, and the scope of the activity contained in this agreement is consistent with the selected alternative. NEPA documentation has a separate review and approval process and may be amended without necessarily requiring revision and re-approval of this AA.
- DOE/EIS-0082-S, Final Supplemental Environmental Impact Statement, November 1994 (Record of Decision 60 FR 18589, April 12, 1995).
 - DOE/EIS-0082-S2, Savannah River Site Salt Processing Alternatives Final Supplemental Environmental Impact Statement, June 2001 (Record of Decision 66 FR 52752, October 17, 2001).
 - DOE/EIS-0082-S2-SA-01, Supplement Analysis, Salt Processing Alternatives at the Savannah River Site, January 2006 (Record of Decision 71 FR 3834, January 24, 2006).
- D. Through performance of an Operational Readiness Review (ORR) and Readiness Assessments (RA), there is reasonable assurance that the facility can be operated without endangering the health and safety of the public, the workers, or the environment. DOE Operational Readiness Review (ORR) for Saltstone High Organics Operation (Memorandum, Hinson, U.S. Department of Energy Team Leader Saltstone High Organics Operation ORR, WDOD-11-04, February 2011), the DOE Readiness Assessment (RA) for Enhanced Low Activity Waste Disposal (ELAWD) facility modifications and Saltstone Disposal Unit (SDU) 2 startup (Memorandum, Buchanan, U.S. Department of Energy Team Leader DOE Readiness Assessment (RA) for Startup of the Saltstone Facility, NA-12-074, August 2012), the Request for SSRT Startup Authorization (Memorandum, J.R. Cantrell to G.J. Matis, SRR-SSF-2016-00009, June 2016), and the Startup Authorization for Saltstone Disposal Unit 6 Operations (Memorandum, G.J. Matis to J.R. Cantrell, SRR-SSF-2017-00011, Rev. 1, October 2017) resulted in a determination of readiness to operate.

- E. Through DOE's adherence to Federal Acquisition Regulations (FAR), Department of Energy Acquisition Regulations (DEAR) regarding selection of competent contractors, as well as Savannah River Remediation LLC's (SRR) contractual commitment to an Integrated Safety Management System (ISMS) and S/RID requirements for personnel selection, training and qualification, DOE is assured that SRR is technically qualified to engage in the activities authorized by this AA.
- F. Through DOE's review of an approved and current Radioactive Waste Management Basis (Savannah River Remediation (SRR) Saltstone Facility Radioactive Waste Management Basis, Q-RWM-Z-00001), as amended, the facility's handling, documentation, and control of radioactive waste ensures compliance with all state, local, and federal radioactive waste regulatory requirements. Each RWMB document individually has a separate review and approval process; thus, each may be amended without the need to revise and re-approve this AA.
- G. Through DOE's review of an approved and current Emergency Preparedness Basis (primarily the Site Emergency Plan), the facility's response and notification of accident condition ensures adequate protection for workers and the public. DOE review of the Emergency Planning Hazards Assessment is sufficient to satisfy the facility-specific aspects of the Emergency Preparedness Basis.
- H. Through DOE's review of the Safeguards and Security Basis, primarily the Site Security Plan (SSP), the facility meets its applicable safeguards and security requirements.

Section 4 – Requirements and Conditions

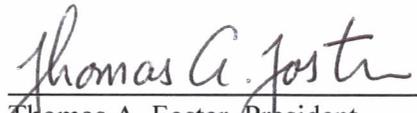
Operation of Saltstone Facility is subject to the following requirements and conditions:

- A. SRR shall operate the facility in compliance with the S/RID (latest revision). In accordance with Contract No. DE-AC09-09SR22505, the S/RID identifies the rules, regulations, orders, standards, and directives of DOE and other federal, state, or local agencies that are applicable to the activities associated with the Saltstone Facility. Authorized deviations shall be documented by SRR and approved by DOE through Exemption Requests, Compliance Schedule Agreements, Implementation Plans, or modification of the S/RID, as appropriate. New or revised requirements shall be incorporated into the S/RID as directed by DOE. SRR shall ensure compliance commitments are tracked and completed within established time frames.

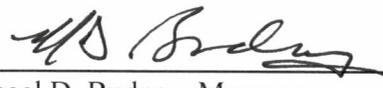
- B. SRR shall operate the facility in accordance with the operational controls specified in the DOE-approved safety documents listed in the controlled Safety Basis Document List in WSRC-IM-94-10, "*LWD/WS Projects Safety Basis Manual*," as amended.
- C. SRR shall implement and maintain an Environmental Protection program complying with applicable environmental protection and environmental permit requirements as specified in S/RID Functional Area 20, "*Environmental Protection*." Permits with general applicability are listed below. Compliance is required with all applicable permits/letters even if not listed herein.
- Bureau of Air Quality Permit – Savannah River Site (SRS) Part 70 Air Quality Permit #TV-0080-0041 for emission Unit Z-001, as amended.
 - Industrial Wastewater Permit – Savannah River Site (SRS) Saltstone Production Facility, Industrial Wastewater Treatment Facility Permit Numbers 12,683-IW, 18,801-IW, and 19,379-IW, as amended.
 - Solid Waste Landfill Permit – Savannah River Site (SRS) Z-Area Saltstone Disposal Facility, Office of Environmental Quality Control, Bureau of Land and Waste Management, Class 3 Landfill Permit, Facility ID #025500-1603, as amended.
 - Industrial Storm Water General Permit – South Carolina National Pollutant Discharge Elimination System General Permit for Storm Water Discharges Associated with Industrial Activity (except construction activity), SCR000000, as amended.
- D. Generation, storage and treatment of mixed waste shall be in compliance with the SRNS-TR-2008-00101, "*Savannah River Site Approved Site Treatment Plan*," latest revision, as amended.
- E. SRR shall operate the facility in accordance with the RWMB documents listed in Q-RWM-Z-00001, "*Savannah River Remediation (SRR), Saltstone Facility, Radioactive Waste Management Basis*," latest revision, as amended.
- F. SRR shall implement and maintain applicable emergency planning requirements per DOE-approved emergency planning document S-EHA-G-00005, "*Emergency Planning Hazards Assessment for Saltstone Facility*," latest revision, as amended.
- G. SRR shall meet its applicable safeguards and security requirements per SRNS-RP-2008-00137, "*General Site Security Plan*," latest revision, as amended.

Section 5 – Contractual Citation Effective Dates and Approval Signatures

This Authorization Agreement is subject to the conditions specified in Contract Number DE-AC09-09SR22505 between DOE and SRR. DOE and SRR agree to the conditions and limitations contained herein. The conditions and limitations within this Authorization Agreement are effective upon the date both parties have signed this AA, or, if applicable, upon revision of WSRC-IM-94-10, “*LWD/WS Projects Safety Basis Manual*,” which shall be completed within 5 days from the date both parties have signed this AA. This AA shall expire upon expiration or termination of Contract No. DE-AC09-09SR22505.



Thomas A. Foster, President
Savannah River Remediation LLC



Michael D. Budney, Manager
Savannah River Operations Office

6/19/19

Date

8/1/2019

Date