

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

**Authorization Agreement (AA)
for the
Defense Waste Processing Facility (DWPF)**

Revision Log

| <u>Rev.</u> | <u>Date</u> | <u>Purpose</u> |
|-------------|-------------|--|
| 0 | 6/09 | The initial issuance of this DWPF AA incorporates the former DWPF AA (WSRC-RP-99-00663, Rev. 12) and reflects the new contract agreement between Savannah River Remediation LLC and DOE. |
| 1 | 3/10 | This revision of the DWPF AA incorporates the Justification for Continued Operations (JCO) for the receipt and processing of SE containing high Isopar [®] L concentrations. |
| 2 | 5/10 | This revision reflects the new S/RID document, the new Safeguards and Security Basis document, and updates the Waste Incidental to Reprocessing Citation Determination, S-Area Low Level Waste, Mixed Waste and Transuranic Waste Certification Plan, and current staging document in the RWMB. This revision also deletes the Justification for Continued Operations (JCO) for the receipt and processing of SE containing high Isopar [®] L concentrations. |
| 3 | 10/10 | This revision incorporates the JCO for Sludge Receipt and Adjustment Tank Receipt of Isopar [®] L to Attachment 1 and clarifies the identification of the EIS in Section 3C. |
| 4 | 8/11 | This revision of the DWPF AA deletes the Attachment 2 (RWMB list) to reference the stand-alone RWMB document. The revision deletes the JCO (U-TRT-S-00004) from Attachment 1 because the JCO was incorporated into the FSAR. |
| 5 | 11/12 | This revision of the DWPF AA adds the JCO (U-JCO-S-00001) for the DWPF Recycle Stream to Attachment 1. |
| 6 | 3/13 | This revision deletes the JCO (U-JCO-S-00001) from Attachment 1 because the JCO was incorporated into the FSAR. |
| 7 | 8/15 | This revision removes Attachment 1, which listed the TSR and DSA. The list of DOE-approved SB documents is provided in Manual WSRC-IM-94-10, as amended, and is referenced in this AA. |

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Section 1 – Facility Name, Function, and Location

This Authorization Agreement (AA) applies to the DWPF, a large radiochemical facility designed to vitrify high-level waste. The DWPF is located within S-Area of the Savannah River Site (SRS) near Aiken, South Carolina. The facility, major functions, subsystems, and support facilities are described in the Safety Basis (SB) documents as defined in Manual WSRC-IM-94-10.

Section 2 – Authorized Scope of Operations

The scope of operational activities being authorized by this AA is as described in: (a) Contract Number DE-AC09-09SR22505, (b) the DWPF SB, as defined in Manual WSRC-IM-94-10, and (c) the Environmental Impact Statements (DOE/EIS-0082, DOE/EIS-0082-S and DOE/EIS-0082-S2) and the associated Records of Decision.

Section 3 – Bases

The Department of Energy (DOE) has determined:

- A. Through a series of comprehensive reviews under the Integrated Performance Assurance 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 in Contract No. DE-AC09-09SR22505, between DOE and Savannah River Remediation (SRR) LLC. 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 DWPF SB as defined in Manual WSRC-IM-94-10. The basis for this determination is documented in the DOE Safety Evaluation Report (SER), [Smith/Moody to Schlismann, WDED-13-06, December 17, 2012] as supplemented. 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/SRS approved safety documents tailored for use by the facility and specifically approved by the DOE as the basis for safe

operations. The latest revisions to the SRR and DOE approved SB documents for the DWPF will be identified in Manual WSRC-IM-94-10, as amended.

- C. In accordance with the 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 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, Final Environmental Impact Statement Defense Waste Processing Facility Savannah River Plant (Record of Decision 47 FR 23801).
 - DOE/EIS-0082-S, Final Supplemental Environmental Impact Statement Defense Waste Processing Facility (Record of Decision 60 FR 18589).
 - DOE/EIS-0082-S2, Savannah River Site Salt Processing Alternatives Final Supplemental Environmental Impact Statement (Record of Decision 66 FR 52752 as amended in 71 FR 3834).
- D. Through the performance of Operational Readiness Reviews (ORRs), there is reasonable assurance that the facility can be operated without endangering the health and safety of the public, the workers, or the environment.
- Action Memorandum, Grumbly (EM-1) to Secretary of Energy (S-1), March 5, 1996.
 - Final Report Department of Energy Operational Readiness Review for Defense Waste Processing Facility Glass Waste Storage Building #2 Operations at the Savannah River Site, June 2006.
 - Operational Readiness Review for the operation of ARP/MCU (Letter, Allison to Sain, U.S. Department of Energy Operational Readiness Review (ORR) Final Report for the Interim Salt Disposition Project, WDOD-08-12, March 2008).
- E. Through DOE's adherence to Federal Acquisition Regulations, Department of Energy Acquisition Regulations regarding selection of competent contractors, as well as SRR's contractual commitment to an Integrated Safety Management System 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 (Q-RWM-S-00001, latest revision), the facility's handling,

documentation and control of radioactive waste ensures compliance with all state, local, and federal radioactive waste regulatory requirements.

- G. Through DOE's review of an approved and current Emergency Planning Hazards Assessment (S-EHA-S-00001, latest revision), the DWPF response and notification of accident conditions ensure adequate protection for public and workers in surrounding facilities.
- H. Through DOE's review of the Safeguards and Security Basis per the General Site Security Plan, SRNS-RP-2008-00137, latest revision as amended, the facility meets its applicable safeguards and security requirements.

Section 4 – Requirements and Conditions

Operation of DWPF is subject to the following requirements and conditions:

- A. SRR shall operate the facilities 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 DWPF. 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 DWPF in accordance with the operational controls specified in the latest revision of the SB documents as defined in Manual WSRC-IM-94-10, 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 even if not listed herein.
 - South Carolina Department of Health and Environmental Control Industrial Wastewater Treatment Facility Permits to Operate #16,783, #11,413, #17,424 (LPPP only), as amended.
 - South Carolina Department of Health and Environmental Control Industrial Wastewater Treatment Facility Permit to Operate #18,793-IW (512-S), as amended.

- South Carolina Department of Health and Environmental Control National Pollutant Discharge Elimination System Permit #SC0000175 for S-Area outfall S-04, as amended.
 - South Carolina Department of Health and Environmental Control Part 70 Air Quality Permit # TV-0080-0041 as it pertains to S-Area, as amended.
- D. Generation, storage and treatment of mixed waste shall be in compliance with the "Savannah River Site Approved Site Treatment Plan," SRNS-TR-2008-00101, latest revision, as amended.
- E. SRR shall operate the facility in accordance with the RWMB documents listed in Q-RWM-S-00001, latest revision, as amended.

Section 5 – Contractual Citation Effective Dates and Approval Signatures

This AA is subject to the conditions specified in Contract No. DE-AC09-09SR22505 between SRR and DOE. 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 Manual WSRC-IM-94-10 and implementation of this revision, 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.

Mark A. Schmitz for SMV
S. A. MacVean, President
Savannah River Remediation LLC

J. R. Craig
J. R. Craig, Manager
Savannah River Operations Office

8/10/2015
Date

9-1-15
Date

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