



Federal Facility Agreement Annual Progress Report for Fiscal Year 2021

SRNS-RP-2021-05230

November 2021

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and
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LIST OF ABBREVIATIONS AND ACRONYMS

BRA	Baseline Risk Assessment
CA	Corrective Action
CAGW	C-Area Groundwater
CAR	Corrective Action Report
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CMIR	Corrective Measures Implementation Report
CMP	Chemicals, Metals, and Pesticides
CMS/FS	Corrective Measures Study/Feasibility Study
CPRB	Coal Pile Runoff Basin
D&D	Deactivation and Decommissioning
DAGW	D-Area Groundwater
DAOU	D-Area Operable Unit
EA	Early Action
ECODS	Early Construction and Operational Disposal Site
EMR	Effectiveness Monitoring Report
EZVI	Emulsified Zero-Valent Iron
FMB	Fourmile Branch
FFA	Federal Facility Agreement
FTF	F-Area Tank Farm
FY	Fiscal Year
GMR	Groundwater Monitoring Report
GSA	General Separations Area
GSACU	General Separations Area Consolidation Unit
GWM	Groundwater Monitoring
GWMZ	Groundwater Mixing Zone
HTF	H-Area Tank Farm
HWMF	Hazardous Waste Management Facility
IOU	Integrator Operable Unit
ISCO	In-Situ Chemical Oxidation
IROD	Interim Record of Decision
LLC	Limited Liability Company
LUC	Land Use Control
LUCAP	Land Use Control Assurance Plan
LUCIP	Land Use Control Implementation Plan
LLWF	Low-Level Waste Facility
MASB	M-Area Settling Basin
Met Lab	Metallurgical Laboratory
N/A	not applicable
NBN	No Building Number
ORWBG	Old Radioactive Waste Burial Ground
OU	Operable Unit

LIST OF ABBREVIATIONS AND ACRONYMS *(Continued/End)*

PCB	polychlorinated biphenyl
PCR	Post Construction Report
PER	Performance Evaluation Report
POC	Point of Compliance
PP	Proposed Plan
PRB	Permeable Reactive Barrier
RA	remedial action
RACR	Remedial Action Completion Report
RAIP	Remedial Action Implementation Plan
RAR	Removal Action Report
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
RI	Remedial Investigation
ROD	Record of Decision
SCDHEC	South Carolina Department of Health and Environmental Control
SE	Site Evaluation
SEA	Site Evaluation Area
SEMS	Superfund Enterprise Management System
SB/PP	Statement of Basis/Proposed Plan
SR	Savannah River
SRL	Savannah River Laboratory (now SRNL)
SRNL	Savannah River National Laboratory
SRNS	Savannah River Nuclear Solutions, LLC
SRS	Savannah River Site
SWP	Southwest Plume
TA	temporary authorization
USDOE	United States Department of Energy
USDOE-SR	United States Department of Energy-Savannah River
USEPA	United States Environmental Protection Agency
VOC	volatile organic compound
WADB	Wetland Area at Dunbarton Bay
WSTS	Western Sector Treatment System

1.0 INTRODUCTION

The Savannah River Site (SRS) Federal Facility Agreement (FFA) was negotiated between the United States Department of Energy (USDOE), the United States Environmental Protection Agency - Region 4 (USEPA), and the South Carolina Department of Health and Environmental Control (SCDHEC), collectively designated as the “Parties.” USEPA made the FFA effective on August 16, 1993. The preparation and submittal of this report have been undertaken to meet the terms of Section XXV, Reporting, of the FFA.

This FFA Annual Progress Report summarizes information on activities performed during Fiscal Year (FY) 2021 (October 1, 2020 through September 30, 2021) and activities planned for FY2022 (October 1, 2021 through September 30, 2022) by USDOE, USEPA, and SCDHEC at those units and areas identified for remediation in the FFA.

This report is presented in the sections described below.

1.1 Overview of FY2021

This section contains a brief overview of the actions taken by USDOE, USEPA, and SCDHEC during FY2021 to implement the terms of the FFA.

1.2 Outcome of Extension Notifications and Requests

This section presents the information about Extension Notifications and Extension Requests affecting FFA main milestones in tabular form.

1.3 Status of Site Evaluation Areas, Resource Conservation and Recovery Act/ Comprehensive Environmental Response, Compensation, and Liability Act Units, and Integrator Operable Units

This section presents the information below in tabular form:

- List of planned work for FY2021, including milestones, document submittals, risk assessments, site evaluations, remediation activities, and other field activities;
- List of work accomplished in FY2021, as documented in Appendix D of the FFA;
- List of work accomplished in FY2021, not documented in Appendix D of the FFA;
- List of activities extended by a Three-Party Agreement during FY2021; and a
- List of work planned for FY2022, as documented in preliminary milestone agreements, including milestones, document submittals, risks assessments, site evaluations, remediation activities, and other field activities.

1.4 USDOE-Savannah River Contractors

Table 1 identifies the USDOE-Savannah River (SR) contractors and their responsibilities.

2.0 OVERVIEW OF FY2021

The following subsections contain a synopsis of activities and accomplishments achieved by USDOE, USEPA, and SCDHEC throughout FY2021.

2.1 Field Activities

The Environmental Compliance and Area Completion Projects currently has 515 units in the program. Included in the 515 units are Resource Conservation and Recovery Act (RCRA)/Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Units, Site Evaluation Area (SEAs), and facilities covered under the SRS RCRA permit renewal. At the beginning of FY2021, 419 units were complete or in the remediation phase (411 complete and 8 in the remediation phase). At the end of FY2021, 420 units were complete or in the remediation phase (412 complete and 8 in the remediation phase).

An Early Action (EA) Remedial Action (RA) was initiated and completed at the D-Area Ash Basins (488-1D and 488-2D), D-Area Ash Landfill (488-4D) and D-Area Coal Pile Runoff Basin (489-D) (Southern 75%) in support of the D-Area Operable Unit (OU).

During FY2021, USDOE installed hog barrier fences. These fences are not required by any Record of Decision (ROD), Land Use Control Implementation Plan (LUCIP), or any other regulatory requirement. They were installed by USDOE as a cost-saving initiative to prevent damage by feral hogs to caps/covers that USDOE are required to maintain over waste left in place for protection of human health and the environment.

Hog barrier fence installation was completed at the D-Area Coal Pile Runoff Basin (489-D) (Northern 25%) to protect soil cover/engineered cap. In addition, the existing fence at the C-Area Reactor Seepage Basins (904-66G, 904-67G, and 904-68G) was replaced with hog barrier fencing as a cost-saving maintenance activity.

2.2 RODs and/or Explanation of Significant Differences

The Sixth Five-Year Remedy Review Report for SRS OUs with Groundwater Remedies was issued to the public after USDOE, SCDHEC, and USEPA signed the report.

The Sixth Five-Year Remedy Review Report for SRS OUs with Engineered Cover Systems was submitted by USDOE and approved by USEPA and SCDHEC.

The ROD for Stormwater Outfall A-013 (NBN) OU was submitted by USDOE, approved by USEPA and SCDHEC, and issued to the to the public after USDOE, SCDHEC, and USEPA signed the ROD. The issuance of the ROD was completed ahead of schedule.

The ROD for the Lower Three Runs Integrator Operable Unit (IOU) was submitted by USDOE and approved by USEPA and SCDHEC.

2.3 Post-ROD Documents

The Post-Construction Report (PCR) for the Wetland Area at Dunbarton Bay (WADB) in Support of Steel Creek IOU was approved by USEPA and SCDHEC.

The Second EA LUCIP for the D-Area OU was submitted by USDOE and approved by USEPA and SCDHEC.

2.4 Annual Update of FFA Appendices

USDOE submits six (6) FFA appendices to USEPA and SCDHEC for their review, comment, and approval each fiscal year as discussed below.

2.4.1 Appendices C, G, H, and K

In accordance with the terms of the FFA, USDOE submitted Revision 0 of Appendix C, RCRA/CERCLA Units List, Appendix G, SEAs, and Appendix K, Deactivation and Decommissioning (D&D) Facilities for FY2021, on September 24, 2020. The SCDHEC and USEPA approved the Revision 0 of Appendices C, G, and K in their letters dated January 21, 2021, and January 27, 2021, respectively.

In accordance with the terms of the FFA, USDOE submitted Revision 0 of Appendix H, Solid Waste Management Units for FY2021, on September 29, 2020. The SCDHEC and USEPA approved the Revision 0 of Appendix H in their letters dated January 21, 2021, and January 27, 2021, respectively.

These four (4) appendices are due by October 1 of each year.

2.4.2 Appendix D, Timetables and Deadlines

Appendix D identifies current fiscal year milestones. After receipt of their annual budget, USDOE develops this list based on the allocated funding. Appendix D is due 30 business days after receipt of the annual budget allotment from USDOE-Headquarters. USDOE submitted the FY2021 Budget Allotment notification and Revision 0 Appendix D for FY2021 on April 28, 2021. The SCDHEC and USEPA approved Revision 0 of Appendix D in their respective letters dated May 3, 2021.

The Revision 0 Appendix D for FY2021, Timetables and Deadlines, lists numerous milestone dates. These include primary documents, annual updates to the FFA Appendices, Site Evaluation (SE) Reports, supporting documents, the initiation of RCRA Facility Investigation (RFI)/ Remedial Investigation (RI) Field Starts and RA Starts, and the issuance of RODs. All milestones listed in Appendix D (i.e., all enforceable milestones for FY2021) were accomplished on time or ahead of schedule.

2.4.3 Appendix E, Long Term Projections

Appendix E identifies out-year milestones. The Parties use this appendix to develop an understanding of the resource needs that the implementation and oversight of the environmental restoration activities will require. In accordance with the FFA, USDOE submitted Revision 0 of Appendix E, Long-Term Projections for FY2021, on November 16, 2020. November 15, 2020 was a Sunday. Per the FFA, any submittal due on a Saturday, Sunday, or holiday shall be due on the following business day. Therefore, this submittal was completed on schedule in accordance with the terms of the FFA. The SCDHEC and USEPA provided comments on the Revision 0 Appendix E, Long-Term Projections for FY2021 on December 17, 2020 and January 5, 2021, respectively. The USDOE submitted the SRS' responses to the regulatory comments and Revision 1 of Appendix E, Long-Term Projections for FY2021 on January 27, 2021. Based on the SRS' responses to the regulatory comments, Appendices E.1 and E.2 were revised to remove the submittal of the A-Area Miscellaneous Rubble Pile (731-6A) OU Performance Evaluation Reports as discussed and agreed to by USDOE, SCDHEC, and USEPA during a December 16, 2020, meeting. During the meeting, USDOE, SCDHEC, and USEPA agreed to discontinue operation of the passive soil vapor extraction system based on modeling and empirical data from the system. Therefore, submittal of the reports is no longer required. The SCDHEC and USEPA approved the Revision 1 Appendix E, Long-Term Projections for FY2021 in their letters dated February 12, 2021 and February 22, 2021, respectively. Appendix E was updated throughout FY2021 based on regulatory approved changes to the milestones.

Appendix E is due by November 15 of each year.

2.5 Disputes

There were no disputes in FY2021.

2.6 Site Evaluation Program

Section X of the FFA requires USDOE to submit to USEPA and SCDHEC Removal SE Reports for those areas with potential or known releases of hazardous substances not identified before the effective date of the agreement. USDOE submitted the Removal SE Report/Engineering Evaluation/Cost Analysis for the F-Area Material Storage Building (235-F) during FY2021.

Section X of the FFA also requires USDOE to submit Remedial SE Reports to the USEPA and SCDHEC for those areas listed in Appendix G.1 of the Agreement. USDOE did not submit any Remedial SE Reports during FY2021.

3.0 OUTCOME OF EXTENSION NOTIFICATIONS AND REQUESTS

The FFA provides for two (2) types of extensions for milestones: 1) an Extension Notification or 2) an Extension Request.

An Extension Notification is covered under the terms of Section XXII. Review/Comment on Documents, Subsection G. Review and Comment on Documents. USEPA or SCDHEC may extend their review/comment period up to 30 days, and SRS may extend its revision period up to 30 days. These extensions require the notifying Party to provide written notification of the extension. These extensions do not require the other Party's approval. However, if an Extension Notification impacts a subsequent milestone, it may necessitate the submittal of an Extension Request. Extension requests are covered under the terms of Section XXXI. Extensions.

During FY2021, SRS submitted two (2) Extension Requests and no Extension Notification. Table 2 documents the outcome of extension notifications and requests for FY2021. The table describes the main milestones affected.

4.0 STATUS OF SEAS, RCRA/CERCLA UNITS AND IOUS

Table 3 documents work planned and accomplished in FY2021 and work planned for FY2022. Table 3 presents a listing of SEAs, RCRA/CERCLA Units, and IOUs in alphabetical order. The milestones identified in Table 3 are those listed in Appendix D of the FFA. Milestones/Submittals accomplished, not included in Appendix D, are included under the column "FY2021 Work Accomplished (Other)".

Table 1. USDOE-SR Contractors

Contractor Name	Responsibility
Savannah River Nuclear Solutions, LLC	Management & Operating Contract
Battelle Savannah River Alliance, LLC	Management & Operating Contract for Savannah River National Laboratory (effective June 21, 2021)
Savannah River Remediation, LLC	Liquid Waste Contract
Savannah River Ecology Laboratory	Ecological Research
Savannah River Archaeological Research Program	Cultural Resource Management
Centerra – SRS	Security Services
United States Department of Agriculture Forest Service – SR	Natural Resource Management
Parsons	Salt Waste Processing Facility
Ameresco Federal Solutions, Inc.	Supply steam and electricity

Table 2. Extension Notifications and Requests

USDOE Letter Number	Letter Date	Unit Affected	Main Milestone Affected	Request or Notification	Extension (From/To)	Outcome
N/A	10/22/2020	Lower Three Runs IOU	USEPA 120-Day Extension for Submittal of Comments on the Lower Three Runs IOU Proposed Plan (SRNS-RP-2019-00058, Revision 1 Redline, September 2020) (SRNS-OS-2020-00396)	Request	10/23/2020 to 02/20/2021	Approved
IACD-21-104	11/04/2020	Lower Three Runs IOU	USDOE Approval of the USEPA's 120-Day Extension Request for Submittal of Comments on the Lower Three Runs IOU Proposed Plan (SRNS-RP-2019-00058, Revision 1 Redline, September 2020) and Extension Request for the Submittal of the Lower Three Runs IOU Revision 0 ROD and Subsequent Milestones	Request	ROD: 12/12/2020 to 05/06/2021 Issue ROD: 08/21/2021 to 01/24/2022 RAIP: 10/31/2021 to 04/01/2022 LUCIP: 10/31/2021 to 04/01/2022 RA Start: 11/18/2022 to 04/24/2023 PCR/RACR: 08/20/2024 to 01/21/2025	Approved
IACD-21-163	09/02/2021	F-Area OU Early Action	USDOE Extension Request for the Submittal of the Early Action RCRA Facility Investigation / Remedial Investigation Work Plan (Revision 0) and Subsequent Milestones in Support of the F-Area Operable Unit	Request	Work Plan: 09/30/2021 to 01/28/2022 Field Start: 09/30/2022 to 01/28/2023 RI/BRA/FS: 10/25/2023 to 02/22/2024 PP: 08/26/2024 to 12/24/2024 ROD: 04/14/2025 to 08/12/2025 Issue ROD: 11/18/2022 to 04/24/2023 RAIP: 09/30/2025 to 01/28/2026	Approved

Table 2. Extension Notifications and Requests (Continued/End)

USDOE Letter Number	Letter Date	Unit Affected	Main Milestone Affected	Request or Notification	Extension (From/To)	Outcome
IACD-21-163 <i>(cont'd/end)</i>	09/02/2021	F-Area OU Early Action	USDOE Extension Request for the Submittal of the Early Action RCRA Facility Investigation/Remedial Investigation Work Plan (Revision 0) and Subsequent Milestones in Support of the F-Area Operable Unit	Request	LUCIP: 06/16/2025 to 10/14/2025 RA Start: 03/30/2027 to 07/28/2027	Approved

N/A – Not Applicable
 BRA – Baseline Risk Assessment
 FS – Feasibility Study
 RAIP – Remedial Action Implementation Plan
 RACR – Remedial Action Completion Report

Table 3. Status of Site Evaluation Areas, RCRA/CERCLA Units, and Integrator Operable Units

RCRA/CERCLA Units or SEAs	FY2021 Work Planned	FY2021 Work Accomplished (Appendix D Milestones)	FY2021 Work Accomplished (Other)	FY2022 Work Planned
A-Area Burning/Rubble Pits (731-A, 731-1A) and A-Area Rubble Pit (731-2A) and Miscellaneous Chemical Basin (741-4A)/ Metal Burning Pit (731-5A) [includes the A-Area Ash Pile (788-2A)] OU	<ul style="list-style-type: none"> Submit Annual Performance Evaluation Report (PER) Conduct post-closure activities 	<ul style="list-style-type: none"> Submitted Annual PER 	<ul style="list-style-type: none"> Conducted post-closure activities 	<ul style="list-style-type: none"> Submit Annual PER Conduct post-closure activities
A-Area Miscellaneous Rubble Pile (731-6A) OU	<ul style="list-style-type: none"> Conduct post-closure activities 		<ul style="list-style-type: none"> Conducted post-closure activities Discontinued operation of the MicroBlowers™ and removed equipment 	<ul style="list-style-type: none"> Conduct post-closure activities
A-Area Ash Pile (788-0A) and A-Area Coal Pile Runoff Basin (788-3A) OU	<ul style="list-style-type: none"> Perform berm stability inspection 		<ul style="list-style-type: none"> Performed berm stability inspection 	<ul style="list-style-type: none"> Perform berm stability inspection
B-Area Operable Unit ¹	<ul style="list-style-type: none"> Conduct post-closure activities 		<ul style="list-style-type: none"> Conducted post-closure activities 	<ul style="list-style-type: none"> Conduct post-closure activities
C-Area Burning/Rubble Pit and Old C-Area Burning/Rubble Pit OU	<ul style="list-style-type: none"> Submit Biennial Effectiveness Monitoring Report (EMR) Conduct post-closure activities 	<ul style="list-style-type: none"> Submitted Biennial EMR 	<ul style="list-style-type: none"> Conducted post-closure activities 	<ul style="list-style-type: none"> Conduct post-closure activities
C-Area Groundwater OU	<ul style="list-style-type: none"> Submit EMR for Removal Action Perform removal action monitoring activities 		<ul style="list-style-type: none"> Submitted EMR for Removal Action Performed removal action monitoring activities 	<ul style="list-style-type: none"> Submit EMR for Removal Action Perform removal action monitoring activities
C-Area Operable Unit ¹	<ul style="list-style-type: none"> Conduct post-closure activities 		<ul style="list-style-type: none"> Conducted post-closure activities 	<ul style="list-style-type: none"> Conduct post-closure activities
C-Reactor Complex	<ul style="list-style-type: none"> Conduct post-closure activities (EA) 		<ul style="list-style-type: none"> Conducted post-closure activities (EA) 	<ul style="list-style-type: none"> Conduct post-closure activities (EA)

Table 3. Status of Site Evaluation Areas, RCRA/CERCLA Units, and Integrator Operable Units (Continued)

RCRA/CERCLA Units or SEAs	FY2021 Work Planned	FY2021 Work Accomplished (Appendix D Milestones)	FY2021 Work Accomplished (Other)	FY2022 Work Planned
CMP Pits (080-170G, -171G, -180G, -181G, -182G, -183G, -190G) OU	<ul style="list-style-type: none"> • Submit Annual EMR • Conduct post-closure activities 	<ul style="list-style-type: none"> • Submitted Annual EMR 	<ul style="list-style-type: none"> • Conducted post-closure activities 	<ul style="list-style-type: none"> • Submit Annual EMR • Conduct post-closure activities
D-Area Expanded OU	<ul style="list-style-type: none"> • Conduct post-closure activities 		<ul style="list-style-type: none"> • Conducted post-closure activities 	<ul style="list-style-type: none"> • Conduct post-closure activities
D-Area Groundwater OU	<ul style="list-style-type: none"> • Submit Groundwater Monitoring (GWM) Report • Conduct post-closure activities • Submit DAGW OU Treatability Study Data Report • Submit DAGW OU RFI/RI Work Plan (Revision 0) 	<ul style="list-style-type: none"> • Submitted GWM Report • Submitted DAGW OU Treatability Study Data Report • Submitted DAGW OU RFI/RI Work Plan (Revision 0) 	<ul style="list-style-type: none"> • Conducted post-closure activities 	<ul style="list-style-type: none"> • Submit GWM Letter Report • Conduct post-closure activities • Submit DAGW OU Treatability Study Data Report • Submit DAGW OU RFI/RI Work Plan (Revision 1)
D-Area Oil Seepage Basin (631-G) OU	<ul style="list-style-type: none"> • Submit Groundwater Mixing Zone (GWMZ) Letter Report • Conduct post-closure activities 	<ul style="list-style-type: none"> • Submitted GWMZ Letter Report 	<ul style="list-style-type: none"> • Conducted post-closure activities 	<ul style="list-style-type: none"> • Submit GWMZ Report • Conduct post-closure activities
DAOU ¹	<ul style="list-style-type: none"> • Issue D-Area Ash Basins (488-1D and 488-2D), D-Area Ash Landfill (488-4D), and D-Area CPRB Second EA ROD (FY2021 milestone completed ahead of schedule in FY2020.) 	<ul style="list-style-type: none"> • Issued D-Area Ash Basins (488-1D and 488-2D), D-Area Ash Landfill (488-4D), and D-Area CPRB Second EA ROD (FY2021 milestone completed ahead of schedule in FY2020.) 	<ul style="list-style-type: none"> • Conducted post-closure activities • Submitted the Fact Sheet for the Second Early RA at DAOU 	<ul style="list-style-type: none"> • Submit Second EA PCR • Conduct post-closure activities

Table 3. Status of Site Evaluation Areas, RCRA/CERCLA Units, and Integrator Operable Units (Continued)

RCRA/CERCLA Units or SEAs	FY2021 Work Planned	FY2021 Work Accomplished (Appendix D Milestones)	FY2021 Work Accomplished (Other)	FY2022 Work Planned
DAOU ¹ (<i>cont'd/end</i>)	<ul style="list-style-type: none"> Submit D-Area Ash Basins (488-1D and 488-2D), D-Area Ash Landfill (488-4D), and D-Area CPRB Second EA LUCIP (Revision 0) Initiate D-Area Ash Basins (488-1D and 488-2D), D-Area Ash Landfill (488-4D), and D-Area CPRB EA RA Start 	<ul style="list-style-type: none"> Submitted D-Area Ash Basins (488-1D and 488-2D), D-Area Ash Landfill (488-4D), and D-Area CPRB Second EA LUCIP (Revision 0) Initiated D-Area Ash Basins (488-1D and 488-2D), D-Area Ash Landfill (488-4D), and D-Area CPRB EA RA Start 		
E-Area Low Level Waste Facility (643-26E)	<ul style="list-style-type: none"> Conduct post-construction activities 		<ul style="list-style-type: none"> Conducted post-construction activities 	<ul style="list-style-type: none"> Conduct post-construction activities
ECODS L-1, N-2, P-2, R-1A, R-1B, and R-1C OU	<ul style="list-style-type: none"> Conduct post-closure activities 		<ul style="list-style-type: none"> Conducted post-closure activities 	<ul style="list-style-type: none"> Conduct post-closure activities
ECODS L-3, L-Area Rubble Pit (131-1L) and L-Area Rubble Pit (131-4L) OU				<ul style="list-style-type: none"> Submit RFI/RI Work Plan (Revisions 0 and 1) Initiate Field Start
ECODS N-1, Central Shops Scrap Lumber Pile, and Building 690-N OU	<ul style="list-style-type: none"> Submit Building 690-N Decommissioning Project Final Report (Partial Decommissioning) (Revision 0) 	<ul style="list-style-type: none"> Submitted Building 690-N Decommissioning Project Final Report (Partial Decommissioning) (Revision 0) 		<ul style="list-style-type: none"> Submit RFI/RI Report with BRA and CMS/FS (Revisions 0 and 1) Submit SB/PP (Revision 0)

Table 3. Status of Site Evaluation Areas, RCRA/CERCLA Units, and Integrator Operable Units (Continued)

RCRA/CERCLA Units or SEAs	FY2021 Work Planned	FY2021 Work Accomplished (Appendix D Milestones)	FY2021 Work Accomplished (Other)	FY2022 Work Planned
F- and H-Area Hazardous Waste Management Facilities (HWMFs) Groundwater	<ul style="list-style-type: none"> • Collect quarterly samples from Fourmile Branch (FMB) and seepline • Collect monthly flow measurements and tritium samples from FMB • Continue base injection system operations • Submit Annual Corrective Action Report (CAR) • Submit proposed Point of Compliance (POC) Wells for Appendix IX sampling • Submit 2013 RCRA Permit Renewal Applications (Revision 0) 		<ul style="list-style-type: none"> • Collected quarterly samples from FMB and seepline • Collected monthly flow measurements and tritium samples from FMB • Continued base injection system operations • Submitted Annual CAR • Submitted proposed POC Wells for Appendix IX sampling • Submit 2013 RCRA Permit Renewal Applications (Revisions 0 and 1) 	<ul style="list-style-type: none"> • Collect quarterly samples from FMB and seepline • Collect monthly flow measurements and tritium samples from FMB • Continue base injection system operations • Submit Annual CAR • Submit proposed POC Wells for Appendix IX sampling • Submit 2013 RCRA Permit Renewal Applications (Revision 2)
F-Area OU (EA) ¹				<ul style="list-style-type: none"> • Submit EA RI Work Plan (Revision 0)
F-Area Retention Basin (281-3F) OU	<ul style="list-style-type: none"> • Conduct groundwater sampling under General Separations Area (GSA) Western Groundwater OU 		<ul style="list-style-type: none"> • Conducted groundwater sampling under GSA Western Groundwater OU 	<ul style="list-style-type: none"> • Conduct groundwater sampling under GSA Western Groundwater OU
G-Area Oil Seepage Basin (761-13G) OU	<ul style="list-style-type: none"> • Submit PCR/CMIR/RACR (Revision 0) (FY2021 milestone completed ahead of schedule in FY2020.) 	<ul style="list-style-type: none"> • Submitted PCR/CMIR/RACR (Revision 0) (FY2021 milestone completed ahead of schedule in FY2020.) 		

Table 3. Status of Site Evaluation Areas, RCRA/CERCLA Units, and Integrator Operable Units (Continued)

RCRA/CERCLA Units or SEAs	FY2021 Work Planned	FY2021 Work Accomplished (Appendix D Milestones)	FY2021 Work Accomplished (Other)	FY2022 Work Planned
General Separations Area Consolidation Unit (GSACU) [combines H-Area Retention Basin (281-3H), HP-52 Ponds (NBN), Old Radioactive Waste Burial Ground (ORWBG) (643-E), and Warner's Pond (685-23G)]	<ul style="list-style-type: none"> Conduct post-closure activities 		<ul style="list-style-type: none"> Conducted post-closure activities 	<ul style="list-style-type: none"> Conduct post-closure activities
GSA Eastern Groundwater OU (NBN) [formerly the H-Area Groundwater OU (NBN)]	<ul style="list-style-type: none"> Collect annual groundwater samples Submit annual scoping summary 		<ul style="list-style-type: none"> Collected annual groundwater samples Submitted annual scoping summary 	<ul style="list-style-type: none"> Collect annual groundwater samples Submit annual scoping summary
GSA Western Groundwater OU (NBN) [formerly the F-Area Tank Farm Groundwater and F-Area Canyon Groundwater OUs (NBN)]	<ul style="list-style-type: none"> Collect annual groundwater samples Submit annual scoping summary 		<ul style="list-style-type: none"> Collected annual groundwater samples Submitted annual scoping summary 	<ul style="list-style-type: none"> Collect annual groundwater samples Submit annual scoping summary
Gunsite 012 OU [consisting of Gunsite 012 Rubble Pile (NBN), Rubble Pile Across from Gunsite 012 (NBN), and ECODS G-3 (NBN)]	<ul style="list-style-type: none"> Conduct post-closure activities 		<ul style="list-style-type: none"> Conducted post-closure activities 	<ul style="list-style-type: none"> Conduct post-closure activities
K-Area Burning/Rubble Pit and Rubble Pile (131-K and 631-20G), and P-Area Burning/ Rubble Pit (131-P) OUs	<ul style="list-style-type: none"> Submit Combined Groundwater Monitoring Report (GMR) (Sampling Summary) Conduct post-closure activities 	<ul style="list-style-type: none"> Submitted Combined GMR (Sampling Summary) 	<ul style="list-style-type: none"> Conducted post-closure activities 	<ul style="list-style-type: none"> Submit Combined GMR Conduct post-closure activities
K-Reactor Complex	<ul style="list-style-type: none"> Conduct post-closure activities (EA) 		<ul style="list-style-type: none"> Conducted post-closure activities (EA) 	<ul style="list-style-type: none"> Conduct post-closure activities (EA)
L-Area Southern Groundwater OU	<ul style="list-style-type: none"> Conduct groundwater monitoring 		<ul style="list-style-type: none"> Conducted groundwater monitoring 	<ul style="list-style-type: none"> Submit EMR (Data Summary) Conduct groundwater monitoring

Table 3. Status of Site Evaluation Areas, RCRA/CERCLA Units, and Integrator Operable Units (Continued)

RCRA/CERCLA Units or SEAs	FY2021 Work Planned	FY2021 Work Accomplished (Appendix D Milestones)	FY2021 Work Accomplished (Other)	FY2022 Work Planned
L-Reactor Complex	<ul style="list-style-type: none"> Conduct post-closure activities (EA) 		<ul style="list-style-type: none"> Conducted post-closure activities (EA) 	<ul style="list-style-type: none"> Conduct post-closure activities (EA)
Lower Three Runs IOU [including P and R Pond (685G), Pre-Cooler Ponds and Canals, and Old R-Area Discharge Canal]	<ul style="list-style-type: none"> Conduct post-closure activities (EA) Submit ROD (Revisions 0 and 1) 	<ul style="list-style-type: none"> Submitted ROD (Revision 0) 	<ul style="list-style-type: none"> Conducted post-closure activities (EA) Submitted ROD (Revision 1) 	<ul style="list-style-type: none"> Conduct post-closure activities (EA) Issue ROD Submit RAIP (Revisions 0 and 1) Submit LUCIP (Revisions 0 and 1)
M-Area Operable Unit ¹	<ul style="list-style-type: none"> Conduct post-closure activities 		<ul style="list-style-type: none"> Conducted post-closure activities 	<ul style="list-style-type: none"> Conduct post-closure activities
M-Area HWMF: Vadose Zone (643-28G)	<ul style="list-style-type: none"> Continue characterization of vadose zone Continue operation of M-Area Settling Basin (MASB) Western Sector Treatment System (WSTS) and other vadose zone corrective action (CA) systems Submit annual WSTS polychlorinated biphenyl (PCB) progress report Submit annual CA and GMR 		<ul style="list-style-type: none"> Continued characterization of vadose zone Continued operation of MASB WSTS and other vadose zone CA systems Submitted annual WSTS PCB progress report Submitted annual CA and GMR 	<ul style="list-style-type: none"> Continue characterization of vadose zone Continue operation of MASB WSTS and other vadose zone CA systems Submit annual WSTS PCB progress report Submit annual CA and GMR Submit 2013 RCRA Permit Renewal Application (Revision 2) Submit WSTS TSCA Risk-Based PCB Remediation Permit Renewal Application

Table 3. Status of Site Evaluation Areas, RCRA/CERCLA Units, and Integrator Operable Units (Continued)

RCRA/CERCLA Units or SEAs	FY2021 Work Planned	FY2021 Work Accomplished (Appendix D Milestones)	FY2021 Work Accomplished (Other)	FY2022 Work Planned
M-Area HWMF: A/M Area Groundwater Portion (904-110G)	<ul style="list-style-type: none"> • Submit Annual Appendix IX POC Well Sampling Proposal • Continued operation of the WSTS and other CA systems • Continue additional characterization of suspect volatile organic compound (VOC) sources • Continue groundwater monitoring • Submit the annual CA and GMR • Submit Northwest of MASB temporary authorization (TA) Request (Emulsified Zero Valent Iron [EZVI]) • Submit Crouch Branch Aquifer Unit/McQueen Branch Aquifer Unit Characterization Plan • Submit Western Sector In-Situ Chemical Oxidation (ISCO) II Report 		<ul style="list-style-type: none"> • Submitted Annual Appendix IX POC Well Sampling Proposal • Continued operation of WSTS and other CA systems • Continued additional characterization of suspect VOC sources • Continued groundwater monitoring • Submitted annual CA and GMR • Submitted Northwest of MASB TA Request (EZVI) • Submitted Crouch Branch Aquifer Unit/McQueen Branch Aquifer Unit Characterization Plan • Submitted Western Sector ISCO II Report 	<ul style="list-style-type: none"> • Submit Annual Appendix IX POC Well Sampling Proposal • Continued operation of the WSTS and other CA systems • Continue additional characterization of suspect VOC sources • Continue groundwater monitoring • Submit the annual CA and GMR • Submit Northwest of MASB Underground Injection Control Application (EZVI) • Submit 2013 RCRA Permit Renewal Application (Revision 2)

Table 3. Status of Site Evaluation Areas, RCRA/CERCLA Units, and Integrator Operable Units (Continued)

RCRA/CERCLA Units or SEAs	FY2021 Work Planned	FY2021 Work Accomplished (Appendix D Milestones)	FY2021 Work Accomplished (Other)	FY2022 Work Planned
MASB Inactive Process Sewers to Manhole 1 (081-M) OU	<ul style="list-style-type: none"> Conduct post-closure activities 		<ul style="list-style-type: none"> Conducted post-closure activities Discontinued operation of the soil vapor extraction system. 	<ul style="list-style-type: none"> Conduct post-closure activities
MASB (904-51G)	<ul style="list-style-type: none"> Conduct post-closure activities 		<ul style="list-style-type: none"> Conducted post-closure activities 	<ul style="list-style-type: none"> Conduct post-closure activities
Metallurgical Laboratory (Met Lab) / Carolina Bay (904-110G)	<ul style="list-style-type: none"> Submit Annual Appendix IX POC Well Sampling Proposal Continue groundwater monitoring Submit annual CA and GMR Continue operation of the existing Met Lab recovery wells and BaroBall™ wells Conduct post-closure activities 		<ul style="list-style-type: none"> Submitted Annual Appendix IX POC Well Sampling Proposal Continued groundwater monitoring Submitted annual CA and GMR Continued operation of the existing Met Lab recovery wells and BaroBall™ wells Conducted post-closure activities 	<ul style="list-style-type: none"> Submit Annual Appendix IX POC Well Sampling Proposal Continue groundwater monitoring Submit annual CA and GMR Continue operation of the existing Met Lab recovery wells and BaroBall™ wells Conduct post-closure activities Submit 2013 RCRA Permit Renewal Application (Revision 2)

Table 3. Status of Site Evaluation Areas, RCRA/CERCLA Units, and Integrator Operable Units (Continued)

RCRA/CERCLA Units or SEAs	FY2021 Work Planned	FY2021 Work Accomplished (Appendix D Milestones)	FY2021 Work Accomplished (Other)	FY2022 Work Planned
Mixed Waste Management Facility (Groundwater)	<ul style="list-style-type: none"> Conduct operation and effectiveness monitoring of the Tritium phytoremediation system at the Southwest Plume (SWP) Maintain compliance with groundwater monitoring Submit the proposed POC Wells for Appendix IX sampling Submit Annual CAR 		<ul style="list-style-type: none"> Conducted operation and effectiveness monitoring of the Tritium phytoremediation system at SWP Maintained compliance with groundwater monitoring Submitted the proposed POC Wells for Appendix IX sampling Submitted Annual CAR 	<ul style="list-style-type: none"> Conduct operation and effectiveness monitoring of the Tritium phytoremediation system at the SWP Maintain compliance with groundwater monitoring Submit the proposed POC Wells for Appendix IX sampling Submit Annual CAR
P-Area Operable Unit ¹	<ul style="list-style-type: none"> Conduct post-closure activities 		<ul style="list-style-type: none"> Conducted post-closure activities 	<ul style="list-style-type: none"> Conduct post-closure activities
P-Area Groundwater OU	<ul style="list-style-type: none"> Conduct Permeable Reactive Barrier (PRB) removal action monitoring Submit P-Area Groundwater OU EMR Submit RAR (Revision 1) 		<ul style="list-style-type: none"> Submitted RAR (Revision 1) Conducted PRB removal action monitoring 	<ul style="list-style-type: none"> Submit P-Area Groundwater OU EMR (Data Summary) Conduct PRB removal action monitoring
R-Area OU ¹	<ul style="list-style-type: none"> Submit Biennial Groundwater EMR Conduct post-closure activities 	<ul style="list-style-type: none"> Submitted Biennial Groundwater EMR 	<ul style="list-style-type: none"> Conducted post-closure activities 	<ul style="list-style-type: none"> Conduct post-closure activities
R-Area Burning/Rubble Pits (131-R, -1R) and Rubble Pile (631-25G) OU	<ul style="list-style-type: none"> Conduct post-closure activities 		<ul style="list-style-type: none"> Conducted post-closure activities 	<ul style="list-style-type: none"> Conduct post-closure activities

Table 3. Status of Site Evaluation Areas, RCRA/CERCLA Units, and Integrator Operable Units (Continued)

RCRA/CERCLA Units or SEAs	FY2021 Work Planned	FY2021 Work Accomplished (Appendix D Milestones)	FY2021 Work Accomplished (Other)	FY2022 Work Planned
R-Area Reactor Seepage Basins (904-57G, -58G, -59G, -60G, -103G, -104G) and 108-4R Overflow Basin OU	<ul style="list-style-type: none"> Conduct post-closure monitoring activities Initiate remaining asphalt crack fill and seal over approximately 325,000 ft² of asphalt cap (corrective maintenance). Initiate field activities to cover the entire seepage basins surface with two coats asphalt sealant. 		<ul style="list-style-type: none"> Conducted post-closure monitoring activities Completed remaining asphalt crack fill and seal over approximately 325,000 ft² of asphalt cap (corrective maintenance). Completed field activities to cover the entire seepage basins surface with two coats asphalt sealant. 	<ul style="list-style-type: none"> Conduct post-closure monitoring activities Submit Biennial GWMZ Report
Sanitary Landfill (740-G) Groundwater	<ul style="list-style-type: none"> Submit Annual CA and GMR Conduct groundwater monitoring 		<ul style="list-style-type: none"> Submitted Annual CA and GMR Conducted groundwater monitoring 	<ul style="list-style-type: none"> Submit Annual CA and GMR Conduct groundwater monitoring
Sanitary Landfill (740-G)	<ul style="list-style-type: none"> Conduct post-closure activities 		<ul style="list-style-type: none"> Conducted post-closure activities 	<ul style="list-style-type: none"> Conduct post-closure activities
Silverton Road Waste Site (731-3A)	<ul style="list-style-type: none"> Conduct post-closure activities 		<ul style="list-style-type: none"> Conducted post-closure activities 	<ul style="list-style-type: none"> Conduct post-closure activities
Savannah River Laboratory (SRL) Seepage Basins (904-53G1, 904-53G2, 904-54G, 904-55G) OU	<ul style="list-style-type: none"> Conduct post-closure activities 		<ul style="list-style-type: none"> Conducted post-closure activities 	<ul style="list-style-type: none"> Conduct post-closure activities
Steel Creek IOU	<ul style="list-style-type: none"> Submit WADB PCR (Revision 1) Conduct post-closure activities 		<ul style="list-style-type: none"> Submitted WADB PCR (Revision 1) Conducted post-closure activities 	<ul style="list-style-type: none"> Conduct post-closure activities

Table 3. Status of Site Evaluation Areas, RCRA/CERCLA Units, and Integrator Operable Units (Continued/End)

RCRA/CERCLA Units or SEAs	FY2021 Work Planned	FY2021 Work Accomplished (Appendix D Milestones)	FY2021 Work Accomplished (Other)	FY2022 Work Planned
Stormwater Outfall A-013 (NBN) OU	<ul style="list-style-type: none"> Submit ROD (Revisions 0 and 1) 	<ul style="list-style-type: none"> Submitted ROD (Revision 0) 	<ul style="list-style-type: none"> Submitted ROD (Revision 1) Issued ROD (FY2022 milestone completed ahead of schedule in FY2021.) 	<ul style="list-style-type: none"> Issue ROD (FY2022 milestone completed ahead of schedule in FY2021.)
T-Area OU ¹	<ul style="list-style-type: none"> Conduct post-closure activities 		<ul style="list-style-type: none"> Conducted post-closure activities 	<ul style="list-style-type: none"> Conduct post-closure activities
TNX OU	<ul style="list-style-type: none"> Submit Comprehensive Annual Groundwater and RA Effectiveness Interim Report Conduct post-closure activities 	<ul style="list-style-type: none"> Submitted Comprehensive Annual Groundwater and RA Effectiveness Interim Report 	<ul style="list-style-type: none"> Conducted post-closure activities 	<ul style="list-style-type: none"> Submit Comprehensive Annual Groundwater and RA Effectiveness Interim Report Conduct post-closure activities

¹ FFA Appendix C.5 lists the Units and Facilities (or Remnants) assigned to each Area OU.

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APPENDIX A

Land Use Controls Units

During Fiscal Year (FY) 2000, the Parties approved the Land Use Control Assurance Plan (LUCAP) for Savannah River Site (SRS) and signed its associated Memorandum of Agreement. The LUCAP is updated periodically to include additional approved unit-specific Land Use Control Implementation Plans (LUCIPs). The unit-specific LUCIPs detail how SRS will implement, maintain, and monitor the land use control (LUC) elements of the selected remedy to ensure that the remedy remains protective of human health and the environment.

Records of Decision (RODs) have been issued for some Resource Conservation and Recovery Act (RCRA)/Comprehensive Environmental Response, Compensation, and Liability Act Units at the SRS in which the selected alternative is or includes LUCs. To assure United States Environmental Protection Agency, South Carolina Department of Health and Environmental Control, and the public that United States Department of Energy (USDOE) is maintaining the LUCs as stipulated, the Manager, Savannah River Operations Office, shall annually certify these units. These units are currently being controlled in accordance with the unit-specific Record of Decisions (RODs), unit-specific LUCIPs, and in accordance with the LUCAP for SRS.

Unit-specific LUCs were not part of the interim remedies at the E-Area Low-Level Waste Facility (LLWF) (Slit Trench Disposal Units 1 to 5) Operable Unit (OU) and the F-Area Tank Farm (FTF) OU (Waste Tanks 5, 6, and 17 to 20). The E-Area LLWF and the FTF OU are currently in the operational phase, and OU-specific LUCs are deferred until final closure of the entire E-Area LLWF and FTF OUs. SRS facility security and administrative controls that restrict unauthorized access to these operating facilities were not previously recognized as part of the interim remedies. In the *Fifth Five-Year Remedy Review Report for Savannah River Site Operable Units with Geosynthetic or Stabilization/Solidification Cover Systems* (SRNS-RP-2016-00610, Revision 1.1, December 2017), USDOE recommended revising the Federal Facility Agreement Annual Progress Report list of LUC Units to include these OUs to recognize SRS facility security and administrative controls that restrict unauthorized access as providing long-term protection of human health and the environment.

The H-Area Tank Farm (HTF) OU (Waste Tank 16) Interim ROD (Irod) (SRR-CWDA-2015-00157, Revision 1, July 2016) was issued in August 2016. The HTF OU (Waste Tank 12) Explanation of Significant Difference to the Irod (SRR-CWDA-2016-00107, Revision 0, December 2016) was issued in April 2017. A remedy evaluation was premature for inclusion in the *Fifth Five-Year Remedy Review Report for Savannah River Site Operable Units with Geosynthetic or Stabilization/Solidification Cover Systems* (SRNS-RP-2016-00610, Revision 1.1, December 2017). However, the same conditions apply to the operational HTF OU as to the E-Area LLWF and FTF OUs. Therefore, these OUs were added to the list below to certify long-term protectiveness through compliance with the SRS facility security and administrative controls. A remedy evaluation for the HTF OU (Waste Tanks 12 and 16) will be discussed for the first time in the *Sixth Five-Year Remedy Review Report for Savannah River Site Operable Units with Geosynthetic or Stabilization/Solidification Cover Systems* that will be submitted to the regulators in December 2021. Additional slit trench disposal units and waste tanks will be added as interim remedies are implemented.

Unit-specific LUCs were not part of the interim remedy at the C-Area Groundwater (CAGW) OU. The electrical resistance heating with soil vapor extraction interim remedy was determined to be protective of human health and the environment in the short-term. However, for the remedy to be protective in the long-term, additional remedial actions, including LUCs (if needed), will need to be implemented at CAGW OU. SRS facility security and administrative controls that restrict unauthorized access to this OU were not previously recognized as part of the interim remedy. In the *Sixth Five-Year Remedy Review Report for Savannah River Site Operable Units with Groundwater Remedies* (SRNS-RP-2019-00511, Revision 1, July 2020), USDOE recommended revising the FFA Annual Progress Report list of LUC Units to include this OU to recognize SRS facility security and administrative controls that restrict unauthorized access as providing long-term protection of human health and the environment. Therefore, the CAGW OU was added to the list below.

The FY 2021 certification is applicable to the following RCRA/CERCLA Units.

Unit Name	SRS Index Number(s)	SEMS Number(s)
A-Area Burning/Rubble Pits (731-A, -1A) and Rubble Pit (731-2A) and the Miscellaneous Chemical Basin/Metals Burning Pit (731-4A and -5A) OU (includes A-Area Ash Pile, 788-2A)	45, 46, 49, 101, 102, 237	28
A-Area Miscellaneous Rubble Pile (731-6A) OU	48	30
B-Area OU (consisting of Heavy Water Components Test Reactor [Building 770-U] and Early Construction and Operational Disposal Site [ECODS] B-3 [East of B Area, South of Road C] [no building number {NBN}] and ECODS B-5 [Adjacent to ECODS B-3] [NBN])	528, 530, 2003	48
C-, K-, and L-Reactor Complexes Early Action	577, 583, 584	79, 90, 91
C-Area Burning/Rubble Pit (131-C) and Old C-Area Burning Rubble Pit (NBN) OU	51, 566	31
C-Area OU Early Action (consisting of C-Area Process Sewer Lines as Abandoned [NBN], C-Area Reactor Area Cask Car Railroad Tracks as Abandoned [NBN], ECODS C-1 [Near C-Area Reactor Discharge Canal {NBN}], Potential Release from C-Area Disassembly Basin [NBN], Potential Release from C-Area Reactor Cooling Water System [186/190-C])	555, 475, 522, 240, 242	79
C-Area Groundwater OU (NBN) ³	146	82
C-Area Reactor Seepage Basins (904-66G, -67G, and -68G) OU	53, 54, 55	60
Central Shops Burning/Rubble Pits (631-1G and -3G) OU	58, 59	50
Chemicals, Metals, and Pesticides Pits (080-170G, -171G, -180G, -182G, -183G, and -190G) OU	61, 62, 63, 64, 65, 66, 67	24
D-Area Burning/Rubble Pits (431-D and -1D) OU	32, 33	15
D-Area Expanded OU (consisting of D-Area Rubble Pit [431-2D] and D-Area Ash Basin [488-D])	68, 273	67
D-Area Oil Seepage Basin (631-G) OU	26	27
DAOU Early Action (consisting of D-Area Asbestos Pit [080-20G] and D-Area Coal Pile Runoff Basin [489-D] [Northern 25%])	69, 211	63
DAOU Second Early Action (consisting of D-Area Ash Basins [488-1D {including Inlet Basins} and 488-2D], D-Area Ash Landfill [488-4D], and D-Area Coal Pile Runoff Basin [489-D] [Southern 75%])	238, 272, 548, 211	63
E-Area Low-Level Waste Facility (643-26E) OU (Slit Trench Disposal Units 1 to 5)	592	86
ECODS L-1, N-2, P-2, and R-1A, -1B, -1C OU	535, 539, 545, 540	22
F-Area Burning/Rubble Pits (231-F, -1F, and -2F) OU	34, 35, 36	14
F-Area Industrial Solid Waste Landfill (F-Area Railroad Crosstie Pile) (NBN)	279	NA*
F-Area Retention Basin (281-3F) OU	73	23
F-Area Tank Farm OU (Waste Tanks 5 to 6, 17 to 20)	283, 580	23
Ford Building Seepage Basin (904-91G) OU	75	58

Unit Name	SRS Index Number(s)	SEMS Number(s)
General Separations Area Consolidation Unit (consisting of Old Radioactive Waste Burial Ground [ORWBG] [including Solvent Tanks 650-01E to 650-22E] [643-E], HP-52 Ponds, H-Area Retention Basin [281-3H] and Spill on 05/01/1956 of Unknown of Retention Basin Pipe Leak [NBN], Warner's Pond [685-23G] and Spill on 03/08/1978 of Unknown of Seepage Basin Pipe Leak in H-Area Seepage Basin [NBN], and Spill on 02/08/78 of Unknown of H-Area Process Sewer Line Cave-In [NBN])	18, 29, 28, 417, 27, 405, 398	32
Gunsite 012 OU (consisting of Gunsite 012 Rubble Pile [NBN], Rubble Pile Across from Gunsite 012 [NBN], and ECODS G-3 [Adjacent to Gunsite 012] [NBN])	163, 337, 544	78
H-Area Tank Farm OU (Waste Tanks 12 and 16)	298, 582	89
Heavy Equipment Wash Basin (NBN) OU	502	53
K-Area Bingham Pump Outage Pit (643-1G) OU	83	20
K-Area Burning/Rubble Pit (131-K) and K-Area Rubble Pile (631-20G) OU	84, 88	40
K-Area Reactor Seepage Basin (904-65G) OU	87	55
L- and P-Area Bingham Pump Outage Pits (643-2G, -3G, and -4G) OU	91, 92, 107	26, 39
L-Area Oil and Chemical Basin (904-83G) OU	96	17
L-Area Reactor Seepage Basin (904-64G) OU	306	65
L-Area Southern Groundwater (NBN) OU	487	77
Lower Three Runs Integrator Operable Unit (IOU) Tail Portion (Middle and Lower Subunits)	505	35
M-Area OU (consisting of Potential release of Heavy Metals from 321-M Abandoned Sewer Line [NBN], Salvage Yard [741-A], Underground Sump 321-M #001, and Underground Sump 321-M #002)	585, 326, 340, 465, 466	92
M-Area Settling Basin Inactive Process Sewer Lines OU (081-M)	100, 234	19
Old F-Area Seepage Basin (904-49G) OU	105	16
P-Area Burning/Rubble Pit (131-P) OU	108	59
P-Area OU (consisting of Spill on 03/15/79 of 500 Gallons of Contaminated Water [NBN], P-Area Ash Basin [188-0P], Potential Release from P-Area Disassembly Basin [105-P], Potential Release from the P-Area Reactor Cooling Water System [186/190-P], P-Area Reactor Area Cask Car Railroad Tracks as Abandoned [NBN], P-Area Process Sewer Lines as Abandoned [NBN])	126, 313, 314, 316, 477, 557, 587	94
P-Area Reactor Seepage Basins (904-61G, -62G, and -63G) OU	317, 318, 319	66
R-Area Bingham Pump Outage Pits (643-8G, -9G, and -10G) and R-Area Unknown Pits #1, #2, #3 (RUNK-1, -2, and -3) OU	113, 114, 115, 550, 551, 552	38
R-Area Burning/Rubble Pits (131-R and 131-1R) and R-Area Rubble Pile (631-25G) OU	117, 116, 118	43

Unit Name	SRS Index Number(s)	SEMS Number(s)
R-Area OU (consisting of Area on the North Side of Building 105-R, Laydown Area North of 105-R, and Release from the Decontamination of R-Area Reactor Disassembly Basin [NBN], Combined Spills North of Building 105-R [NBN], Cooling Water Effluent Sump [107-R], Potential Release from R-Area Disassembly Basin [NBN], Potential Release of NaOH/H ₂ SO ₄ from 183-2R [NBN], R-Area Ash Basin [188-0R], R-Area Groundwater, R-Area Process Sewer Lines as Abandoned [NBN], and R-Area Reactor Area Cask Car Railroad Tracks as Abandoned [NBN])	231, 233, 271, 288, 324, 329, 330, 478, 513, 517, 556, 588	95
R-Area Reactor Seepage Basins (904-57G, -58G, -59G, -60G, -103G, and -104G) OU	119, 120, 121, 122, 123, 124	25
Silverton Road Waste Site (731-3A)	41	13
Savannah River Laboratory Seepage Basins (904-53G1, -53G2, -54G, and -55G) OU	133, 134, 135, 136	47
T-Area OU (consisting of Neutralization Sump [678-T], TNX Outfall Delta, Lower Discharge Gully, and Swamp [NBN], TNX-Area Process Sewer Lines and Tile Fields as Abandoned [NBN], and X-001 Outfall Drainage Ditch [NBN] [See USDOE Letter SGP-05-128 for list of decommissioned facilities added to T-Area Completion])	589, 310, 500, 559, 467	96
TNX OU (consisting of TNX Burying Ground [643-5G] [including Spill on 01/12/53 of 1/2 Ton of Uranyl Nitrate], New TNX Seepage Basin [904-102G], Old TNX Seepage Basin [904-076G], and TNX Groundwater [082-G])	139, 104, 106, 25, 127	21, 29
Wetland Area at Dunbarton Bay in Support of Steel Creek IOU ⁴	509	71

* N/A = Not Applicable

SEMS = Superfund Enterprise Management System

Notes:

1. The L-Area Hot Shop OU (717-G) was designated as a No Action OU in FY2014 and was removed from this LUC certification list.
2. The L-Area Rubble Pile (131-3L) OU was designated as a No Action OU in FY2018 and was removed from this LUC certification list.
3. The E-Area LLWF, FTF, HTF, and CAGW OUs were added to the list to certify long-term protectiveness through compliance with the SRS facility security and administrative controls.
4. The LUCIP for the Wetland Area at Dunbarton Bay in Support of Steel Creek IOU (SRNS-RP-2018-00479, Revision 1, November 2018) was approved in FY2019. The signs were installed on January 8, 2020. Per the regulatory approved LUCIP, the field inspections will be performed every five years. Additional inspections may be necessary in the event of unusual weather (e.g., storms with significant wind force or ice storms that could result in tree damage to access control signs) or any other condition warranting inspection.

USDOE-SR Certification for Land Use Controls

I certify that the Savannah River Site has maintained compliance with all unit-specific Land Use Control Implementation Plans in accordance with the *Land Use Control Assurance Plan for the Savannah River Site*.

Michael D. Budney

Digitally signed by Michael D. Budney
Date: 2021.11.20 17:21:03 -05'00'

Signature: _____ Date: _____

Michael D. Budney
Manager
Savannah River Site