



Federal Facility Agreement Annual Progress Report for Fiscal Year 2019

SRNS-RP-2019-00657

November 2019

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and
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TABLE OF CONTENTS

<u>Section</u>	<u>Page</u>
LIST OF TABLES	iii
List of APPENDICES	iii
LIST OF ABBREVIATIONS AND ACRONYMS	v
1.0 INTRODUCTION.....	1
1.1 Overview of FY2018	1
1.2 Outcome of Extension Notifications and Requests	1
1.3 Status of Site Evaluation Areas, Resource Conservation and Recovery Act/Comprehensive Environmental Response, Compensation, and Liability Act Units, and Integrator Operable Units	1
1.4 USDOE-Savannah River (SR) Contractors.....	2
2.0 OVERVIEW OF FY2018.....	2
2.1 Field Activities.....	2
2.2 RODs and/or Explanation of Significant Differences.....	3
2.3 Post-ROD Documents.....	3
2.4 Annual Update of FFA Appendices.....	3
2.4.1 Appendices C, G, H, and K.....	3
2.4.2 Appendix D, Timetables and Deadlines	3
2.4.3 Appendix E, Long Term Projections	4
2.5 Disputes.....	4
2.6 Site Evaluation Program	4
3.0 OUTCOME OF EXTENSION NOTIFICATIONS AND REQUESTS.....	5
4.0 STATUS OF SEAS, RCRA/CERCLA UNITS AND IOUS	5

LIST OF TABLES

<u>Table</u>	<u>Page</u>
Table 1. USDOE-SR Contractors.....	6
Table 2. Extension Notifications and Requests	7
Table 3. Status of Site Evaluation Areas, RCRA/CERCLA Units, and Integrator Operable Units (by Name).....	11

LIST OF APPENDICES

<u>Appendix</u>	<u>Page</u>
Appendix A. Land Use Control Units.....	A-1

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LIST OF ABBREVIATIONS AND ACRONYMS

CA	Corrective Action
CAR	Corrective Action Report
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CMI/RAIP	Corrective Measures Implementation/Remedial Action Implementation Plan
CMP	Chemicals, Metals, and Pesticides
CMS/FS	Corrective Measures Study/Feasibility Study
CPRB	Coal Pile Runoff Basin
D&D	Deactivation and Decommissioning
DACSA	D-Area Coal Storage Area
DAOU	D-Area Operable Unit
EA	Early Action
EE/CA	Engineering Evaluation/Cost Analysis
ECO	ecological
ECODS	Early Construction and Operational Disposal Site
EMP	Effectiveness Monitoring Plan
EMR	Effectiveness Monitoring Report
FMB	Fourmile Branch
FFA	Federal Facility Agreement
FS	Feasibility Study
FSP	Field Sampling Plan
FTF	F-Area Tank Farm
FY	Fiscal Year
GMR	Groundwater Monitoring Report
GOSB	G-Area Oil Seepage Basin
GSA	General Separations Area
GSACU	General Separations Area Consolidation Unit
GWM	Groundwater Monitoring
GWMZ	Groundwater Mixing Zone
HH	human health
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
MIPSL	M-Area Inactive Process Sewer Lines

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

NBN	No Building Number
ORWBG	Old Radioactive Waste Burial Ground
OU	Operable Unit
PCB	polychlorinated biphenyl
PCR	Post Construction Report
PE	Professional Engineer
PER	Performance Evaluation Report
POC	Point of Compliance
PP	Proposed Plan
RACR	Remedial Action Completion Report
RADP	Removal Action Design Plan
RAR	Removal Action Report
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
RI	Remedial Investigation
ROD	Record of Decision
RSER	Removal Site Evaluation Report
SAP	Sampling and Analysis Plan
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
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
TCE	trichloroethylene
UIC	underground injection control
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) 2019 (October 1, 2018 through September 30, 2019) and activities planned for FY2020 (October 1, 2019 through September 30, 2020) 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 FY2019

This section contains a brief overview of the actions taken by USDOE, USEPA, and SCDHEC during FY2019 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 FY2019, including milestones, document submittals, risk assessments, site evaluations, remediation activities, and other field activities;
- List of work accomplished in FY2019, as documented in Appendix D of the FFA;
- List of work accomplished in FY2019, not documented in Appendix D of the FFA;
- List of activities extended by a Three-Party Agreement during FY2019; and a
- List of work planned for FY2020, 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 (SR) Contractors

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

2.0 OVERVIEW OF FY2019

The following subsections contain a synopsis of activities and accomplishments achieved by USDOE, USEPA, and SCDHEC throughout FY2019.

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 FY2019, 418 units were complete or in the remediation phase (408 complete and 10 in the remediation phase). At the end of FY2019, 418 units were complete or in the remediation phase (410 complete and 8 in the remediation phase).

Remedial Investigation (RI) Field Starts were initiated at the Upper Three Runs Integrator Operable Unit (IOU) (including Tims Branch [No Building Number, {NBN}]) Fifth Phase II and Steel Creek IOU (including Wetland Area at Dunbarton Bay [WADB] [NBN], L Lake [NBN], and L-Area Reactor Discharge Canal [NBN]) Sixth Phase II.

A Remedial Action (RA) Start was initiated at the WADB in Support of Steel Creek IOU.

Removal Action Starts were initiated at C-Area Groundwater Operable Unit (OU) and P-Area Groundwater OU.

During FY2019, 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 as a cost-saving maintenance activity to protect soil covers/engineered caps at the D-Area Ash Basins (488-D, 488-1D, and 488-2D) and D-Area Ash Landfill (488-4D).

In addition, hog barrier fence installation was initiated at the D-Area Asbestos Pit (080-20G), D-Area Burning/Rubble Outs (431-D and 431-1D), K-Area Reactor Seepage Basin (904-65G), and K-Area Rubble Pile (631-20G).

2.2 RODs and/or Explanation of Significant Differences

A ROD was issued for the G-Area Oil Seepage Basin (GOSB) (761-13G) OU.

The Fifth Five-Year Remedy Review Report for SRS OUs with Operating Equipment was issued.

The Sixth Five-Year Remedy Review Report for SRS OUs with Native Soil Covers and/or Land Use Controls (LUCs) was submitted and approved.

2.3 Post-ROD Documents

A Post-Construction Report Addendum for the A-Area Miscellaneous Rubble Pile (731-6A) OU was submitted and approved.

A Corrective Measures Implementation/Remedial Action Implementation Plan (CMI/RAIP) and a LUCIP were approved for the WADB in Support of Steel Creek IOU.

A CMI/RAIP was submitted and approved for the GOSB OU.

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 FY2019, on September 28, 2018. The SCDHEC and USEPA approved the Revision 0 of Appendices C, G and K in their letters dated January 9, 2019, and February 6, 2019, respectively.

In accordance with the terms of the FFA, USDOE submitted Revision 0 of Appendix H, Solid Waste Management Units for FY2019, on September 28, 2018. The SCDHEC and USEPA approved the Revision 0 of Appendices C, G and K in their letters dated January 9, 2019, and February 6, 2019, 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

FY2019 Budget Allotment notification and Revision 0 Appendix D for FY2019 on March 13, 2019. The SCDHEC and USEPA conditionally approved Revision 0 of Appendix D on March 28, 2019, and April 8, 2019, respectively. The Revision 0 Appendix D was updated throughout the FY2019 based on regulatory approved changes to the milestones.

The Revision 0 Appendix D for FY2019, Timetables and Deadlines, lists numerous milestone dates. These include primary documents, annual updates to the FFA Appendices, Site Evaluation Reports, supporting documents, the initiation of RCRA Facility Investigation (RFI)/RI Field Starts and RA Starts, and the issuance of RODs. All milestones listed in Appendix D (i.e., all enforceable milestones for FY2019) 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 FY2019, on November 15, 2018. The SCDHEC and USEPA approved the Revision 0 Appendix E in their letters dated December 19, 2019 and February 6, 2019, respectively. The Revision 0 Appendix E was updated throughout FY2019 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 FY2019. However, in accordance with the November 8, 2017, Suspension Agreement, USDOE, SCDHEC, and USEPA met on September 26, 2018, February 11, 2019, February 21, 2019, and March 20, 2019, to discuss the status of the delay in awarding a new liquid waste contract, budget issues, and the Liquid Waste System Plan Revision 21. The discussions also addressed substantial programmatic issues as well as necessary adjustments that had been or will be made by the USDOE to the Liquid Waste Program. As a result of these discussions, USDOE, SCDHEC, and USEPA agreed to and signed the *2019 Suspension Agreement Federal Facility (FFA) High Level Waste (HLW) Tank Milestones*. The 2019 Suspension Agreement was incorporated into the FFA Appendix L via a minor modification on May 8, 2019.

2.6 Site Evaluation Program

Section X of the FFA requires USDOE to submit to USEPA and SCDHEC Removal Site Evaluation (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 Site Evaluation Report/Engineering Evaluation/Cost Analysis (RSER/EE/CA) for the D-Area Coal Storage Area (DACSA) (484-17D) during FY2019.

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 FY2019.

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.

During FY2019, SRS submitted six (6) Extension Requests and four (4) Extension Notifications. Table 2 documents the outcome of extension notifications and requests for FY2019. The table describes the main milestone affected.

4.0 STATUS OF SEAS, RCRA/CERCLA UNITS AND IOUS

Table 3 documents work planned and accomplished in FY2019 and work planned for FY2020. 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 "FY2019 Work Accomplished (Other)".

Table 1. USDOE-SR Contractors

Contractor Name	Responsibility
Savannah River Nuclear Solutions, LLC	Management & Operating Contract
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	11/5/2018	Chemicals, Metals, and Pesticides (CMP) Pits OU	USEPA Thirty-Day Notification for the Effectiveness Monitoring Report (EMR) for the Monitored Natural Attenuation at the CMP Pits OU, March 2017 through March 2018 (SRNS-OS-2018-00224)	Notification	10/17/2018 to 11/19/2018	N/A
N/A	11/5/2018	TNX Area Groundwater	USEPA Thirty-Day Extension Notification for the 2017 Annual Comprehensive TNX Area Groundwater Monitoring and RA Effectiveness Interim Report (SRNS-OS-2018-00225)	Notification	10/24/2018 to 11/26/2018	N/A
N/A	12/8/2018	488-1D Ash Basin and Inlet Basins	USEPA Thirty-Day Extension Notification for the Human Health and Ecological Evaluation for Confirmation Sampling at the 488-1D Ash Basin and Inlet Basins (Revision 0) (SRNS-OS-2018-00265)	Notification	12/4/2018 to 1/4/2019	N/A
IACD-19-118	12/20/2018	Lower Three Runs IOU	USDOE Thirty-Day Extension Notification for the Feasibility Study (FS) for the Lower Three Runs IOU (SRNS-RP-2018-00199, Revision 1 Redline) and SRS' Responses to the Regulatory Comments on the Revision 0 Document	Notification	1/4/2019 to 2/3/2019	N/A
IACD-19-124	1/30/2019	FFA Revision 1 Appendix E, Long-term Projections for FY2019	USDOE Thirty-Day Extension Notification for the FFA Revision 1 Appendix E, Long-Term Projections for FY2019	Notification	1/31/2019 to 3/2/2019	N/A
IACD-19-125	2/7/2019	Lower Three Runs IOU	USDOE Extension Request for the Submittal of the Proposed Plan (PP) (SRNS-RP-2019-00058, Revision 0) and Subsequent Milestones for the Lower Three Runs IOU	Request	PP: 2/28/2019 to 4/29/2019 ROD: 10/15/2019 to 12/16/2019 Issue ROD: 6/25/2020 to 8/25/2020 RAIP: 2/3/2021 (No change)	Approved

Table 2. Extension Notifications and Requests (Continued)

USDOE Letter Number	Letter Date	Unit Affected	Main Milestone Affected	Request or Notification	Extension (From/To)	Outcome
IACD-19-125 (cont'd)					LUCIP: 2/3/2021 (No change) RA Start: 9/28/2021 to 11/28/2021 Post Construction Report/ Remedial Action Completion Report (PCR/RACR): 6/15/2023 (No change)	
N/A	2/19/2019	M-Area Inactive Process Sewer Lines (MIPSL) OU	USEPA Thirty-Day Extension Notification for the Sampling and Analysis Plan for the MIPSL OU (SRNS-OS-2019-00036)	Notification	1/28/2019 to 2/28/2019	N/A
N/A	2/19/2019	488-1D Ash Basin and Inlet Basins	USEPA Thirty-Day Extension Notification for the Human Health and Ecological Evaluation for Confirmation Sampling at the 488-1D Ash Basin and Inlet Basins (Revision 0) (SRNS-OS-2019-00037)	Notification	1/25/2019 to 2/25/2019	N/A
N/A	2/19/2019	RSER/EE/CA for DACSA (484-17D)	USEPA Thirty-Day Extension Notification for the Notification for the RSER/EE/CA for DACSA (484-17D) (Revision 0) (SRNS-OS-2019-00053)	Notification	1/25/2019 to 2/28/2019	N/A
N/A	3/1/2019	Lower Three Runs IOU	USEPA Extension Request for the FS Submittal for the Lower Three Runs OU (SRNS-RP-2018-00199], Jan 2019, Rev. 1 Redline (SRNS-OS-2019-00050)	Request	1/30/2019 to 3/31/2019	Approved
N/A	3/7/2019	Sixth Five-Year Remedy Review Report for SRS OUs with Native Soil Covers and/or LUCs	SCDHEC Thirty-Day Extension Notification for the Sixth Five-Year Remedy Review Report for SRS OUs with Native Soil Covers and/or LUCs (SRNS-RP-2018-00811, Revision 0, December 2018) (SRNS-OS-2019-00060)	Notification	3/21/2019 to 4/20/2019	N/A
IACD-19-136	3/28/2019	RSER/EE/CA for DACSA (484-17D)	USDOE Thirty-Day Extension Notification for the RSER/EE/CA for DACSA (SRNS-RP-2018-00813, Revision 1) and SRS' Responses to the Regulatory Comments on the Revision 0 Document	Notification	4/3/2019 to 5/3/2019	N/A

Table 2. Extension Notifications and Requests (Continued)

USDOE Letter Number	Letter Date	Unit Affected	Main Milestone Affected	Request or Notification	Extension (From/To)	Outcome
IACD-19-142	4/11/2019	Lower Three Runs IOU	USDOE Thirty-Day Extension Notification for the FS (SRNS-RP-2018-00199, Redline Revision 1.1) and Second Extension Request for the Submittal of the PP (SRNS-RP-2019-00058, Revision 0) and Subsequent Milestones for the Lower Three Runs IOU	Notification and Request	<p>FS: 5/8/2019 to 6/7/2019</p> <p>PP: 4/29/2019 to 7/29/2019</p> <p>ROD: 12/16/2019 to 3/16/2020</p> <p>Issue ROD: 8/25/2020 to 11/23/2020</p> <p>RAIP: 2/3/2021 (No change)</p> <p>LUCIP: 2/3/2021 (No change)</p> <p>RA Start: 11/28/2021 (No change)</p> <p>PCR/RACR: 6/15/2023 (No change)</p>	Approved
IACD-19-147	4/30/2019	RSER/EE/CA for DACSA (484-17D)	USDOE Extension Request for the Submittal of the RSER/EE/CA for DACSA (484-17D) (SRNS-RP-2018-00813, Revision 1) (including SRS' Responses to Regulatory Comments on the Revision 0 Document) and Subsequent Milestones	Request	<p>RSER/EE/CA: 5/3/2019 to 7/2/2019</p> <p>Action Memorandum: 5/31/2019 to 7/30/2019</p> <p>Removal Action Start: 4/30/2020 (No change)</p>	Approved
IACD-19-160	6/12/2019	D-Area Groundwater OU	USDOE Extension Request for the Submittal of the RFI/RI Work Plan for the D-Area Groundwater OU (D-Area Upgradient Sources) (SRNS-RP-2019-00394, Revision 0)	Request	7/25/2019 to 9/11/2019	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-19-167	6/27/2019	Lower Three Runs IOU	USDOE Third Extension Request for the Submittal of the PP (SRNS-RP-2019-00058, Revision 0) and Subsequent Milestones for the Lower Three Runs IOU	Request	PP: 7/29/2019 to 10/27/2019 ROD: 3/16/2020 to 6/15/2020 Issue ROD: 11/23/2020 to 2/22/2021 RAIP: 2/3/2021 to 5/4/2021 LUCIP: 2/3/2021 to 5/4/2021 RA Start: 11/28/2021 to 5/22/2022 PCR/RACR: 6/15/2023 to 2/22/2024	Approved
N/A	6/28/2019	GOSB OU	SCDHEC Thirty-Day Extension Notification for the CMI/RAIP for GOSB (761-13G) OU (SRNS-RP-2019-00081, Revision 0, April 2019) (SRNS-OS-2019-00188)	Notification	6/28/2019 to 7/26/2019	N/A
N/A	6/28/2019	D-Area Operable Unit (DAOU)	USEPA Thirty-Day Extension Notification for the Focused Corrective Measures Study/Feasibility Study (CMS/FS) Letter in Support of the DAOU (SRNS-OS-2019-00189)t	Notification	6/28/2019 to 7/26/2019	N/A
IACD-19-180	9/5/2019	D-Area Groundwater OU	USDOE Second Extension Request for the Submittal of the RFI/RI Work Plan for the D-Area Groundwater OU (D-Area Upgradient Sources) (SRNS-RP-2019-00394, Revision 0)	Request	9/11/2019 (Submittal was temporarily suspended.)	Approved

N/A = not applicable

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

RCRA/CERCLA Units or SEAs	FY2019 Work Planned	FY2019 Work Accomplished (Appendix D Milestones)	FY2019 Work Accomplished (Other)	FY2020 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"> Submit Annual PER Conduct post-closure activities Submit PCR Addendum 	<ul style="list-style-type: none"> Submitted Revision 0 PCR Addendum 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 Ash Pile (788-0A), A-Area Coal Pile Runoff Basin (788-3A), and Stormwater Outfall A-013 (NBN) 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 Submit Revision 1.2 Statement of Basis/Proposed Plan (SB/PP)
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 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"> Initiate Removal Action Start 	<ul style="list-style-type: none"> Initiated Removal Action Start 		<ul style="list-style-type: none"> Submit Revision 0 Removal Action Report 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

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

RCRA/CERCLA Units or SEAs	FY2019 Work Planned	FY2019 Work Accomplished (Appendix D Milestones)	FY2019 Work Accomplished (Other)	FY2020 Work Planned
C-Reactor Complex	<ul style="list-style-type: none"> Conduct post-closure activities (early action [EA]) 		<ul style="list-style-type: none"> Conducted post-closure activities (EA) 	<ul style="list-style-type: none"> Conduct post-closure activities (EA)
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 Submit DACSA (484-17D) RSER/EE/CA Submit DACSA Action Memorandum Submit RFI/RI Work Plan (Revision 0) Conduct post-closure activities 	<ul style="list-style-type: none"> Submitted DACSA (484-17D) RSER/EE/CA Issued DACSA (484-17D) Action Memorandum Submitted GWM Report 	<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 D-Area Groundwater OU RFI/RI Letter Work Plan Initiate D-Area Groundwater OU Treatability Study Field Start Initiate DACSA (484-17D) Removal Action Start Initiate D-Area Groundwater OU Field Start
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

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

RCRA/CERCLA Units or SEAs	FY2019 Work Planned	FY2019 Work Accomplished (Appendix D Milestones)	FY2019 Work Accomplished (Other)	FY2020 Work Planned
D-Area Operable Unit ¹	<ul style="list-style-type: none"> • Submit D-Area Ash Basin (488-1D) and Inlet Basins human health (HH) and ecological (ECO) Evaluation for Confirmation Sampling (Revision 0) • Submit D-Area Ash Basin (488-1D) and D-Area Coal Pile Runoff Basin (CPRB) (489-D) Removal Action Report (RAR) (Revision 0) • Submit D-Area Ash Basins (488-1D and 488-2D), D-Area Ash Landfill (488-4D), and D-Area CPRB Focused CMS/FS Letter (Revision 0) • Submit D-Area Ash Basins (488-1D and 488-2D), D-Area Ash Landfill (488-4D), and D-Area CPRB EA SB/PP (Revision 1) • Install D-Area Ash Basin (488-1D) Groundwater Monitoring Wells 	<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 (489-D) Focused CMS/FS Letter (Revision 0) 	<ul style="list-style-type: none"> • Submitted D-Area Ash Basin (488-1D) and Inlet Basins HH and ECO Evaluation for Confirmation Sampling (Revision 0) • Submitted D-Area Ash Basin (488-1D) and D-Area CPRB (489-D) RAR (Revision 0) • Installed D-Area Ash Basin (488-1D) Groundwater Monitoring Wells 	<ul style="list-style-type: none"> • Submit D-Area Ash Basin (488-1D) and D-Area CPRB (489-D) RAR (Revision 1 Clean Copy Professional Engineer stamped) • Submit D-Area Ash Basins (488-1D and 488-2D), D-Area Ash Landfill (488-4D), and D-Area CPRB Second EA ROD (Revision 0) • Submit D-Area Ash Basins (488-1D and 488-2D), D-Area Ash Landfill (488-4D), and D-Area CPRB Focused CMS/FS Letter (Rev 1) • Submit D-Area Ash Basins (488-1D and 488-2D), D-Area Ash Landfill (488-4D), and D-Area CPRB EA SB/PP (Revision 1)
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
Early Construction and Operational Disposal Site (ECODS) N-1, Central Shops Scrap Lumber Pile, and Building 690-N OU			<ul style="list-style-type: none"> • Completed Pre-Work Plan Characterization 	<ul style="list-style-type: none"> • Submit RFI/RI Work Plan (Revisions 0 and 1) • Initiate Field Start

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

RCRA/CERCLA Units or SEAs	FY2019 Work Planned	FY2019 Work Accomplished (Appendix D Milestones)	FY2019 Work Accomplished (Other)	FY2020 Work Planned
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
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 Complete Silver Chloride injection into groundwater plume 		<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 Completed Silver Chloride injection into groundwater plume 	<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
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
GOSB (761-13G) OU	<ul style="list-style-type: none"> Submit SB/PP (Revision 1) Submit ROD (Revisions 0 and 1) Issue ROD Submit CMI/RAIP (Revision 0) 	<ul style="list-style-type: none"> Submitted ROD (Revision 0) Submitted CMI/RAIP (Revision 0) Issued ROD Initiated RA Start (FY2020 Appendix E milestone) 	<ul style="list-style-type: none"> Submitted ROD (Revision 1) Submitted CMI/RAIP (Revision 0) (Certified Clean Copy) 	<ul style="list-style-type: none"> Perform RA Submit CMIR/PCR/RACR (Revision 0)

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

RCRA/CERCLA Units or SEAs	FY2019 Work Planned	FY2019 Work Accomplished (Appendix D Milestones)	FY2019 Work Accomplished (Other)	FY2020 Work Planned
General Separations Area Consolidation Unit [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 (Sampling Summary) 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)

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

RCRA/CERCLA Units or SEAs	FY2019 Work Planned	FY2019 Work Accomplished (Appendix D Milestones)	FY2019 Work Accomplished (Other)	FY2020 Work Planned
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"> Conduct groundwater monitoring Submit EMR (4-year EMR)
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 FS (Revision 1) Submit PP (Revision 0) 		<ul style="list-style-type: none"> Submitted FS (Revision 1) 	<ul style="list-style-type: none"> Conduct post-closure activities (EA) Submit PP (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 Submit 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 0)

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

RCRA/CERCLA Units or SEAs	FY2019 Work Planned	FY2019 Work Accomplished (Appendix D Milestones)	FY2019 Work Accomplished (Other)	FY2020 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 Underground Injection Control (UIC) Permit Application for Southern Sector Humate • Submit Temporary Authorization (TA) Request for the Injection of Humate in Southern Sector of the M-Area HWMF • Submit Western Sector In-Situ Chemical Oxidation (ISCO) First Interim 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 UIC Permit Application for Southern Sector Humate • Submitted TA Request for the Injection of Humate in Southern Sector of the M-Area HWMF • Submitted Western Sector ISCO First Interim 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 • Complete installation of RWM019 • Submit 2013 RCRA Permit Renewal Application (Revision 0) • Submit Western Sector ISCO I Second Interim Report • Submit Western Sector ISCO II TA Request • Submit Western Sector ISCO II UIC Permit Application

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

RCRA/CERCLA Units or SEAs	FY2019 Work Planned	FY2019 Work Accomplished (Appendix D Milestones)	FY2019 Work Accomplished (Other)	FY2020 Work Planned
MASB Inactive Process Sewers to Manhole 1 (081-M) OU	<ul style="list-style-type: none"> • Submit Annual PER • Conduct post-closure activities • Submit Sampling and Analysis Plan (SAP) 	<ul style="list-style-type: none"> • Submitted Annual PER 	<ul style="list-style-type: none"> • Conducted post-closure activities • Submitted SAP (Revisions 0 and 1) 	<ul style="list-style-type: none"> • Submit Annual PER • Conduct post-closure activities • Submit SAP (Corrected Clean Copy)
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 • Continued operation of the existing Met Lab recovery wells and BaroBall™ wells • Conduct post-closure activities • Submit 2013 RCRA Permit Renewal Application (Revision 0)

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

RCRA/CERCLA Units or SEAs	FY2019 Work Planned	FY2019 Work Accomplished (Appendix D Milestones)	FY2019 Work Accomplished (Other)	FY2020 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"> Submit RADP with EMP (Revision 0) Initiate Removal Action Start for the TCE Plume Discharging to Steel Creek in P-Area Groundwater OU 	<ul style="list-style-type: none"> Initiated the Removal Action Start for the TCE Plume Discharging to Steel Creek in P-Area Groundwater OU 	<ul style="list-style-type: none"> Submitted RADP with EMP (Revision 0) 	<ul style="list-style-type: none"> Submit RAR (Revision 0)
R-Area OU ¹	<ul style="list-style-type: none"> Submit Groundwater EMR Conduct post-closure activities 	<ul style="list-style-type: none"> Submitted Groundwater EMR 	<ul style="list-style-type: none"> Conducted post-closure activities 	<ul style="list-style-type: none"> Submit Groundwater EMR 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 (by Name) (Continued)

RCRA/CERCLA Units or SEAs	FY2019 Work Planned	FY2019 Work Accomplished (Appendix D Milestones)	FY2019 Work Accomplished (Other)	FY2020 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 		<ul style="list-style-type: none"> Conducted post-closure monitoring activities 	<ul style="list-style-type: none"> Submit Biennial GWMZ Letter Report Conduct post-closure monitoring activities
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 Periodic Report 6 (Revision 1) Initiate Sixth Phase II Field Start Submit WADB CMI/RAIP (Revision 1) Submit WADB LUCIP (Revision 1) Submit WADB FSP (Revision 1) Initiate WADB RA Start 	<ul style="list-style-type: none"> Initiated Sixth Phase II Field Start Initiated WADB RA Start 	<ul style="list-style-type: none"> Submitted Periodic Report 6 (Revision 1) Initiate Sixth Phase II Field Start Submitted WADB CMI/RAIP (Revision 1) Submitted WADB LUCIP (Revision 1) Submitted WADB FSP (Revision 1) 	<ul style="list-style-type: none"> Submit WADB PCR (Revision 0)

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

RCRA/CERCLA Units or SEAs	FY2019 Work Planned	FY2019 Work Accomplished (Appendix D Milestones)	FY2019 Work Accomplished (Other)	FY2020 Work Planned
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
Upper Three Runs IOU	<ul style="list-style-type: none"> Initiate Fifth Phase II Field Start 	<ul style="list-style-type: none"> Initiated Phase II Field Start 		

¹ FFA Appendix C.5 lists the Units and D&D 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 (CERCLA) 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 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 long-term protective 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. Additional slit trench disposal units and waste tanks will be added as interim remedies are implemented.

The FY2019 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 [HWCTR] [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 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
D-Area OU Early Action (consisting of D-Area Asbestos Pit [080-20G] and D-Area Coal Pile Runoff Basin [489-D] [Northern 25%])	69, 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-OR], 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, and HTF 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. However, the LUC remedial action will be implemented in FY2020.

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*.

Signature:  _____ Date: 11/14/2019
Michael D. Budney
Savannah River Site Manager

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