



Department of Energy
Savannah River Operations Office
P.O. Box A
Aiken, South Carolina 29802

JAN 15 2020

Ms. Susan B. Fulmer, P. G., Manager
Federal Remediation Section
Division of Site Assessment, Remediation and Revitalization
Bureau of Land and Waste Management
South Carolina Department of Health and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

Mr. Jon Richards
Acting Savannah River Site Remedial Project Manager
Superfund Division
U. S. Environmental Protection Agency, Region 4
61 Forsyth Street, SW
Atlanta, Georgia 30303

Dear Ms. Fulmer and Mr. Richards:

SUBJECT: Federal Facility Agreement (FFA) Revision 0 Appendix E, Long-Term Projections for Fiscal Year (FY) 2020 (Print Date: 10/30/2019, Updated 01/08/2020) and Savannah River Site's Responses to the Regulatory Comments on the FFA Revision 0 Appendix E, Long-Term Projections for FY2020 (Print Date: 10/30/2019)

In accordance with the terms of Section XIX.C of the Federal Facility Agreement (FFA) for the Savannah River Site (SRS), the U.S. Department of Energy (DOE) is submitting the subject information for your review. The South Carolina Department of Health and Environmental Control (SCDHEC) provided comments on the Revision 0 Appendix E for Fiscal Year (FY) 2020 (Print Date: 10/30/2019) on December 20, 2019. The U.S. Environmental Protection Agency (EPA) approved the Revision 0 Appendix E for FY2020 on December 31, 2019.

Based on the SRS' responses to the SCDHEC's comments, the Field Start date for the Spill on 06/01/59 of <1 CI of Segregated Solvent from 211-F (NBN) (Final Action) was updated from September 2022 to September 2035 in Appendix E.3. This is the only change required based on the responses. The update to Appendix E.3 does not result in a change to any of the supporting information that was submitted with the Revision 0 Appendix E for FY2020 on November 15, 2019 (IACD-20-110).

As stated in the responses, DOE is currently developing a comprehensive evaluation for disposition of the remaining coal ash at SRS. As part of this evaluation, DOE is planning to have two meetings with SCDHEC and EPA during calendar year (CY) 2020. The dates and purposes of the meetings as well as the explanation for the three year delay in the milestones associated with the A-Area Ash Pile (788-A) and A-Area Coal Pile Runoff Basin (788-3A) Operable Unit are discussed in the response to Specific Comment #1.

Ms. Susan B. Fulmer
Mr. Jon Richards

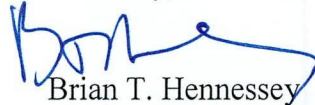
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JAN 15 2020

Please review the enclosures and provide your comments or approval within thirty (30) days of receipt. The effort and time that the EPA and SCDHEC have given on the subject appendix are greatly appreciated.

Questions from you or your staff may be directed to me at (803) 952-8365.

Sincerely,



Brian T. Hennessey
SRS Remedial Project Manager
Infrastructure and Area Completion Division

IACD-20-125

Enclosures:

1. Savannah River Site's Responses to the South Carolina Department of Health and Environmental Control's Comments on Federal Facility Agreement Revision 0 Appendix E, Long-Term Projections for Fiscal Year 2020 (Print Date: 10/30/2019)
2. Revision 0 Appendix E, Long-Term Projections for Fiscal Year 2020 (Print Date: 10/30/2019, Updated 01/08/2020)

cc w/o encl:

D. Scaturo, SCDHEC-Columbia
S. French, SCDHEC-Columbia
M. Reese, SCDHEC-Columbia
G. K. Taylor, SCDHEC-Columbia
T. R. Fuss, SCDHEC – Aiken Environmental Affairs Office
G. O'Quinn, SCDHEC – Aiken Environmental Affairs Office
B. Cameron, SCDHEC – Aiken Environmental Affairs Office
R. H. Pope, EPA - Atlanta

cc w/encl:

D. Lloyd, EPA – Atlanta
J. Tufts, EPA – Atlanta
C. VanTrees, EPA – Atlanta

**Savannah River Site's Responses to the
South Carolina Department of Health & Environmental Control Comment on:
Federal Facility Agreement Revision 0 Appendix E, Long-Term Projections for Fiscal Year 2020
(Print Date: 10/30/2019) dated November 15, 2019 and received November 19, 2019.**

Page 1 of 2

Comments Received: December 20, 2019

General Comments

1. The schedule outlined in Appendix E contains a completion date of 2065 due to continuing missions at the Savannah River Site (SRS); however, the latter years of the schedule continue to contain a significant volume of work to be completed to meet this commitment. The Department is concerned that extending the Area Completion activities out jeopardizes the goals established in the Comprehensive Cleanup Plan and Letter of Support, as well as the overall accelerated cleanup vision for the SRS. The extremely heavy ramping up of work scheduled for the end of the SRS lifecycle may not be achievable from a budget or personnel perspective.

Response: In an effort to continue protection of human health and the environment, the U.S. Department of Energy (DOE) will continue to evaluate early execution of cleanup work. DOE wants to keep the efficiencies that have been gained through the Area Completion approach. Therefore, smaller projects that can be potentially performed ahead of final area completion will be identified for discussion with the U.S. Environmental Protection Agency (EPA) and the South Carolina Department of Health and Environmental Control (SCDHEC).

Specific Comments

1. In the cover letter, it is stated that DOE plans to delay milestones associated with the A-Area Ash Pile (788-A) and A-Area Coal Pile Runoff Basin (788-3A) for three years. During this time, DOE plans to consider, evaluate, and discuss ash disposal options with EPA and SCDHEC. A detailed reason should be provided as to why these actions will take three years, including a proposed timeline for discussions with SCDHEC and EPA.

Response: The DOE is currently developing a comprehensive evaluation for disposition of the remaining coal ash at Savannah River Site (SRS). As part of this evaluation, DOE is planning to have two meetings with SCDHEC and EPA during calendar year (CY) 2020. During the first meeting, tentatively planned for July 2020, the preliminary range of alternatives for ash disposition will be discussed and agreed upon by the Core Team. At the second meeting, tentatively planned for October 2020 to December 2020 timeframe and preceded by the submittal of a scoping summary, SRS will present the preliminary results of the evaluation to the Core Team for discussion with the objective of reaching agreement on the path forward for ash disposition. The SRS expects that the evaluation of alternatives will take until early CY2021, and it is estimated that it will take about three years for the consensus approach to be incorporated into the A-Area Ash Pile (788-A) and A-Area Coal Pile

**Savannah River Site's Responses to the
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Page 2 of 2

Comments Received: December 20, 2019

Runoff Basin (788-3A) Operable Unit (OU) decision documents and budgeted for execution, but after the two meetings in CY2020, the Core Team can discuss changes to the proposed schedule for the OU in light of the preferred remediation strategy.

2. Appendix E.3, F-Area Operable Unit, page E.3-6. The subunit, Spill on 06/01/59 of <1 CI of Segregated Solvent from 211-F (NBN) (Final Action), has a Field Start of September 2022. As this unit is not part of the Early Action for the F-Area Operable Unit, the date should be changed to September 2035.

Response: Agree. The Revision 0 Appendix E.3 will be updated to change the Field Start for the Spill on 06/01/59 of <1 CI of Segregated Solvent from 211-F (NBN) (Final Action) to September 2035.

Revision 0 Appendix E: Fiscal Year 2020 Long-Term Projections
E.3: Field Start, ROD Issuance and RA Start Dates (including Fiscal Year 2023+)
Sorted in order of Watershed, Category, and Unit Name

Watershed

**Category (Integrator Operable Unit, Units and D&D Facilities (or Remnants)
Assigned to an Area Operable Unit, RCRA/CERCLA Units or FFA Facility Closures,
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**Area Operable Unit or Integrator Operable Unit Name
Unit Name**

**Site
Evaluation
Report
Submittal
Date
or
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or
Tank Dates**

Fourmile Branch Watershed

High Level Radioactive Waste Tanks

Complete Operational Closure of FDB-5 and FDB-6 Diversion Boxes

DEC 2022

SRS Index Number(s): 283 580 1307 1308
SEMS Number(s): 23

Integrator Operable Unit

Fourmile Branch Integrator Operable Unit (Including the Un-Named Tributary of Fourmile Branch
South of C Area [NBN])

AUG 2001 SEP 2064 JAN 2065

Phase III Field Start

MAY 2059

Periodic Report on the Bioassessment of Savannah River Site Streams¹²
Periodic Report on the Bioassessment of Savannah River Site Streams¹²
Periodic Report on the Bioassessment of Savannah River Site Streams¹²
Periodic Report on the Bioassessment of Savannah River Site Streams¹²
Periodic Report on the Bioassessment of Savannah River Site Streams¹²

SEP 2025
SEP 2032
SEP 2039
SEP 2046
SEP 2053

SRS Index Number(s): 504
SEMS Number(s): 84

RCRA/CERCLA Units

C-Area Groundwater Operable Unit (NBN) (including Building 108-3C, Fuel Unloading
Facilities Power - Area Supv ¹)

MAR 2002 APR 2027 JUL 2028

SRS Index Number(s): 146 2237
SEMS Number(s): 82

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**Area Operable Unit or Integrator Operable Unit Name
Unit Name**

Central Shops Groundwater Operable Unit (NBN)

DEC 2058 MAR 2062 JUN 2063

SRS Index Number(s): 567
SEMS Number(s): 98

ECODS N-1 (South of N Area) (NBN), Central Shops Scrap Lumber Pile (631-2G), and
Building 690-N, Process Heat Exchanger Repair Facility (aka Ford Building) ¹ Operable Unit

SEP 2020 DEC 2023 DEC 2024

SRS Index Number(s): 525 244 1828
SEMS Number(s): 93

Sandblast Area CMH-002 (NBN) and Spill on 02/01/57 of Unknown of Seepage Basin Pipe
Leak from 904-44G (NBN) Operable Unit

SEP 2024 SEP 2027 DEC 2028

SRS Index Number(s): 346 225
SEMS Number(s): 61

Site Evaluation Areas

H-Area Ash Basin (288-H)

DEC 2034

SRS Index Number(s): 292
SEMS Number(s): NA

Units and D&D Facilities (or Remnants) Assigned to an Area Operable Unit

C Area Operable Unit ^{6,9}
SRS Index Number: 577
SEMS Number: 79

SEP 2011 AUG 2044 NOV 2045

Building 106-C, Process Water Storage Tank¹

SRS Index Number(s): 2232
SEMS Number(s): 79

Building 107-C, Cooling Water Effluent Sump¹

SRS Index Number(s): 1178
SEMS Number(s): 79

Building 109-C, Storage Basin¹

SRS Index Number(s): 2233
SEMS Number(s): 79

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**Area Operable Unit or Integrator Operable Unit Name
Unit Name**

Building 710-C, Pre-Manufactured Metal Shelter

SRS Index Number(s): 2256
SEMS Number(s): 79

Building 717-C, Contaminated Maintenance Facility

SRS Index Number(s): 1201
SEMS Number(s): 79

Building 904-89G, Retention Basin for 100-C Containment¹

SRS Index Number(s): 2240
SEMS Number(s): 79

C Area Operable Unit Final Action

AUG 2044 NOV 2045

SRS Index Number(s): 577
SEMS Number(s): 79

C-Area Process Sewer Lines as Abandoned (NBN)

SRS Index Number(s): 555
SEMS Number(s): 79

C-Area Reactor Area Cask Car Railroad Tracks as Abandoned (NBN)

SRS Index Number(s): 475
SEMS Number(s): 79

C-Area Reactor Discharge Canal (NBN)

SEP 2011 AUG 2044 NOV 2045

SRS Index Number(s): 511
SEMS Number(s): 79

Containment Tank C803-7-1 (NBN)

SRS Index Number(s): 2255
SEMS Number(s): 79

ECODS C-1 (Near C-Area Reactor Discharge Canal) (NBN)

SRS Index Number(s): 522
SEMS Number(s): 79

Potential Release from C-Area Disassembly Basin (NBN)

SRS Index Number(s): 240
SEMS Number(s): 79

Potential Release from C-Area Reactor Cooling Water System (186/190-C)

SRS Index Number(s): 242
SEMS Number(s): 79

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F Area Operable Unit ⁷ SRS Index Number: 579 SEMS Number: 88	SEP 2035	SEP 2039	DEC 2040
Building 211-2F, Control and Check House (Early Action) SRS Index Number(s): 1275 SEMS Number(s): 88	SEP 2022	OCT 2026	JAN 2028
Building 211-3F, Waste Truck Unloading Station (Early Action) SRS Index Number(s): 1276 SEMS Number(s): 88	SEP 2022	OCT 2026	JAN 2028
Building 211-7F, Chemical Handling Facility (Early Action) SRS Index Number(s): 1277 SEMS Number(s): 88	SEP 2022	OCT 2026	JAN 2028
Building 211-F, Outside Facilities (Including the 805 and 820 Tank Cells) (Early Action) SRS Index Number(s): 1279 SEMS Number(s): 88	SEP 2022	OCT 2026	JAN 2028
Building 222-F, Cold Feed Preparation Area (Early Action) SRS Index Number(s): 1293 SEMS Number(s): 88	SEP 2022	OCT 2026	JAN 2028
Building 246-F, Equipment Test Facility (Early Action) SRS Index Number(s): 1352 SEMS Number(s): 88	SEP 2022	OCT 2026	JAN 2028
Building 247-7F, EC Process Building (Early Action) SRS Index Number(s): 1355 SEMS Number(s): 88	SEP 2022	OCT 2026	JAN 2028
Building 247-8F, Compressed Gas Storage Building (Early Action) SRS Index Number(s): 1356 SEMS Number(s): 88	SEP 2022	OCT 2026	JAN 2028
Building 247-F, Manufacturing Building (Early Action) SRS Index Number(s): 1357 SEMS Number(s): 88	SEP 2022	OCT 2026	JAN 2028
Building 647-G, Warehouse (Early Action) SRS Index Number(s): 1480 SEMS Number(s): 88	SEP 2022	OCT 2026	JAN 2028

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Building 707-2F, Regulated Shops (Early Action)

SEP 2022 OCT 2026 JAN 2028

SRS Index Number(s): 1412
SEMS Number(s): 88

Building 723-F, Laundry Facility (Early Action)

SEP 2022 OCT 2026 JAN 2028

SRS Index Number(s): 1425
SEMS Number(s): 88

Building 728-F, Uranium Oxide Storage Building (Early Action)

SEP 2022 OCT 2026 JAN 2028

SRS Index Number(s): 1426
SEMS Number(s): 88

Building 730-F, Uranium Oxide Storage Building (Early Action)

SEP 2022 OCT 2026 JAN 2028

SRS Index Number(s): 1428
SEMS Number(s): 88

Combined Spills from 221-F (NBN) (Final Action)

SEP 2035 SEP 2039 DEC 2040

SRS Index Number(s): 485
SEMS Number(s): 88

F-Area Inactive Process Sewer Lines from Building to the Security Fence (081-1F) (Final Action)

SEP 2035 SEP 2039 DEC 2040

SRS Index Number(s): 141
SEMS Number(s): 88

F-Area Process Sewer Lines as Abandoned (NBN) (Final Action)

SEP 2035 SEP 2039 DEC 2040

SRS Index Number(s): 563
SEMS Number(s): 88

Low Level Radioactive Drain Lines from F-Area Laboratory and
F-Area Laboratory High Activity Tanks C and D (772-F and -1F) (Final Action)

SEP 2035 SEP 2039 DEC 2040

SRS Index Number(s): 308
SEMS Number(s): 88

Sandblast Area CMF-001 (NBN) (Final Action)

SEP 2035 SEP 2039 DEC 2040

SRS Index Number(s): 343
SEMS Number(s): 88

Spill on 02/25/85 of 20000 CM of Water Vapor - Rad (NBN) (Final Action)

SEP 2035 SEP 2039 DEC 2040

SRS Index Number(s): 394
SEMS Number(s): 88

Spill on 04/24/91 of .11 Ci of Pu-239 (NBN) and Spill on 05/26/88 of 10 Gallons of Ethylene
Glycol-Rad from F-Area Laboratory (NBN) (Final Action)

SEP 2035 SEP 2039 DEC 2040

SRS Index Number(s): 414 429
SEMS Number(s): 88

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Tank Dates**

Spill on 06/01/59 of <1 CI of Segregated Solvent from 211-F (NBN) (Final Action)

SEP 2035

SEP 2039

DEC 2040

SRS Index Number(s): 435

SEMS Number(s): 88

F Tank Farm Area Operable Unit

SRS Index Number: 580

SEMS Number: 23

FEB 2036

JAN 2040

APR 2041

F-Area Retention Basin (281-8F)

FEB 2036

JAN 2040

APR 2041

SRS Index Number(s): 280

SEMS Number(s): 23

F-Area Tank Farm, 241-F (including Combined Spills from 242-F, NBN; Spill on 10/01/71 of 100 ft² of Flush Water-Rad, NBN; Spill on 06/26/75 of 250 ft³ of Rad Contaminated Soil, NBN; F-Area Tank Farm, 241-F [F-Area Tank Farm Groundwater Operable Unit; Spill on 05/01/57 of 125 ft² of Rad Liquid from Solvent Trailer (WMF-008) (formerly Index No. 200); Flush of Feed Pump to 242-F Spill Water in the Ground, 04/01/66 (WMF-017); Tank 19 Contaminated Area (WMF-001 & -002); 242-F Contaminated Area (WMF-003); Tank 7 Contaminated Area (WMF-004); Tank 8 Contaminated Area (WMF-005)]; Spill on 01/19/83 of 1000 ft² of Radioactive Spill, NBN; Spill on 04/14/81 of 3 gal of Contaminated Flush Water-Rad, NBN; Spill on 05/30/78 of Unknown of Sump Overflow, NBN; Spill on 10/16/81 of 30 gal of Low Level Waste from Trailer, NBN; Spill on 06/06/79 of <1 gal of Contaminated Liquid, NBN; Spill on 03/01/66 of 500 ft² of Flush Water-Rad, NBN; Spill on 04/57 of Rad Liquid from Solvent Trailer, NBN; Spill on 05/28/81 of 9000 gal Chromated Water, NBN)

FEB 2036

JAN 2040

APR 2041

SRS Index Number(s): 263 283 376 381 399 431

SEMS Number(s): 23

H Area Operable Unit

SRS Index Number: 581

SEMS Number: 61

SEP 2037

JAN 2042

APR 2043

Building 230-H, Demonstration Waste Incinerator (Beta-Gamma Incinerator)

SEP 2037

JAN 2042

APR 2043

SRS Index Number(s): 1555

SEMS Number(s): 61

Building 261-H, Consolidated Incineration Facility (CIF) (Hazardous Waste Incinerator)

SEP 2037

JAN 2042

APR 2043

SRS Index Number(s): 1666

SEMS Number(s): 61

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Tank Dates**

Building 782-1H, Pump House ¹ SRS Index Number(s): 1727 SEMS Number(s): 61	SEP 2037	JAN 2042	APR 2043
Combined Spills from 211-H (NBN) SRS Index Number(s): 260 SEMS Number(s): 61	SEP 2037	JAN 2042	APR 2043
Combined Spills from 241-84H (NBN) SRS Index Number(s): 261 SEMS Number(s): 61	SEP 2037	JAN 2042	APR 2043
Combined Spills from H-Canyon (NBN) SRS Index Number(s): 512 SEMS Number(s): 61	SEP 2037	JAN 2042	APR 2043
Ditch to Outfall H-012 (Tributary to Fourmile Creek) (NBN) SRS Index Number(s): 274 SEMS Number(s): 61	SEP 2037	JAN 2042	APR 2043
ECODS H-1 (West of H-Area Facilities) (NBN) SRS Index Number(s): 531 SEMS Number(s): 61	SEP 2037	JAN 2042	APR 2043
H-Area Coal Pile Runoff Basin (289-H) SRS Index Number(s): 79 SEMS Number(s): 61	SEP 2037	JAN 2042	APR 2043
H-Area Inactive Process Sewer Lines from Building to Manhole P-44 (081-H) SRS Index Number(s): 142 SEMS Number(s): 61	SEP 2037	JAN 2042	APR 2043
H-Area Process Sewer Lines as Abandoned (NBN) SRS Index Number(s): 591 SEMS Number(s): 61	SEP 2037	JAN 2042	APR 2043
H-Area Retention Basins and H-Area Retention Basin (Including the Former 281-7H Basin), (281-1H, -2H and -8H) SRS Index Number(s): 294 295 293 SEMS Number(s): 61	SEP 2037	JAN 2042	APR 2043
Sandblast Area CMH-001 (NBN) SRS Index Number(s): 344 SEMS Number(s): 61	SEP 2037	JAN 2042	APR 2043

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Tank Dates**

Spill on 01/12/87 of <100 Gm of Mercury North of 211-H (NBN)

SEP 2037 JAN 2042 APR 2043

SRS Index Number(s): 374
SEMS Number(s): 61

Spill on 02/01/83 of 50 Gal of Oil - Rad (NBN)

SEP 2037 JAN 2042 APR 2043

SRS Index Number(s): 391
SEMS Number(s): 61

Spill on 10/07/85 of 20,000 Gallons of Contaminated Water from 244-H (NBN)

SEP 2037 JAN 2042 APR 2043

SRS Index Number(s): 332
SEMS Number(s): 61

H Tank Farm Area Operable Unit

AUG 2039 FEB 2045 MAY 2046

SRS Index Number: 582
SEMS Number: 89

H-Area Tank Farm, 241-H (including H-Area Tank Farm, 241-H [H Tank Farm Groundwater Operable Unit; Tank 37 Steam Line Contamination Area, Tank 37 to HDB-6 Capped Transfer Line, Concentrate Transfer System Contamination Area, 242-H Evaporator Contamination Area, Rock Bank Contamination Area, Diversion Box 5 Contamination Area, Tanks 9-12 Contamination Area, Tanks 13-16 Contamination Area, Pump Pits 5 and 6 Contamination Area]; Combined Spills from 241-H, NBN [Spill on 12/29/83 Piping Leak Top of Tank 13, Spill on 09/13/91 of Chromated Water from Underground Line, Spill on 01/06/81 of 10 gal Water from Cesium Removal Column]; Combined Spills from 242-H, NBN [Spill on 06/14/82 of 600 -800 gal from Evaporator, Spill on 07/14/82 of 600-800 gal from Evaporator Overhead, Spill from Tank 13 Leak Detection Box, Spill on 02/01/69 of Unknown Waste Tank Spill]; Diversion Box Rad from 907-1H, NBN; Spill on 01/19/80 of Unknown of Chromated Water from H-Area Pump House, NBN; Spill on 11/10/81 of 500 gal Chromated Water from 243-H, NBN; Spill on 04/18/80 of Unknown of Chromated Water from Valve House 3, NBN; Spill on 03/28/87 of <15,000 gal Chromated Water from 241-24H, NBN; Spill on 05/02/85 of 10 gal of Cooling Water from Tank Farm, NBN)

AUG 2039 FEB 2045 MAY 2046

SRS Index Number(s): 298 262 264 275 375 403
SEMS Number(s): 89

N Area Operable Unit ⁷

DEC 2033 MAR 2061 JUN 2062

SRS Index Number: 586
SEMS Number: 93

Building 711-3N, Pipe Warehouse

DEC 2033 MAR 2037 JUN 2038

SRS Index Number(s): 1850
SEMS Number(s): 93

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or
Tank Dates**

Building 714-6N, Miscellaneous Storage (SYLCOR)

DEC 2033 MAR 2037 JUN 2038

SRS Index Number(s): 1861
SEMS Number(s): 93

Building 717-11N, Electrical Lineman's Office/Warehouse

DEC 2033 MAR 2037 JUN 2038

SRS Index Number(s): 1869
SEMS Number(s): 93

Building 717-12N, Construction Sort Building

DEC 2033 MAR 2037 JUN 2038

SRS Index Number(s): 1870
SEMS Number(s): 93

Engineered Drainage Ditch Northeast of the Heavy Equipment Maintenance Area (NBN)

DEC 2033 MAR 2037 JUN 2038

SRS Index Number(s): 574
SEMS Number(s): 93

Heavy Equipment Maintenance Area Miscellaneous Units (Consisting of Heavy Equipment Wash Areas #1, #2, and #3, Pickling Building, Drum Storage Area, Spray Irrigation Field, Outfall N-01, and Outfall N-02) (NBN)

DEC 2033 MAR 2037 JUN 2038

SRS Index Number(s): 573
SEMS Number(s): 93

N-Area Operable Unit Final Action

MAR 2061 JUN 2062

SRS Index Number(s): 586
SEMS Number(s): 93

N-Area Process Sewer Lines as Abandoned (NBN)

DEC 2033 MAR 2037 JUN 2038

SRS Index Number(s): 565
SEMS Number(s): 93

New Salvage Yard (741-G)

DEC 2033 MAR 2037 JUN 2038

SRS Index Number(s): 311
SEMS Number(s): 93

Sandblast Area CMN-001 (NBN)

DEC 2033 MAR 2037 JUN 2038

SRS Index Number(s): 354
SEMS Number(s): 93

Revision 0 Appendix E: Fiscal Year 2020 Long-Term Projections
E.3: Field Start, ROD Issuance and RA Start Dates (including Fiscal Year 2023+)
Sorted in order of Watershed, Category, and Unit Name

Watershed

**Category (Integrator Operable Unit, Units and D&D Facilities (or Remnants)
Assigned to an Area Operable Unit, RCRA/CERCLA Units or FFA Facility Closures,
or Site Evaluation Areas)**

**Area Operable Unit or Integrator Operable Unit Name
Unit Name**

**Site
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Issuance** **RA Start
or
Tank Dates**

Lower Three Runs Watershed

Integrator Operable Unit

Lower Three Runs Integrator Operable Unit

MAR 2003 JUN 2021 SEP 2022

PAR Pond (685-G) (Including the Pre-Cooler Ponds and Canals) (NBN), P-Area Reactor
Discharge Canal to PAR Pond (Including Pre-Cooler Ponds) (NBN), and Old R-Area Discharge
Canal (NBN) (also known as Joyce Branch)

SRS Index Number(s): 505 110 312

SEMS Number(s): 35

Revision 0 Appendix E: Fiscal Year 2020 Long-Term Projections
E.3: Field Start, ROD Issuance and RA Start Dates (including Fiscal Year 2023+)
Sorted in order of Watershed, Category, and Unit Name

Watershed	Site Evaluation Report Submittal Date or Field Start	ROD Issuance	RA Start or Tank Dates
Category (Integrator Operable Unit, Units and D&D Facilities (or Remnants) Assigned to an Area Operable Unit, RCRA/CERCLA Units or FFA Facility Closures, or Site Evaluation Areas)			
Area Operable Unit or Integrator Operable Unit Name Unit Name			
Pen Branch Watershed			
Integrator Operable Unit			
Pen Branch Integrator Operable Unit (Including Indian Grave Branch [NBN]) ¹²	OCT 2002	SEP 2049	DEC 2049
Phase III Field Start	JUN 2043		
K-Area Reactor Discharge Canal (NBN)			
SRS Index Number(s): 506 460			
SEMS Number(s): 74			
RCRA/CERCLA Units			
K-Area Ash Basin Operable Unit (188-0K)	SEP 2024	SEP 2027	DEC 2028
SRS Index Number(s): 300			
SEMS Number(s): 90			
K-Area Groundwater Operable Unit (Including K-Area Tritium Anomaly) (NBN)	SEP 2042	MAR 2048	JUN 2049
SRS Index Number(s): 519			
SEMS Number(s): 99			
Units and D&D Facilities (or Remnants) Assigned to an Area Operable Unit			
K Area Operable Unit ⁷	SEP 2034	SEP 2047	DEC 2048
SRS Index Number: 583			
SEMS Number: 90			
Building 901-1K, Polyphosphate Unloading and Storage Facility	SEP 2034	OCT 2039	JAN 2041
SRS Index Number(s): 1762			
SEMS Number(s): 90			
Combined Spills from K-Area Complex, 106-K and 109-K (NBN)	SEP 2034	OCT 2039	JAN 2041
SRS Index Number(s): 514			
SEMS Number(s): 90			

Revision 0 Appendix E: Fiscal Year 2020 Long-Term Projections
E.3: Field Start, ROD Issuance and RA Start Dates (including Fiscal Year 2023+)
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Watershed

**Category (Integrator Operable Unit, Units and D&D Facilities (or Remnants)
Assigned to an Area Operable Unit, RCRA/CERCLA Units or FFA Facility Closures,
or Site Evaluation Areas)**

**Area Operable Unit or Integrator Operable Unit Name
Unit Name**

**Site
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Issuance** **RA Start
or
Tank Dates**

K-Area Operable Unit Final Action SRS Index Number(s): 583 SEMS Number(s): 90		SEP 2047	DEC 2048
K-Area Process Sewer Lines as Abandoned (NBN) SRS Index Number(s): 572 SEMS Number(s): 90	SEP 2034	OCT 2039	JAN 2041
K-Area Reactor Area Cask Car Railroad Tracks as Abandoned (NBN) SRS Index Number(s): 476 SEMS Number(s): 90	SEP 2034	OCT 2039	JAN 2041
Potential Release from K-Area Disassembly Basin (NBN) SRS Index Number(s): 301 SEMS Number(s): 90	SEP 2034	OCT 2039	JAN 2041
Potential Release from K-Area Reactor Cooling Water System (186/190-K) SRS Index Number(s): 302 SEMS Number(s): 90	SEP 2034	OCT 2039	JAN 2041

Revision 0 Appendix E: Fiscal Year 2020 Long-Term Projections
E.3: Field Start, ROD Issuance and RA Start Dates (including Fiscal Year 2023+)
Sorted in order of Watershed, Category, and Unit Name

Watershed	Site Evaluation Report Submittal Date or Field Start	ROD Issuance	RA Start or Tank Dates
Category (Integrator Operable Unit, Units and D&D Facilities (or Remnants) Assigned to an Area Operable Unit, RCRA/CERCLA Units or FFA Facility Closures, or Site Evaluation Areas)			
Area Operable Unit or Integrator Operable Unit Name Unit Name			
Savannah River Floodplain Swamp Watershed			
Integrator Operable Unit			
Savannah River and Floodplain Swamp Integrator Operable Unit (Including Beaver Dam Creek [NBN], D-Area Effluent Discharge Canal [NBN], and Ash Area Adjacent to and Easterly of D-Area Ash Basins 488-1D and 488-2D [NBN]) ^{10, 12}	MAY 2001	JUN 2064	SEP 2065
Phase III Field Start	DEC 2059		
D-Area Ash Basin Wetlands (NBN) and D-006 Petroleum Release Site (NBN)			
SRS Index Number(s): 508 569 570			
SEMS Number(s): 69			
RCRA/CERCLA Units			
D-Area Groundwater Operable Unit (D-Area Upgradient Sources) (NBN) ¹¹	JUN 2020	JUN 2023	SEP 2024
SRS Index Number(s): 520			
SEMS Number(s): 63			
Units and D&D Facilities (or Remnants) Assigned to an Area Operable Unit			
D Area Operable Unit ^{3, 8}	SEP 2008	JAN 2046	APR 2047
SRS Index Number: 578			
SEMS Number: 63			
Building 420-2D, Rework Handling Facility			
SRS Index Number(s): 1212			
SEMS Number(s): 63			
Building 420-D, Concentrator Building			
SRS Index Number(s): 1214			
SEMS Number(s): 63			

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E.3: Field Start, ROD Issuance and RA Start Dates (including Fiscal Year 2023+)
Sorted in order of Watershed, Category, and Unit Name

Watershed

**Category (Integrator Operable Unit, Units and D&D Facilities (or Remnants)
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**Area Operable Unit or Integrator Operable Unit Name
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**ROD
Issuance**

**RA Start
or
Tank Dates**

Building 421-2D, Moderator Handling and Storage

SRS Index Number(s): 1215
SEMS Number(s): 63

Building 421-D, Finishing Building

SRS Index Number(s): 1218
SEMS Number(s): 63

Building 772-D, Control Laboratory and Supervisor's Office

SRS Index Number(s): 1250
SEMS Number(s): 63

Combined Spills from 483-D and Associated Areas (NBN)

SEP 2008 JAN 2046 APR 2047

SRS Index Number(s): 265
SEMS Number(s): 63

D-Area Asbestos Pit (080-20G)

SRS Index Number(s): 211
SEMS Number(s): 63

D-Area Ash Basin (488-1D) ²

NOV 2020 SEP 2021

SRS Index Number(s): 238
SEMS Number(s): 63

D-Area Ash Basin (488-2D) ²

NOV 2020 SEP 2021

SRS Index Number(s): 272
SEMS Number(s): 63

D-Area Ash Landfill (488-4D) ²

NOV 2020 SEP 2021

SRS Index Number(s): 548
SEMS Number(s): 63

D-Area Coal Pile Runoff Basin (489-D) ²

SEP 2008 NOV 2020 SEP 2021

SRS Index Number(s): 69
SEMS Number(s): 63

D-Area Operable Unit Final Action

JAN 2046 APR 2047

SRS Index Number(s): 578
SEMS Number(s): 63

D-Area Process Sewer Lines as Abandoned (NBN)

SEP 2008 JAN 2046 APR 2047

SRS Index Number(s): 558
SEMS Number(s): 63

D-Area Waste Oil Facility (484-10D) ⁴

SEP 2008 JAN 2046 APR 2047

SRS Index Number(s): 70
SEMS Number(s): 63

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E.3: Field Start, ROD Issuance and RA Start Dates (including Fiscal Year 2023+)
Sorted in order of Watershed, Category, and Unit Name

Watershed

**Category (Integrator Operable Unit, Units and D&D Facilities (or Remnants)
Assigned to an Area Operable Unit, RCRA/CERCLA Units or FFA Facility Closures,
or Site Evaluation Areas)**

**Area Operable Unit or Integrator Operable Unit Name
Unit Name**

**Site
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or
Tank Dates**

Steel Creek Watershed

Integrator Operable Unit

Steel Creek Integrator Operable Unit (Including Wetland Area at Dunbarton Bay [NBN], L Lake [NBN] and L-Area Reactor Discharge Canal [NBN])¹² SEP 2000 AUG 2064 DEC 2064

Phase III Field Start FEB 2059

Wetland Area at Dunbarton Bay (NBN)¹³

P-Area Reactor Discharge Canal (NBN)

SRS Index Number(s): 509 462

SEMS Number(s): 71

RCRA/CERCLA Units

ECODS L-3 (East of L Area) (NBN), L-Area Rubble Pit (131-1L), and L-Area Rubble Pit (131-4L) Operable Unit SEP 2022 AUG 2025 NOV 2026

SRS Index Number(s): 537 98 99

SEMS Number(s): 91

L-Area Ash Basin (188-0L) Operable Unit SEP 2025 AUG 2028 NOV 2029

SRS Index Number(s): 148

SEMS Number(s): 91

P-Area Groundwater Operable Unit (NBN) DEC 2013 MAY 2031 JUL 2032

SRS Index Number(s): 143

SEMS Number(s): 81

Site Evaluation Areas

Revision 0 Appendix E: Fiscal Year 2020 Long-Term Projections
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Sorted in order of Watershed, Category, and Unit Name

Watershed

**Category (Integrator Operable Unit, Units and D&D Facilities (or Remnants)
Assigned to an Area Operable Unit, RCRA/CERCLA Units or FFA Facility Closures,
or Site Evaluation Areas)**

**Area Operable Unit or Integrator Operable Unit Name
Unit Name**

**Site
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or
Tank Dates**

Dunbarton Railroad Yard (NBN)

DEC 2035

SRS Index Number(s): 546
SEMS Number(s): NA

Units and D&D Facilities (or Remnants) Assigned to an Area Operable Unit

L Area Operable Unit⁷

SEP 2034 JUL 2063 OCT 2064

SRS Index Number: 584
SEMS Number: 91

Building 108-4L, Emergency Diesel Generator and Fuel Oil Storage¹

SEP 2034 OCT 2040 JAN 2042

SRS Index Number(s): 1770
SEMS Number(s): 91

L-Area Operable Unit Final Action

JUL 2063 OCT 2064

SRS Index Number(s): 584
SEMS Number(s): 91

L-Area Process Sewer Lines as Abandoned (NBN)

SEP 2034 OCT 2040 JAN 2042

SRS Index Number(s): 560
SEMS Number(s): 91

L-Area Reactor Area Cask Car Railroad Tracks as Abandoned (NBN)

SEP 2034 OCT 2040 JAN 2042

SRS Index Number(s): 479
SEMS Number(s): 91

Potential Release from L-Area Disassembly Basin (NBN)

SEP 2034 OCT 2040 JAN 2042

SRS Index Number(s): 303
SEMS Number(s): 91

Potential Release from L-Area Reactor Cooling Water System (186/190-L)

SEP 2034 OCT 2040 JAN 2042

SRS Index Number(s): 305
SEMS Number(s): 91

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E.3: Field Start, ROD Issuance and RA Start Dates (including Fiscal Year 2023+)
Sorted in order of Watershed, Category, and Unit Name

Watershed	Site Evaluation Report Submittal Date or Field Start	ROD Issuance	RA Start or Tank Dates
Upper Three Runs Watershed			
E-Area Low Level Waste Facility			
E-Area Low-Level Waste Facility, 643-26E [including Low Level Radioactive Waste Disposal Facility (non-hazardous waste disposal portion of 643-7E) and Combined Spills from 643-G as reported in WSRC-RP-97-419] ⁵		MAR 2063	DEC 2063
SRS Index Number(s): 592 571 266			
SEMS Number(s): 86			
Integrator Operable Unit			
Upper Three Runs Integrator Operable Unit (Including Tims Branch [NBN]) ¹²	MAY 2003	SEP 2063	DEC 2063
Phase III Field Start	NOV 2057		
Steed Pond (NBN)			
SRS Index Number(s): 510 456			
SEMS Number(s): 70			
RCRA/CERCLA Units			
A-Area Ash Pile (788-0A) and A-Area Coal Pile Runoff Basin (788-3A) Operable Unit		NOV 2024	MAR 2026
SRS Index Number(s): 236 47			
SEMS Number(s): 62			
Building 716-A, Automotive Repair Facility and Building 725-A, Paint Shop Operable Unit	SEP 2024	SEP 2027	DEC 2028
SRS Index Number(s): 1035 1060			
SEMS Number(s): 62			

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Sorted in order of Watershed, Category, and Unit Name

Watershed

**Category (Integrator Operable Unit, Units and D&D Facilities (or Remnants)
Assigned to an Area Operable Unit, RCRA/CERCLA Units or FFA Facility Closures,
or Site Evaluation Areas)**

**Area Operable Unit or Integrator Operable Unit Name
Unit Name**

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Tank Dates**

General Separations Area Eastern Groundwater Operable Unit (NBN)

SEP 2001 FEB 2046 MAY 2047

SRS Index Number(s): 549
SEMS Number(s): 46

General Separations Area Western Groundwater Operable Unit (NBN)

SEP 2004 JAN 2043 APR 2044

SRS Index Number(s): 575
SEMS Number(s): 85

Stormwater Outfall A-013 (NBN) Operable Unit

NOV 2021 MAR 2023

SRS Index Number(s): 483
SEMS Number(s): 62

Site Evaluation Areas

Advanced Tactical Training Area (ATTA) Firing Ranges (NBN)

JAN 2025

SRS Index Number(s): 208
SEMS Number(s): NA

F-Area Ash Landfill (288-0F)

DEC 2024

SRS Index Number(s): 276
SEMS Number(s): NA

Units and D&D Facilities (or Remnants) Assigned to an Area Operable Unit

A Area Operable Unit ⁷

SEP 2035 MAY 2056 AUG 2057

SRS Index Number: 576
SEMS Number: 62

A-001 Outfall (NBN)

SEP 2035 OCT 2038 JAN 2040

SRS Index Number(s): 481
SEMS Number(s): 62

A-Area Operable Unit Final Action

MAY 2056 AUG 2057

SRS Index Number(s): 481
SEMS Number(s): 62

Revision 0 Appendix E: Fiscal Year 2020 Long-Term Projections
E.3: Field Start, ROD Issuance and RA Start Dates (including Fiscal Year 2023+)
Sorted in order of Watershed, Category, and Unit Name

Watershed

**Category (Integrator Operable Unit, Units and D&D Facilities (or Remnants)
Assigned to an Area Operable Unit, RCRA/CERCLA Units or FFA Facility Closures,
or Site Evaluation Areas)**

**Area Operable Unit or Integrator Operable Unit Name
Unit Name**

**Site
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or
Tank Dates**

A-Area Process Sewer Lines as Abandoned (NBN)

SEP 2035 OCT 2038 JAN 2040

SRS Index Number(s): 562
SEMS Number(s): 62

SRL 904-A Process Trench (includes Stormwater Outfall A-002), Spill on 12/01/1971 of 1000 Gallons of Rad Water from SRL, and SRL Mixed Waste Storage Tanks (904-A, NBN, and 776-A)

SEP 2035 OCT 2038 JAN 2040

SRS Index Number(s): 131 387
SEMS Number(s): 62

Stormwater Outfall A-024 (NBN)

SEP 2035 OCT 2038 JAN 2040

SRS Index Number(s): 458
SEMS Number(s): 62

Revision 0 Appendix E: Fiscal Year 2020 Long-Term Projections
E.3: Field Start, ROD Issuance and RA Start Dates (including Fiscal Year 2023+)
Sorted in order of Watershed, Category, and Unit Name

Watershed	Site Evaluation Report Submittal Date or Field Start	RA Start or Tank Dates
Category (Integrator Operable Unit, Units and D&D Facilities (or Remnants) Assigned to an Area Operable Unit, RCRA/CERCLA Units or FFA Facility Closures, or Site Evaluation Areas) Area Operable Unit or Integrator Operable Unit Name Unit Name		

Savannah River Site (SRS) Index Number is a unique identifier. This number is used by SRS for tracking and is not meant to imply a ranking or priority.
SEMS OU Number: The U. S. Environmental Protection Agency's (EPA's) Superfund Enterprise Management System database.

Watershed Designation: An Area Completion may extend into two Watersheds. The center location of the Area Completion grouping was used to determine in which Watershed the Area Completion is listed. The Watershed designation in Appendix E is not meant to represent the true geographical representation. Reference the Federal Facility Agreement (FFA) Appendix C, RCRA/CERCLA Units to determine the actual watershed in which a unit is located.

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

D&D: Deactivation and Decommissioning

ECODS: Early Construction and Operational Disposal Site

NBN: No Building Number

RA: Remedial Action

RCRA: Resource Conservation and Recovery Act

ROD: Record of Decision

¹ These facilities were not addressed per Facility Decommissioning Evaluation (FDE) protocols; however, these facilities will receive final disposition as remedial actions conducted as part of the ongoing area completion effort.

² The D-Area Ash Basin (488-1D), D-Area Ash Basin (488-2D), D-Area Ash Landfill (488-4D), and D-Area Coal Pile Runoff Basin (489-D) Record of Decision Issuance and Remedial Action Start dates are specific to those units only. These units will be covered under a Second Early Action ROD for the D-Area Operable Unit (DAOU).

³ The final remedial decision for Building 420-D, Concentrator Building, Building 421-D, Finishing Building, Building 772-D, Control Laboratory and Supervisor's Office, Building 421-2D, Moderator Handling and Storage, Building 420-2D, Rework Handling Facility, and D-Area Asbestos Pit (080-20G) was discussed in the DAOU Early Action ROD (SRNS-RP-2010-00162, Revision 1.2, July 2011). Therefore, bold text is used to indicate that these units have a final remedial decision.

⁴ This entry is for the environmental media associated with the 484-10D Facility.

⁵ This entry includes all Burial Ground Complex facilities that have not previously undergone remedial action/corrective action.

⁶ All of the C-Area Operable Unit (CAOU) subunits, except the C-Area Reactor Discharge Canal (NBN), will be remediated per the Early Action decision documents. The C-Area Reactor Discharge Canal (NBN) will be remediated as part of the CAOU Final Action decision documents. Please note that the C-Area Process Sewer Lines as Abandoned are defined as those pipelines and tanks/structures that are no longer in service. The remaining sewer systems, process lines, and structures that continue to service the C-Area Reactor Building (105-C) Complex will be closed as part of the final action for the CAOU.

⁷ The current milestone dates for the F-Area Operable Unit, N-Area Operable Unit, K-Area Operable Unit, L-Area Operable Unit, and A-Area Operable Unit will be Early Action decision dates. Final action decisions for these area operable units will be associated with the completion of D&D activities in these areas. The scope of the early and final actions be agreed upon by the U. S. Department of Energy (DOE), EPA, and South Carolina Department of Health and Environmental Control (SCDHEC).

⁸ The DAOU Final Action dates are based on the completion of D&D activities in D-Area. Any DAOU subunits not remediated under previous D-Area removal and/or early remedial actions will be part of the DAOU Final Action.

⁹ The final remedial decision for Building 106-C, Process Water Storage Tank, Building 107-C, Cooling Water Effluent Sump, Building 109-C, Storage Basin, Building 710-C, Pre-Manufactured Metal Shelter, Building 717-C, Contaminated Maintenance Facility, Building 904-89G, Retention Basin for 100-C Containment, C-Area Process Sewer Lines as Abandoned (NBN), C-Area Reactor Area Cask Car Railroad Tracks as Abandoned (NBN), Containment Tank C803-7-1 (NBN), ECODS C-1 (Near C-Area Reactor Discharge Canal) (NBN), Potential Release from C-Area Disassembly Basin (NBN), and Potential Release from C-Area Reactor Cooling Water System (186/190-C) was discussed in the CAOU Early Action ROD (SRNS-RP-2014-00836, Revision 1, May 2015). Therefore, bold text is used to indicate that these units have a final remedial decision.

¹⁰ A separate schedule for the D-Area Effluent Discharge Canal and Ash Area Adjacent to and Easterly of D-Area Ash Basins 488-1D and 488-2D may be developed by the Core Team pending the results of the D-Area Groundwater Operable Unit remedial investigation process.

¹¹ Removal actions will be performed at the D-Area Groundwater Operable Unit in accordance with the Suspension Agreement FFA High-Level Waste (HLW) Tank Milestones, dated November 2017 and subsequent updates.

¹² The *Periodic Report on the Bioassessment of Savannah River Site Streams* will be submitted every 7 years and will address all integrator operable units (IOUs) until the Phase III Field Start for the individual IOU. As applicable, the report will reflect the SRS Index Numbers and SEMS Numbers for the IOU discussed in the report. The Lower Three Runs will not be included in the reports since the Phase III Field Start has been achieved.

¹³ By Core Team agreement, the Wetland Area at Dunbarton Bay was divided into two phases: Phase I (North Ash Remediation Area and South Ash Remediation Area [SARA] Zone 1) and Phase 2 (SARA Zones 2, 3, 3a, and 4). Phase I remediation is complete. Phase 2 remediation will be addressed at a later date after completion of an evaluation of ash disposition alternatives.