Federal Facility Agreement
Appendix E

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Savannah River Site Citizens Advisory Board
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Purpose

- Provide information discussed in responses to Citizens Advisory Board Recommendation #279, Federal Facility Agreement (FFA) Update Provided Annually
  - Existing FY2014 Appendix E Update
  - Anticipated Effects to FY2015 Appendix E Submittal

- Meet Citizens Advisory Board Facilities Disposition and Site Remediation Committee 2014 Work Plan Commitment
Acronyms

- BRA – Baseline Risk Assessment
- CERCLA – Comprehensive Environmental Response, Compensation and Liability Act
- CPRB – Coal Pile Runoff Basin
- CMI/RAIP – Corrective Measures Implementation/Remedial Action Implementation Plan
- CMS/FS – Corrective Measures Study/Feasibility Study
- DOE – U. S. Department of Energy
- EM – Environmental Management
- EPA – U. S. Environmental Protection Agency
- FD & SR – Facilities Disposition and Site Remediation
- FFA – Federal Facility Agreement
- FY – Fiscal Year
- LUCIP – Land Use Control Implementation Plan
- RA – Remedial Action
- RCRA – Resource Conservation and Recovery Act
- RFI/RI – RCRA Facility Investigation/Remedial Investigation
- ROD – Record of Decision
- SB/PP – Statement of Basis/Proposed Plan
- SCDHEC – South Carolina Department of Health and Environmental Control
- SRS – Savannah River Site
Federal Facility Agreement (FFA)

- **Established August 1993**
  - A legally binding agreement among DOE, EPA, and SCDHEC
  - Includes administrative requirements, enforceable schedules, and milestones for actions and documents
  - Lists the RCRA/CERCLA “waste units” and other potential releases that must be addressed, and describes a process for any additional ones
  - Includes requirements for Removal from Service of some of the SRS Liquid Waste tanks
  - Spells out authorities and responsibilities of the three agencies, and procedures for resolving disputes
FFA Appendix E

- Provides a lifecycle list of cleanup milestones for SRS Waste Sites
  - Made up of Appendices E.1, E.2, and E.3
    - Appendix E.1 contains Enforceable Milestones for the next Fiscal Year (FY + 1)
    - Appendix E.2 contains Enforceable Milestones for FY + 2
    - Appendix E.3 contains Planning Milestones for FY + 3 and beyond

- DOE updates Appendix E annually and submits for review to SCDHEC and EPA in November. Due to government shutdown in October 2013, Appendix E for FY2014 was submitted in December.
• RFI/RI Work Plan
  • Plan used as the basis to determine the extent of contamination
• RFI/RI Report w/BRA
  • An assessment of the nature and extent of contamination and the associated health and environmental risks
• CMS/FS
  • Development and analysis of the range of cleanup alternatives for the unit
• SB/PP
  • Identifies a preferred remedial alternative for the unit and allows for public comment
    • 30 days CERCLA Only
    • 45 days for RCRA/CERCLA
• Record of Decision
  • The official report documenting the chosen remedy and why it was selected
• CMI/RAIP
  • Plan used to implement the selected remedy for the unit
RFI/RI = RCRA Facility Investigation/Remedial Investigation
BRA = Baseline Risk Assessment
CMS/FS = Corrective Measures Study/Feasibility Study
SB/PP = Statement of Basis/Proposed Plan
CMI/RAIP = Corrective Measures Implementation/Remedial Action Implementation Plan
LUCIP = Land Use Control Implementation Plan
RA = Remedial Action
FY 2014 Appendix E Major Changes

- The following changes were approved so that DOE could commit to the execution of the D-Area Ash Basin (488-1D, 488-2D), D-Area Ash Landfill (488-4D), and D-Area CPRB (489-D) projects (Total $79 M) between FY2014 and FY2020.
  - Consolidated Incineration Facility – Three year delay in regulatory documents and RA Start
  - Wetland Area at Dunbarton Bay – One year delay in regulatory documents and RA Start

- Individual operable units were separated from their respective area operable units in A, H, K, L, and N-Areas, so they can be cleaned up earlier (see next page).
  - These areas have continuing active missions; however, the individual operable units are located where they will not interfere with these missions.
  - Cleanup progress will continue.

- Shortly after the approval of Appendix E for FY2014, A-Area Ash Pile (788-A), A-Area Coal Pile Runoff Basin (788-3A) and Outfall A-013 (NBN) Interim Action milestones were extended. This also allowed more resources to be committed for the D-Area ash projects in the near term.
Separation of operable units to meet the EPA and SCDHEC expectations set forth in their approval of the FY 2013 Appendix E.

<table>
<thead>
<tr>
<th>Operable Unit</th>
<th>Dates**</th>
<th>Field Start</th>
<th>Issue ROD</th>
<th>RA Start</th>
</tr>
</thead>
<tbody>
<tr>
<td>N Area Operable Unit</td>
<td>Current</td>
<td>FY 2034 (12/31/2033)</td>
<td>FY 2037 (03/31/2037)</td>
<td>FY 2038 (6/30/2038)</td>
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<tr>
<td>• Central Shops Scrap Lumber Pile, 631-2G</td>
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<tr>
<td>• ECODS N-1, NBN</td>
<td>Proposed</td>
<td>FY 2020 (9/30/2020)</td>
<td>FY 2023 (9/30/2023)</td>
<td>FY 2025 (12/31/2024)</td>
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<tr>
<td>• Sandblast Area CMN-001, NBN</td>
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<tr>
<td>• Building 690-N, Process Heat Exchanger Repair Facility (Ford Building)*</td>
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<tr>
<td>L Area Operable Unit</td>
<td>Current</td>
<td>FY 2034 (9/30/2034)</td>
<td>FY 2041 (10/30/2041)</td>
<td>FY 2041 (1/31/2041)</td>
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<td>• ECODS L-3, NBN</td>
<td>Proposed</td>
<td>FY 2022 (9/30/2022)</td>
<td>FY 2025 (9/30/2025)</td>
<td>FY 2027 (12/31/2026)</td>
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<td>• L-Area Ash Basin, 188-L</td>
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<td>• L-Area Rubble Pit, 131-1L</td>
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<td>• L-Area Rubble Pit, 131-4L</td>
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<td>A Area Operable Unit</td>
<td>Current</td>
<td>FY 2035 (9/30/2035)</td>
<td>FY 2039 (10/30/2039)</td>
<td>FY 2039 (1/31/2039)</td>
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<tr>
<td>• Building 716-A, Automotive Repair Facility (Remnants)</td>
<td>Proposed</td>
<td>FY 2024 (9/30/2024)</td>
<td>FY 2027 (9/30/2027)</td>
<td>FY 2029 (12/31/2028)</td>
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<td>• Building 725-A, Paint Shop (Remnants)</td>
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<td>H Area Operable Unit</td>
<td>Current</td>
<td>FY 2034 (9/30/2034)</td>
<td>FY 2039 (9/30/2039)</td>
<td>FY 2040 (1/31/2040)</td>
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<tr>
<td>• Sandblast Area CMH-002, NBN</td>
<td>Proposed</td>
<td>FY 2024 (9/30/2024)</td>
<td>FY 2027 (9/30/2027)</td>
<td>FY 2029 (12/31/2028)</td>
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<td>• Spill on 02/01/57 of Unknown Seepage Basin Pipe Leak from 904-44G, NBN</td>
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<td>FY 2040 (1/31/2040)</td>
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<td>• K-Area Ash Basin, 188-K</td>
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<td>FY 2024 (9/30/2024)</td>
<td>FY 2027 (9/30/2027)</td>
<td>FY 2029 (12/31/2028)</td>
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</tbody>
</table>

* Currently listed in Appendix K.1. The proposal will include D&D of this facility under a remedial action.
** The Current Dates remain applicable to the respective Area Operable Units. The Proposed Dates are applicable to the units that are separated from their respective Area Operable Units. The actions for the separated units are proposed as final actions.
E.1 (FY2015) and E.2 (FY2016)

FY2015
- Field Starts
  - Upper Three Runs Integrator Operable Unit Fourth Phase II
- SB/PP
  - C Area Groundwater Operable Unit (Castor Creek) Interim Action
- ROD
  - C Area Operable Unit Early Action
  - C Area Groundwater Operable Unit (Castor Creek) Interim Action
- Issue ROD
  - Wetland Area at Dunbarton Bay
  - C Area Operable Unit Early Action
- Post-RA Start Documents
  - Ten (10) Reports that Discuss the Performance of the Selected RA
- Integrator Operable Unit Periodic Reports
  - Pen Branch Integrator Operable Unit Periodic Report #4
- RSER/EE/CAAs
  - D-Area Ash Basin (488-2D)
  - D-Area CPRB (489-D)
- Action Memorandums
  - D-Area Ash Basin (488-2D)
  - D-Area CPRB (489-D)
- Removal Action Starts
  - D-Area Ash Landfill (488-4D)
  - D-Area CPRB (489-D)
FY2014 Appendix E
FY2015 and FY2016 Milestones (cont’d)

- **E.1 (FY2015) and E.2 (FY2016)**
  - **FY2015 (cont’d)**
    - High Level Radioactive Waste Tanks
      - Complete Operational Closure of Four (4) Tanks
  - **FY2016**
    - Site Evaluation Reports
      - Combined Spills from 701-1F Spill
    - Field Starts
      - Pen Branch Integrator Operable Unit Fourth Phase II
      - D-Area Groundwater Operable Unit
      - G-Area Oil Seepage Basin Operable Unit
    - CMS/FS
      - P Area Groundwater Operable Unit Focused
    - ROD
      - D Area Operable Unit
    - Issue ROD
      - C Area Groundwater Operable Unit (Castor Creek) Interim Action
    - Post-RA Start Documents
      - Eleven (11) Reports that Discuss the Performance of the Selected RA
    - Integrator Operable Unit Periodic Reports
      - Fourmile Branch Integrator Operable Unit Periodic Report #5
E.1 (FY2015) and E.2 (FY2016)

FY2016 (cont’d)
- RSER/EE/CAs
  - D-Area Ash Basin (488-1D)
- Action Memorandums
  - D-Area Ash Basin (488-1D)
- Removal Action Starts
  - D-Area Ash Basin (488-2D)
- High Level Radioactive Waste Tanks
  - Complete Bulk Waste Removal Efforts for Two (2) Tanks
FY2015 Appendix E
Proposed Major Changes

- FY2016 milestones will be moved from Appendix E.2 to Appendix E.1.

- Appendix E.2 will be developed to reflect milestones for FY2017.

- The Environmental Management life-cycle baseline for SRS is still under development, so any potential impacts on the FFA cleanup schedule are not yet known.

- DOE will continue to try to identify waste units (or sub-areas) for earlier cleanup, so that progress is maintained and long-term scope is decreased.
SRS Area Completion Plan
The regulatory approved FY2014 FFA Appendix E is available online at:

http://www.srs.gov/general/programs/soil/ffa/ffa.html

- Accesses the Savannah River Site Area Completion Projects Federal Facility Agreement and supporting documentation pages

Questions and Answers

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