Purpose

• Provide information discussed in responses to Citizens Advisory Board Recommendation #279 Federal Facility Agreement Update Provided Annually
  – Information briefing on the approved Revision 0 Fiscal Year 2018 Appendix E

• Meet Citizens Advisory Board Facilities Disposition and Site Remediation Committee Annual Work Plan Commitment
Federal Facility Agreement

- Established August 1993
  - A legally binding agreement among Department of Energy, Environmental Protection Agency – Region 4, and South Carolina Department of Health and Environmental Control
  - Includes administrative requirements, enforceable schedules, and milestones for actions and documents
  - Lists the Resource Conservation and Recovery Act/Comprehensive Environmental Response, Compensation and Liability Act “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 Savannah River Site Liquid Waste tanks
  - Spells out authorities and responsibilities of the three agencies, and procedures for resolving disputes
Federal Facility Agreement - Appendix E

• Provides a lifecycle list of cleanup milestones for Savannah River Site Waste Sites
  – Made up of Appendices E.1, E.2, and E.3
    • Appendix E.1 contains Enforceable Milestones for the current Fiscal Year +1
    • Appendix E.2 contains Enforceable Milestones for current Fiscal Year +2
    • Appendix E.3 contains Planning Milestones for current Fiscal Year +3 and beyond

• Department of Energy updates Appendix E annually and submits for approval to South Carolina Department of Health and Environmental Control and Environmental Protection Agency – Region 4 in November.

  E.1
  Current Fiscal Year + 1
  Enforceable
  (Fiscal Year 2019)

  E.2
  Current Fiscal Year + 2
  Enforceable
  (Fiscal Year 2020)

  E.3
  Out Year Fiscal Year +3
  Planning
  (Fiscal Year 2021+)
Federal Facility Agreement - Milestones

Documents

• Remedial Investigation Work Plan
  – Plan used as the basis to determine the extent of contamination

• Remedial Investigation Report with Baseline Risk Assessment
  – Report that determines the nature and extent of contamination and the associated health and environmental risks

• Feasibility Study
  – Report that develops and analyzes the range of cleanup alternatives for the unit

• Proposed Plan
  – Plan that identifies the cleanup alternative preferred by Department of Energy, South Carolina Department of Health and Environmental Control, and Environmental Protection Agency for the unit

  • 30 day public comment period for Comprehensive Environmental Response, Compensation and Liability Act units
  • 45 day public comment period for Resource Conservation and Record Act/Comprehensive Environmental Response, Compensation and Liability Act units
Documents (Continued)

• Record of Decision
  – Official report that documents the selected remedy, after consideration of public comments; commits Department of Energy to implement it

• Remedial Action Implementation Plan
  – Plan that describes how the selected remedy will be implemented: design summary, permitting, construction & operation, maintenance, etc.

• Land Use Control Implementation Plan
  – Plan that describes how the land use controls selected in the Record of Decision will be implemented, maintained, monitored, enforced, and reported

• Removal Site Evaluation Report/Engineering Evaluation/Cost Analysis
  – Report that describes removal alternatives and objectives, and selects the preferred removal action alternative to address the potential threat to human health and/or the environment; 30-day public comment period
Work Activities

• “Field Start” – beginning of remedial investigation (typically sampling or well construction) after approval of Remedial Investigation Work Plan

• “Remedial Action Start” – beginning of construction or site preparation activities after approval of Remedial Action Implementation Plan

For Liquid Waste Tanks

• “Complete Bulk Waste Removal Efforts” – completing efforts to removal bulk (most) of the waste (including salt cake, sludge solids, and contaminated liquids) from a tank, leaving only a residual heel

• “Complete Operational Closure” – isolated and filled with grout, in accordance with Industrial Wastewater Closure Module
C-Area Groundwater

- A removal action has been proposed to reduce the trichloroethylene (TCE) moving into surface water so that the maximum contaminant level (MCL) of 5 micrograms per liter (μg/L) is no longer exceeded in the unnamed tributary to Castor Creek. The removal action will also support the final remedial action for C-Area Groundwater (i.e., remaining tritium and TCE plumes).

- The final action for the C-Area Groundwater will be delayed. The dates for the final action for the C-Area Groundwater were proposed and approved in the Revision 0 Fiscal Year 2018 Appendix E submittal as shown below.

<table>
<thead>
<tr>
<th>Milestone or Deliverable</th>
<th>Previous Date</th>
<th>New Date</th>
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<tr>
<td>Revision 0 Focused Feasibility Study Submittal</td>
<td>May 1, 2018*</td>
<td>April 20, 2025</td>
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<td>Revision 0 Proposed Plan Submittal</td>
<td>November 1, 2018</td>
<td>December 2, 2025</td>
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<td>June 17, 2019</td>
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<td>March 12, 2020</td>
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<td>Revision 0 Remedial Action Implementation Plan Submittal</td>
<td>April 24, 2020</td>
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<td>Revision 0 Land Use Control Implementation Plan Submittal</td>
<td>April 24, 2020</td>
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<tr>
<td>Remedial Action Start</td>
<td>June 30, 2021</td>
<td>July 18, 2028</td>
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*This is a Fiscal Year 2018 milestone.
P-Area Groundwater

- A removal action has been proposed to address the chlorinated volatile organic compounds (e.g., TCE and tetrachloroethylene) that are discharging into Steel Creek above their respective MCL of 5 μg/L. The removal action will also support the final remedial action for P-Area Groundwater (i.e., tritium plume and related surface water exceedances).

- The final action for the P-Area Groundwater will be delayed. The dates for the final action for the P-Area Groundwater were proposed and approved in the Revision 0 Fiscal Year 2018 Appendix E submittal as shown below.

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<tr>
<th>Milestone or Deliverable</th>
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<td>June 7, 2021</td>
<td>July 4, 2032</td>
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D-Area Groundwater Operable Unit Removal Actions

- Based on the agreements reached in the Suspension Agreement Federal Facility (FFA) High-Level Waste (HLW) Tank Milestones, dated November 2017, two removal actions are scheduled for the D-Area Groundwater Operable Unit as shown below.

<table>
<thead>
<tr>
<th>Operable Unit</th>
<th>Submit Revision 0 RSER/EE/CA</th>
<th>Submit Final Action Memorandum</th>
<th>Removal Action Start</th>
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<td>D-Area Coal Storage Area (484-17D) in Support of D-Area Groundwater Operable Unit</td>
<td>September 30, 2018</td>
<td>March 31, 2019</td>
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# Fiscal Year 2018 Appendix E – Milestone Timeline

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<th>CYs</th>
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**Acronyms**
- AAP/CPRB – A-Area Ash Pile (788-A), A-Area Coal Pile Runoff Basin (789-3A), and Stormwater Outfall A-013
- AM – Action Memorandum
- CAGW – C-Area Groundwater
- EA – Early Action
- ECODs – Early Construction and Operational Disposal Site
- FAOU – F Area Operable Unit
- DACSA – D-Area Coal Storage Area (484-17D)
- GOSB – G-Area Oil Seepage Basin
- DACSA – D-Area Coal Storage Area (484-17D)
- GOSB – G-Area Oil Seepage Basin
- ROD – Record of Decision
- RSER/EE/CA – Savannah River Site Emergency Emergency Action
- SC – Steel Creek
- RSER/EE/CA – Savannah River Site Emergency Emergency Action
- SC – Steel Creek
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- SFRA – Savannah River Site Emergency Emergency Action
- SFRA – Savannah River Site Emergency Emergency Action

**Dates:**
- 4/13/2018
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- 9/2019
- 5/2020
- 4/2019
- 1/2020
- 4/2020
- 5/2021
- 4/2021
- 7/2021
- 1/2022
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## Fiscal Year 2018 Appendix E – Milestone Timeline (Continued)

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</table>

### Acronyms
- AAP/CPRB – A-Area Ash Pile (788-A), A-Area Coal Pile Runoff Basin (788-3A), and Stormwater Outfall A-013
- DACSA – D-Area Coal Storage Area (189-7D)
- DAGU – D Area Operable Unit
- EA – Early Action
- ECOD – Early Construction and Operational Disposal Site
- FAOU – F Area Operable Unit
- FMB – Fourmile Branch
- GOSB – G-Area Oil Seepage Basin
- IDOUs – Integrator Operable Unit
- LTR – Lower Three Runs
- PAGU – P Area Operable Unit
- PB – Pen Branch
- ROD – Record of Decision
- RM – Remediatio
- SC – Steel Creek
- SARH – Savannah River and Floodplain Swamp
- UTR – Upper Three Runs
- WADB – Wetland Area at Dunbarton Bay

Data: 6/13/2018
Other Key Milestones – FY 2019 - 2020

- **Fifth Five Year Remedy Review Reports for:**
  - Operating Equipment (Issuance) 2/2019

- **Sixth Five Year Remedy Review Reports for:**
  - Native Soil Covers and/or Land Use Controls (Revision 0) 12/2018
  - Groundwater Remedies (Revision 0) 12/2019
  - Native Soil Covers and/or Land Use Controls (Issuance) 2/2020

- **D-Area Operable Unit**
  - Second Early Action Record of Decision (Revision 0) 10/2018
  - Second Early Action Record of Decision (Issuance) 7/2019
  - Second Early Action Land Use Control Implementation Plan (Revision 0) 7/2019
  - Early Action Remedial Action Start 5/2020

- **D-Area Groundwater Operable Unit**
  - Remedial Investigation Work Plan (Revision 0) 7/2019
  - Field Start 6/2020

- **G-Area Oil Seepage Basin (761-13G) Operable Unit**
  - Record of Decision (Revision 0) 1/2019
  - Record of Decision (Issuance) 9/2019
  - Remedial Action Implementation Plan (Revision 0) 9/2019
  - Land Use Control Implementation Plan (Revision 0) 9/2019
  - Remedial Action Start 9/2020

- **Lower Three Runs Integrator Operable Unit**
  - Proposed Plan (Revision 0)* 2/2019
  - Record of Decision (Revision 0) 10/2019
  - Record of Decision (Issuance) 6/2020

- **Liquid Waste Tanks**
  - Complete Bulk Waste Removal Efforts for One (1) Tank 9/2019
  - Complete Operational Closure of Two (2) Tanks 9/2019

(* will be available for public review & comment around 11/2019)
Upcoming Remedial/Removal Decisions Documents

- **C-Area Groundwater RSER/EE/CA**
  - Availability of document for public comment announcement completed on March 13, 2018
  - 30-day public comment period began on March 13, 2018 and ended on April 11, 2018
  - No public comments were received during the public comment period.

- **P-Area Groundwater RSER/EE/CA**
  - Availability of document for public comment announcement completed on April 10, 2018
  - 30-day public comment period began on April 10, 2018 and ended on May 10, 2018
Summary

The Federal Facility Agreement and Supporting Documentation, including Federal Facility Annual Progress Report for Fiscal Year 2017, Land Use Control Assurance Plan, Savannah River Site Community Involvement Plan, etc. is available online at:

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

The Federal Facility Agreement for the Savannah River Site is available at:

Questions and Answers