



U.S. DEPARTMENT OF
ENERGY

OFFICE OF
ENVIRONMENTAL
MANAGEMENT

Federal Facility Agreement Appendix E

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Savannah River Site

Department of Energy - Savannah River

Facility Disposition & Site Remediation Committee

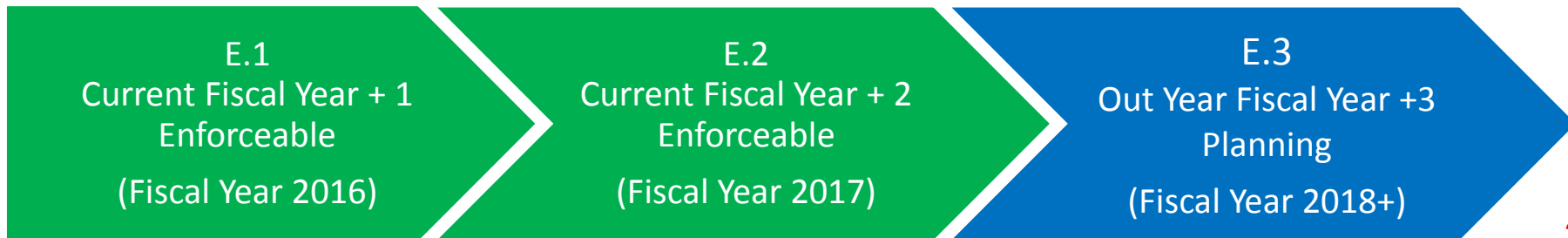
April 14, 2015

Purpose

- *Provide information discussed in responses to Citizens Advisory Board Recommendation #279, Federal Facility Agreement Update Provided Annually*
 - Information briefing on Revision 1 Fiscal Year 2015 Appendix E Submittal
- *Meet Citizens Advisory Board Facilities Disposition and Site Remediation Committee Annual Work Plan Commitment*

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 review to South Carolina Department of Health and Environmental Control and Environmental Protection Agency in November.*



Federal Facility Agreement Documents

- Remedial Investigation Work Plan
 - Plan used as the basis to determine the extent of contamination
- Remedial Investigation Report with Baseline Risk Assessment
 - An assessment of the nature and extent of contamination and the associated health and environmental risks
- Feasibility Study
 - Development and analysis of the range of cleanup alternatives for the unit

Federal Facility Agreement Documents (continued)

- **Proposed Plan**
 - Identifies the remedial alternative preferred by Department of Energy, South Carolina Department of Health and Environmental Control, and Environmental Protection Agency for the unit and allows for public comment
 - 30 days Comprehensive Environmental Response, Compensation and Liability Act only
 - 45 days for Resource Conservation and Recovery Act/Comprehensive Environmental Response, Compensation and Liability Act
- **Record of Decision**
 - The official report documenting the chosen remedy and why it was selected, after consideration of public comments
- **Remedial Action Implementation Plan**
 - Plan used to implement the selected remedy for the unit

Fiscal Year 2015 Appendix E

Major Changes

- The following changes were proposed so that the Department of Energy could commit to the **on-time** execution of the D-Area Ash Basins (488-1D, 488-2D), D-Area Ash Landfill (488-4D), and D-Area Coal Pile Runoff Basin (489-D) projects between Fiscal Year 2014 and Fiscal Year 2020.

- Wetland Area at Dunbarton Bay – Two year delay in regulatory documents and Remedial Action Start

Milestone	Current Due Date	Proposed Due Date
Issue Record of Decision	08/06/2015	08/06/2017
Remedial Action Start	11/05/2016	11/05/2018

- P-Area Groundwater Operable Unit – Two year delay in regulatory documents and Remedial Action Start

Milestone	Current Due Date	Proposed Due Date
Focused Feasibility Study	11/01/2015	11/01/2017
Proposed Plan	11/10/2016	11/10/2018
Revision 0 Record of Decision	06/28/2017	06/28/2019
Issue Record of Decision	03/12/2018	03/12/2020
Remedial Action Start	06/30/2019	06/30/2021

- A-Area Ash Pile (788-A), A-Area Coal Pile Runoff Basin (788-3A) and Outfall A-013 (No Building Number) – Four year delay in regulatory documents and Interim Remedial Action Start

Milestone	Current Due Date	Proposed Due Date
Interim Action Proposed Plan	06/22/2016	06/22/2020
Revision 0 Interim Record of Decision	03/09/2017	03/09/2021
Issue Interim Record of Decision	11/28/2017	11/28/2021
Interim Remedial Action Implementation Plan	02/16/2018	02/16/2022
Interim Remedial Action Start	03/05/2019	03/05/2023
Interim Post-Construction Report	06/19/2020	06/19/2024

Fiscal Year 2015 Appendix E Major Changes (continued)

- The final cleanup of these areas was delayed, but the previous area completion dates were kept as early action dates for the areas listed below. Due to ongoing missions, the final actions for these areas are proposed for Fiscal Year 2039 and beyond.

Area Operable Unit	Issue Early Action Record of Decision	Issue Final Record of Decision
F-Area Operable Unit	October 2026	September 2039
N-Area Operable Unit	March 2037	March 2061
K-Area Operable Unit	October 2039	September 2047
L-Area Operable Unit	October 2040	July 2063
A-Area Operable Unit	October 2038	May 2056

- Due to ongoing missions, the Issue Record of Decision dates for the areas listed below have been moved out to Fiscal Year 2042 and beyond. Note that there is an ongoing early action for the C-Area Operable Unit.

Area Operable Unit	Issue Record of Decision (Fiscal Year 2014 Appendix E)	Issue Final Record of Decision (Fiscal Year 2015 Appendix E)
C-Area Operable Unit	October 2024	August 2044
F-Area Tank Farm Operable Unit	March 2030	January 2042
H-Area Operable Unit	September 2039	January 2042
H-Area Tank Farm Operable Unit	September 2030	February 2045
E-Area Low Level Waste Facility	June 2039	March 2063

Fiscal Year 2015 Appendix E

Major Changes (continued)

- The milestones for the groundwater operable units were also proposed for revision to ensure assessment/remediation that is after or concurrent with the completion of the Area Operable Units.
 - C-Area Groundwater Operable Unit
 - Central Shops Groundwater Operable Unit
 - K-Area Groundwater Operable Unit
 - General Separations Area Eastern Groundwater Operable Unit
 - General Separations Area Western Groundwater Operable Unit
- The remediation of the D-Area Ash Basins (488-1D, 488-2D), D-Area Ash Landfill (488-4D), and D-Area Coal Pile Runoff Basin (489-D) will be completed by Fiscal Year 2020 under removal actions. However, Comprehensive Environmental Response, Compensation and Liability Act early action decision documents will be developed for these operable units. The schedule for submittal of these early action documents/activities is listed below.
 - Submit Early Action Proposed Plan– February 6, 2018
 - Submit Second Early Action Record of Decision – October 2, 2018
 - Issue Second Early Action Record of Decision – June 30, 2019
 - Submit Second Early Action Land Use Control Implementation Plan – July 7, 2019
 - Early Action Remedial Action Start – May 1, 2020

Fiscal Year 2015 Appendix E

Major Changes (continued)

- Due to ongoing missions at the D-Area Powerhouse, the submittal of the Final Action D-Area Operable Unit Record of Decision is proposed for May 2045.
- The D-Area Groundwater assessment/remediation will coincide with the remediation of the D-Area Ash Basins (488-1D, 488-2D), D-Area Ash Landfill (488-4D), and D-Area Coal Pile Runoff Basin (489-D).

Milestone	Current Due Date	Proposed Due Date
Field Start	09/30/2016	06/30/2020
Issue Record of Decision	09/30/2019	06/30/2023
Remedial Action Start	03/31/2020	09/30/2024

Fiscal Year 2015 Appendix E Impact of Regulatory Comments and Agreements

- The Wetland Area at Dunbarton Bay *Issue Record of Decision* and *Remedial Action Start* dates will be revised to June 2017 and September 2018, respectively (delay of 22 months).
- The majority of the K-Area Groundwater Operable Unit groundwater monitoring wells were sampled in fourth quarter of calendar year 2014. The Department of Energy, Environmental Protection Agency, and South Carolina Department of Health and Environmental Control will meet in the near future to discuss the results of the groundwater monitoring and to develop a path forward until the planned Field Start in September 2042. (Adobe Webcast scheduled for April 22, 2015.)
- The interim action milestones for the C-Area Groundwater Operable Unit have been deleted as the Department of Energy, Environmental Protection Agency, and South Carolina Department of Health and Environmental Control have determined that an interim action is no longer required. The final action milestones for the C-Area Groundwater Operable Unit will remain as March 2020 (*Issue Record of Decision*) and June 2021 (*Remedial Action Start*). In addition, milestones for the submittal of a Focused Feasibility Study in Fiscal Year 2018 and a Proposed Plan in Fiscal Year 2019 will be added to future submittals of Appendix E.

- Submit Revision 0 *D-Area Ash Basin (488-1D) Removal Site Evaluation Report/Engineering Evaluation/Cost Analysis* to the South Carolina Department of Health and Environmental Control and Environmental Protection Agency - February 29, 2016
 - Projected to be made available for a 30-day public comment period, starting in May 2016

Summary

The Federal Facility Agreement and Supporting Documentation, including Federal Facility Annual Progress Report for Fiscal Year 2014, 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

<http://www.srs.gov/general/programs/soil/ffa/ffa.pdf>

Questions and Answers

