



U.S. DEPARTMENT OF
ENERGY



2024 Workplan SRS Citizens' Advisory Board (CAB)

Topics for Consideration

Avery Hammett, Curt Gardner, and John Clark
DOE Savannah River Operations Office

January 30, 2024



U.S. DEPARTMENT OF
ENERGY



Facilities Disposition & Site Remediation

Avery Hammett,
DOE Savannah River Operations Office

January 30, 2024

Topic 1

| Topic 1 | Work Plan Item: | Per-and polyfluoroalkyl substances (PFAS) Management at SRS |
|---------|-----------------------------|--|
| | Description: | <p>PFAS is an emerging contaminant worldwide, and in November 2023, the CAB received a presentation on SRS's PFAS investigations in advance of EPA's pending regulations. If the EPA issues PFAS regulations in 2024 and the Site's PFAS actions change as a result, we will update the CAB on those changes.</p> <p>Provide a recommendation on how you would like this information to be shared.</p> |
| | Recommendation Deadline: | |

- **Annual Site Environmental Report (ASER) Presentation**
- **DHEC's Environmental Surveillance and Oversight Program (ESOP) Presentation**
- **US Forest Service Annual Update**
- **Savannah River Ecology Lab (SREL) Annual Update**
- **Cold War History Preservation Program Update**
- **SR Archaeology Research Program Update**
- **State Regulatory Oversight**
- **EPA's Role in the Site Remediation and Cleanup Program at SRS**
- **How the National Environmental Policy Act (NEPA) is Implemented at SRS**



U.S. DEPARTMENT OF
ENERGY



Nuclear Materials

Curt Gardner,
DOE Savannah River Operations Office

January 30, 2024

Topic 1

| Topic 1 | Work Plan Item: | Stored Nuclear Material |
|---------|-----------------------------|---|
| | Description: | <p>SRS safely stores significant quantities of Nuclear Materials. The CAB continued backing of our activities would demonstrate local support. Plan to educate CAB on Infrastructure/ Project update for FY24, Spent Nuclear Fuel Working Group activities/recommendations, discussion on the Plutonium System Plan, update on Criticality Control Overpacks, latest changes to the DOE Standard 3013 and update on the K Area Transition.</p> <p>Provide a recommendation on if the CAB will continue to support this program.</p> |
| | Recommendation Deadline: | |

Topic 2

| Topic 2 | Work Plan Item: | H Canyon Processing at SRS |
|---------|-----------------------------|---|
| | Description: | <p>H Canyon was an area of concern for the CAB last year. Updates on efforts to dissolve Non-Aluminum Spent Nuclear, inform the CAB what we are doing to maintain strong ConOps culture through a ConOps enhancements program, discuss dissolution updates on Fast Critical Assemblies, increased fissile loading of ABD canisters, expanded use of the 6.4 dissolver converted to handle MTR Fuel, and efforts to support outside High Activity Low Enriched Uranium fuel fabrication using remnant separated materials will assist this their collective understanding of the value of the Canyon.</p> <p>Provide a recommendation on if the CAB will continue to support this program.</p> |
| | Recommendation Deadline: | |

Topic 3

| Topic 3 | Work Plan Item: | Solid Waste Update |
|---------|-----------------------------|--|
| | Description: | <p>The Assistant Manager for Nuclear Material Stabilization is responsible for Solid Waste Processing and removal. Last year there were several questions from the CAB regarding solid waste and a returned container. An update and discussion on the returned container as well as status of E Area and increased shipments to WIPP would address concerns expressed at CAB meetings.</p> <p>Provide a recommendation on if the CAB will continue to support this program.</p> |
| | Recommendation Deadline: | |

Topic 4

| Topic 4 | Work Plan Item: | Deactivation Work |
|---------|-----------------------------|--|
| | Description: | <p>The Assistant Manager for Nuclear Material Stabilization has a number of facilities that are now inactive and are in the process of deactivation or have been deactivated. A discussion of several of these facilities including F/H Laboratory Deactivation and other facilities will educate the CAB on facilities no longer in use.</p> <p>Provide a recommendation on if the CAB will continue to support this program.</p> |
| | Recommendation Deadline: | |

- **Non-Aluminum Spent Nuclear Fuel Program**
- **F/H Laboratory Deactivation Project**
- **Infrastructure/ Project update for FY24**
- **ConOps enhancements in EM – what we are doing to maintain strong ConOps culture**
- **FCA Update**
- **E Area Update**
- **Half Pack Resolution**
- **SNFWG update**
- **HALEU**
- **ABD update**
- **DOE Standard 3013 Update**
- **Plutonium System Plan**
- **CCO update**
- **K Transition Update**



U.S. DEPARTMENT OF
ENERGY



Waste Management

John Clark,
DOE Savannah River Operations Office

January 30 2024

| Work Plan Item: | Update to the Integrated Liquid Waste Processing System at Savannah River Site, Liquid Waste System Plan, Revision 23 |
|--------------------------|--|
| Description: | <p><u>Description:</u> The <i>Integrated Liquid Waste Processing System at Savannah River Site, Liquid Waste System Plan, Revision 23 (System Plan Rev23)</i> was approved and issued by the Department of Energy (DOE) Savannah River Operations Office (SR) in March 2023. The purpose of the System Plan is to integrate and document the activities required to disposition the existing and future high-level waste (HLW) and remove from service radioactive liquid waste (LW) tanks and facilities belonging to DOE-SR through a risk-based approach. <i>System Plan Rev23</i> the is roadmap for the LW mission to complete in 2037.</p> <p>The LW contractor, Savannah River Mission Completion (SRMC), utilized a recently developed, in collaboration with DBD, Inc., a combination process and chemical optimization model, capable of simulating various scenarios to better predict alternate paths to complete the LW mission by the end of 2037. As a result of <i>System Plan Rev23</i>, the Federal Facility Agreement between DOE-SR, the Environmental Protection Agency, and South Carolina Department of Health and Environmental Control was modified with updated regulatory milestones and commitments. The next update is due in December 2024.</p> <p><u>Recommendation #1:</u> From a community perspective, review <i>System Plan Rev23</i> and make suggestions on how the information may be made more clear or easier to understand. Consider whether more information is needed in any section to provide improved understanding on the path to closure and termination of the LW program. Provide suggestions on needed additional sections, as appropriate.</p> <p><u>Recommendation #2:</u> From a community perspective, provide an analysis and opportunities to reduce the time between preliminary cease waste removal and operational closure of tanks.</p> |
| Recommendation Deadline: | Recommendation #1: July 31, 2024 Recommendation #2: September 30, 2024 |

Planned Presentations for WM

- End Stream Delivery: Optimizations and Improvements
- SDU Update – Construction and Operation
- DWPF Continued Optimizations to Support Increased Waste Throughput
- SWPF Continued Optimizations to Support Increased Waste Throughput
- Liquid Waste Risk Reduction and Waste Removal Update
- SRMC Laboratories: Supporting Increased Salt and Sludge Batches



U.S. DEPARTMENT OF
ENERGY



Long-term Missions and Budget

DOE Savannah River Operations Office

January 30, 2024

Topic 1

| Topic 1 | Work Plan Item: | Budget Priority List |
|---------|-----------------------------|--|
| | Description: | <p>The budget priority list is a rank-based approach to scope at Savannah River Site.</p> <p>From a community perspective, provide a ranking of the Site's priorities.</p> |
| | Recommendation Deadline: | March 2024 |

Planned Presentations for LTMB

- FY26 Budget Priorities List
- SRNL: Overview
- SRNL: Advanced Long Term Monitoring System
- SRNL: Regulatory Center of Excellence
- Site Lead Transition Updates



U.S. DEPARTMENT OF
ENERGY



CAB Requested Topics / Presentations

CAB Requested Topics / Presentations

- Site Lead Transition
- Waste Materials from Pit Production that will be an EM Responsibility

QUESTIONS?