The Savannah River Site (SRS) Citizens Advisory Board (CAB) Facility Disposition & Site Remediation (FD&SR) Committee met on Tuesday, July 8, 2008, 5:30-7:30 p.m., at the Aiken Municipal Conference Center, in Aiken SC.

The purpose of the meeting was to receive presentations and discuss: 1) P-Reactor Disassembly Basin Waste Removal Engineering Evaluation/Cost Analysis (EE/CA), 2) FY 2008 Federal Facilities Agreement (FFA), Appendix E, and an opportunity for public comments on CAB related issues.

ATTENDEES:

CAB Members - Mary Drye, Chair - K. Jayaraman, Vice Chair Manuel Bettencourt Ed Burke Donna Antonucci - Leon Chavous - Judy Greene-McLeod	Stakeholders Lee Poe, Public Heather Cartwright, SCDHEC Van Keisler, SCDHEC Jim Barksdale, SCDHEC Jeannette Hyatt, Fluor Sonny Goldston, WSRC Murray Riley, Public	DOE/Contractors/Others Sheron Smith, DOE-SR Helen Belencan, DOE-SR Ray Hannah, DOE-SR Brian Hennessey, DOE-SR Wade Whitaker, DOE-SR Paul Daugherty, DOE-SR
Alex Williams	Jim Hussey, Senator Chambliss Office	
Stan Howard	Bob Adams, SCDHEC Nancy Bobbitt, Senator	
Beverly Skinner	Isakson's Office	
Don Bridges	F. Miller, SRNL	
Kathe Golden	Chris Bergren, WSRC	
- Mercredi Giles	Eric Owens, SCDHEC	
	Shelia McFalls, WSRC	
	John Pickett, Public	
	Jesse Roach, WSRC	
- FD&SR Committee		

Welcome and Introduction:

Members

Ms. Mary Drye, Chair, FD&SR, opened the meeting with a welcome to all; a review of the agenda topics; provided information on the upcoming Emergency Operations Center tour and the Performance Assessment educational forum being offered to the CAB members.

Ms. Drye, FD&SR Chair, referenced the meeting ground rules and encouraged participation of all attendees. Then, the attendees introduced themselves.

Committee Update:

Ms. Drye stated that the one FD&SR open recommendation #236, Soil Vapor Extraction with Soil Fracturing, is expected to be addressed by DOE-SR in January 2009.

Committee Meeting Summary:

Members of the Facilities Disposition and Site Remediation Committee and the public met on July 8, 2008, 5:30-7:30 p.m., at the Aiken Municipal Conference Center, in Aiken, SC. DOE-SR hosted the meeting.

The purpose of the meeting was to receive presentations and discuss: 1) P-Reactor Disassembly Basin Waste Removal Engineering Evaluation/Cost Analysis (EE/CA) presented by Ray Hannah, DOE-SR; and 2) FY 2008 Federal Facilities Agreement (FFA), Appendix E, presented by Brian Hennessey, DOE-SR. An opportunity for the public to comment on CAB related issues was provided. The meeting was well attended with open discussions and participation from the SRS CAB members and the public. No draft motions were proposed based on the discussions.

DOE-SR has provided three workshops on the P-Reactor End State Options. Based on SRS CAB questions at the last workshop, the SRS CAB has an interest in the disposition of the large volume of water in the P-Reactor Disassembly Basin.

Based on the SRS CAB questions, DOE-SR provided an overview of the Removal Site Evaluation Report EE/CA that was completed to evaluate various alternatives, a cost comparison, and to obtain stakeholder input in a disciplined process.

Ray Hannah, DOE-SR, provided the presentation to include the Basin statistical background, a description of the basin; the history of operations and nature of the contamination which are predominately tritium, cesium, and strontium.

Open discussions indicated interest in the alternative selection objectives, why the alternative was selected, and the process. Manuel Bettencourt asked the significance of biased term used in sample testing. Mr. Hannah explained that biased sample testing is a term used for selective sampling based on operations process knowledge of where contamination would occur.

The SRS CAB members had a particular interest in the amount of grout that will be needed to fill the Basin, and why Alternative 3 to evaporate water using commercial evaporators was selected although the EE/CA identified a different alternative. Manuel Bettencourt, CAB member, asked how many evaporators would be needed to evaporate such a large volume of water. Mr. Hannah stated that two commercial evaporators would be operated with one evaporator in a spare capacity in case needed. Mr. Hannah stated that the amount of grout to fill the basin would depend on the mix, probably 2X to 5X the water required. The engineering analysis would indicate water to ratio to dry mix for volume. Mr. Hannah committed to providing information regarding the volume of grout required for filling the lower levels of the reactor.

Dr. Jayaraman, CAB member, asked why SRS is now placing the disassembly basin of the reactor final closure and filling with grout, why not keep as is. Mr. Hannah stated that our mission is to close and leave in a safe state. Mr. Hannah stated that Alternative 3 meets the threshold criteria of overall protection of human health, and the environment, and meets the objectives with less technical uncertainty and worker risk. Kathe Golden, CAB member, asked how much Tritium concentration would be detected at the site boundaries based on the evaporation alternative. Mr. Hannah stated that SRNL has done the analysis and that the detection of tritium at the site boundaries is almost immeasurable. Lee Poe, public, stated that SRS should publish the risk assessment for public comment. Donna Antonucci, CAB member, asked if Alternative 3 has an air quality standard and stated that some people do not agree that tritium is not dangerous. Ed Burke stated that the DOE-SR decision to spend an additional \$1M to evaporate is a concern as well as the concern of releasing tritium in the atmosphere.

Committee Meeting Summary: (continued)

Mr. Hannah stated that pouring concrete in large spaces is common but there are some technical uncertainty and technical risks with using contaminated water that made option 5B less desirable.

Mr. Hannah summarized that Alternative 3 meets the threshold criteria of overall protection of human health, and the environment, and meets the objectives with less technical uncertainty and worker risk.

The FY 2008 FFA Appendix E overview was presented by Brian Hennessey, DOE-SR. The SRS CAB appreciated the annual update. Mr. Hennessey provided a recap of the major changes and how these changes are determined to have the least impacts to current and ongoing site missions. The CAB asked if anyone has analyzed the changes to identify significant slippages and cost increases. Mr. Hennessey stated yes, analysis is completed and agreement with the regulators is required prior to approval and implementation of the FFA Appendix E. Ms. Drye requested that the FY 2008 FFA Appendix E information be presented at the full board meeting on July 29th.

The FD&SR meeting discussions were very informative and positive.

Public Comment:

None

Adiourn:

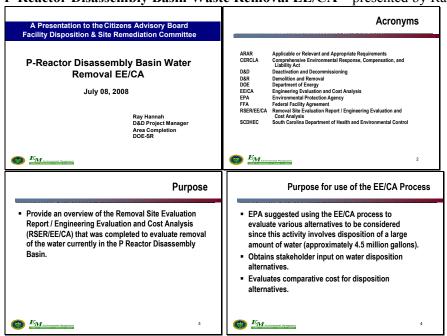
Ms. Drye adjourned the meeting at 7:00 p.m.

Follow-Up Actions:

Ray Hannah to provide an answer to Manuel Bettencourt question "How much grout will be needed to fill to grade?" (Completed 07/16/08)

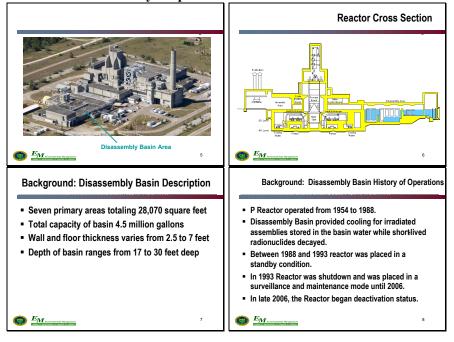
PRESENTATIONS:

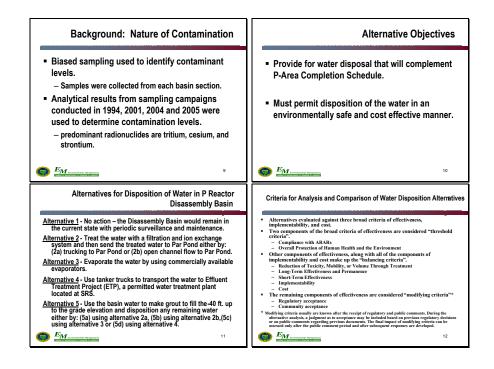
P-Reactor Disassembly Basin Waste Removal EE/CA – presented by Ray Hannah, DOE-SR



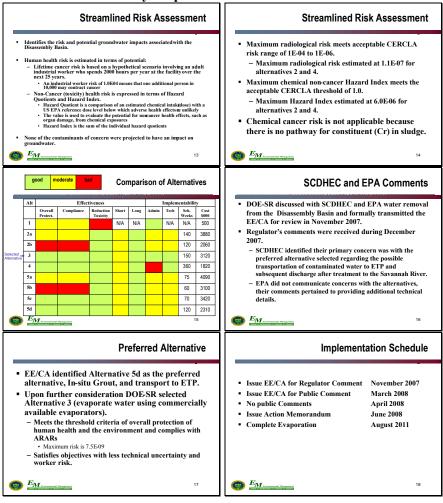
Summary Notes, July 8, 2008 SRS Citizens Advisory Board

Facility Disposition & Site Remediation Committee Meeting





Facility Disposition & Site Remediation Committee Meeting



The EE/CA approach was used to evaluate disposition of water in the Disassembly Basin. The RSER/EE/CA has been reviewed by EPA and SCDHEC. Five alternatives were analyzed, and the alternative for mechanical evaporation has been selected.

FY 2008 Appendix E Area Completion Plan – presented by Brian Hennessey, DOE-SR

Summary Notes, July 8, 2008 **SRS Citizens Advisory Board**

Facility Disposition & Site Remediation Committee Meeting

FY 2008 Appendix E **Area Completion Plan**

A Presentation to the SRS Citizens Advisory Board Facility Disposition & Site Remediation Committee

July 8, 2008

Presentation By Brian Hennessey, SRS Remedial Project Manager Department of Energy Savannah River Operations Office







Acronyms

Comprehensive Environmental Response, Compensation, and Liability Information System CMI/RAIP Corrective Measures Implementation / Remedial Action Implementation Plan

Department of Energy

EPA FFA Environmental Protection Agency Region 4 Federal Facility Agreement

FY HLW Fiscal Year High Level Waste IOU

Integrator Operable Unit
Land Use Control Implementation Plan LUCIP

Not Applicable NBN OU Operable Unit
Post Construction Report PCR RA Remedial Action

RCRA/CERCLA Resource Conservation and Recovery Act/Comprehensive Environmental Response, Compensation, and Liability Act

ROD Record of Decision

SCDHEC South Carolina Department of Health and Environmental Control Savannah River Site







FFA Appendix E

- Provides a lifecycle list of cleanup milestones for SRS waste
 - Made up of Appendices E.1, E.2 and E.3
 - Appendices E.1 and E.2 containenforceable milestones
 - Appendix E.1 milestones are for the next fiscal year; E.2 milestones are for
 - Appendix E.3 contains planning milestones for FY+3 and beyond
- DOE updates Appendix E annually and submits to SCDHEC and EPA in November for approval.
- · Annual update starts with current approved milestones, with adjustments to reflect:
 - Site mission schedules and Area Completion project schedules
 - Regulator approved schedule changes

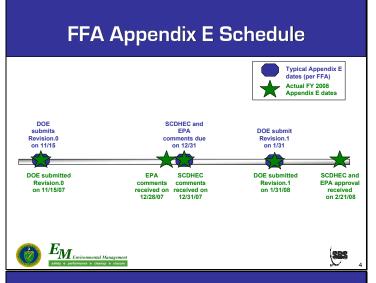






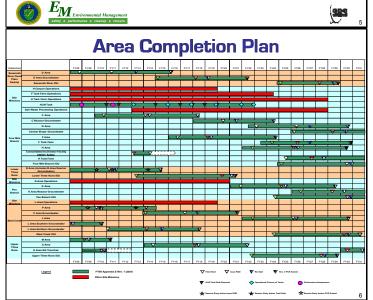
Summary Notes, July 8, 2008 SRS Citizens Advisory Board

Facility Disposition & Site Remediation Committee Meeting



FY 2008 FFA Appendix E Major Changes

- Extended Area Completion activities through 2031 (previously 2025) to:
 - Align with SRS mission schedules
 - Ensure logical execution of Area Completion
- Levelized project execution work in order to even out resource needs.
- Added closure dates for E-Area Low Level Waste Facility slit trenches.
- Added High Level Radioactive Waste Tanks bulk waste removal, operational closure, and Tank Farm Performance Assessments dates.
 - Consistent with DOE, EPA, and SCDHEC agreement resolving Tank 18 and 19 dispute on closure dates



racii	ity Disposition & Site K		
	Revision.1 Appendix E: Fiscal Year 2008 Long-Term F E.1: Deliverable Commitment Dates and Milestone Commitmen	Milestone/	
	Deliverable or Milestone: Revision D Appendix C, RCRACERCLA Unit List for Fiscal Year 2009 Submittal SRS Unit Index Number(s): NA CERCLIS OU No.	Submittal Date (MM/DD/YYYY)	
	SRS Unit Index Number(s): NA CERCLIS OU No	mbor(s): NA	
Appendix E.1 (excerpt)	C-Area Barming/Rubble Pit (131-C) and Old C-Area Barming/Rubble Pit (NBN) Revision® Co Implementation/Remedial Action Implementation Plan (CMI/RAIP) Submittal SRS Unit Index Number(s): 51 566 CERCLIS OU No	rective Measures 10/23/2008 imber(s): 31	
	C-Acea Burning Rubble Pit (131-C) and Old C-Area Burning Rubble Pit (NBN) Revision.0 Lan Implementation Plan (LUCIP) Selectural SRS Unit Index Number(s): 51 566 CERCLIS OU No	od Use Control 10/23/2008 imbos(s): 31	
	Revision. O Appendix E for Fuscal Year 2019 (Commitments for Fiscal Years 2010 & 2011 and Issuance Dates for Fiscal Year 2012+) Submitted SRS Unit Index Number(t): NA CERCLIS OU No.	mber(s): NA	
	R. Arcos Recordy Seepage Busius (984-51/G, -58/G, -59/G, -60/G, -103/G, -104/G) and 108-4/R Over (108-4/R Revision D Foot Construction Report (PCR) Submittal SPSS Unit Index Number(s): 121 122 123 124 119 120 CERCLIS OU No	flow Basin 11/2L/2008 unber(s): 25	
	Administrative Record 14th Indices Antonal Update for Fiscal Year 2008 Submittal SRS Uritl Index Number(s): NA CERCLIS OU No.		
	FFA Annual Progress Report for Fiscal Year 2009 Submittal (Including unusual certification of I Control Units) SRS Unit Index Number(s): NA CERCLIS OU No.		
	Fournile Breach Breach Integrater Operable Unit (Including the Un-Named Tributary o Breach South of C. Area) Third Phase II Field Start SRS Unit Index Number(6): 504 511 CERCLIS OU No.	(Fournile 12/01/2008 mber(x): 84	
	SRS Unit lades. Number is a unique identifier uniqued to each individual RCRACERCLA. Uni This number is used by SRS for tracking and is not meant to imply a making or pricety.	<u> </u>	
	CERCLIS: The EPA's Comprehensive Environmental Response, Compensation, and Liability Information System	Print Press, Al Cardens	
	SLM:EI_RI_2008.fp3 E.I- 1	Print Date: 01/30/2008	
	Revision.1 Appendix E: Fiscal Year 2008 Long-Term Proj E.2: Deliverable Commitment Dates and Milestone Commitment Da	rctions des for FY 2010	
		Milestone/	
	Deliverable or Milestone: Revision 0 Appendix C, RCRACERCLA Util List for Fiscal Year 2010 Submittal SRS Unit Index Numbot(s): NA CERCLIS OU Number(s)	Submittal Date (MM/DD/YYYY)	
	telepido initia	, 100 mg	
	P-Area Ash Basin, 188-P Issue ROD in Support of the P Area Operable Unit SRS Unit Index Number(s): 313 CERCLIS OU Number(i): 94 10/31/2009	
Appendix E.2 (excerpt)	P-Area Process Sewer Lines as Abaudourd, NBN and Spill on 3/15/79 of \$590 Gallons of Contam Water Issue ROD in Support of the P Area Operable Unit SRS Unit Index Number(s): 557 128 CERCLIS OU Number(inated 10/31/2009 i): 94	
	P-Area Reactor Cissk Car Railread Tracks as Abandoned, NBN Issue ROD in Support of the P / Operable Unit	urea 10/31/2009	
	Operable Unit SRS Unit Index Number(s): 477 CERCLIS OU Number(s)	94	
	Potential Release from P-Area Disassembly Basin, 145-P Issue ROD in Support of the P-Area Op Unit SRS Unit Index Number(s): 314 CERCLIS OU Number(s)	erable 10/31/2009 i): 94	
	Potential Release from P-Arra Reactor Coelling Winter System, 186/196-P base ROD in Support Area Operable Unit SSS Unit lock Number(s): 316 CERCLIS OU Number(s)		
	Building 183-4P, Christiention Plant (Misc. Services), Ione ROD in Support of the P. Aren Operable Unit SSE Unit Index Numberly: 1910 CERCLES OI Numberly: 94		
	SRS Unit Index Number(s): 1910 CERCLIS OU Number(s)): 94	
	SSS Unit bales Number is a mispe shamifur majaped to each individual RCRACERCIA Unit. This number is used by SSS for tracking and in not meant in imply a making on phonip.		
	into number is used by MrS 3of tracing and is not meant to mply a making or priority. CERCLIS: The IPPA's Comprehensive Environmental Response, Comprehensive, and Liability Information System		
	SLM:E2_RL_2008.pg E.2 - 1	Print Date: 01/30/2008	
Restine 1.4 apostite E. Fleat Von 2001 Lang Free Projection E. Fled Start, 2000 femans and fits Start that splinding Break Van 2011 to Start the surface of the Start of Start o			
	Watershed Category (Integrator Operable Unit, Units and D&D Facilities (or Remnants) Assigned to an Area Operable Unit, RCRACERCLA Units or FFA Facility Choures, or State Evaluation Areas	Site Evaluation Ropert Submittal	
	or Site Evaluation Areas) Area Operable Unit or Integrator Operable Unit Name Unit Name	or ROD or	
	Fournile Branch Watershed High Level Radiouctive Waste Tanks	Field Start - Essuance - Tank Dates	
	Complete Bulk Waste Removal Effects for One (1) Tank SMS Index Number(s): NA CERCLIS DOI Number(s): NA	SEP 2011	
	Complete Bulk Waste Removal Efforts for Two (2) Tanks. SRS Index Nanderic). NA. CHCL SOI Nondowich NA.	SEP 2014	
	Complete Bulk Waste Romoval Efforts for Two (2) Tanks 885 Index Nambrid: NA CERCUSO UN Immedia: NA	SEP 2016	
Appendix E 2	Complete Bulk Waste Romoval Effects for Three (3) Totales SSE takes Namburgi. NA CERCLES ON Namburgi. NA	SEP 2017	
Appendix E.3	Complete Bulk Waste Romoval Effects for Six (6) Tanks SIS Index Nationals NA CRECIAS DV Nationals NA	SEP 2018	
(excerpt)	Control to On Statement Poly Complete Bulk Waster Removal Efferts for One (1) Tank Salt Saidon Number(s): NA CERCISO ON Statements: NA	SEP 2019	
— (Oxeol pu)	CERCLES OF Numberly): NA Cereplete Operational Closure of Tanks 19 and 18 585 index Numberly: NA CERCLES OF Numberly: NA	DEC 2012	
	CERCLIS OU Numberja): NA	SEP 2015	
	Complete Operational Cleasure of Four (4) Tanks SES Index Numberis: NA		
	SRS Indox Number(s): NA CERCLIS CO Number(s): NA Cercrylete Operational Closure of Two (2) Tanks	SEP 2017	
	SES Mark Standard, MA. CERCLES CO-Invalsed, NA. Cerception Operational Cleanus on Two (2) Tatala SES Mark Standard, MA. CERCLES CO-Invalsed, NA. CERCLES CO-Invalsed, NA. Competes Operational Cleanus on Two (2) Tatala	SEP 2017 SEP 2019	
	SEL Sales Searcing, No. CECLES CO-Searcing), No. Cerrytic Operation Classes of Two (2) Teals Siles Searcing, No. CERRICA CO-Searcing), No. CERRICA CO-Searcing Common Classes of Two (2) Teals CERRICA CO-Searcing Classes of Two (2) Teals CERRICA CO-Searcing), No. CERRICA CO-Searc		
	SELS-in-Security No. GERGEO-Chambook So. Germini Operation Classes of Two (2) Table SELS-in-Security So. Germini Operation Classes of Two (2) Table SELS-in-Security So. Germini Operation Classes of Two (2) Table SELS-in-Security So. GERGEO-Chambook St. GERGEO-CHAMBO	SEP 2019	
	Stituben Security No. CERCESTON Securities No. Cerception Operational Channer Theo (2) Table Cerception Operational Channer Theo (2) Table CERCESTON Securities No. Cerception Operational Channer of Two (2) Table Stituben Securities No. Cerception Operational Channer of Two (2) Table Stituben Securities No. Cerception Operational Channer of Two (2) Table Stituben Securities No. Stituben S	SEP 2019 SEP 2021	

Summary

• The FY 2008 FFA Appendix E is available online at:

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

Accesses the Savannah River Site Soil and Groundwater Closure Projects Federal Facility Agreement and Supporting Documentation page -click on Federal Facility Agreement for the pdf version of the document

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

Accesses the pdf version of the Federal Facility Agreement





