



# SRS Citizens Advisory Board

## Environmental Remediation Committee

### Meeting Summary

June 27, 2000  
Holiday Inn  
Beaufort, SC

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#### **CAB Members**

Mel Galin  
Bill Adams  
Bill Voegelé  
P.K. Smith  
Jean Sulc  
Beaurine Wilkins\*  
Maria Reichmanis\*  
Perry Holcomb\*  
Beckie Gaston-Dawson  
Wade Waters  
Bill Willoughby  
Kathryn May\*  
Murray Riley\*  
Georgia Leverett  
Jimmy Mackey\*

#### **Stakeholders**

Keith Collinsworth, SCDHEC  
Thomas Rolka, SCDHEC  
Brent Allen, SCDHEC  
Sandra Threatt, SCDHEC  
Christine Steadman, SCDHEC  
Jim Laplande  
Rick McLeod  
John Phillips  
Howard Dawson  
Ed Saxon  
Tony Tucker  
Brandon Haddock  
Lynn Waishwell, CRESP

#### **DOE/Contractors**

Virgil Sauls, DOE  
John Knox, DOE  
Julie Petersen, DOE  
Gerri Flemming, DOE  
Clay Jones, WSRC  
Jim Heffner, WSRC  
Bob Steadman, WSRC  
Mary Flora, WSRC  
Helen Villasor, WSRC  
Paul Sauerborn, WSRC  
Jim Moore, WSRC  
Kim Wierzbicki, WSRC  
Jerry McLane, WSRC  
Cathy Lewis, WSRC  
Brian Hennessey, DOE  
Thomas Johnson, DOE

\*Denotes CAB ER Committee Members

Note: Sallie Connah of the ER Committee was unable to attend meeting.

**Introduction:** Jimmy Mackey introduced himself and then asked for introductions. As a separate announcement Mr. Mackey stated that if anyone had an interest in getting a copy of the Old Radioactive Waste Burial Ground focus group draft findings, to please get their name and address to Paul Sauerborn.

**Schedule Review:** Paul Sauerborn reviewed the schedule noting topics to be reviewed through the end of calendar year 2000, and requested any suggested addition.

**Savannah River/Flood Plain Swamp Integrator Operable Unit Status Update:** Thomas Johnson introduced himself to the meeting attendees. Mr. Johnson stated that there were six Integrator Operable Units IOUs at the Savannah River Site and they are: Steel Creek, Savannah River/Swamp, Four Mile Branch, Lower Three Runs, Pen Branch, and the Upper Three Runs. Mr. Johnson stated that IOUs are broken into three phases: Phase I is the evaluation of existing data, identification of potential early actions, and development of a sampling and analyses plan for new data needs. Public involvement in the IOU process is occurring at a significantly earlier stage than normal in the process due to a CAB recommendation and the duration of the phase II. Phase II is the implementation of regulator approved

early actions identified in the workplan, sampling, analyses and evaluation of newly acquired data obtained specifically for the IOU or from OU impacting the IOU. Mr. Johnson indicated that it would take approximately 20yrs start to complete on Phase II. During this time period new data is obtained and evaluated in the initial 2-3 years, preceeded or followed by early actions. The remaining years of the 20 year period is allowing remedial actions at the OUs within the specific IOU to be completed. Phase III identifies the completion activities and final IOU remedial actions. Rick McLoed stated that as Operable Units (OU) are cleaned up that the length of time to complete the overall IOU process could be reduced. Mr. Johnson stated that the ability for the public to comment on workplans is significant due to the very early stage of the project. Keith Collinsworth indicated that when Phase I is completed, it will identify any early cleanup actions will be identified.

Mr. Johnson identified the following early actions proposed for Savannah River/Swamp IOU:

Evaluation of Sediments and Soil Data - access controls and monitoring will be maintained; Creek Plantation will be posted and patrolled by SRS; and, any impacted media within the TNX Outfall Delta OU will be identified as part of the OU strategy.

Evaluation of Surface Water Data - potential reprioritization of the RFI/RI schedules for tritium source OUs will be evaluated during annual out-year planning.

Evaluation of Groundwater Data - impacted media within the TNX OU will be determined, as part of the OU strategy and access controls will be maintained.

Evaluation of Fish Data - additional fish consumption communication will be determined in a Fish Consumption Communication Action Plan.

Evaluation of Game Data - radiological monitoring of game prior to off site release will be continued, and SRS and the Regulators are establishing appropriate background concentrations for game.

Murray Riley asked if data from deer migration on and off site exists. Mr. Johnson stated that only on site data exists at the present. Kathryn May asked why Creek Plantation is now being identified. Kim Wierzbicki stated that with the property owner's permission the area would be posted, the areas have been monitored in the past, but not subject to the requirements of CERCLA.

**Reactor Area Groundwater Strategy:** Paul Huber explained the steps associated with the groundwater remediation process. Mr. Huber identified Phase I as characterization, which takes a holistic look at the problem, identifies contaminants and extent of the plume as well as the hydrogeology. Phase II takes a closer look at characterization, which defines sources, data gaps, and looks closely at models. Phase III is remedy selection, which sets the remedial action objectives and goals, looks at treatability/feasibility studies, and begins to accept and review any public input. Phase IV is implementation, which includes design, construction, operations and any land use controls. Phase V is to close out the groundwater remediation process.

Mr. Huber stated that the reactor groundwater strategy is to take a holistic approach, integrate with the Integrator Operable Unit Program (IOU), use a phased assessment and remediation, expedite the site characterization, and aggressively pursue better technologies. Mr. Huber concluded his status of the reactor areas by showing the C-Area reactor schedule sequence, which started in September of 1998 and is scheduled, to complete February of 2035. Mr. Huber noted that all the reactor areas will be worked on in concert with the IOU process and will complete on approximately the same schedule as C-Area reactor.

**Response to Recommendation 98:** Brian Hennessey, the DOE-SR Federal Facility Agreement Project Manager gave a response to CAB recommendation 98 relative to institutional controls and contaminant concentrations calculations. Mr. Hennessey stated that the Land Use Control Assurance Plan (LUCAP) establishes a policy to assure long-term effectiveness of land use controls at federal facilities. He stated that the Land Use Implementation Plan (LUCIP) is unit specific and identifies the area (s) under restriction, its control objective, and specifies controls and mechanisms to achieve each unit specific objective. Mr. Hennessey stated that institutional controls are actions that may be used to supplement engineering controls or as a stand-alone remedy at a waste unit to prevent or limit exposure to

contaminants for protection of human health. Typical institutional controls include fences, warning signs, deed restrictions, and land use restrictions. The selection of institutional controls is dependent upon location, future use, protectiveness and cost.

Mr. Hennessey addressed average concentrations, Constituents of Concern (COC), and Risk. Mr. Hennessey defined the 95% Upper Confidence Limit (UCL) as the value that equals or exceeds the true mean (average) 95 percent of the time, for random subsets of concentration data. He pointed out the advantages of using the 95% UCL is that it allows an estimate of the mean concentration to be used on fewer measurements than a true average would require, and it would produce the same general risk level as average concentration.

**Status of SRL Seepage Basin Contract:** Jimmy Mackey deferred this presentation to the next meeting scheduled for July 24<sup>th</sup> at the Sheraton Hotel, Augusta Georgia. The meeting is scheduled to begin at 7pm.

**CAB ER Recommendation Review:** Maria Reichmanis reviewed the following CAB Recommendations for change in status:

<u>Recommendation #</u>	<u>Current Status</u>	<u>New Status</u>
59	open	closed
76	pending	open
86	pending	open
87	pending	open
96	open	closed
98	pending	open
106	pending	open
113	pending	open
114	pending	open
117	pending	open

**Public Comments:** Mr. Mackey asked for public comment. There were none.

Mr. Mackey thanked the attendees, and the meeting was adjourned.

For copies of meeting handouts call 1-800-249-8155.