SRS Citizen's Advisory Board

SRS Citizens Advisory Board

Environmental Remediation Committee

Meeting Summary

December 11, 2000
North Augusta Community Center
North Augusta, SC

CAB Members	Stakeholders	DOE/Contractors
Maria Reichmanis*	Jerry Devitt	deLisa Bratcher, DOE
Murray Riley*	Rick McLeod	Ron Beul, BSRI
William Lawrence*	Sam Booher	Paul Sauerborn, WSRC
Jimmy Mackey*	Larry Callair	Jim Kupar, BSRI
		Michelle Ewart, DOE
	Regulators:	Paul Huber, BSRI
	Charles Gorman, SCDHEC	Bruce Schappell, WSRC
	Mary DePratter, SCDHEC	Thomas Johnson, DOE
	Don Siron, SCDHEC	Don Toddings, WSRC

*** Members of the ER Committee**
Note: Beaurine Wilkins, Sallie Connah, Perry Holcomb, and Katherine May of the ER Committee were unable to attend meeting.

Introduction: Jimmy Mackey introduced himself and then asked for introductions.

Schedule Review: Paul Sauerborn reviewed the schedule noting topics to be reviewed through the end of calendar year 2000, and requested any suggested addition. In addition, Mr. Sauerborn relayed a message from Julie Corkran EPA-Region IV; she regrets not attending the meeting due to her being sick with the flu.

A&M Area Groundwater Program Update: Chris Bergren presented the A&M Area Strategy Overview. Mr. Bergren explained the size and shape of the problem by use of an aerial view of A&M area. The view identified solvent contamination from multiple sources, resulting in an approximately 1600-acre plume. The Resource Conservation Recovery Act (RCRA) Part "B" Permit sites describes the plume and remediation by sectors identified as:

1. **Northern Sector**
2. **Central Sector**
3. **Western Sector**
4. **Southern Sector**
5. **Met Lab**

In addition thee are RCRA/Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) units within the A/M area that have contributed to the solvent plume:

1. **Silverton Road**
2. **A-Area Rubble Pile**
3. **A-Area Burning Rubble Pits**
4. **Miscellaneous Chemical Basin**

Mr. Bergren stated that the strategy for A&M Area was to use a graded approach to the plume clean-up as follows:

1. **Source Control, which deploys the most aggressive technologies.**
    - **Capping Basins**
    - **Soil Vapor Extraction**
    - **Barometric Pumping**
    - **In situ Chemical Oxidation**
    - **And Heating Technologies**
2. **Primary Groundwater Plume.**
    - **Pump and Treat and In situ Re-circulation**
3. **Dilute Plume and Fringe.**
    - **Phytoremediation and Monitored Natural Attenuation**

Mr. Bergren concluded his presentation by sharing the path forward as follows:

1. **Additional source area(s) characterization.**
2. **Proactively deploy innovative technology to address source area, primary dissolved and dilute plume through Corrective and Interim Actions.**
3. **And to continue to evaluate "acceptable" cleanup goals.**

Murray Riley asked if A/M area were near the Three Rivers Landfill, and Mr. Bergren replied it was not. Mr. Mackey stated that the Three Rivers Landfill was not within the purview of the Savannah River Site Citizen Advisory Board.

<u>Update on the Status of TNX Operable Units:</u> Ed McNamee stated that he would be addressing three items in his presentation: Interim Action, TNX Operable Units, and TNX Outfall Delta and Swamp. The Interim Action is the deployment of an airstripper and in the fiscal year 2000 the airstripper ran at 99.34% efficiency and 11.4 pounds of TCE/PCE were extracted.

The TNX Operable Units are:

1. **TNX Burying Ground – Potential Remedial Action: 1. Soil Vapor Extraction (SVE), 2. SVE with electrical resistance, 3. SVE with steam and hot air injection, and 4. SVE with air sparging.**
2. **New TNX Seepage Basin– Potential Remedial Action: 1. No Action, 2. Consolidation and Backfill, and 3. Removal and Offsite Disposal.**
3. **Old TNX Seepage Basin – Potential Remedial Action: 1. No Action, 2. Asphalt Cover/Sheet Piling/ Potential Threat Source Material (PTSM) Removed/Institutional Controls, 3. Asphalt Cover/Sheet Piling/Soil Mixing/Institutional Controls, 4. Engineered Cap/Sheet Piling/PTSM Removed/Institutional Controls, 5. Engineered Cap/Sheet Piling/Soil Mixing/Institutional Controls, 6. In Situ Cement Solidification/Sheet Piling/Institutional Controls, 7. Ex Situ Cement Solidification/Sheet Piling/Institutional Controls.**

For the TNX Groundwater, the potential remedial actions are 1. No Action, 2. Monitored Natural Attenuation (MNA) with Institutional Controls (IC), 3. Geosiphon in Low CVOC Concentration Area with MNA and IC's, 4. Permiable Wall in CVOC Concentration Area with MNA and IC's, 5. In Situ Chemical Oxidation in High CVOC Concentration Area with MNA and IC's, 6. Extraction in High CVOC Concentration Area with MNA and IC's.

Mr. McNamee announced to key dates as being 5/11/01 for the Proposed Plan for the Old Seepage Basin, New Seepage Basin, Burying Ground, and Groundwater issued for public review. The second key date being 3/20/02, the final Record of Decision.

Mr. McNamee began his TNX Outfall Delta presentation by using an aerial photograph to identify the area and noted that the preliminary screening results indicated both Uranium and Radium. Mr. McNamee stated that additional characterization was completed 9/29/00, and the RFI/RI/BRA Rev.0 would be submitted 8/24/01.

In conclusion, Mr. McNamee stated that the Interim Action is proving effective at containing the groundwater plume, the problems that exist are well understood for the TNX Area, are very close to deciding on final actions for the majority of the operable units, and we continue to work at understanding the Outfall Delta Area.

Integrator Operable Unit (IOU) Program Status: Thomas Johnson presented the IOU status update. Mr. Johnson gave a short synopsis of the way in which this program compliments the work being done at all the Operable Units at Savannah Rive Site. There are six IOU's and the schedules are as follows:

1. **Steel Creek (approved) 9/21/00, Phase I Field Start has commenced.**
    - **Work plan approved and issued**
    - **Field sampling completed**
    - **Data being evaluated**
    - **Periodic report scheduled for 10/15/01**
2. **Savannah River /Swamp 4/30/00, Phase I Field Start 2nd Quarter FY01.**
    - **SCDHEC minor comments received 10/02/00**
    - **EPA comments expected mid December**
    - **Field sampling start planned 1/01**
3. **Four Mile Branch 11/30/00, Phase I Field Start 4th Quarter FY01.**
    - **Work plan submitted 11/30/00**
    - **Copies provided to Natural Resource Trustee's**
    - **Copies provided to ER Committee of CAB**
    - **EPA & SCDHEC comments expected by 4/01**
    - **No new Early Actions proposed**
4. **Lower Three Runs 6/30/01, Phase I Field Start 2nd Quarter FY02.**
5. **Pen Branch 1/30/02, Phase I Field Start 1st Quarter FY03.**
6. **Upper Three Runs 8/30/02, Phase I Field Start 3rd Quarter FY03.**

Mr. Johnson stated that the Fish Consumption Communication Plan would be handled separately from the IOU program and that there was a meeting of the Site and the Regulators set for December 19th, and would encompass the spirit of the EPA-Executive Order #12898.

Public Comments: There were no public comments. Mr. Mackey thanked the attendees, and the meeting was adjourned.

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