SRS Citizen's Advisory Board

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Facility Disposition and Site Remediation Committee

North Augusta Community Center, North Augusta, SC
1/4/05

The SRS Citizens Advisory Board (CAB) Facility Disposition and Site Remediation Committee (FD&SR) met on Tuesday, January 4, 5:00 PM, at the North Augusta Community Center, North Augusta, SC. The purpose of the meeting was to discuss and receive updates on the TNX Operable Unit Proposed Plan, and SRS Building 235-F Legacy Source Term (Pu238) Study.

Attendance was as follows:

CAB Members
- Perry Holcomb
- Leon Chavous
- Mary Drye
- Murray Riley
- Bob Meisenheimer
Wendel Lyon

Regulators
Chuck Gorman, SCDHEC
Rob Pope, EPA

*CAB Technical Advisor C
-FD&SR committee members
+Facilitator
^Press

Stakeholders
* Rick McLeod
Tracey Carrole
Mike French
Jon Peterson
Lee Poe
Manvel Bettencourt
Ranowul Jzan
Sam Booher
John Pickett

DOE/Contractors
George Klipa, DOE
De'Lisa Bratcher, DOE
Paul Sauerborn, WSRC
Teresa Haas, WSRC
Bruce Schappell, BSRI
Ed McNamee, BSRI
Barry Shedrow, WSRC
Kevin Smith, DOE
Sonny Goldston, WSRC
David Burke, WSRC
Charles Harris, DOE
Regulators Kim Cauthen, WSRC
Mike Chandler, WSRC
Jim Kekacs, DOE
Bob Hottel, WSRC
Rita Stubblefield, DOE
Richard Reichel, WSR
Sachiko Mcalhany, DOE

Perry Holcomb, Chair, opened the meeting at 5:00 p.m. and welcomed those in attendance. In addition, he asked do go around the room for introductions by all.

FD&SR Committee meeting schedule review: Paul Sauerborn presented the schedule, which listed focus areas that the FD&SR committee will be reviewing for 2005. Mr. Sauerborn stated that should anyone in the public have an item relevant to the ER committee scope to please

notify him in order that he have those items reviewed and approved by the chairman of the FD&SR committee for future presentations.

T-Area Operable Unit Proposed Plan: Rita Stubblefied stated that the meeting objective was to facilitate early public involvement in the T-Area Proposed Plan. Ms. Stubblefield stated that T-area operable unit is found in the TNX area on SRS and is close to the sites border along the Savannah River. Ms. Stubblefield noted the following T-area components:

- TNX Area Operable Unit (OU), which includes the (New TNX Seepage Basin/Inactive Process Sewer Line, Old TNX Seepage Basin/Discharge Gully, TNX Burying Ground, and TNX Groundwater) – Record of Decision approved in April of 2004
- TNX Outfall Delta OU, which includes the (Outfall Delta, and Inner Swamp) – Removal Action in October of 2004
- TNX X001 Outfall Ditch handled by a Removal Action in May of 2004
- TNX Sanitary Tilefield in October of 2004
- Uninvestigated portions of the TNX Burying Ground
- 678T Process Sewer
- Various T-Area Building Remnants

Ed McNamee stated that the T-Area strategy is as follows:

- Remove via Removal Action:
  - contaminated soils from the Outfall Delta OU which is a direct exposure threat
  - contaminated soil from the X-001 Outfall Ditch which has low levels of PCBs and a direct exposure threat
  - contaminant soil from the #2 Tilefield which is a contaminant migration threat
- Cap the areas known to represent contaminant migration issues
- Isolate removed contaminants under the cap
- Soil amendments will be placed in Delta and Inner Swamp to manage possible Uranium migration issues
- Implement Institutional Controls as needed

Mr. McNamee addressed the three alternatives as being:

- Alternative 1 – No Action (cost of $0.0)
- Alternative 2 – Dispose staged waste onsite, cap residual contamination, place soil amendments in inner swamp and outfall delta, and implement institutional controls (cost of $11.1 million)
- Alternative 3 – Dispose staged waste offsite, cap residual contamination, place soil amendments in inner swamp and outfall delta, and implement institutional controls (cost of $14.3 million)

In conclusion, the recommended remedial actions to complete T-Area per the Proposed Plan are:

- Consolidate the removed contaminated soil to location under the proposed cap
- Install a low permeability cap

- Apply soil amendments to the appropriate areas of the Inner Swamp and Outfall Delta
- Implement institutional controls

Sam Booher asked if the proposed soil amendments that would be added as a cover to the remaining contamination have a negative effect on the trees and other plants in the effected area. Mr. McNamee stated that preliminary studies had looked into his question and found there would be no negative impact. Mary Drye asked a hypothetical, what if the costs run higher than currently estimated. Mr. McNamee stated that the estimate plans for unforeseen expenses, however if costs were to go beyond the estimate, then a reassessment of the budget would be addressed. Lee Poe asked about institutional controls on the cap, such as maintenance and deed restrictions relative to future generations. Mr. McNamee stated that the Record of Decision would address his questions on a five year basis, and should sometime in the future the property change title, the deed restrictions would identify and account for all that had occurred at that location. In addition, all the detail on the sites history can be found in the SRS Land Use Control Assurance Plan.

235-F Legacy Source Term (Pu-238) Study: Sachiko McAlhany stated that the purpose of this presentation was to respond to the Citizen's Advisory Board Recommendation 199 regarding SRS building 235-F Decontamination. Ms. McAlhany noted that the CAB should not be surprised if the current schedule changes relative to this cleanup action due to the impact of any remaining mission for 235-F.
Rick Reichel stated the Pu-238 issue was raised by the DNFSB, which questioned the use of 235-F for new Pu storage mission/extended facility life with legacy Pu-238 contamination (approximately 800grams was held up in shutdown process areas and ventilation system). WSRC with DOE concurrence recommended a three pronged approach 1.) Confirmatory Assay, 2.) Re-Perform Consequence Analysis, and 3.) Perform a Feasibility Study.

The Feasibility Study Report Scope contained the following:

- Questions
  - Is removal/mitigation feasible?
  - What information is available?
  - What are successful options?
  - What is recommended to meet study criteria?
- Report Deliverables
  - Waste / radiological controls / Pu-238 information
  - Facility information / assay data
  - Alternative analysis & risk assessment
  - Work scopes considered
  - Source term reduction/mitigation data
  - Cost / schedule estimates
  - Best options (per study criteria)

Mr. Reichel explained the study criteria as the following:

- Consequence of mitigated Design Basis Event
  - less than 5 rem site boundary, and less than 100 rem for the co-located worker
- A 20 year life
- The solution must be acceptable with:
  - Environmental
  - Solid waste
  - Material control and accountability
  - Fire protection
  - Criticality
- Addressed the removal of the material, and fix or encapsulate the remaining material
- Does not preclude decommissioning alternatives
- Does not impact operations or the 3013 container surveillance and storage capability
- Worker risk be minimized during implementation

Mr. Reichel showed the meeting attendees pictures of the contaminated areas (Old Metallography Laboratory, Plutonium Experimental Facility, and the Plutonium Fuel Form fabrication Facility) in building 235-F that would have to be dealt with in the cleanup process. Mr. Reichel identified the following study options that were evaluated:

- Full removal of equipment and source term
- Partial removal of equipment and fix the remaining source term
- Decontaminate equipment and fix the remaining source term
- Encapsulate (grout source term in place – no removal)
- Encase source term (no current removal)
- Take no action and continue monitoring

Mr. Reichel in conclusion identified the following path forward:

- Transmit study results to DOE, which has been completed
- DOE evaluate options relative to mission, which is in progress
- Implement the selected options when authorized

Lee Poe asked what the disposition path was for the materials that would be taken out of the facility in the cleanup process. Sonny Goldston stated that the material would be considered transuranic waste and placed into drums interim to being sent to a permanent storage location off the SRS. Rick McLeod asked when a decision would be made on the implementation of the cleanup. Ms. McAlhany stated the decision would be made in the near term; however the mission of the facility is still undetermined and would have bearing on the implementation of the cleanup process.

Public Comments: Lee Poe stated that he would like to have a presentation given to the FD&SR Committee on what is being found below building 221-F.

Perry Holcomb thanked all in attendance that participated in the meeting.

Mr. Holcomb adjourned the meeting at 6:35 p.m.

Meeting handouts may be obtained by calling 1-800-249-8155.