

**Savannah River Site  
Citizens Advisory Board  
Meeting Minutes  
July 28 - 29, 2008  
Aiken, SC**

**Monday, July 28, 2008, Attendance**

SRS CAB Members

Donna Antonucci  
Manuel Bettencourt  
Donald Bridges  
Edward Burke  
Leon Chavous  
Art Domy  
Mary Drye  
Alan Eckmyre  
Mercredi Giles  
Kathe Golden  
Judith Greene-McLeod  
Lee Harley-Fitts  
Stanley Howard  
Kuppuswamy Jayaraman  
Ranowul Jzar  
Denise Long  
Wendell Lyon  
Madeleine Marshall  
Joe Ortaldo  
Beverly Skinner  
Skye Vereen  
Sarah Watson  
Alex Williams

Agency Liaisons

Patrick McGuire, DOE  
Terry Spears, DOE  
Robert Pope, EPA  
Shelly Wilson, SCDHEC

Regulators

Heather Cathcart, SCDHEC  
Carolyn Haugabook, EPA  
Eric Owens, SCDHEC  
David Roberts, EPA

Stakeholders

Liz Goodson  
Ben Rusche

DOE/Contractors

Helen Belencan, DOE  
Gerri Flemming, DOE  
Sheron Smith, DOE  
Wyatt Clark, WSRC  
Paivi Nettamo, SRNS  
Paul Sauerborn, SRNS  
John Long, WSRC  
Tiajuana Cochnauer, USFS-SR  
Keith Laurence, USFS-SR  
Jenny Freeman, V3  
Rick McLeod, V3  
Mindy Mets, V3  
Mitch Morgan, V3  
Debbie Wisham, V3

The Savannah River Site (SRS) Citizens Advisory Board (CAB) Facilitator, Jenny Freeman opened the meeting by reviewing the agenda. She invited public participation and asked that anyone wishing to make a public comment sign up on the request sheet and will be acknowledged during the public comment period of the meeting.

CAB Members not in attendance were John Roberson.

**Administrative Committee, Sarah Watson – Chair**

Committee Chair Sarah Watson reported that the committee has been investigating the student membership topic and Denise Long has volunteered to bring suggestions back to the board and she will present her findings to the board on Tuesday. She reminded everyone that the new member campaign has begun and several positions will be open including the Chairperson seat. She asked the group to think about possible candidates and invite them to apply. In addition, Ms. Watson, stated that the first combined Process and Education Retreat will be held on October 22 – 24, 2008 and reminded everyone to mark their calendars. She informed the group that on the morning of October 22<sup>nd</sup> the Administrative Committee will meet to create a ballot from the group of membership applicants received, the CAB will review in November and elect members at the January 2009 meeting. She informed the group that the Chairperson position will be voted upon and elected at the November 2008 Full Board meeting.

**Waste Management Committee, Joe Ortaldo – Chair  
Art Domy – Vice Chair (Liquid Waste)  
Alex Williams – Vice Chair (Solid Waste)**

Committee Chair Joe Ortaldo stated that the Waste Management committee held a meeting on June 24, 2008. He stated that Larry Ling and Sonny Blanco of DOE reviewed the highlights of the Interim Salt Processing ARP/MCU. He said a follow up session is scheduled for August 12<sup>th</sup> at the Aiken Municipal Center. He continued stating that the June 24<sup>th</sup> meeting also included a presentation from Wyatt Clark, who will also present to the group today, gave

an overview of the Liquid Waste Operation emphasizing budget and maintaining of the infrastructure. In addition, Terry Spears spoke to the group on looking forward in years to Liquid Waste and that presentation will also be given to the full board on Tuesday. Mr. Ortaldo stated that he attended the Governors' Nuclear Advisory Counsel meeting on June 12<sup>th</sup> in which many topics related to the Savannah River Site (SRS).

Mr. Ortaldo updated the group on the status of the committee's Recommendations stating the Recommendation 255 is moved from Pending to Open status and Recommendation 179 will be closed at this meeting. He continued saying that 13 open recommendations and 6 can be closed fairly shortly after additional input from DOE or the Contractor.

He stated that topics at the next committee meeting will be an update on Interim Salt Processing; a TRU Waste update; and chemical cleaning of the waste tanks.

*Presentation – Infrastructure Review – Wyatt Clark, Chief Engineer, LWO Engineering, WSRC*

Mr. Clark gave an overview of plant Infrastructure starting with the key points of the Liquid Waste operations. He showed a Flow Sheet stating it has changes due to the interim Salt Disposition process and current processes that are in place. He emphasized that with aged infrastructure there needs to be an investment in the future as well as investing on new equipment coming on line. Mr. Clark outlined the changes in the infrastructure investment. He continued by stepping through the Liquid Waste planning system and the risk assessment process. Mr. Clark explained that risk planning in his presentation is not human health but risks to the program such as funding or component failure. He continued by addressing how Risk Assessments establish and monitor system health.

Mr. Clark spoke on funding perspectives toward the infrastructure from 1996 through 2012. He also identified the major Fiscal Year 2009 infrastructure activities.

The entire presentation is available on the SRS CAB website.

*Draft Recommendation Motion – Infrastructure Investment in System Planning*

*Entire Recommendation can be reviewed on the CAB Website*

The Department of Energy's (DOE) projects are often first-of-a-kind projects that require extraordinary effort and the use of best practices and skills to manage risks. Such is the case of the projects and facilities associated with the Liquid Waste System. Viewed as an entire system, these operations include the H and F Tank Farms, the Interim Salt Disposition Project (ISDP), the Salt Waste Processing Facility (SWPF), Saltstone, the Defense Waste Processing Facility (DWPF), and the Effluent Treatment Facility (ETF).

The Liquid Waste System planning process evaluates short range, mid range, and long range consequences and includes project risk assessments. This assessment looks at identified risks and risk handling strategies. Risk planning is a disciplined approach and includes plant infrastructure. This planning process relies on mature process planning and risk management to avoid program impacts. Major risk management is investigated including tank space, equipment failures, technology, process performance, project integration, external coordination, and collection and registration of emergent risks.

Risk management is a process of well-defined steps, which, when taken in sequence, supports better decisions by contributing to a greater insight into risks and their impacts on operational management. As it relates to infrastructure, risk management helps classify the criticality of equipment; the most likely modes of failure; the impacts of these failures in terms of cost and schedule; and what critical spares will be required in the event of a failure. If we can identify, manage and contain risks, we can substantially reduce the impact to the overall system. However, balancing the likelihood of equipment failure against the liability of the overall system operation can be difficult.

**Comment**

In ideal risk management, a prioritization process is followed whereby the risks for operations and milestones with the greatest impact and the greatest probability of occurring are handled first, and risks with lower probability of occurrence and lower loss are handled in descending order. In practice, the process of assigning priorities between risks with a high probability of occurrence but lower impact versus a risk with a high impact but lower probability of occurrence can often be difficult.

In addition, ideal risk management minimizes spending while maximizing the reduction of risk. Risk management is simply a practice of systematically selecting cost effective approaches that minimize risk to the operating system. Some risks can never be fully avoided or mitigated simply because of financial and practical limitations. Therefore,

the Savannah River Site (SRS) Citizens Advisory Board (CAB) understands that all organizations have to accept some level of residual risk for management.

However, the SRS CAB has concerns about the close interconnections of the major facilities associated with the Liquid Waste System. In a previous recommendation, the SRS CAB requested that SRS incorporate a risk-based approach to the Liquid Waste System using a quantitative analysis whenever possible. The emphasis was on how impacts to any single system or facility affect the functional ability of the entire system to perform its mission and to meet its milestones. In similar fashion, other recommendations requested an integrated management approach or systems-approach when evaluating the overall Liquid Waste System. The SRS CAB is always interested in accelerating existing closure dates and reducing the overall life cycle costs of the Liquid Waste System. Increased investments in infrastructure may be a way to accomplish both objectives.

### **Recommendation**

The SRS CAB recommends that DOE by September 23, 2008:

1. Demonstrate how infrastructure risks on operations, closures, and regulatory milestones are evaluated over the entire Liquid Waste System.
2. Provide assurances that the planned operating capacity of the Liquid Waste System is adequate to meet the planned liquid waste mission by 2028 and that all efforts have been made to identify any major existing equipment failures and risks that could potentially jeopardize this end date.
3. Identify any existing limiting equipment and/or facilities from Recommendation #2 above. For this equipment, the SRS CAB is interested in the operational criticality of equipment; the most likely modes of failure; the effects these failures might have on other equipment and operational commitments; and what critical spares will be required in the event of a failure. The emphasis should be on how impacts to equipment or facility failure affect the functional ability of the entire Liquid Waste System to perform its mission and to meet regulatory milestones.

Identify any new (or larger size) equipment or facilities that could be installed to actually increase the capacity of the Liquid Waste System to accelerate the 2028 mission and note the infrastructure investments required to achieve this increase in capacity.

Mr. Ortaldo summarized the motion and opened the floor for questions and comments. Following discussions by CAB members, minor editorial changes were noted and will be presented to the full board for approval the next day.

**Nuclear Materials Committee**, Manuel Bettencourt - Chair  
Judith Greene McLeod – Vice Chair

Committee Chair Manuel Bettencourt reported that the Nuclear Materials committee met on July 17<sup>th</sup> and heard presentations on Plutonium (PU) disposition and on Enriched Uranium disposition. He continued by saying that although unofficial until the Environmental Impact statement is released, he feels that plutonium will have two paths, one through MOX and one through H-Canyon. In addition, he said during that meeting the group heard information on the Green Fuel Storage Vault and the Design Basis Threat. Mr. Bettencourt discussed the GAO Report on SRS. He stated that the committees Recommendation 243 will be closed.

**Facilities Disposition & Site Remediation Committee**, Mary Drye - Chair  
K. Jayaraman – Vice Chair

Committee Chair Mary Drye reported that the committee met on July 8<sup>th</sup> and heard two informational presentations. She stated the first was about P Reactor Disassembly Basin waste removal and the second topic was Appendix E.

She stated Recommendation 236 will remain open until January 2009 when the annual update is completed. Ms. Drye thanked the group for the written questions that were submitted during the P Reactor workshop and she said they will be responded to in the near future.

**Strategic and Legacy Management (S&LM) Committee**, Madeleine Marshall - Chair  
Beverly Skinner – Vice Chair

Committee Chair Madeleine Marshall started by welcoming Beverly Skinner as the new Vice Chair to the committee. She stated the next committee meeting will be held on August 19<sup>th</sup> at the Ramada Inn in Augusta, GA.

She stated that in May the group discussed getting an updated on the Savannah River Ecology Lab (SREL) because of the positive information that has been disseminating about SREL. She stated that Dr. Carl Bergman will be at the committee meeting on August 19<sup>th</sup> and will update the group on SREL. In addition, she said the group will hear an update on the Carolina Bays. She said the group will receive an update on the use of SRS land for military operations. She said the Environmental Assessment (EA) has not been completed for that agreement to happen.

She said that Mr. Chuck Munns who is the executive officer SRNS will speak to the group on Tuesday.

Ms. Marshall requested that Recommendation 254 be moved from pending to open status. She continued by stating future topics of interest for the group is the public museum and Forestry work.

### **Public Comments**

Liz Goodson asked when the CAB will hear how environmental research is being used to make cleanup and closer more efficient and more effective.

Meeting adjourned at 4:00 p.m.

## Tuesday, July 29, 2008, Attendance

### SRS CAB Members

Donna Antonucci  
Manuel Bettencourt  
Donald Bridges  
Edward Burke  
Leon Chavous  
Art Domy  
Mary Drye  
Alan Eckmyre  
Kathe Golden  
Judith Greene-McLeod  
Lee Harley-Fitts  
Stanley Howard  
Kuppuswamy Jayaraman  
Ranowul Jzar  
Denise Long  
Wendell Lyon  
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Joe Ortaldo  
Beverly Skinner  
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Sarah Watson  
Alex Williams

### Agency Liaisons

Patrick McGuire, DOE  
Terry Spears, DOE  
Robert Pope, EPA  
Shelly Wilson, SCDHEC

### Regulators

Heather Cathcart, SCDHEC  
Carolyn Haugabook, EPA  
Angela Lindell, SCDHEC  
Ted Millings, SCDHEC  
Eric Owens, SCDHEC  
Jami Sarje, SCDHEC  
Adam Waller, SCDHEC  
David Roberts, EPA

### Stakeholders

Tom Clements  
Mike Frena  
Liz Goodson  
Karen Patterson  
Mike Schoener  
  
Amy Caver, Intern  
Brittany Green, Intern  
Gailia Mercer-Brown, Intern

### DOE/Contractors

Helen Belencan, DOE  
Becky Craft, DOE  
Gerri Flemming, DOE  
Brian Hennessey, DOE  
Jean Ridley, DOE  
Wade Whitaker, DOE  
Sheron Smith, DOE  
Dennis Carr, SRNS  
J. D. Chiou, SRNS  
Jim Gaver, SRNS  
Chuck Munns, SRNS  
Pete Hill, WSRC  
Shelia McFalls, WSRC  
Paivi Nettamo, SRNS  
Paul Sauerborn, SRNS  
John Long, WSRC  
Tiajuana Cochnauer, USFS-SR  
Keith Laurence, USFS-SR  
Jenny Freeman, V3  
Rick McLeod, V3  
Mindy Mets, V3  
Mitch Morgan, V3  
Debbie Wisham, V3  
Ron Schroeder, StrataG  
Paul Larsen, Energy Solutions  
Chris Reno, Energy Solutions

SRS CAB members Mercredi Giles and John Roberson were unable to attend. CAB Member Leon Chavous led the Pledge of Allegiance. Terry Spears, DOE-SR, served as the Deputy Designated Federal Official. Jenny Freeman served as Facilitator and Rick McLeod was present as the CAB's Technical Advisor. The meeting was open to the public and posted in the *Federal Register* in accordance with the Federal Advisory Committee Act.

### Approval of the Minutes

Minutes from the May 19-20, 2008 Full Board meeting were approved by the CAB with a minor change requested by Manuel Bettencourt.

### Agency Updates

#### Department of Energy

Mr. Terry Spears greeted the CAB and informed the group that he has been assigned by the DOE-SR Site Manager, Mr. Jeffrey Allison, to serve as co-Deputy Designated Federal Official (DDFO).

He stated Mr. Allison asked he extend his regards to the CAB members; stakeholders; and members of the public present. He reported that Mr. Allison was in Denver, Colorado attending an EM Quality Assurance Corporate Board Meeting.

He continued by saying that Patrick McGuire who has been filling the role of SRS CAB DDFO, was present as a member of the audience. He explained that Mr. Allison decided a way to keep his senior managers involved was for he and Patrick to work together as co-DDFO's.

Mr. Spears introduced four summer interns who are working with the Department of Energy: Gailia Mercer-Brown, who is working toward a Masters degree at S.C. State; Amy Caver, has a Bachelors degree in Mass Communications from Lander University in Greenwood, SC; Britney Green, will receive a Bachelors degree in Mass Communications

from Voorhees College; and Ashley Lovett; is working toward a Bachelors degree in Broadcast News and Journalism at the University of Georgia. He said the four interns serve in the Office of External Affairs. He reported that each year DOE supports the program to allow college students to work alongside professionals and gain hands-on experience within their chosen discipline. He stated they are currently hosting 24 interns from 8 states and 19 different colleges. He wished all of the interns well.

Mr. Spears continued with SRS updates.

### **Management and Operating (M&O) Contract Transition:**

He reported the M&O Contract Transition from Washington Savannah River Company (WSRC) to the Savannah River Nuclear Solutions, (SRNS) is on schedule for turnover of operations on August 1, 2008. He said major activities supporting completion of the Transition Plan milestones are being conducted with representation from SRNS, WSRC and DOE-SR. He stated that all facility safety walk downs have been completed and no major issues have been identified. He continued by saying Mr. Chuck Munns, President of SRNS, will speak to the CAB later that morning.

### **Liquid Waste Program Contract Request for Proposals at the Savannah River Site:**

Mr. Spears updated the group on the status of the Request for Proposals for the liquid waste scope of work which was issued on September 13, 2007. He stated that proposals have been received and are still being reviewed and evaluated by DOE and although nothing new has happened he wanted to keep the CAB updated.

### **Actinide Removal Process and Modular Caustic Side Solvent Extraction Unit (ARP/MCU)**

He was pleased to report that SRS started radioactive operations of the ARP and MCU facilities in late April and since then, 13 batches of waste feed have been successfully processed through ARP and MCU, and the treated products sent to Tank 50 and the Defense Waste Processing Facility (DWPF). He reported that over 50,000 gallons of waste have been processed through ARP/MCU to date.

Mr. Spears described the ARP/MCU processes as the first ever application of state of the art technologies to the successful treatment and final disposition of radioactive salt waste in SRS tanks. He said salt waste comprises the largest volume of waste inside SRS waste tanks and removing this waste allows the Site to meet upcoming Federal Facilities Agreement commitments for tank closure.

He was pleased to have the Assistant Secretary of Energy for Environmental Management (Jim Rispoli), as well as several members of the CAB, join us at SRS on June 19 for a ceremony recognizing the significance of the startup of the ARP/MCU.

### **Transuranic (TRU) Waste Program**

Mr. Spears said that SRS continues to make 3 shipments to the Waste Isolation Pilot Plant (WIPP) each week and current shipping statistics (as of July 22): FY 08 – 2,872 TRU waste drums, Cumulative – 26,651 drums (of the estimated 29,000 plus drum inventory of legacy TRU waste).

### **A-Area Powerhouse Replacement Project:**

Mr. Spears stated that Honeywell Building Solutions, the Energy Savings Performance Contract contractor for the project, has installed the biomass and oil-fired boilers in the new facility and the installation of the electrical and mechanical systems are in progress and that the new plant is approximately 95 percent complete. Startup testing began July 8, 2008, and the plant is expected to be fully on-line in August 2008.

### **Replacement Project for the D/K-Area Powerhouses:**

He announced plans are underway to replace the D/K Area Powerhouses, Ameresco Federal Solutions (AFS), the Energy Savings Performance Contractor for the project, submitted their Revised Final Proposal and Detailed Energy Survey for the project to the Department of Energy (DOE) Savannah River on May 30, 2008. Approvals by the DOE-HQ Federal Energy Management Program Review Board are pending review. The goal is to award the contract by the end of July.

## **The Manager's "Take Five" Safety Messages**

Mr. Spears continued by saying that safety is paramount in everything done at the Savannah River Site. In that regard, WSRC and DOE-SR distribute short weekly safety bulletins to all personnel to remind them of the importance of safety in everyday work activities and to serve as a refresher for our staff on key office and industrial safety topics. Mr. Spears stated that he will continue the practice that Mr. McGuire started in putting a "Take Five Safety Messages" in the agency updates for everyone's benefit. He said that the current month message is about – Putting I.C.E. on your cell phone. He said that's yet another acronym that means **In Case of Emergency**. This is a feature that would be listed in your cell phone as ICE so that in the event of an emergency, responding paramedics, police or other emergency personnel would immediately know who to contact. He said using this feature has reduced the notification time down to less than 13 minutes.

## **Questions from CAB Members following Mr. Spears report were:**

Manuel Bettencourt asked if the TRU drum goal by end of 2009 included PAD 1. Mr. Spears stated that it did not include PAD 1.

Judith Green-McLeod asked if a decision has been made as to the source of the bio-mass fuel. Mr. Spears said that Ms. Helen Bellencan will answer that in the future. Ms. Green-McLeod also asked the status of the IT contract at the site? Mr. Spears stated that it will remain under WSRC at the current time.

## Environmental Protection Agency (EPA)

Mr. Rob Pope, EPA, updated the CAB on accomplishments during the year. He said the first was the JSAU burial grounds which is a 76 acre cap largest he has seen. He stated that a big accomplishment is the R Reactor seepage basin which is in the final stages. He stated that the M Area Record of Decision (ROD) will be issued soon for the final stages of completion, in addition to the C Area burning rubble pit. He said the third SRS 5-Year Review on all RODs that have been completed at the Site is underway. Additionally, he said the HLW Tank Performance Assessment is due in the summer. He also stated that David Roberts an EPA intern is exploring the possibility of POD casting meetings on the internet.

## South Carolina Department of Health and Environmental Control (SCDHEC)

Ms. Shelley Wilson, SCDHEC, stated that DHEC also participated in the June 19<sup>th</sup> celebration for two events which were the General Separations Area Consolidated Unit and the startup of the ARP/MCU. She also invited participation in the Permit Modification review and comment of the Industrial Solid Waste Landfill Permit for the Saltstone Disposal Facility. She announced that the public hearing is scheduled for August 5<sup>th</sup> at the Aiken Municipal Building Conference Center in Aiken, SC. She said comments can be submitted up until August 19<sup>th</sup> when the review period closes.

## South Carolina Department of Health and Environmental Control (SCDHEC)

Jim Brownlow, SCDHEC, stated that the state remains in a serious drought situation. He informed the group that the local DHEC recently met with SRS concerning prescribed burns. He said the CSRA region is in danger of getting out of attainment, so anything that can be done to improve air quality such as bio fuels and prescribed burns changes are to the areas advantage.

## Public Comments

No Public Comments

*~End of Public Comments ~*

## Chair Update

Ms. Donna Antonucci, CAB Chair, thanked everyone for attending and she recapped recent committee meetings and accomplishments at the site such as salt waste processing and TRU Waste. She stated the benefits of having a tour of the Emergency Operation Center (EOC) which the CAB was able to attend the afternoon before and recommended the tour for anyone who was able to attend. She also informed the group of the Performance Assessment Work Shop the next day and the benefits the group will receive if able to attend.

Ms. Antonucci welcomed Mr. Spears as the spare DDFO and Mr. Chuck Munns, President of SRNS who will be speaking to the group shortly. She asked the CAB Members for input on the Boards top three issues which she and Ms. Jzar will present at the SSAB Chairs meeting in Washington, DC in September.

She reminded the group that the new member campaign is underway. Also she stated that Alan Eckmyre will be taking over the Technical Advisor position as Mr. Rick McLeod will be leaving the group. She stated that the Chair position elected in November as she rotates off the board in January 2009.

Ms. Antonucci announced the retirement of Mr. Rick McLeod who has accepted a position as Director of the CSRA Community Reuse Organization (SRSCRO) and asked him to speak to the group at this time.

Mr. McLeod spoke and gave his appreciation to the group. He stated he enjoyed and honored his 8 years working with the CAB and they will see him occasionally at meetings in the role of his new position.

At this time Ms. Antonucci greeted and invited Mr. Chuck Munns, President SRNS to take the floor.

Mr. Munns stated he was asked to speak to the group to give an updated on who SRNS is; where they are at; and where they are going. He stated that SRNS is one company with one purpose. The company is three pieces the first is the workforce; second is Management and he introduced two managers in the audience, Mr. J.D. Chou and Mr. Jim Gaver. He said the third piece is the companies, Fluor, Northrup Grunman, and Honeywell which comprise SRNS. He continued by stating the 90 day transition period will end on Friday, August 1<sup>st</sup> and SRNS has completed all the requirements set forth by the contract and DOE and will take over as the M&O contractor. He summarized the events of the past 90 days and told the group of the continuing plans for safe operation of the site in the future. He concluded his talk to the group and answered various questions.

#### **Facilitator Update**

Jenny Freeman, CAB Facilitator, discussed the status of SRS CAB recommendations as follows: 2 recommendation pending, 22 recommendations open, 231 recommendations closed. No recommendations were awaiting responses. The full recommendation report may be viewed at the CAB website.

#### **Administrative Committee, Sarah Watson - Chair**

Ms. Sarah Watson, Administrative Committee Chair, updated the Board on recent committee activities. She introduced Ms. Denise Long who spoke to the group about Student participation on the board and presented her proposal to the Administrative committee for review. The group had discussions concerning the topic with many different views on the subject.

Ms. Watson continued by stating the membership campaign deadline is September 5<sup>th</sup> and encouraged everyone to pass out an application to anyone who may be interested in joining. She advised the group that all applicants are informed of the opportunity to visit the CAB meetings to introduce themselves prior to the elections.

The group was reminded of the process retreat to be held October 22 through 24, 2008 at the Savannah Rapids Pavilion in Augusta, GA. The Administrative committee will meet the morning of October 22<sup>nd</sup> to review the membership applications received and create a ballot for the fourteen positions to be filled.

#### **Facilities Disposition & Site Remediation Committee, Mary Drye - Chair**

*K. Jayaraman – Vice Chair*

Ms. Mary Drye, Facilities Disposition & Site Remediation Committee Chair, updated the Board on committee activities. She introduced Brian Hennessey, Federal Facility Agreement (FFA) Project Manager, who gave an overview of Appendix E of the.

#### **Presentation – Appendix E Area Completion Plan – Brian Hennessey, DOE-SR**

Mr. Hennessey, opened his presentation by defining the FFA Appendix E. He said it provides a lifecycle list of cleanup milestones for SRS waste units. He said it is made up of the following Appendices: E.1, E.2 and E.3, and that Appendices E.1 and E.2 contain enforceable milestones. In Appendix E.1 milestones are for the next fiscal year; E.2 milestones are for FY+2; 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. He said that annual update starts with current approved milestones, with adjustments to reflect: Site mission schedules and Area Completion project schedules. He said that only the Regulator can approve schedule changes.

The entire presentation is available as an attachment to this document, and also on the SRS CAB website.

### **Public Comments**

Mr. Tom Clements, Friends of the Earth, spoke of the Mixed Oxide Fuel process facility and is interested in finding out the cost of the facility. He stated that the government accountability office released their statement on H Canyon. He said he is waiting for NEPA documents on the facility via either the Draft Environmental Impact statement or H Canyon Supplement Analysis and hopes DOE would address the question.

Also, he said he was told that the ARP/MCU was shut down last week and stopped for a planned outage. He said he was told it was for a chemical process but doesn't know if it is accurate. He would also like to be informed about the accuracy of that information.

Judith Green-McLeod wanted to give her input on student involvement with the CAB and SRS. She told of her past experiences on site tours and visits and said she would like to suggest that the CAB partner with SRNS or DOE Office of External Affairs student programs to bring students to a meeting as part of their program.

*~ End of Public Comments ~*

### **Waste Management Committee, Joe Ortaldo – Chair**

*Art Dobby – Vice Chair (Liquid Waste)*

*Alex Williams – Vice Chair (Solid Waste)*

Joe Ortaldo, Waste Management Committee Chair, reviewed recent committee topics for those not present the previous day. He said the committee had a meeting on June 24<sup>th</sup> and reviewed highlights of Interim Salt Processing ARP/MCU and an overview on Liquid Waste Operation Infrastructure items. In addition, they had an update on the 5-10 year outlook on Liquid Waste operations. He attended the Governors Nuclear Advisory Council Meeting he attended that covered SRS topics. Finally, he stated there is a Waste Management committee meeting on August 12<sup>th</sup> at Aiken Conference Center.

### **Presentation – Clean-up Progress – Clearing the Way for the Future – Terry Spears, DOE-SR**

Mr. Spears spoke to the group on Liquid and Solid Waste at the SRS. He started with the Waste Disposition Mission:

#### **Radioactive Liquid Waste - Tank Waste Stabilization and Disposition**

- Safely treat and disposition 36 million gallons of radioactive liquid waste and close 49 underground storage tanks in which the waste now resides by 2028 to reduce risk and meet regulatory commitments

#### **Solid Waste – Stabilization and Disposition**

- Treat, store, transport, and dispose of transuranic (TRU), hazardous (HW), mixed (LLMW), low-level (LLW), and sanitary wastes generated at SRS throughout the Environmental Management mission

“Radioactive waste stored in SRS tanks poses the single greatest environmental risk in the State of South Carolina.”

### **Challenge:**

- Safely store, treat and stabilize legacy liquid waste
- Remove waste and close 49 remaining waste tanks

### **Regulatory Framework**

- Federal Facility Agreement (FFA) – Close all noncompliant tanks by Fiscal Year (FY) 2022
- Site Treatment Plan (STP) – remove waste from all tanks by FY 2028
- Tank Closure and waste disposition must meet Section 3116(a) of the Ronald W. Reagan National Defense Authorization Act for FY 2005
- Facilities operated under State-issued permits
- Total radioactivity sent to Saltstone vaults limited to 1.4 million (M) Curies (Ci)

### **Next Five Years**

- Vitrify over 800 canisters of high level waste (3,400 total)
- Complete DDA and ARP/MCU interim salt processing
- Recover Tanks 41, 48, and 50 for SWPF feed preparation
- Recover Tank 42 for DWPF feed preparation
- Prepare feed for SWPF operations
- Complete bulk waste removal for 3 liquid waste tanks
- Complete closure of 2 liquid waste tanks
- Fill Saltstone Vault 4 and construct and fill 3 additional Saltstone Vaults
- Support H-Canyon in accomplishing its missions

### **Five to Ten Year Horizon**

- Vitrify an additional 1,100 canisters of high level waste (4,500 total)
- Start shipping DWPF canisters to the Federal Repository
- Start-up and operate SWPF to rapidly treat and disposition salt waste
- Construct and fill 12 additional Saltstone Vaults
- Complete bulk waste removal for 13 additional non-compliant liquid waste tanks
- Complete closure of 6 additional non-compliant liquid waste tanks
- Closure of F-Tank Farm well underway
- Continue to support H-Canyon in accomplishing its missions

### **Summary**

- The Savannah River Site (SRS) is moving forward with safe treatment, stabilization and disposal of liquid and solid legacy wastes
- Strategies are in place for completion of solid waste mission by 2016 and liquid waste mission by 2028
- SRS appreciates and values the input and involvement of the SRS Citizens Advisory Board and stakeholders in effectively meeting the challenges still before us

The entire presentation is available the SRS CAB website.

CAB Members inquired about vault size, shipping canisters, and timelines after the presentation.

Recommendation # 256, Infrastructure Investment in System Planning was discussed. A motion to approve the recommendation was made by Alan Eckmyre and was seconded by Mary Drye. The motion was unanimously approved by the 22 CAB members present. Specifically, the recommendation states:

The SRS CAB recommends that DOE by September 23, 2008:

4. Provide an overview of how infrastructure risks on operations, closures, and regulatory milestones are evaluated over the entire Liquid Waste System.
5. Provide assurances that the planned operating capacity of the Liquid Waste System is adequate to meet the planned liquid waste mission by 2028 and that all efforts have been made to identify any major existing equipment failures and risks that could potentially jeopardize this end date.
6. Identify, quantify and communicate any existing limiting equipment, process or facilities from Recommendation #2 above. For this equipment, the SRS CAB is interested in the operational criticality of equipment; the most likely modes of failure; the effects these failures might have on other equipment and operational commitments; and what critical spares will be required in the event of a failure. The emphasis should be on how impacts to equipment or facility failure affect the functional ability of the entire Liquid Waste System to perform its mission and to meet regulatory milestones.
7. Identify any new (or larger size) equipment or facilities that could be installed to actually increase the capacity of the Liquid Waste System to accelerate the 2028 mission and note the infrastructure investments required to achieve this increase in capacity.

The entire recommendation is available on the SRS CAB website.

*Strategic & Legacy Management Committee, Madeleine Marshall - Chair*

Ms. Madeleine Marshall, Chair for the Strategic and Legacy Management (S&LM) Committee informed the CAB of the August 19<sup>th</sup> committee meeting scheduled topics will be and SREL update by Dr. Bergman; SRS Land for Army training; and Carolina Bays.

*Presentation – Quarterly Performance Measures Update – Doug Hintze, DOE-SR*

Mr. Doug Hintze, Acting Assistant Manager for Integration and Planning, provided an update of the Quarterly Performance Measures.

- Performance measures are an indicator of how Environmental Management (EM) is accomplishing its cleanup mission.
- These measures are quantitative and focus on the accomplishment of risk-reducing actions that lead to completion of site cleanup.
  - *consistent with each sites baseline and milestones.*
- Each measure is tracked in the context of the total measure (life-cycle) necessary to complete cleanup of each site as well as the EM program as a whole.

Mr. Hintze's entire presentation is available on the SRS CAB website.

*Nuclear Materials, Manuel Bettencourt – Chair*  
*Stan Howard – Vice Chair*  
*Judith Greene McLeod – Vice Chair*

Mr. Manuel Bettencourt, Nuclear Materials (NM) Chair, updated the CAB on recent activities of the NM Committee. He stated that the GAO report will be distributed to the CAB members in the following week. Members will be

*Presentation – Surplus Nuclear Materials and Spent Nuclear Fuel Disposition Strategy – Allen Gunter, DOE-SR*

Mr. Gunter gave an overview of the surplus Nuclear Materials and spent nuclear fuel disposition strategy the entire presentation is available on the SRS CAB website.

*Public Comments*

Tom Clements, Friends of the Earth, he asked if changed preferred alternative have to be noted somehow in the Federal Register? Or will it be noted somehow when the draft EIS comes out.

Alan Gunter – stated that based on his understanding it does not have to be listed in the Federal Register.

*~ End of Public Comments ~*

Meeting Adjourned 3:50 p.m.

*Handouts*

**Handouts listed herein are available by contacting the SRS Citizens Advisory Board at 1-800-249-8155.**

Agenda  
SRS CAB Recommendation Status Report  
Infrastructure Investment in System Planning (Recommendation #256)  
Infrastructure Review  
FFA Appendix E Update  
Cleanup Progress – Clearing the Way for the Future  
Quarterly Performance Measures Update  
Surplus Nuclear Materials and Spent Nuclear Fuel Disposition Strategy