

**Savannah River Site
Citizens Advisory Board
Meeting Minutes
January 25-26, 2010
Hilton Head, S.C.**

Monday, January 25, 2010, Attendance

SRS CAB Members

Emile Bernard
Manuel Bettencourt
Don Bridges
Ed Burke
Art Dombay
Kathe Golden
Judith Greene-McLeod
Rose Hayes
Stan Howard
Kuppuswamy Jayaraman
Ranowul Jzar
Cleveland Latimore
Denise Long
Madeleine Marshall
Marolyn Parson
John Snedeker
Elizabeth Skyee Vereen
Jerry Wadley
Sarah Watson
Alex Williams

Agency Liaisons

Al Frazier, GADNR
Robert Pope, EPA
Terry Spears, DOE-SR

Regulators

Shelly Wilson, SCDHEC
Heather Cathcart, SCDHEC
Van Keisler, SCDHEC

DOE/Others

Tiajuana Cochranauer, USFS-SR
Becky Craft, DOE-SR
Nishka Devaser, NRC
Karen Guevara, DOE-SR
Doug Hintze, DOE-SR
David Hoel, DOE-SR
Sheron Smith, DOE-SR
Gregory Suber, NRC
David Williams, EPA
Kyle Bryant, EPA
Helen Belencan, DOE-SR
Wade Whitaker, DOE-SR

Contractors

Nancye Bethurem, SRR
Ronald Campbell, SRR
Elmer Wilhite - SRNL
Ginger Dickert, SRR
Steve Thomas, SRR
Mary Flora, SRNS
Jeanette Hyatt, SRNS
Bill Brizes, V3T
Jenny Freeman, V3T
Aaron Stevens, V3T
Erica Williams, V3T
Clay Miller, AAVS
Scott Doss, AAVS

Stakeholders

Tom Clements
Anna Cornelious
Mel Galin
Tedda Howard
Mary Robinson
Cris Steele
Jean Sulc
Eddie Watson, V3T

Mr. Terry Spears, DOE, served as the Deputy Designated Federal Official (DDFO). Ms. Jenny Freeman served as Meeting Facilitator.

The Facilitator reviewed the ground rules, meeting procedures, and the agenda.

CAB member Manuel Bettencourt provided a brief update on the medical condition of CAB member Joe Ortaldo.

SRS CAB members Ric Castagna, Lee Harley-Fitts, Mercredi Giles and Beverly Skinner were unable to attend. SRS CAB member Joe Ortaldo was unable to attend due to medical reasons.

Presentation of Topics for CAB Consideration - Mr. Terry Spears, DOE

Mr. Spears introduced himself as the Assistant Manager for Waste Disposition Projects and the co-Designated Deputy Federal Official.

He stated his objective would be to present the 2010 plans and activities that are anticipated during the year so the CAB can develop a work plan. He stated DOE provides input received from program and project managers to the CAB each January. He explained according to the Federal Advisory Committee Act (FACA), advisory boards should only focus on topics requested by DOE.

He addressed the area of Facility Disposition and Site Remediation. He highlighted project technologies, the K Area Cooling Tower decommissioning as well as the Heavy Water Components Test Reactor (HWCTR) and its decommissioning.

He discussed the provision of annual and as-needed updates on topics such as the National Environmental Policy Act (NEPA) and other regulatory interfaces, FFA Appendix E, Integrator Operable Units Program, Remedial Actions particularly with Four Mile Branch and M Area Groundwater Remediation activities. He addressed a number of operable unit project updates as well as the Chemical Metallurgical Pits Remediation status. He discussed preserving infrastructure. He stated DOE would like to update the CAB on progress regarding biomass for energy. He addressed land management, Forest Service, D-Area, M-Area, R-Area, and P-Area.

Mr. Spears stated the area of Waste Management had been divided into two major categories; solid waste and liquid waste. He stated in the area of solid waste, the major activity of focus during fiscal year 2010 would be the accelerated disposition of Transuranic (TRU) Waste utilizing American Recovery and Reinvestment Act (ARRA) funding. He stated the Site generates a (large volume) of mixed low-level waste (MLLW) and low level waste (LLW), with the goal to manage that waste and ensure its disposition in a timely manner.

He discussed liquid waste management and provided a gear chart to reflect the various areas of responsibility in terms of liquid waste processing and highlighted several projects including Waste Removal, Tank Closure, Salt Waste Treatment, Saltstone and Enhanced Chemical Cleaning.

He addressed the area of Nuclear Materials and displayed a list of activities in the Nuclear Materials program. He addressed F Area operations, and noted the continued disposition of depleted uranium oxide as well as the clean up of 235-F. He stated F Canyon would continue processing TRU containers. He discussed H Area projects such as receipt and disposition of plutonium and infrastructure upgrades. He addressed K Area operations and highlighted L Area operations such as the FRR/DRR program and the spent fuel program.

He addressed the area of Strategic and Legacy Management. He stated DOE has a very robust planning process at the Site. He noted DOE not only wants to keep the CAB informed, but to seek input and discuss activities. He discussed specific planning activities such as the Site Strategic Plan, the Lifecycle Baseline, and the Legacy Management Plan. He addressed budget formulation and execution. He stated a new Quarterly Performance Measures Report has been launched. He stated that would continue through the year with improvements made to the performance measures. He addressed ARRA activities. He highlighted risk management. He stated the SRS Curation Facility is being executed under ARRA and is scheduled for completion in 2010. He stated EM is intent on reducing its footprint at SRS and highlighted the Energy Park Initiative and Task Force.

He encouraged the CAB work plan to provide a comprehensive menu of activities and items. He asked that any additional topics added be identified by the appropriate committee chairperson and raised to the CAB Support Team in writing.

He outlined the mission of the CAB in summary and noted the CAB's interest, involvement and recommendations.

CAB member Art Domy addressed Strategic Legacy and Management and suggested a re-characterization of issues such as the existing infrastructure and adaptive reuse of portions of the Site or existing facilities or

capabilities of the Site. Mr. Spears stated they have tried to make use of existing facilities for new missions. He stated they would be covered.

CAB member Kathe Golden asked for a clarification under Waste Management where it states that 400 canisters would be poured per year and Mr. Spears had stated 198 for this year. Mr. Spears apologized for the confusion and stated one of the contract objectives for Savannah River Remediation (SRR) is to ramp up production upwards of 400 canisters and stated the gear chart was a reflection of their commitment to do that.

CAB member Kuppuswamy Jayaraman referred to environmental monitoring under Strategic and Legacy Management and noted under environmental pollution control activities problems associated with the ecosystem and impacts on health. He stated it might be good to have data presented regarding health monitoring in the region. Mr. Spears stated there is an Annual Environmental Report, which captures monitoring activities. He stated it is a comprehensive reflection of what is going into the environment. He stated the Site doesn't monitor health effects and things like that.

Mr. Wade Whitaker, DOE-SR, stated the environmental report addresses the cumulative dose from all different media such as air and water. He stated there was a study by the Agency for the toxic substances and disease registry that was done several years ago. He offered to make that report available.

CAB member Stan Howard asked Mr. Spears to address the plutonium storage and the participation for the Blue Ribbon Panel for permanent disposal. Mr. Spears stated there is no Blue Ribbon Panel, that it has been enacted, but the Administration is still working to put the panel together. He stated he would like to defer that, and that it is premature to include it in the work plan. Mr. Spears stated plutonium storage was covered under K Reactor.

CAB member Manuel Bettencourt referred to the Blue Ribbon Panel, and stated it's being handled outside of EM. He stated that while he doesn't have any problem with deferring that item, the public is very interested in what's going to happen.

CAB member Rose Hayes stated she did not think it would be premature to address the Blue Ribbon Panel. She referred to Recommendation Number 263, which asks to be updated on the Blue Ribbon Panel. She discussed the response, which addressed only three of the seven items listed. Mr. Spears stated it would be hard to plan a path forward for plutonium disposition related to a Blue Ribbon Panel when they haven't met. He assured when the panel is implemented, that it would be shared with the CAB. He stated it's not clear whether EM would have a role in the implementation of the panel.

Presentation -2009 Work Plan Review - Bill Brizes, CAB Technical Advisor

Mr. Brizes stated the primary purpose of his presentation is to remind the CAB of the accomplishments achieved in the past year. Mr. Brizes provided a presentation outline.

He stated the past year had been a very busy and productive year for the CAB.

He stated the Nuclear Materials Committee conducted four meetings; the Facilities Disposition and Site Remediation Committee had three meeting as well as an extensive technology workshop in November; the Strategic and Legacy Management Committee had four meetings; and the Waste Management Committee had seven meetings for a total of 18 committee meetings in the last year. He stated there were six full board meetings as well as workshops, an educational and process retreat, and on-site tours at the Savannah River Site.

He reviewed nine recommendations made by the CAB in 2009, which were presented to the Department of Energy and provided a list. He discussed the status of all SRS CAB recommendations.

He outlined a list of topics that were to be considered in the 2009 Work Plan for the Strategic and Legacy Management Committee, including presentations and recommendations.

He reviewed the topics chosen by the Facilities Disposition and Site Remediation Committee for 2009. He outlined the presentations and noted the extensive Soil and Water Technology workshop. He discussed the recommendations, including joint Recommendation 264 with the Waste Management Committee.

He discussed the work plan topics for the Waste Management Committee. He reviewed the large number of presentations for the Committee and discussed the recommendations that came out of the Committee, noting two joint recommendations.

He reviewed the work plan topics of the Nuclear Materials Committee for 2009. He discussed the presentations that were made and reviewed the recommendations made including a joint recommendation with the Waste Management Committee.

He provided a summary of presentations that were made at the full board meetings by month.

He presented a scorecard comparing the number of topics considered per committee and the number of topics addressed. He noted the overall total as 77 topics that were identified in the work plan with 67 of them being addressed.

He concluded by stating the CAB had met its goals for 2009.

CAB member Manuel Bettencourt complimented Mr. Brizes on his excellent summary. He asked if the ten topics that weren't covered are available for review. Mr. Brizes stated he had those available for later discussion.

CAB member Art Domy recognized the Facilitator, staff, as well as many DOE and contractor personnel for their involvement and noted his appreciation.

CAB member Don Bridges stated it would be interesting to make a comparison between this CAB's list of accomplishments with other Boards.

Administrative Committee Report - Sarah Watson, Chair

CAB member Sarah Watson stated the Administrative Committee held a working meeting earlier in the day where several things were covered. She provided an overview of the information that was covered.

She stated there is a benevolent fund called the Sunshine Fund. She explained the CAB supports it, and Denise Long has volunteered to handle the fund.

She discussed the Speakers Bureau, noting there is a demand for CAB members to make presentations in the community. She noted more information would be provided as the Speakers Bureau is developed.

She stated Stan Howard continues to monitor the mentoring program and has requested information from both mentors and mentees.

She discussed retention of institutional memory and emeritus members. She stated there is a system in place to handle emeritus members and requests from working committees regarding securing the expertise of an emeritus member on a case-by-case basis. She stated a statement would be provided in regards to this.

She stated there would be an election of committee chairs the following day.

She stated the CAB's website has been tweaked and a presentation would be given the following day.

She discussed student involvement and outreach. She stated there are systems in place to handle student involvement.

CAB member Manuel Bettencourt addressed the election procedures. CAB member Sarah Watson stated there would be further discussion regarding that matter at the next Administrative Committee meeting. She explained she had already communicated the procedure to be utilized.

Nuclear Materials Committee - Don Bridges, Chair

CAB member Don Bridges explained the Nuclear Materials Committee deals with those items that are stored, generated or dispositioned on site.

He displayed the charter, and outlined the purpose.

He stated there are four ongoing recommendations. He explained Recommendation 266 was issued in September of 2009 and a response had been received to that, and it remains open. He stated Recommendation 263 is relative to plutonium, spent nuclear fuel, and vitrified high level waste and was issued in May and is a joint recommendation with the Waste Management Committee. He discussed Recommendation 259 relative to processing nuclear materials in H Canyon, which was issued in November 2008. He stated Recommendation 250, plutonium consolidation, was issued in November 2007.

He discussed Recommendation 266, noting that DOE is doing an ongoing alternative study that deals with both spent nuclear fuel and plutonium disposition. He stated there would be an update the following day, and anticipated a summer 2010 schedule for issuance of that.

He stated part of Recommendation 263 is tied up with the Blue Ribbon Panel that deals with the Federal Repository. He stated they are anticipating a response from DOE in early 2010, the alternative study, but it may be subject to some delay.

He explained Recommendation 259 pertains to the GAO Report that addressed the processing of additional materials. He explained there were two open items; the documented safety analysis for H Canyon, and the headquarters group that dealt with nuclear materials consolidation and the coordination on that. He stated they are expecting a response in early to mid 2010.

He addressed Recommendation 250, which is the oldest of the recommendations, related to plutonium consolidation. He stated there is a supplemental EIS to be developed, and it is anticipated sometime in 2010.

He addressed the recent news stories concerning depleted uranium. He stated depleted uranium is a low radiological hazard material, and supplied a brief history. He referred to depleted uranium as "nuisance material" which is not a great hazard, but it does need to be dispositioned. He explained it is presently stored in 55-gallon drums in a warehouse setting. He stated at one time, the Site had 36,000 55-gallon drums, and in September the total was reduced to 16,000, and is presently at just slightly over 10,000 drums. He noted a recent shipment to Clive, Utah and the question of the suitability of disposition of depleted uranium. He explained that is on hold for at least 60 days and could represent a potential delay for depleted uranium.

He summarized the Nuclear Materials update. He stated three of the four recommendations are tied closely to plutonium disposition and the spent fuel study. He stated Recommendation 259 should be closed in the next few months; Recommendation 263 would probably be delayed for several months; and Recommendations 250 and 256 could be closed in a matter of months. He stated depleted uranium would be a subject of focus.

He stated the Nuclear Materials Committee draft work plan is consistent with what Mr. Spears presented earlier. He reviewed the proposed work plan, and suggested the work plan be adopted.

CAB member Stan Howard asked if Other Nuclear Materials Activities Efforts included spent fuel rods from foreign countries. CAB member Don Bridges stated that is included in the spent fuel program.

Mr. Bill Brizes referred to Spent Fuel Facility Upgrades, and asked if that was a new item. CAB member Don Bridges stated they are upgrading casks in L Area presently. Mr. Bill Brizes stated that item wasn't on the 2009 plan.

CAB member Art Domy asked about the spent nuclear fuel swap with Idaho. CAB member Don Bridges stated that while it's a good idea, it's not a pressing matter, but does have some slight degree of urgency in his opinion.

Mr. Tom Clements addressed the plutonium consolidation in the alternative study and the supplemental EIS, and asked what category it falls in. CAB member Don Bridges stated it would fall under any of the plutonium studies, but it was included under Additional Nuclear Materials. Mr. Clements further addressed the depleted uranium issue.

CAB member Don Bridges addressed the seven main topics to include plutonium storage and consolidation; facility upgrades in K Area; plutonium disposition program; enriched uranium disposition program; spent nuclear fuel storage and disposition program; Canyon /HB-Line processing activities, capabilities and schedules; and other nuclear materials activities and efforts.

Facilities Disposition and Site Remediation Committee - Dr. Kuppuswamy Jayaraman, Chair

CAB member Kuppuswamy Jayaraman stated the Facilities Disposition and Site Remediation Committee deals with issues relating to the Federal Facility Agreement, risk management, risk assessment, the regulatory process and other cost-cutting issues that pertain to environmental restoration. He stated the Committee also follows deactivation and decommissioning actions taken to reduce risks and costs following the shutdown of an industrial radioactive or nuclear facility. He introduced his Committee members and thanked them for their assistance.

He stated last year was a fruitful year for the Committee, and he thanked the DOE-SRS subject matter specialists for their cooperation.

He stated the Committee has two pending recommendations; the ARRA footprint reduction, which was a joint recommendation with Waste Management and the groundwater plume update to the public.

He addressed the Committee's 2010 proposed work plan. He compared the work plans for 2009 and 2010, stating the same topics are followed, with some additions. He highlighted the K Area Cooling Tower Decommissioning and the Heavy Water Components Test Reactor Project (HWCTR). He addressed Site infrastructure such as changes in buildings, roads, electrical, water systems and others. He discussed in detail a number of topics the Committee would address in the coming year.

He addressed updates on operable unit updates on P, R and D Areas. He anticipated a presentation on the HWCTR Project status. He stated the Committee would address the soil and groundwater technology support.

He stated there would be a special public workshop on enhanced sampling and characterization of technologies.

He invited his Committee members to make any additional comments necessary.

CAB member Madeleine Marshall stated attention paid to ARRA projects over the past year has been divided between the Facilities Disposition and Site Remediation Committee and the Strategic and Legacy Management Committee. She stated as these projects are reviewed, it should be noted which accomplishments could be attributed to ARRA funding.

She pointed out the Forest Service is an area that the Strategic and Legacy Management Committee has typically had on their list due to the overall land use aspect of the work that the Forest Service does. Mr. Terry Spears stated they are certainly receptive to maintaining that in the Strategic and Legacy Management Committee.

CAB member Kuppuswamy Jayaraman noted each committee looks at topics from a different point of view.

CAB member Madeleine Marshall stated one of the things that is built-in to the Strategic and Legacy Committee is to look at cross-cutting topics and issues.

She addressed biomass for energy, and stated the Strategic and Legacy Management Committee was tasked with the responsibility of reviewing the production and availability of biomass and whether there was going to be sufficient biomass available to supply the new plants whereas the Facilities Disposition and Site Remediation Committee reviewed the plants themselves.

CAB member Emile Bernard stated he had just learned about some of the technology development activities that are ongoing within these programs. He suggested pulling out the technology development activities and include it as another topic to be presented in itself, with perhaps a semi-annual review of the progress. CAB member Kuppuswamy Jayaraman stated that is being done to some extent, but would discuss how best to incorporate it.

Mr. Wade Whitaker stated the topics of Forest Service, biomass and infrastructure really don't belong in Facility Disposition and Site Remediation. He suggested the CAB consider placing those topics under the purview of the Strategic and Legacy Management Committee.

CAB member Denise Long asked in light of Mr. Whitaker's comments if those three topics could be covered by both committees in a joint review. CAB member Manuel Bettencourt stated with the new meeting format of joint meetings, that could be a possibility; however, he stated it should be assigned to one committee or the other.

Strategic and Legacy Management Committee - Madeleine Marshall and Judith Greene-McLeod, Co-Chairs

CAB member Madeleine Marshall thanked those who have worked with the Committee over the last year.

She stated the Committee has four recommendations on the books, and they did receive a response to Recommendation 267 on November 24, 2009. She stated Rod Rimando had given a presentation regarding specific issues in the recommendation.

She addressed the three older recommendations. She stated there would be a presentation on Recommendation 265 the following day, and there was a lot of progress being made there. She discussed Recommendation 262 on future missions. She stated Recommendation 261, the budget process improvement, was a recommendation that addressed several other recommendations, which were closed. She anticipated being able to close that recommendation very soon.

She then turned the report over to CAB member Judith Greene-McLeod.

CAB member Judith Greene-McLeod stated the next committee meeting would be February 9, 2009 at three to five p.m. at the Marriott in Augusta, which is a new place and time.

She addressed a recent meeting with Mr. Doug Hintze where work plan ideas were discussed. She stated Mr. Hintze provided a month-by-month rundown of useful topics. She addressed site planning, and stated there was an upcoming EM reorganization. She discussed updates on the integrated priority list. Mr. Spears stated the EM restructuring is a valid topic that should be added to the list. CAB member Judith Greene-McLeod addressed the legacy management aspect of the site and stated they would like annual updates from SRNL, SREL and the Forest Service. She also addressed an update on environmental liability. She stated the Committee would also like to be apprised of what the U.S. Army's activities are on the Site.

CAB member Madeleine Marshall stated there were two items on the list that don't appear on this year's list, one of which was the Environmental Justice Program. She stated she would like to see that some place. She also addressed environmental monitoring, and asked that it doesn't fall off the list.

She discussed the SRS Strategic Plan, and noted the topic of the energy security mission of DOE, which is aligned with the EM mission of reviewing alternative energy utilization at the Site, as well as efficiencies at the Site, along with research that is being done by SRNL. She stated this is a mission of EM, and recently a presentation regarding the Smart Grid had been approved.

CAB member Kuppuswamy Jayaraman suggested setting a framework of subjects to be dealt with.

CAB member Ranowul Jzar stated while a reminder of the boundaries is important, she felt what has made the CAB successful is the ability to step beyond occasionally in dealing with other issues. She expressed concern about stringent restrictions.

CAB member Marolyn Parson suggested Mr. Spears and Mr. Brizes work together to take the work plan and number the topics for each committee and designate those in a brief manner. Mr. Brizes stated he had also considered putting a matrix together for each of the committees.

CAB member Manuel Bettencourt suggested committee chairs start with what DOE had presented and then proceed with the same outline form.

Mr. Spears stated his list was intended to be a comprehensive list, not necessarily a one-for-one correspondence to a work plan. He encouraged the work plan be focused on what the CAB sees as high priority work and issues. He stated the work plan is intended to help focus energy and efforts.

CAB member Alex Williams stated in considering the overlapping of topics, a committee's name change could be an option as well.

Waste Management Committee - Art Dobby for Joe Ortaldo, Chair

CAB member Art Dobby gave a brief overview of the topics to be discussed in his report.

He stated there was a joint committee meeting with Waste Management and Nuclear Materials in early January. He stated it was a well-attended meeting where they received a presentation on Saltstone Performance Assessment. He stated as part of the presentation there was an SRS tank closure document review process, and he gave a brief overview of that document review process. He noted representatives from the NRC attended the meeting via the newly established E-meeting capability.

He discussed an upcoming tour, which would include interim processing capabilities, DWPF, and the Salt Waste Processing Facility (SWPF). He stated it is scheduled for February 23, 2009 at 10 a.m. He suggested arriving at 9:30 a.m. at the 700 Area for badging. He asked those who were interested in the tour to respond to an email from Sheron Smith.

He addressed open recommendations. He stated there are a total of ten open recommendations and zero pending recommendations. He discussed Joint Recommendation 264 with the Facilities Disposition and Site Remediation Committee, adopted by the Board on May 19, 2009, for additional financial support under the ARRA.

He discussed Recommendation 263 concerning the final disposition for spent nuclear fuel, surplus plutonium and vitrified high-level waste.

He stated some of the recommendations have aged.

He addressed the work plan. He stated CAB member Alex Williams is responsible for solid waste and he and CAB member Joe Ortaldo are responsible for liquid waste. He discussed liquid waste in detail. He referred to a previously displayed gear chart. He stated the projected 400 canisters a year is the sludge going into DWPF and vitrified. He stated the salt prep and salt processing is the output for the salt, with the salt waste having relatively modest amounts of the radiological inventory.

He addressed the TRU waste stream, including Pad 1. He stated the scope of TRU projects for disposal is covered by the Plan. He addressed newly generated hazardous mixed and low-level materials.

CAB member Don Bridges asked if TRU Pad 3 could possibly be listed as a specific item because of the critical nature as far as scheduling.

CAB member Art Dombly stated he would ask Mr. Bill Brizes to do that in his work up.

CAB member Art Dombly turned to liquid waste and reiterated they will be covering the processes reflected in the gear chart, as well as specific examples supplied by Mr. Spears such as different tank combinations.

He stated Tank 48 is an important issue because a change in schedule would impact the overall schedule for tank closure.

He asked Mr. Spears about the implementation plan for high level waste (HLW) management and the risk management plan. Mr. Spears stated it could be included. He stated it is included in the salt processing components in the gear chart, as well as in the general subject of tank space.

CAB member Art Dombly suggested revision five of the implementation for HLW and revision four of the risk management be included in the more detailed listing. He suggested support documentation should be a new topic. He suggested tank safety and risk should be included as well.

CAB member Manuel Bettencourt referred to a recent discussion concerning educating the general board about the Performance Assessment process.

CAB member Denise Long asked if scheduling is discussed or should be included. CAB member Art Dombly stated it is a good idea to include scheduling.

Ms. Shelly Wilson, SCDHEC, addressed the Performance Assessment and the Waste Determination, noting they are important documents, but they are more support documents as opposed to regulatory documents. She stated the main regulatory document is the closure plan that would be proposed and considered. She stated there would also be an FFA decision that accompanies the clean up portion.

CAB member Art Dombly asked if DHEC reviews an overall closure plan that DHEC approves. Ms. Wilson stated there is an overall closure plan and closure modules for each tank. CAB member Art Dombly further addressed the waste determination for tank closure. Ms. Wilson stated 3116 outlines a consultation process under the Federal law, but it is not specifically a regulatory process. CAB member Art Dombly stated Ms. Wilson correctly points out that the approval of the ultimate closure plan falls under DHEC, while NRC only does a waste determination consultation.

CAB member Stan Howard stated there was a public meeting concerning the long-term storage of elemental mercury, and there were seven sites chosen as perspective places for the elemental mercury. He stated he received a draft EIS recently, and while they have chosen Andrews, Texas as the repository for the mercury, they will seek public comments. He asked if that should be added as an item. CAB member Art Dombly stated it could be included under solid waste. Mr. Spears stated DOE would not object to including that in the work list in the appropriate place.

Ms. Karen Guevara stated there will be a public meeting on March 4, 2010 in Augusta regarding this subject and March 30, 2010 is the anticipated issuance date for the draft EIS.

CAB member Art Dombly stated elemental mercury isn't necessarily waste as much as product and storage. CAB member Kuppuswamy stated it should fall under Facilities Disposition and Site Remediation. Ms. Karen Guevara suggested it fall under Strategic and Legacy Management as elemental mercury is not a waste.

CAB member Stan Howard stated he received a brochure and CD concerning elemental mercury if anyone would like a copy.

CAB member Art Dombly suggested CAB member Joe Ortaldo have a chance to review everything.

Public Comments

Mr. Tom Clements with Friends of the Earth stated he would like to submit an information request through the CAB. He stated he was unaware there was a task force related to energy parks and he would like more information concerning that.

He addressed his comment he made at the combined committee meeting on the January 12, 2009 concerning the Open Government Directive that had been issued by OMB on December 8, 2009. He stated over the course of the past year, there have been various directives concerning openness and transparency. He stated the Open Government Directive is the strongest in language that he has seen directing agencies to become more responsive and provide information. He stated he views the role of the CAB as one of the cornerstones available to make sure the Department of Energy and the Savannah River Site are conducting affairs in an open manner. He noted his appreciation to the CAB for doing that and DOE's responsiveness to the CAB in providing information.

He stated there are things he feels are lacking. He stated he and his colleagues at the Alliance for Nuclear Accountability are going to pursue this. He addressed online information from agencies, and stated this function does not exist for DOE information. He requested the CAB ask DOE and Savannah River Site specifically what they are doing to provide more access to information. He provided an example concerning certain documentation. He suggested DOE is falling down in not providing documents that are not necessarily of a security nature, but more of a policy nature to the public.

In closing, he stated he appreciates the opportunity to attend CAB meetings.

~ End of Public Comments ~

CAB member Don Bridges commented the facility Mr. Clements alluded to is listed on the work plan that was covered.

There was a suggestion to amend the minutes to reflect the fact that there was a discussion concerning making the CAB's website more searchable.

The meeting adjourned at 5 p.m.

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Steve Thomas, SRR
Mary Flora, SRNS
Garry Flowers, SRNS
Sonny Goldston, SRNS
Jeanette Hyatt, SRNS
Sam Bhattacharyya, SRNL
Elmer Wilhite, SRNL
Ken McLeod, SREL
Bill Brizes, V3T
Jenny Freeman, V3T
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Stakeholders

Anna Cornelious
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Chris Reno
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Jean Sulc

Mr. Terry Spears, DOE, served as the Deputy Designated Federal Official (DDFO).
Ms. Jenny Freeman served as Meeting Facilitator. Mr. Alex Williams led the Pledge of Allegiance for the group.

SRS CAB members Lee Harley-Fitts, Mercredi Giles, Beverly Skinner, and John Snedeker were unable to attend.
SRS CAB member Joe Ortaldo was unable to attend due to medical reasons.

Approval of the Minutes

The CAB Chairperson opened the floor for any comments concerning the minutes. There being no comments, he called for a motion to approve the minutes. After receiving a motion and a second, the minutes were approved.

The Facilitator reviewed the ground rules, meeting procedures, and the agenda.

Department of Energy Update - Mr. Terry Spears, Assistant Manager for Waste Disposition Project

Mr. Spears introduced Mr. Jeff Allison.

Mr. Allison recognized the outgoing CAB members, Mercredi Giles and Beverly Skinner. Mr. Allison also recognized new CAB members from the previous year.

Mr. Allison acknowledged several 2009 accomplishments.

Mr. Allison discussed the Inspector General review at Savannah River and its completion at the end of December. He further discussed the recommendations that were laid out in the report. He reiterated his commitment to working to resolve any issues that need to be resolved.

Mr. Allison offered to take any questions.

CAB member Kathe Golden asked when the issues might be resolved and a final report issued. Mr. Allison stated the Inspector General had issued a final report and the Under Secretary had been tasked to create a corrective action plan in response to the report; however, no time had been set for that completion.

CAB member Don Bridges asked what was the underlying situation that prompted the investigation and report. Mr. Allison referenced the confusion between roles and responsibilities between DOE Headquarters and the field, and clarified those roles and responsibilities.

CAB member Rose Hayes asked what the substantial issues were and how they were being put to rest. Mr. Allison stated the substantial issues focused on ARRA and some of the deficiencies that surfaced as a result of an external independent review that was performed in August 2009. He stated corrections have been made, and progress is being made in obtaining a Certified Earned Value Management System from Savannah River Nuclear Solutions. He noted an upcoming examination of final data in anticipation of an independent team providing validation and certification.

CAB members Don Bridges referenced plutonium disposition and its status. Mr. Allison outlined the options regarding plutonium disposition.

Mr. Allison introduced Mr. Garry Flowers, the President and CEO of Savannah River Nuclear Solutions.

Savannah River Nuclear Solutions (SRNS) - Mr. Garry Flowers, President, SRNS

Mr. Flowers gave a brief history of his background. He discussed the changes in the management team and the good working relationship between them. He noted the monthly publication, which profiles accomplishments and goals. He invited interested parties to visit and tour the site.

He discussed the responsible use of funds, creating more efficient management techniques.

He addressed the shipment of 52 train cars of DOE waste to Utah, and stated the schedule would be met in removing all of the DOE drums from the Site.

He discussed the issue of safety, and stated they are close to five million safe hours since September. He noted the Dupont overview of the entire safety program, and the published reports.

He offered to address any questions.

In response to a CAB member question, Mr. Flowers addressed the number of jobs either created or retained.

CAB member Art Dombay inquired about the high priority challenges in the next 12-month period. Mr. Flowers discussed a safe working environment and the completion of missions funded by ARRA money. He further discussed the importance of EVMS certification.

CAB member Don Bridges asked about the future of the Site. Mr. Flowers discussed future visions. He emphasized the importance of the Lab.

Department of Energy Update - Mr. Terry Spears, DOE

Mr. Spears addressed the topic of safety, and referred to the SRS Take 5 for Safety, which is published weekly.

He discussed the conclusion of his tenure as DDFO, and stated Doug Hintze would serve in that role.

He spoke of public tours available at the Site, and encouraged those present to sign up for a tour on the website. He discussed the recent visit of Under Secretary for Energy, Dr. Kristina Johnson, of the Site. He stated she was very impressed and complimentary, and encouraged the continuation of such work.

He addressed waste disposition and the progress that is being made regarding both liquid and solid waste removal. He noted since January of 2009, over two million gallons of liquid salt waste has been processed from Tank 50 over to the Saltstone Facility. He noted DWPF ongoing processes and smooth operations. He discussed improvements to the Saltstone Facility. He addressed the progress of Tank 48, and discussed the award of a subcontract to Thor Treatment Technologies. He spoke of the Salt Waste Processing Facility, and the progress of construction of that facility by Parsons Infrastructure and Technology Group. He noted 46 of 73 walls in the facility have been completed. He discussed Solid Waste, noting since October over 400 cubic meters of TRU waste have been dispositioned. He addressed the F-Canyon drum remediation operations, and developments at H-Canyon. He discussed Nuclear Materials stabilization and disposition. He noted the completion of the Hanford Plutonium Consolidation Program in K-Area. He noted with respect to Nuclear Materials, L-Area received three domestic research reactor fuel casks. He touched on infrastructure needs and progress.

He outlined areas of completion, noting 368 of 515 waste units have been completed, and 249 of 985 facilities have been decommissioned. He stated footprint and risk reduction activities funded by ARRA continue, including the remediation of M Area, with expected completion between now and 2011.

He addressed the issue of environmental quality, and noted the Deputy Commissioner for Environmental Quality Control awarded South Carolina the South Carolina Environmental Excellence Program certificate to Savannah River Site's Wackenhut Services (WSI). He discussed the Energy Park Workshop held last August. He noted a second workshop is planned for late February 2010. He addressed the anticipated issuance of an official draft of the renewed Site wide-industrial storm water general permit by DHEC. He outlined the July meeting regarding the long-term management and storage of mercury as well as an anticipated environmental impact statement.

CAB member Stan Howard stated his research revealed all site tours for 2010 were booked. Mr. Spears stated there was a lot of public interest in site tours and it is his understanding they are booked up for a long period of time. He encouraged everyone to keep trying in the event of cancellations.

CAB member Rose Hayes referenced Public Law 107.107, Section 3155, which stipulates the Energy Secretary would develop a plan providing for the removal of defense plutonium and materials, and asked Mr. Spears to describe the plan and its status. Mr. Spears suggested deferring that to Allen Gunter during his presentation for clarification.

CAB member Madeleine Marshall asked for a date for the Energy Parks Workshop at the end of February. Ms. Guevara noted plans are still being finalized.

Environmental Protection Agency Update - Mr. Robert Pope, EPA

Mr. Pope introduced several people with EPA; Kyle Bryant, Community Involvement Coordinator, Anna Cornelious, Techlaw contractor, and David Williams. Mr. Pope stated EPA is hiring two temporary project managers to handle ARRA work. He noted the EPA had not had a Regional Administrator appointed in Region IV at this point, although there is still an Acting Regional Administrator.

He referenced the recent news reports concerning Savannah River Site. He stated that although some of the larger projects have not been initiated quite as quickly as hoped, it has allowed time to get all decision documents in place. He addressed the Environmental Bulletin Updates from Mr. Sauerborn.

He discussed liquid waste and the entire tank program.

He referenced the amount of work that would happen through ARRA. He addressed long-term work that would have to be completed as a result of ARRA.

He provided an update on the Job Training Initiative, noting a second round of it would commence. He stated the first planning meeting for the next round was held last week. He encouraged the CAB members to join in community outreach by evaluating candidates for the Job Training Initiative. He requested all interested CAB members to see Ms. Anna Cornelious.

South Carolina Department of Health and Environmental Control - Shelly Wilson, SCDHEC

Ms. Wilson addressed increased activities in the areas of Site-wide clean up and high level waste. Ms. Wilson noted in December and January in the clean up area, there were two record of decision related documents signed. Ms. Wilson stated a record of decision is a key milestone in the clean up arena.

Ms. Wilson referenced the HLW area, noting in December of last year, SCDHEC issued comments to the Department of Energy on a draft industrial wastewater general closure plan for the F Area Tank Farm. She discussed the document. She clarified the relationship of the general closure plan to the waste determination that is conducted in relation to the Nuclear Regulatory Commission (NRC).

She stated SCDHEC conducted a stakeholder meeting for the Savannah River Basin to get input from stakeholders regarding quality and quantity issues related to the Savannah River. She noted the development of a Water Council to focus on ongoing issues.

Ms. Wilson deferred to David Wilson regarding the Water Council, and whether or not it includes the State of Georgia.

Mr. Wilson stated Georgia has three different councils in the Savannah River Basin. He anticipated the councils from South Carolina and Georgia working together.

CAB member Marolyn Parson asked what the composition of the council would be. Ms. Wilson once again deferred to Mr. Wilson.

Mr. Wilson reported there are several different interested parties in the future use of the Savannah River. He stated the idea behind the council would be to bring representatives from many groups together to work with both DHEC and the Department of Natural Resources. He further stated the CAB would be kept up to date regarding the council.

CAB member Don Bridges asked if there was a similar degree of interest in the other major rivers in South Carolina. Mr. Wilson stated that any river where there is a joint interest with another state, the level of interest is elevated. He described the size of the Savannah River Basin and mentioned several interested parties. CAB member Marolyn Parson asked if staff continues to be affected by budget reductions. Ms. Wilson reported that is still a concern regarding the loss of positions.

Mr. Wilson stated the budget for both the environmental side and the Agency as a whole has been hit hard over the last two years, with a reduction of almost 40 percent in state operating money. He referenced agency positions have decreased from almost 5900 slotted positions to approximately 3700.

Georgia Department of Natural Resources Update - Mr. Al Frazier, GADNR

Mr. Frazier referenced the recent release of the budget from the Governor's office, and addressed further reductions in budget for all state agencies. He reported the GADNR current 2010 fiscal year budget is \$262 million. He stated the Governor's recommendation for fiscal year 2011, starting July 1, 2010, is down to \$253 million. He stated Environmental Protection Division (EPD), utilizes roughly 50 percent of the Department of Natural Resources Division budget. He outlined the challenges of managing with a reduced budget.

Mr. Frazier discussed the Hazardous Waste Trust Fund and expenditure of that money to clean up hazardous waste sites.

He referenced land conservation, stating that DNR buys land to preserve as protected areas. He discussed the decrease in acreage purchased.

He discussed the number of dollars returned to the State per dollar spent by the State on fisheries management and fishing, noting in 2008 for every dollar the State spent, \$143 was returned to the State. He stated that has risen to an estimated \$279 in 2010.

He touched on abandoned vessels and the challenges they cause, as he described a recent incident involving a shrimp boat.

Mr. Frazier stated he is a member of a design team for the 2010 Prep Exercise, set to take place in April in Savannah, which is an oil pollution response exercise. He noted other participants include GADNR, SCDHEC, Coast Guard sectors, a Marine Safety Unit as well as a major oil company with a facility in Savannah, GA.

Public Comments

Mr. Tom Clements with Friends of the Earth from Columbia, South Carolina thanked the Department of Energy for openness in discussing ARRA spending.

He stated the Alliance for Nuclear Accountability does work around a number of DOE sites. He said the organization has taken the position that EM funding should be increased this year, and would lobby to that effect. He further stated they would be calling for cuts in the nuclear weapons budget on the NNSA side.

Mr. Clements referenced the recent Open Government Directive sent down by OMB for Agency response. He expressed concern regarding follow through with Secretary Chu's internal memos relating to openness.

Mr. Clements requested the presenters discuss the issue related to Saltstone Vault 4 or the CAB ask questions regarding that issue. He referenced the Defense Nuclear Facility Safety Board, and noted the weekly report for December 31, 2009 referenced an issue regarding Vault 4. He read a short paragraph from the report concerning a crack in the roof of Cell A.

Mr. Spears responded that issues with Vault 4 have been reported over a long period of time. He stated it was a legacy vault that was designed to hold the grout while it cured, and it does that well; however, there are some issues similar to those pointed out. He noted the roof was an add-on. He stated structural analyses of the vault have been performed and it is sound in terms of its structure. He assured the vault is stable and would continue to serve its purpose in a safe condition.

~ End of Public Comments ~

Chair Update - Manuel Bettencourt

CAB member Bettencourt stated he attended the Savannah River Site Biomass groundbreaking on November 30, 2009, and mentioned some attendees. He related he participated in a public interest group discussion for the Community Reuse Organization on December 4, 2009. He noted he would be attending the Waste Management Seminar in March 2010. He stated new member orientation would also take place in March. He welcomed Bill Brizes as Technical Advisor. He noted his appreciation for all the hard work the members had done.

Facilitator Update - Jenny Freeman

Ms. Freeman stated as of January 13, 2010, there are two pending recommendations, 17 open recommendations, 249 have been closed for a total of 268 throughout the history of the CAB. She stated she had a complete history of every recommendation should members be interested in reviewing them. She congratulated the CAB on the work they do.

Presentation - Saltstone Performance Assessment - Sherri Ross, DOE-SR and Steven Thomas, SRR

Ms. Ross introduced herself and noted her position with the Department of Energy in the Waste Disposition Project. She stated a workshop was held in July on performance assessment and offered additional workshops for the CAB, if desired.

Ms. Ross outlined the purpose of the presentation to provide an overview of the Saltstone Performance Assessment (PA). She stated the Saltstone facility is a low-level waste disposal facility. She welcomed any comments.

Ms. Ross presented a diagram of the Saltstone facility and the overall waste management.

She discussed the project funding under PBS 14.

She stated the Nuclear Regulatory Commission is responsible for monitoring low-level waste disposal, and a copy of the PA has been provided to them as well as SCDHEC.

Ms. Ross introduced Steve Thomas

Mr. Thomas introduced himself and noted his position as Deputy Manager for the Closure and Waste Disposal Authority Group. Mr. Thomas stated that group supports the Department of Energy in the development of closure documentation and then the defense of that documentation.

CAB member Don Bridges asked if the term Performance Assessment is a DOE term or a Savannah River term. Mr. Thomas described it as a term of art used throughout the industry, not just in DOE.

Mr. Thomas outlined his presentation, including the definitions of saltstone and a disposal cell, as well the definition of a Performance Assessment, along with conclusions.

He outlined the SRS waste systems utilizing diagrams. He described saltstone as a cementitious, non-hazardous waste form engineered for disposal at SRS. He provided a sample for review. He discussed the three main streams that feed into the saltstone facility through Tank 50 located in the H Tank Farm. He noted in fiscal year 2009, approximately 1.6 million gallons of material was transferred from Tank 50 to the saltstone production facility. He described the mixture of slag, fly-ash and cement.

He explained the process of constructing future disposal cells, and provided a diagram. He stated there are 64 overall future disposal cell plans of that design. He expounded on Vault 4, and discussed the crack previously described.

He displayed photographs of a future disposal cell. He explained the economical use of the new disposal cells.

Mr. Thomas defined a PA, Performance Assessment, which is a risk assessment tool used to inform closure and waste disposal decisions, focusing on modeling fate and transport of materials over a very long period of time, as well as providing the most likely consequences of planned actions. He then explained the idea of peak concentration.

Mr. Thomas outlined in detail the creation of the SDF PA and its process. He presented a copy of the PA, with volume one consisting of 663 pages of text. He also offered a copy via CD.

Mr. Thomas discussed the hybrid approach. He stated the PA has to produce a discrete value and utilize a probabilistic component.

He presented a conceptual model and explained the details, including the closure cap.

He displayed stream traces, representing the centerline of the plume of material that would leave the individual cells.

He then explained resident scenario pathways and intruder scenario pathways.

Mr. Thomas briefly described the conclusions and radiation dose perspective.

CAB member Don Bridges asked in light of the length of time as 10,000 years, how long would maintenance continue on a barrier. Mr. Thomas stated the assumption is 100 years of institutional controls.

Mr. Thomas introduced Nishka Devaser with the Nuclear Regulatory Commission.

Presentation - Saltstone Performance Assessment Review Plan - Nishka Devaser and Gregory Suber, NRC

Mr. Devaser thanked the CAB for the opportunity to speak. Mr. Devaser stated his goal is to keep the CAB informed on NRC's review of the Performance Assessment and to ensure the lines of communication stay open between the NRC and the CAB. He then outlined the objectives of his presentation, as well as the role of NRC at Saltstone and a brief history. He stated if NRC were to discover that one or more of the performance objectives are not being met, they would communicate with both the DOE and the state for compliance.

Mr. Devaser explained the NRC's responsibilities as monitoring saltstone production, disposal, disposal cell construction and review the 2009 Revised Saltstone Performance Assessment as a monitor.

He noted some contract support regarding technical understanding from the Center for Nuclear Waste Regulatory Analyses.

He then provided contact information to those present.

CAB member Don Bridges asked if the NRC was involved in the vault crack that was recently discussed. Mr. Devaser stated NRC takes quarterly monitoring trips out to the site, and they are aware of the crack and are monitoring it.

CAB member Rose Hayes asked about the number of cells NRC projects they would ultimately evaluate, and how would any non-compliance issue be handled. Mr. Devaser stated NRC is reviewing the cells throughout, and monitoring has no end date as long as waste is being disposed. He further stated if there were some non-compliance, a letter would be drafted to the parties involved, meetings would be held to try to reach a resolution, and if no resolution could be reached, NRC would proceed with a letter to Congress. CAB member Rose Hayes asked if there were licensing issues involved or any kind of legal actions that could be taken to remove authorization. Mr. Devaser explained in monitoring, the NRC is obligated to coordinate with the state as much as possible. He noted the state is the regulator and not NRC. He then deferred to Ms. Shelly Wilson.

Ms. Wilson explained there is a solid waste permit for saltstone and DHEC holds the permit as the regulator. She stated if NRC were to find something in non-compliance, they would send a letter to DHEC.

CAB member Rose Hayes asked for clarification regarding DHEC's actions regarding non-compliance. Ms. Wilson explained if NRC found non-compliance, they would send a letter to DHEC describing the non-compliance. She stated DHEC would review the permit and attempt to address the non-compliance through the permit. She stated the permit does not focus on radionuclides, but rather DHEC's authority is for the chemicals. She explained if there were a problem with a vault, if it affects the rads, it probably affects the chemicals as well, and could probably be addressed by DHEC through the permit. She addressed the enforcement process.

Ms. Ross further clarified the process regarding non-compliance.

Waste Management Committee - Art Dombay for Joe Ortaldo - Chair

CAB member Art Dombay reminded everyone of the upcoming meetings such as the Waste Management Committee meeting to be held February 23, 2010 at 5:30 p m. in Aiken. He stated there were also other committee meetings scheduled for February 9, 2010. He announced a Nuclear Materials Committee meeting would be held earlier in the day on February 23, 2010 at 3:00 p m..

He noted the Site liquid waste tour scheduled for Tuesday, February 23, 2010.

Nuclear Materials Committee - Don Bridges - Chair

CAB member Don Bridges stated the comments provided yesterday remain intact. He requested two changes be made to the work plan. He then asked for any comments.

CAB member Stan Howard asked if something else comes up under Other Plutonium Disposition Concepts, would they be addressed. CAB member Don Bridges suggested that would be covered under feasibility studies.

Presentation - Results of Plutonium Disposition/Spent Nuclear Fuel Alternative Studies - Allen Gunter, DOE-SR

Mr. Gunter introduced himself as the Senior Technical Advisor to the Assistant Manager for Nuclear Material Stabilization Project, Pat McGuire. He explained he would provide an update regarding the Plutonium Study Disposition Options and the Spent Fuel Disposition Options.

He addressed the plutonium study, and stated it was completed last fall, and contains two alternatives. He explained one is processing the plutonium through the H Area facilities and outlined the process. He stated the decision-making process would be curtailed until the spent fuel study was completed.

He stated the spent fuel study is ongoing, and outlined the team composition. He noted the draft report is out to the team for comments. He noted DOE Headquarters is indicating a decision would be made by year end.

He discussed the disposition strategy from the Savannah River Site perspective of processing spent fuel. He further explained based on schedules, spent fuel processing would begin by the end of the fiscal year. He discussed the processing of plutonium currently taking place.

Mr. Gunter explained the studies being conducted are optimization studies.

Mr. Gunter addressed a previous question from CAB member Rose Hayes regarding Public Law 107.107, and explained the alternatives of processing through H Area facilities or a disposition path, either vitrification or WIPP.

CAB member Manuel Bettencourt asked about the implications of batches not going through the Tank Farm. Mr. Gunter explained when the plutonium solution is dissolved in the Canyon it is in an acidic solution, meaning the plutonium stays suspended in the solution. He explained the high level tanks are caustic, and if you put plutonium in a caustic solution, you actually precipitate the plutonium out. He then addressed tank space. He noted a method of directly taking plutonium solution from H Canyon (instead of going through the waste tanks), then going directly to the sludge batch tank. He then noted spent fuel would go through the Tank Farm system as in the past.

CAB member Manuel Bettencourt asked if there would be any implications in terms of it being redefined as HLW if it is sent to the Tank Farm. Mr. Spears stated the answer is no.

CAB member Rose Hayes addressed the report sent to Congress on September 5, 2007, and asked if Congress had accepted vitrification of HLW as a final storage plan at SRS. She further inquired if vitrification is considered a permanent final disposition of plutonium or other materials. Mr. Gunter said the report sent to Congress stated a disposition pathway for the plutonium was to dissolve it, send it to the Defense Waste Processing Facility to be made into HLW glass, and be dispositioned with the HLW.

Mr. Spears stated there has been no decision relative to final disposal of HLW at Savannah River Site. He explained they are continuing to process through DWPF into glass into canisters until a permanent disposal option is identified.

CAB member Art Dombay asked if the study maximizes loading into the DWPF canisters by increasing the Pu loading under optimization for plutonium. Mr. Gunter stated when the study was performed; it was assumed a plutonium loading increase to 2,500 grams per cubic meter of glass.

CAB member Ed Burke asked if the motivation of Yucca Mountain was to try and reduce the amount of plutonium. Mr. Gunter deferred to Mr. Terry Spears. Mr. Spears stated they assumed an ever safe limit for plutonium in a spherical configuration and established a limit at 897 grams per meter cubed in a disposal facility in glass, which was included in the license application. He stated the 897 grams per cubic meter is what is in the license application and is still being reviewed by the Nuclear Regulatory Commission.

Strategic and Legacy Management Committee - Madeleine Marshall and Judith Greene-McLeod, Co-Chairs

CAB member Madeleine Marshall discussed the upcoming meeting on February 9, 2010, which would include the budget presentation concerning fiscal 2010 appropriation. CAB member Judith Greene-McLeod noted that meeting would be held in Augusta from 3:00 p.m. to 5:00 p.m.

CAB member Judith Greene-McLeod introduced Mr. Rod Rimando.

ARRA Update - Rod Rimando, DOE-SR

Mr. Rimando introduced himself as the Deputy Director for the Savannah River Recovery Act Program. He explained one of the items of particular interest was the scope, what work would be funded and the budgets. He stated it would essentially lay the groundwork for many of the following updates.

He outlined the topics to be covered during his presentation.

He explained in reference to jobs, there are 2,860 jobs at Savannah River Site, which is a combination of jobs saved and created. He addressed the method for reporting jobs, which would be full time equivalents.

He addressed the two major contractors, Savannah River Nuclear Solutions and Savannah River Remediation, and outlined subcontracts that have been awarded.

He referenced the costs as reported by Dr. Adams in November. Mr. Rimando displayed a chart outlining costs.

He addressed planning, including the External Independent Review (EIR) and the Independent Project Review (IPR).

CAB member Madeleine Marshall asked about the Earned Value Management System (EVMS) and its status regarding certification of the contractor. Mr. Rimando stated what gets certified is the contractor, not DOE, and they are in the process of addressing the EVMS audit, and have fully addressed the corrective action requests. He explained OECM is the entity within DOE that provides that certification.

He discussed the start of construction/remedial action approved for major projects, outlining critical decisions. Mr. Rimando displayed a portfolio breakdown, including P&R completion work, M Area and D Area work, Site-wide work, solid waste and TRU waste work, and liquid waste work. He explained the three main categories of work. He stated total operations are \$957 million. He discussed the portfolio reporting structure in detail.

Mr. Rimando outlined the major work activities that are being funded. He explained while the waste is being generated, they want to disposition it right away. He briefly touched on TRU and the acceleration of the waste. He addressed the liquid waste system. He addressed P Area and R Area operations as well as the P Reactor decommissioning project. He discussed the P Area Ash Basin Remedial Action Project and the R Area Ash Basin Remedial Action Project. He addressed the M Area and D Area Completion GPP and operations. He noted the K Area cooling tower would be demolished. He stated the last of the five capital asset projects is the decommissioning project of the Heavy Water Components Test Reactor.

CAB member Ric Castagna asked if there is a contingency concerning the DUO should the Clive, Utah facility refuse storage. Mr. Rimando stated there are plans to look for other off-site disposal capabilities.

CAB member Kuppuswamy Jayaraman referred to slide four and noted 73 percent of the total ARRA contracts for SRNS were awarded to small business sector contracts, and SRR was approximately 80 percent. He asked if that trend would continue in the future. Mr. Rimando stated there was a deliberate attempt to reach out to small business.

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

Mr. Hintze introduced himself as the Assistant Manager for Integration and Planning. He stated he would be providing the new and improved performance measures for the Savannah River Site.

He explained the performance measures are grouped into liquid waste, nuclear material and ARRA. He stated most performance measures would continue after the ARRA.

He displayed the DOE-SR performance measures report for the first quarter of fiscal year 2010 and explained it in detail. He explained the CAB would be kept up to date with any changes. He noted the best month ever had for salt solution processed was December 2009, and it would continue to improve.

Mr. Hintze discussed the projected 400-canister a year production, and a three-year lead time to construct a new glass storage building is needed. He stated he expected glass waste storage building number three to start receiving funding in fiscal year 2012.

CAB member Ed Burke asked when they would expect their target would reflect something significantly in excess of 200 canisters a year. Mr. Hintze deferred to Mr. Spears. Mr. Spears stated it would start accelerating in the next year and is documented in System Plan Rev 15.

CAB member Don Bridges asked if the 967 number reflected the number of storage positions in K Area. Mr. Hintze stated that is the number of containers that are actually being dissolved.

Mr. Hintze discussed ARRA funding numbers regarding SRNS and SRR.

He explained the ARRA end states and Site end states are different, and provided examples.

CAB member Art Dobby asked for the status of the footprint reduction acres. Mr. Hintze deferred to Mr. Rod Rimando. Mr. Rimando stated the footprint reduction represents the acreage on the 510 square mile reservation. He noted EM has completed the Legacy Clean-up Mission there, freeing up that property for other uses.

CAB member Don Bridges asked when metrics for other than ARRA might be provided. Mr. Hintze stated all of the work in the TRU program is in ARRA at the present time, and would be for the next three years.

He explained a report would be given quarterly, including the snapshot of progress.

Presentation - SRS Land Management - Keith Lawrence, USDA Forest Service-Savannah River

Mr. Lawrence introduced himself. He presented a brief history of the Forest Service's involvement with the Site, and reviewed the interagency agreement with DOE.

He stated the Site embodies approximately 200,000 acres in total, with 168,000 acres being characterized as general forest area where the Forest Service primarily operates. He stated approximately 16,000 acres are dedicated to industrial uses and approximately 14,000 acres that are research set aside areas. He further outlined the specified areas within the Site.

He discussed the management of threatened and endangered species. He stated the only plant meeting those criteria is the smooth purple coneflower. He spoke about the red-cockaded woodpecker, which is a threatened and endangered bird that occupies the pinelands of the south. He referenced the thinning of areas and increasing the size of the trees, as well as prescribed burning. He explained the importance of artificial nest boxes in expanding the population.

CAB member Rose Hayes asked the difference between groups with nests and those without nests. Mr. Lawrence explained groups with nests are those that attempted to fledge nestlings.

CAB member Don Bridges asked if that were a reflection of the growth and healthy nature of the woodpecker on the Savannah River Site or in the entire southeast. Mr. Lawrence stated throughout the southeast, particularly on federal lands, there are attempts to try to enhance the red-cockaded woodpecker. He noted the success on the Site due to the habitat and management practices.

He discussed the emphasis on reestablishing native pines and to remove those that weren't native.

He explained the objective regarding the reduction of hazardous fuels. He stated prior to 2004, prescribed burning averaged approximately 12,000 acres a year to reduce the risk of wildfire and reduce the brush, and the objective at the present time is approximately 22,500 acres a year. He addressed the partnership with Wackenhut (WSI) and the use of their helicopter for prescribed burns.

CAB member Kathe Golden asked if the prescribed burning would continue when the Biomass Plant comes online. Mr. Lawrence stated the burns would continue. He noted the Biomass Plant would provide the opportunity to perform forest management in areas where burning is not recommended.

CAB member Ed Burke asked if controlled burning in the power plant would provide a cleaner burn than just burning out in the open. Mr. Lawrence stated you wouldn't receive the positive ecological effects of a prescribed fire.

CAB member Don Bridges asked if when an area is harvested, is it essentially wiped out. Mr. Lawrence stated when clearings are done, most of the wooding material is removed, but in every case occasional hardwoods and snags are left.

Mr. Lawrence stated in conclusion the Natural Resource Plan is an effective plan.

CAB member Jerry Wadley asked if any changes were anticipated in the management plan in 2010. Mr. Lawrence stated the Natural Resource Management Plan, which was revised in 2005, sets the size and scale of what is to be completed in the next ten years.

Presentation - Savannah River National Laboratory Overview - Dr. Sam Bhattacharyya, SRNL

Dr. Bhattacharyya stated SRNL works around the globe since they engage in nonproliferation activities and are comfortable in doing so. He referred to the power sources in the Cassini and Juno missions and noted those power sources came from the Savannah River Site.

He provided a set of summary features of the Laboratory. He stated SRNL had been the safest of all 12 National Laboratories. He discussed the diverse core competencies in science and engineering, with a market niche in the R&D marketplace in applied science and technology. He explained the basic technologies were initially driven for EM, but have since been applied elsewhere. Dr. Bhattacharyya stated SRNL is among the lowest cost National Laboratory system compared to other National Laboratories.

CAB member Madeleine Marshall referred to low cost and asked if the addition of equipment or facilities would affect that statistic. Dr. Bhattacharyya noted he would be addressing deferred capitalization later during the presentation, and the avenues of recapitalization they are exploring.

He displayed the facilities for all types of materials, noting the specialization of the entities that need to be preserved at the Laboratory. He mentioned the strategy for the future is to have a core set of facilities inside the secure area, and expand into the outside area.

Dr. Bhattacharyya provided a quick snapshot of the organization, highlighting the three main business lines the Laboratory has.

He discussed the broad science and engineering proficiencies. He highlighted integrated chemical process development. He outlined differences between SRNL versus other National Laboratories, including the separation of R&D and operations.

CAB member Don Bridges asked for a comparison between SRNL and Livermore and Argonne. Dr. Bhattacharyya explained the big three Laboratories are Los Alamos, Livermore and Sandia, with budgets of \$2.3 to \$3 billion. He stated the total budget for SRNL is just slightly over \$200 million. He explained Argonne is a Laboratory with a budget of approximately \$600 million, with no major operations.

He continued addressing science and engineering proficiencies. He addressed environmental science and technology, including work on bio-terror defense mechanisms. He discussed the enhanced extraction of oil from shale. He touched on computational science and the development of analytical methods for the chemistry work being performed.

He offered snapshots of the activities being performed in the three major business lines. He stated that while the demand for tritium has decreased, the Lab is still the place where all tritium is produced (*unsubstantiate*), as well as the center of excellence of tritium technology in the Nation. He discussed robotics. He discussed technologies for vitrification and waste management. He noted the Lab has started to build a portfolio of energy technologies ranging from biofuels to fusion reactors.

CAB member Jerry Wadley asked if the Lab was still involved in offshore wind field development. Dr. Bhattacharyya stated the Lab is still involved in wind energy.

He stated the Lab relies on partnerships and has built a very impressive area of partners, including the FBI. He explained the Lab is one of two where the FBI can perform evidentiary work using radiated samples. He noted work with industry partners for hydrogen cars. He addressed partnerships with universities.

He highlighted application to all areas of EM cleanup from packaging nuclear materials to closing high-level radioactive waste tanks. He addressed the decommissioning of nuclear power plants. He noted his desire to maintain the technologies and processes that are used for safe and cost effective decommissioning of reactors. He stated SRNL takes science and applies it to practical problems.

He spoke of the genesis of the technology regarding the large operating units on the Site occurring in the Laboratory.

He stated challenges must be recognized and a roadmap created to look at the risk reduction strategies.

He reviewed SRNL infrastructure actions, including a master plan and funding strategies.

In summary, he stated SRNL is an enduring DOE Laboratory.

CAB member Rose Hayes stated she had recently reviewed a thesis regarding dam safety. She stated many of the major dams are labeled high hazard potential. She stated if they fail for any reason, they become a weapon of mass destruction. She asked if the Lab was reviewing American infrastructure in terms of dams or bridges or other similar risks. Dr. Bhattacharyya stated the Lab is looking at smart materials, which incorporate sensors that provide indications of wear and tear. He stated the Lab has not done work on dams.

CAB member Madeleine reminded everyone once again of the Strategic and Legacy Management Committee meeting on February 9, 2010 at the Marriott at 3:00 p m. in Augusta.

Facilities Disposition and Site Remediation Committee - Dr. K. Jayaraman, Chair

CAB member K. Jayaraman introduced his colleagues on the Committee. He stated the work plan was previously discussed in detail, but there are additions to be made. He referred to the K-Area Cooling Tower decommissioning status as well as soil and groundwater technology support. He noted the annual plan for 2010 is complete and ready for execution.

He reminded everyone of the next Committee meeting to be held on February 9, 2010 from 5:30 to 7:30 p m. at the Marriott in August and encouraged attendance.

Administrative Committee - Sarah Watson, Chair

CAB member Sarah Watson stated it's time to elect committee chairs. She stated ballots had previously been passed out and invited those to mark their ballots. She stated staff would collect the ballots as she provided the rest of her report.

She reported the CAB had created a Sunshine Benevolent Fund to handle issues of illness or death of any CAB member and is solely supported by the CAB. She stated there is approximately \$100 in the fund, with a request for donations throughout the year to replenish the fund. She noted CAB members Denise Long and Don Bridges would oversee the fund and any dispensing of monies. She stated the specifics regarding the handling of the fund would be forthcoming at the next meeting.

She discussed the establishment of a Speakers Bureau as a public outreach effort. She mentioned the CAB would focus on a general presentation to promote the CAB and offer visibility to the community. She stated volunteers are currently being accepted. She noted Art Dobby is working to prepare a script and PowerPoint presentation. She stated there would be a training session for this purpose.

She highlighted retaining institutional memory and emeritus members and its importance. She stated the CAB has concluded it's not something that can be supported because DOE would not allow it. She stated the CAB would handle requests for expert or specific presentations on a case-by-case basis.

She discussed student involvement and handling it through established tours through the Site and the Speaker's Bureau. She also noted meetings are open to the public.

She reminded the CAB that CAB nominees are still pending DOE's appointment. She stated approval is expected in March 2010.

She stated the CAB's mentoring program continues to operate, and invited CAB member Stan Howard to present a report.

CAB member Stan Howard stated he has taken the lead for the CAB Mentoring Program, which assists new members in becoming familiar with the processes and policies by pairing them with experienced members. He stated the mentoring program is useful because of the complexity and detail of the CAB workings. He noted CAB member Joe Ortaldo has served as his mentor for three years, and he still seeks information and background from him. He outlined the intricacies of the program. He invited current CAB members to volunteer for mentoring.

CAB member Sarah Watson provided the results from the election:

Administrative Committee - Sarah Watson
Facilities Disposition and Site Remediation Committee - Kuppuswamy Jayaraman
Nuclear Materials Committee - Judith Greene-McLeod
Strategic Legacy Management Committee - Jerry Wadley
Waste Management Committee - Joe Ortaldo

Presentation - New CAB Website - Aaron Stevens, V3 Technical Services

Mr. Stevens stated CAB members have expressed interest in having the website updated regularly and making it more user-friendly. He assured the CAB all requests have been heard and improvements have been made. He stated as communication technology grows, tools eventually become obsolete. He stressed the importance in staying current in communication strategies; embracing new ideas and improving functionality.

He discussed the concept of the new website, "Georgia and South Carolina Citizens Working Together for a Better Tomorrow at SRS."

He provided an overview of the website including the navigation bar and its functions. He addressed the reference windows concerning CAB meetings.

CAB member Don Bridges asked if Mr. Stevens was responsible for keeping data current. Mr. Stevens stated he is the new webmaster and the site would be updated regularly.

Mr. Stevens provided an example of the meeting schedule page and discussed the status of E-meetings on the website and what the various colors mean.

He addressed the Meetings Summaries page, and noted there is an upgrade expected to streamline it a little bit.

CAB member Bettencourt asked if the outline of meetings would be posted immediately after the meeting. Mr. Stevens stated it would be posted as soon as it becomes available to post. He noted they are still in the process of building the website.

He reviewed the Recommendations page, which would provide summary reports of all recommendations and voting results. He stated each recommendation would be presented with number, date, and any responses. He stated the recommendations are sorted by year.

He stated the website is not currently a searchable website, but that possibility is being explored.

He stated he would be pursuing improvements in the future.

CAB member Marolyn Parson asked if the archive by year is from the present forward or back. Mr. Stevens stated it would be from 2010 back, and you can select the year at the bottom of the page.

CAB member Madeleine Marshall stated she was looking for Recommendation 261 on Sunday night; she went to the website, printed it out and had it in two minutes. She stated she was very pleased.

Presentation - Status of E-Meetings - Aaron Stevens, V3 Technical Services

Mr. Stevens stated there have been several requests to improve things, and they have worked to do that.

He suggested digital communication and engaging the public is paramount. He stated they would utilize Microsoft Live Meeting, a global communication that works with pretty much everything. He highlighted the walk-through on livemeeting.com, which provides a tutorial. He stated there are a number of links from the

website to Live Meeting. He outlined the Live Meeting process. He stated an invite should be received one day prior to the meeting.

Mr. Stevens reviewed the future of E-meetings and provided contact information.

CAB member Rose Hayes asked CAB member Sarah Watson to once again address the issue of emeritus members. CAB member Sarah Watson stated there isn't an opportunity to have emeritus members formerly part of the CAB. She explained emeritus members could come to a specific subcommittee meeting or the CAB meeting if there is a need based on the Chair's opinion. She noted the CAB and staff as well as the Executive Committee would have an opportunity to review that need and make a decision. She stated the CAB would not be able to support the emeritus member financially.

CAB member Manuel Bettencourt stated there would be an opportunity for the CAB to pay for the travel and lodging of the individual the CAB wants to come in for a particular meeting.

CAB member Judith Greene-McLeod stated former CAB members who have attended meetings have added valuable information. CAB member Sarah Watson stated former members do receive notice of meetings and are encouraged to attend.

CAB member Sarah Watson commended the SRS CAB support team on their efforts.

Public Comments

CAB member Emile Bernard stated he has been on the CAB for almost a year. He expressed concern with the quality and readability of the documents that are submitted to the CAB. He suggested guidelines on report and/or document submittals and provided samples from various agencies. He recommended the CAB write a guide concerning documents.

~ End of Public Comments ~

Meeting adjourned at 4:30 p.m.