

Meeting Minutes
Savannah River Site (SRS) Citizens Advisory Board (CAB) – Informational Meeting
Sonesta – Hilton Head Island, SC
January 28th & 29th, 2019

Attendance – Monday, January 28th, 2019

CAB
Gil Allensworth
Carlos Cato
Betty Cook
Susan Corbett
David Eisele
Thomas French
Dawn Gillas
Jim Guille
Charles Hilton
Eleanor Hopson
Douglas Howard
Ashley Jacobs
Narinder Malik
Gregg Murray
Larry Powell
Robert Smith
Joyce Underwood
David Vovakes
Bobbie Williams

DOE/Contractors
Michael Budney, DOE-SR
Amy Boyette, DOE-SR
Zack Todd, DOE-SR
Jim Folk, DOE-SR
Thomas Johnson, DOE-SR
de'Lisa Carrico, DOE-SR
Amy Boyette, DOE-SR
Michael Mikolanis, DOE-SR
Avery Hammett, DOE-SR
John Lopez, DOE-SR
Jeff Bentley, DOE-SR
James Tanner, S&K
Stephanie Kemmerlin, S&K
Federica Staton, S&K

Agency Liaisons
Heather Cathcart, SCDHEC
Grace Anne Martin,
SCDHEC
Susan Fulmer, SCDHEC
Gregg O'Quinn, SCDHEC
Shelly Wilson, SCHEC
Sandra Snyder, SCDHEC

Stakeholders
Michael Graham, Bechtel
Larry Brede, Jacobs
Katie Golden
Marolyn Parson
Robert Dan

CAB Chair Update: Gil Allensworth, CAB Chair

Mr. Allensworth summarized the recent meeting with Fukushima representatives. Those representatives want to get citizens involved with their plant. They learned the framework of Savannah River Site and how stakeholders get involved. Mr. Allensworth also talked about the CAB Work Plan and the importance of Committee Meetings.

Meeting Rules & Agenda Review: James Tanner, CAB Facilitator

Mr. Tanner reviewed the meeting rules, agenda, and reminded members the difference between a Full Board Meeting and Information Meeting. Recommendations will not be voted on for this meeting.

Agency Updates

**Michael Budney, Site Manager, Department of Energy –
Savannah River (DOE-SR)**

Mr. Budney provided an update on various projects related to the EM purview of the CAB. He thanked the six CAB Members who are departing. Mr. Budney clarified a decision has not been made in regards to the possible NNSA Landlord proposal. He ensured the site not closing, there is more than enough work to be done. Updates on contracts for the M&O, Liquid Waste, and Security were provided.

Q&A Session

Mr. Malik asked about the Liquid Waste contract and the contract extension. Will there be an extension, will there be a pause? Mr. Budney couldn't comment due to solicitation sensitive issues. The work won't be impacted, measures will be taken so a pause won't happen.

Mr. Allensworth asked if EM DOE could educate the community on the differences between EM and NNSA. Several community members get mixed up on what each one of them does at SRS. Mr. Budney suggested community members should attend the next Citizens for Nuclear Technology Awareness (CNTA) meeting because Nicole Nelson-Jean (NNSA) is the

speaker. NNSA just hired a Public Affairs person and they are working on educating the public on NNSA's mission. Mr. Allensworth asked about the SWPF date. Mr. Budney said they are progressing along and it will be running within a year. The exact date will be announced. Mr. Allensworth asked about SRNS adding jobs for NNSA work. Mr. Budney said it won't have any negative conflicts with the EM mission.

Shelly Wilson, South Carolina Department of Health & Environmental Control (SCDHEC) Ms. Wilson provided an update regarding general projects under the SCDHEC purview and DOE-SR collaboration. Ms. Martin noted a new board director has been selected and he will be going through confirmation hearings in February. Ms. Martin will be leaving SCDEC on February 11, she thanked the board for all of their insightful perspectives. Ms. Wilson noted High Level Waste (HLW) is the single largest environmental threat in South Carolina. She mentioned SCDHEC is glad TCCR is up and running. It is an agreement between DOE and SCDHEC. It shows both groups are working on getting the amount of HLW down. She turned it over to Grace Anne Martin from the Aiken office. They just submitted the ESOP report and it has been submitted for publication. The report will be placed on the DHEC website and a copy will be available at the March CAB meeting.

Q&A Session

Ms. Corbett thanked Ms. Wilson for all her hard work. She asked who will replace her. Ms. Wilson mentioned a replacement hasn't been selected but several SCDHEC representatives will continue to attend meetings.

Mr. Malik wished Ms. Wilson luck in the future. He asked if the HLW integration system will have impact on the tank farms industrial waste water department. Ms. Wilson said it will have an indirect impact. All the new treatment systems have a waste water construction permit. When all the pieces start working together, the waste will be treated and reduced, the old-style tanks will be closed. Indirect impact, agreements for new tank closures will be listed in the Federal Facility Agreement. The exact same schedule is also copied on the Industrial Waste Water Closure plan. Mr. Malik asked if the permits will change. Ms. Wilson said they will stay the same. Mr. Malik asked about an update on groundwater monitoring system. Ms. Wilson said it was a continuous effort. SCDHEC receives several reports on groundwater reports. They review all recommended changes. They review the groundwater systems as the reports come in. Ms. Wilson also said they plan on having public involvement on the tank closure schedules. They won't change them without receiving input from the community.

Committee Updates

Administrative & Outreach Committee Update: Eleanor Hopson, Chair

Ms. Hopson thanked all in audience for attending and asked all retired committee members to continue their support. She announced when and where the next AO meeting would be held. Ms. Hopson said the elections for Committee Chairs will be held tomorrow (January 29). She asked all A&O Committee to meet after the conclusion of this meeting.

Facilities Disposition & Site Remediation: Joyce Underwood, Chair

Ms. Underwood thanked the members and asked them to reelect her as chair. Ms. Underwood summarized the open draft recommendation, pending recommendation, and a draft recommendation.

Nuclear Materials: Larry Powell, Chair

Mr. Powell summarized the current recommendation statuses for NM.

Strategic & Legacy Management: David Vovakes, Co-Chair

Mr. Kaminski summarized the current recommendation statuses.

Waste Management: Dawn Gillas, Chair

Ms. Gillas summarized the two open recommendation statuses for WM.

Presentations

Presentation: Savannah River Ecology Laboratory – Dr. Gene Rhodes, SREL

Dr. Rhodes gave an overview of SREL. The mission to enhance the understanding of the environment by acquiring knowledge through research, education, and service. Continue to put out scientific literature including almost 3500 peer reviewed papers and 64 books. Continually have undergrad and graduate students come from all 50 states. Outreach has grown by hiring a coordinator. SREL staff and students attended/spoke at 513 events in 2018 to connect with the community. Dr. Rhodes reviewed the SREL budget and challenges they face.

Q&A Session

Ms. Underwood asked about why SREL's budget was high in 2005 and then greatly decreased. Dr. Rhodes states a reduction in money coming from headquarters started in 2004. By 2008 SREL didn't receive any money from headquarters. DOE/NNSA found a way to fund the lab. Ms. Underwood asked if the lab provides presentations to obtain outside funding. Dr. Rhodes said the increase in presentations is due to the increase in graduate students. Sometimes the presentations do lead to external funding.

Ms. Corbett asked if the lab taught hormesis at public meeting especially ones which included children. Dr. Rhodes didn't believe the lab did. Ms. Corbett asked Dr. Rhodes if he believed the theory which states a small amount of radiation is good for a person. Dr. Rhodes described theory as a little radiation might booster an immune system. Dr. Rhodes said the lab's job is not to prove the hormesis model. The lab's job is to prove what the consequences of low dose radiation does. Ms. Corbett asks about the set aside areas. Dr. Rhodes stated the selected set aside areas were either long term research plots or they were relatively unique habitats that weren't used frequently so the lab wanted to hold out and protect them. Dr. Rhodes said they were not a baseline study site. Habitats have been held out from ongoing changes. They are used for long-term research projects. Ms. Corbett asked about the insect collection. Dr. Rhodes said the study was done over the course of two summers. About 30,000 beetles were collected.

Ms. Underwood asks if CAB could be alerted if SREL does a local talk. Dr. Rhodes said he send any local talks to James Tanner (DOE-SR).

Mr. Smith asks why a South Carolina University isn't funding the program instead of University of Georgia (UGA). Dr. Rhodes said UGA started the contract. UGA collaborates with several South Carolina universities including University of South Carolina Aiken (USCA).

Mr. Vovakes asked if SREL was on track to complete their Fiscal Year 2019 Plan. Dr. Rhodes stated they are on track. Most difficulties are related to infrastructure. UGA implemented a new accounting system which skewed some of the funding data.

Mr. Eisele asked about collaborating with other universities and if all the students come from UGA. Dr. Rhodes stated not all students come from UGA, they could come from anywhere in the US or the world. Mr. Eisele asked about external funding and examples of it. Dr. Rhodes said they received they received money from the Department of Agriculture to study the healthy population of hogs. One study looked at what bates work with the feral hogs. The National Rabies Program gave money to learn how to prep them for eliminating rabies in the southeast. The Department of Defense gave money to learn about brown tree snakes in Guam, might go with Fort Gordon scientists about land management. Money from NSF for undergraduate programs and using money to learn about aging with alligators.

Mr. Guille asked about the public tours and what they do. Dr. Rhodes said SRNS offers a stop at SREL on their public tour. SREL used to be the last stop where they would discuss they mission and also show some of the animals. SREL does not receive funding from SRNS but they liked showing the public what the lab does.

Mr. Howard asked if SREL was involved with research in Fukushima and looking at how the insects and animals are doing at that site. Dr. Rhodes said collaborating over there is quite difficult. SREL had one facility member take a short-term rotation at the University of Fukushima. Through that relationships were developed. Research is being done on feral hogs located over there. Dr. Rhodes sees that research portfolio growing over time. Mr. Howard asks if the SREL investigates why animals die of natural causes. Dr. Rhodes says groups do scavenging ecology. Mr. Howard asks why there is a shortage of housing with graduate students. Dr. Rhodes said undergraduates stay at USCA but graduate students do not have that option. They either rent a trailer or 3-4 of them rent a house. The problem is that the students schedule might be six months of taking classes at UGA and then a few months of conducting research at SRS. Short-term leases are not available, especially in Aiken/Augusta and the students can not afford two rental leases. Dr. Rhodes would appreciate short term housing for the graduate students.

Ms. Cook asked if SREL asked for funding from the private sector. Dr. Rhodes said occasionally they work with the private sector a little bit but not much.

Ms. Underwood asked how many graduate students needed housing and if the number is increasing. Dr. Rhodes said it varies. Some students only require housing for a few weeks. There's a larger amount who come just for the summer. The lab may require housing for 50 people and other times they may only need rooms for 10. Dr. Rhodes said he would like to have some apartment housing and some dorms, so the different needs could be met. He has tried to obtain a loan from UGA to build housing, but it hasn't worked out yet. Ms. Underwood asked if the beetle experiment was contaminated by other animals. Dr. Rhodes said the dead rabbits were staked down so other animals would not be able to take them. Some locations did not work so sometimes the rabbits were moved around due to ants.

Group Discussion

Work Plan Format

Mr. Tanner noted the CAB Work Plan format would be changing in 2019. In the past DOE would give presentation on a list of topics for each committee. In addition to the topic department is now asking what should be done about it. The topics will be developed into educational presentations. The topics will be paired down from recent years. The intent is to focus in items DOE would like feedback on. The Board will be presented with a list of topics at tomorrow's meeting. Critiques and additions are welcomed.

Mr. Allensworth stated the new work plan format will streamline the process to help CAB members give more informed input to DOE. DOE. DOE is not directing the board on what recommendations should be made. The process will help the board understand the presentations better. By better understanding the presentations a more focused recommendation can be made. The big change will help focus the group to make more effective recommendations.

Mr. Tanner said a member of Executive Committee asked if the new CAB Work Plan format will limit what the board can do. They still have the option to adding Work Plan options. The new plan is to help the board create meaningful and intentional.

Mr. Howard stated if he were a newcomer he would be skeptic on the Work Plan. However. Due to his experience he thinks the plan will help keep the committees on a productive course

Committee Attendance

Mr. Allensworth stated the change in the Work Plan Format will make Committee Meetings more important. He discouraged members from just sending their votes. He encouraged members to attend or call-in to the Committee Meetings and participate in the discussion. High attendance means the board is committed to making educated input to DOE.

Ms. Corbett mentioned there is lag between the video and the phone. She finds it difficult to watch a presentation and actively engage in the discussion.

Mr. Tanner stated the CAB Support Staff looked at which technology would work best with the user's needs. Based on research the majority of users utilized materials after the meeting.

Mr. Vovakes agreed with Susan's comments. He thinks users watch the recordings later because it is too frustrating to use.

Ms. Underwood stated calling in to Committee Meetings do not count as part of the quorum.

Mr. Murray asked if the voting window could be open for an extended period of time. He would like a week to give people to vote.

Mr. Allensworth stated the board needs to review the rules. People on the phone can vote but they do not count toward the quorum. He thinks that should be reviewed.

Mr. Mikolanis stated the CAB Support Staff would review the technology. The staff did not want call-ins to count toward quorum because they did not want to encourage more electronic meetings. He wants board members to attend in person.

Public Comment

Marolyn Parson thanked DOE for coordinating three downstream meetings. People located in those communities appreciate the support. She requested the administration outreach committee for inviting or allowing former CAB members to participate in the CAB tours at SRS. The loss of institutional knowledge is felt in the communities the members used to represent. She was on the CAB for six years and she would share her experiences.

END OF DAY 1, January 8th, 2019

Attendance – Tuesday, January 29th. 2019

Gil Allensworth
Carlos Cato
Betty Cook
David Eisele
Thomas French
Dawn Gillas
Jim Guille
Charles Hilton
Eleanor Hopson
Douglas Howard
Ashley Jacobs
Daniel Kaminski
Narinder Malik
Gregg Murray
Larry Powell
Robert Smith
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Avery Hammett, DOE-SR
John Lopez, DOE-SR
Jeff Bentley, DOE-SR
Avery Hammett, DOE-SR
Craig West, DOE-SR
Soni Blanco, DOE-SR
James Tanner, S&K
Stephanie Kemmerlin, S&K
Federica Staton, S&K
Kristin Huber, SRNS
Megan Winzler, SREL

Agency Liaisons
Heather Cathcart, SCDHEC
Grace Anne Martin,
SCDHEC
Shelly Wilson, SCDHEC
Susan Fulmer, SCDHEC
Gregg O'Quinn, SCDHEC
Sandra Snyder, SCDHEC
Jon Richards, EPA

Stakeholders
Mary Powell
Larry Brede, Jacobs
Marolyn Parson
Ken Sajwan

Meeting Rules & Agenda Review: James Tanner, CAB Facilitator

Mr. Tanner reviewed the meeting rules and the agenda for the day.

CAB Committee Ballot

Mr. Tanner displayed a ballot of all those running for CAB Committee positions. Each nominee was given the chance to campaign for themselves. Mr. Allensworth thanks all nominees for their interest in the positions.

Presentations

Presentation: Radionuclide Education, Monitoring, & Outreach Program – Megan Winzler, SREL
Ms. Winzler from the Savannah River Ecology Laboratory gave a very detailed presentation on what how the Radionuclide Education, Monitoring, & Outreach Program (REMOP) was formed and its mission. The project came about from community support/concern from Burke County Georgia. It was SRS CAB Recommendation 317. DOE responded and said SREL would look at the scope of the programs. SREL concluded the monitoring programs were enough but it was not providing the correct education outreach to the community. Burke is the largest county in the state of Georgia and it's adjacent to SRS. There are 3 active monitoring programs: SC DHEC samples the river, SRS has 9 groundwater monitoring wells and Plant Vogtle has monitoring zones. After REMOP was funded the EPA conducted a technical assistance needs assessment where they figured out the needs of the community. From REMOP Recommendations: Communications Outreach (presentations, newsletters, website, social media), Community Input (get people involved), and Beneficial Topics (status of Plant Vogtle, Radiation 101, etc.). In 2018 a "touch an animal day" was held in Burke County. By showing some of the wildlife the public was educated on wildlife and their habitats. REMOP also attended a 4-H fair and was able to connect with 1500+ people. To boast numbers, Facebook live has been utilized for several speaking engagements. The social media platform helped the organization reach individuals who were unable to attend in person.

Q&A Session

Mr. Howard asked the percentage of people in Burke know about what SREL is doing. Ms. Winzler said she is unsure how to measure that. The organization does put out advertisements in the newspapers, fliers around town, and posts on Facebook. Mr. Howard asked if SREL would be interested in the Scouts. Ms. Winzler said most troop members actually go to Augusta due

a lack of interest in the area. Mr. Howard offered to help Ms. Winzler get connected with some local groups. She was happy to connect with him later.

Ms. Underwood asked if SREL could work with the DuPont Planetarium to create a radiological information film. It would be an interesting connected. Ms. Winzler said it would be interesting and possible future project.

Ms. Hopson asked if REMOP ends what happens with program. Ms. Winzler said she wasn't sure what would happen and because she's not sure how the funding would work. SREL would at least continue the monitoring programs.

Mr. Murray asked if the SREL REMOP would be accessible in a public place. Ms. Winzler said the monitoring programs done by SREL is available online. The REMOP data is not currently available because the study won't be done for months.

Mr. Smith asked if the EPA Community Involvement Training Course open to the public. Ms. Winzler said it is open to the public. It is a normal conference and open to anyone.

Mr. Malik asked if SREL gave monitoring program information to SRS. Mr. Mikolanis SRNS does monitor certain environmental sites inside the perimeter. SREL does give information to SRNS.

Ms. Cook asked if SREL would go to Hampton County. Ms. Winzler said they try to reach as many schools as possible. Ms. Cook promised to pass on the high school principal's information, so something could be coordinated.

Ms. Underwood asked what it would take for the REMOP program to more counties. Ms. Winzler said she didn't see the SREL program ending. Mr. Mikolanis said the REMOP program was set up based off a CAB recommendation. The new DOE-SR Assistant Manager for Infrastructure and Environmental Stewardship can investigate expanding the program.

Ms. Williams asked if the Denmark schools could receive a presentation. Ms. Winzler said they will check and see if any teachers in that area have reached out to SREL.

Presentation: H-Canyon Exhaust Air Tunnel – Ken Burrows, SRNS

Mr. Burrows provided information on the H Canyon Exhaust Tunnel and its seismic qualifications. It is an underground structure. The purpose of the exhaust to confine and convey process air to and filters. It was designed to meet seismic design criteria. In the past soil and concrete samples have been pulled for inspections. Results made the group question the seismic qualifications of the tunnel. A non-linear analysis is currently in process, it's forecasted to be completed in the summer of 2019.

Q&A Session

Mr. Howard asked what the threshold is when testing for seismic events. Mr. Burrows said they follow Seismic Design Criteria 3 is what they follow as a code. It has specific spectrum for the area of analysis. Mr. Howard asked what size earthquake are they gauging for? Mr. Burrows said the criteria has been developed by the location of the site. Mr. Mikolanis said the design basis earthquake for the SRS is based the largest historical earthquake in the region which was in Charleston in 1889. The earthquake was an 8.9.

Mr. Powell ask what they were taking out of the air. Mr. Burrows said the fine particulate material is filtered by the send. Mr. Powell asked if the sand has to be changed out over time. Mr. Burrows said sometimes sand is added and it will last the lifetime of the H Canyon project. Mr. Powell asked if the research could be applied to other projects. Mr. Burrows stated the linear research analysis could apply the same methodology to another structure.

Mr. Eisele asked if there was a way to sure up the tunnel. Mr. Mikolanis said the course of action being done by SRNS with the tunnel is the best course of action.

Mr. Kaminski asked how long the tunnel would last. Mr. Burrows said the exhaust tunnel will be operational as long as H Canyon mission was needed. He doesn't know the rate of degradation though. Mr. Kaminski asked if there was any impact when there was a minor earthquake in Aiken a few years ago. Mr. Burrows said there wasn't any impact.

Ms. Gillas asked if the exhaust would be necessary for normal processing. Mr. Mikolanis said they don't know at this time if they can move the tunnel out of its safety related function. It's a seismic issue. Ms. Gillas mentioned the F Canyon tunnels and the bad shape they were in. Mr. Mikolanis said SRNS looked at several locations on site for data but he wasn't sure if they F Canyon tunnels were used for research.

Mr. Hilton asked how robust the tunnel is. Mr. Burrows said the walls were 18 inches thick and it has two layers of rebar. The floor is two feet thick. It's been in service since the 1950s.

Mr. Narinder asked what information came out of the soil samples. Mr. Burrows said the samples were not taken for radioactive purposes, they were used for characteristic purposes.

Mr. Powell asked about the efficiency of the sand filter. Mr. Burrows said the filter is 99.92% efficient. The efficiency is a safety requirement. Inspections are done periodically to make sure the filter is working properly.

Mr. Smith asked about the particle size regarding the efficiency. Mr. Burrows said he would have to get back to him. Mr. Burrows said the efficiency passed all criteria for the analysis.

Mr. Kaminski asked what would happen if H Canyon was in full operation and the tunnel collapsed. Mr. Burrows said they would cease operations. Mr. Kaminski asked if there were enough safety measures to avoid a discharge event. Mr. Burrows said yes, the design features would prevent that kind of situation.

Presentation: Integrated Priority List – John Lopez, DOE-SR

Mr. Lopez provided a detailed presentation on the Integrated Priority List (IPL) process and budget process. The goal is to solicit input from the CAB in what the priorities should be for DOE-SR, input for the Fiscal Year (FY) 2020 Budget, and the Strategic & Legacy Management Work Plan. There are currently eight Project Baseline Summaries (PBSs). The money is allocated into those eight PBSs and it cannot be moved from one group to another without approval from DOE Headquarters. All the priorities are group into four individual accounts: MinSafe activities, operational support, cleanup activities, and making progress. MinSafe are activities necessary to maintain facilities or system in operational readiness. All security activities and pensions are considered Min-Safe. Operation support includes payment in lieu of taxes (PILT).

The presentation was stopped temporarily since Shelly Wilson was leaving and the CAB wanted to give her some parting items. The group gave her a round of applause.

Mr. Lopez began again. Operational support includes regulators, the CAB, and Infrastructure activities. Cleanup activities support regulatory milestones. Everything done in PBS 14 is considered a regulatory milestone. Making progress activity examples are: processing in the H Canyon receiving spent fuel, surveillance activities in 235-F. DOE was one of the six agencies which received their budget for FY2019. Mr. Lopez reviewed last year's IPL letter and the breakdown of each list item.

Q&A Session

Ms. Underwood asked why PILT isn't considered Min-Safe but pension is. Mr. Lopez said Pension is an overhead everyone must pay and PILT is subject to availability of funds. The pension must be paid but PILT is not. Ms. Underwood asked why infrastructure is not Min-safe. Mr. Lopez said some infrastructure is Min-Safe. Mr. Budney said there are two kinds of infrastructure: Common (like water, sewer, handled by SRNS, funded by all programs) and then there's infrastructure which are program such as the H Canyon roof. Mr. Budney clarified PILT did get funded last year.

Ms. Williams asked why PBC 11C did not have regulatory agreements. Mr. Lopez said there is no FFA agreement in processing in the canyon. The regulators do not require it.

Mr. Murray asked about the dip in funding for Cyber Security. Mr. Lopez clarified about a third of the funding for Cyber Security was cut and he was not sure what was cut out of their program.

Mr. Allensworth asked if SRS was the only site which didn't receive their budget request? Mr. Lopez said they were the only site to get less than their request and he didn't know why. Mr. Allensworth asked if other sites focus more on infrastructure like SRS. Mr. Lopez said Hanford focused infrastructure like SRS but they received a plus up on funding for it. Plus up means they received more money than they requested. Lopez said Congress is one who can actually give SRS the money. Mr. Allensworth asked about SRNS being awarded a large contract where they could double in size. Mr. Lopez said the contract will be determined in the future. Mr. Lopez said the growth of SRNS would expand their scope due to the NNSA projects. Currently NNSA pays 25% for Indirects. A larger NNSA scope would mean NNSA would put more money for Indirects (money for projects for all the customers on site such as road work). Pensions also fall under Indirects. NNSA paying more in that pool of money would help EM.

Mr. Vovakes asked if DOE appealed the OMB pass back. Mr. Lopez said they did appeal and submitted a list of accomplishments. He was unsure of the results.

Mr. Hilton asked how the President's budget gets modified. Mr. Lopez said the president releases the budget in February and the over the summer the House and Senate mark it up.

Presentation: Saltstone Operations Update – Jeff Bentley, DOE-SR

Mr. Bentley is the Saltstone Program Manager. He is part of the Liquid Waste division which handles the storing, treating, and disposition of radioactive waste in the tanks. The Liquid Waste is either sludge (which contains most of radionuclides in the system) which makes up about 10% and the other 90% is Salt Waste (it has the rest of the radionuclides). The sludge goes to the Defense Waste Processing System (DWPF). The Salt Waste is treated to take out the most radionuclides they can (most cesium). The waste is taken to the PMCU Facility (it will shut down when SWPF operates) or the Tank Closure Cesium Removal (TCCR) facility. The material will then go to the Saltstone Facility where it will then be dispositioned to grout. The primary purpose of Saltstone is to take decontaminated salt solution and mix it with dry heave which is used to create a grout. The grout is pumped out to the Saltstone Disposal Units (SDU). In total, DOE has dispositioned 16 million gallons of decontaminated salt solution. In FY2018 385,000 gallons were processed. After the waste is decontaminated the it doubles in size. Therefore 100,000 gallons of waste will make 200,000 gallons of grout. Later on in 2019, the operation will become a two shift operation. New operators are currently being brought in so they can be fully trained before SWPF comes online. The processing is trending up and the capacity of 30 million.

Q&A Session

Ms. Gillas asked about backup systems for when failures happen. Mr. Bentley said they have thought of procedures for when systems fail. They are working on some conceptual designs in the processing room. They are doing some upgrades in order to be better prepared for certain events.

Mr. Howard asked how long it took to build and put the TCCR project online. Mr. Bentley said it took over two and half years to design and implement TCCR. TCCR went online January 16, 2019. It averages around 7,000 gallons a day. The goal is 5 gallons a minute.

Mr. Eisele asked about the disposition path for the TCCR columns. Mr. Bentley said there is a path they can go. They can be processed through DWPF but it is not their preferred method. The columns are in a shielded canister right now. The whole unit will be moved into an interim safe storage site. The path is still currently being worked on.

Mr. Guille asked about the SWPF date. Mr. Bentley said a year. Mr. Guille asked how years it will take to process the 30 million gallons. Mr. Folk estimated 10-12 years of processing.

Mr. Allensworth asked about the funding for the second shift. Mr. Bentley said the second shift has funding available.

Presentation: Saltstone Disposal Unit Construction Update – Shayne Farrell, DOE-SR

Mr. Farrell provided an update on the SDU construction. A liner was put inside SDU 6 in December 2016. CD-4 was approved in May 2017 and grout is already going into it. The total cost for SDU 6 is 125 million dollars. The key point is that 6 through 12 is designed to be constructed the exact same way. SDU 7 has a total cost of 159 million dollars. Cost and schedule contingency pushed the price up. SDU 8-9 have CD-1 approved and the cost is 350 million dollars for both. SDU 10 through 12 CD-1 was received in December 2018 and the cost is 600 million. The start of the projects would be 2021. Lessons learned from the SDU 6 project are being implemented for the rest of the SDU projects.

Q&A Session

Mr. Malik asked if 7-12 being built with same cookie cutter design, would there be one large permit or individual permits. Mr. Farrell said the permits are done on per project basis. SDU 7 has one, SD 8-9 has a permit, and SDU 10-12 has a permit. Mr. Malik asked if multiple SDUs would be used at the same time. Mr. Folk said DOE would be filing one SDU at a time.

Ms. Underwood asked if the pipes would be above or underground. Mr. Farrell said all the pipes would be above ground.

Mr. Smith asked about the initial budget for SDU 6. Mr. Farrell said the initial budget for SDU 6 was 149 million dollars. Mr. Smith asked if there was any cushion built into the Gantt chart. Mr. Folk said every 16-18 months an SDU would be filled. The construction schedule is 30 months. There are some overlap but it should be completed just in time.

Mr. French asked if the same subcontractors are being used in order to keep the same skill set. Mr. Farrell as much as possible they try to keep the same subcontractor.

Mr. Powell asked if the liner was no longer useful after the grout sets. Mr. Farrell said once the grout is there, it lessens the opportunity for any potential leaking through the grout itself. Mr. Powell asked about the PSI rating compared to standard concrete. Mr. Farrell was not sure of that information. Mr. Powell asked why the second tank couldn't but put on top of the first tank. Mr. Folk said on top of each tank will be dirt, clays, and such on top of them. If you stacked it would impact the foundation.

Mr. Howard asked if the price will get cheaper if the designs are the same. Mr. Farrell said there should be a reduction in cost after looking over the lessons learned from each tank. He said they hope they will save money by buying items in bulk when possible.

Ms. Gillas asked if they would consider creating a concrete plant out in SRS. Mr. Farrell said they are currently bringing it in through trucks. He said they are currently reviewing the possibility of it.

Committee Chair Election

The CAB Members voted for the Chair and Vice Chair for each committee.

Topics for Consideration

Facilities Disposition & Site Remediation Committee: Avery Hammett listed the topics and forecasted recommendations for the FDSR Committee for this year's work plan. CAB Members asked questions and provided input on the topics.

Nuclear Materials Committee: Michael Mikolanis listed the topics and forecasted recommendations for the NM Committee for this year's work plan. CAB Members asked questions and provided input on the topics.

Strategic & Legacy Management Committee: Zach Todd listed the topics and forecasted recommendations for the SLM Committee for this year's work plan. CAB Members asked questions and provided input on the topics.

Waste Management Committee: Soni Blanco listed the topics and forecasted recommendations for the WM Committee for this year's work plan. CAB Members asked questions and provided input on the topics.

Public Comment

Marolyn Parson stated she was disappointed in the turnout of the people from the public. She wanted the CAB to put advertisements in newspapers so more people would attend the meetings. She wants the CAB to put a SRS Mission Statement in the CAB invites.

END OF DAY 2, January 29th, 2019

All presentations are available for review on the SRS CAB's website: cab.srs.gov