

Oak Ridge Site Specific Advisory Board Monthly Meeting



Wednesday, November 8, 2017, 6 p.m.

DOE Information Center
1 Science.gov Way
Oak Ridge, Tennessee

The mission of the Oak Ridge Site Specific Advisory Board (ORSSAB) is to provide informed advice and recommendations concerning site specific issues related to the Department of Energy's (DOE's) Environmental Management (EM) Program at the Oak Ridge Reservation. In order to provide unbiased evaluation and recommendations on the cleanup efforts related to the Oak Ridge site, the Board seeks opportunities for input through collaborative dialogue with the communities surrounding the Oak Ridge Reservation, governmental regulators, and other stakeholders.

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AGENDA

PRESENTATION MATERIALS — To be distributed prior to or at the meeting.

CALENDARS

1. November
2. Work plan schedule of meetings

BOARD MINUTES/RECOMMENDATIONS & MOTIONS

1. October 11, 2017 unapproved meeting minutes

REPORTS & MEMOS

1. Trip Report – Fall Chairs Meeting (S. Kimel)
2. Recommendation Tracking Chart
3. EM Project Update
4. Travel Opportunities for FY 2018



Oak Ridge Site Specific Advisory Board
Wednesday, November 8, 2017, 6:00 p.m.
DOE Information Center
1 Science.gov Way, Oak Ridge, Tenn.

AGENDA

- I. Welcome and Announcements (D. Wilson) 6:00–6:05
 - A. Next Meeting: Wednesday, February 14, 2018
Presentation Topic: Excess Contaminated Facilities
- II. Comments from the Deputy Designated Federal Officer, and EPA and TDEC Liaisons
(J. Mullis, C. Jones, K. Czartoryski)..... 6:05–6:15
- III. Public Comment Period (C. Nussbaum) 6:15–6:25
- IV. Presentation: 45-Day Review (Jay Mullis) 6:25–6:50
Question and Answer Period 6:50–7:05
- V. Call for Additions/Approval of Agenda (D. Wilson) 7:05
- VI. Motions 7:05–7:10
 - A. October 11, 2017, Meeting Minutes (R. Burroughs)
 - B. Second Consecutive Absence—Gonzalez, Walker (R. Burroughs)
- VII. Responses to Recommendations & Alternate DDFO’s Report (M. Noe) 7:10–7:15
- VIII. Committee Reports..... 7:15–7:20
 - A. EM/Stewardship (J. Tapp)
 - B. Executive (D. Wilson)
 - 1. Fall Chairs Meeting
 - 2. December Social
- IX. Additions to Agenda & Open Discussion..... 7:20–7:30
- X. Adjourn 7:30

Presentation to be
distributed at or prior
to meeting



Oak Ridge Site Specific Advisory Board

November

2017

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1 Executive Committee Meeting 6-7:00 p.m.	2	3	4
5	6	7	8 Board Meeting 6-7:30 p.m.	9	10 Veterans Day (observed) DOE/Staff Holiday	11
12	13	14	15	16	17	18
19	20	21	22	23 Thanksgiving Day DOE/Staff Holiday	24 ORSSAB office closed	25
26	27	28	29 EM/Stewardship Committee Meeting 6-7:00 p.m.	30		

Meetings are at the DOE Information Center, Office of Science and Technical Information, 1 Science.gov Way, Oak Ridge unless noted otherwise.

ORSSAB Support Office: (865) 241-4583 or 241-4584 **DOE Information Center:** (865) 241-4780
ORSSAB Conference Call Line: (866) 659-1011; enter the participant code when prompted: 3634371#

Board meetings on cable TV and YouTube	
Knoxville: Charter Channel 6, Comcast Channel 12	Sundays at 8 p.m.
Lenoir City: Charter Cable Channel 193	Wednesdays, 4 p.m.
Oak Ridge: Channel 12	Fourth Mondays, 7 p.m.
Oak Ridge: Channel 15	Monday, Wednesday, Friday, 8 a.m. & noon
YouTube	http://www.youtube.com/user/ORSSAB

FY 2018 ORSSAB Work Plan/Schedule

Executive meeting	Monthly meeting	Site tour	EM/Stewardship meeting
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Date	Event	Topic	Presenter	Issue Group	Location
OCTOBER 2017					
Wed., 10/4	Executive	General business			DOEIC
Wed., 10/11	Monthly meeting	Vision 2020-Planning for the Future of ETPP including Reuse, Historic Preservation and Stewardship	Cooke	Gonzalez Holden Lohmann Shoemaker Tapp Trujillo	DOEIC
Thurs., 10/19 2-4 p.m.	Special event	In lieu of a tour, DOE would like for members to attend the Future K-25 History Center Event at ETPP			
Wed., 10/25	EM/Stewardship	Vision 2020-Planning for the Future of ETPP including Reuse, Historic Preservation and Stewardship detailed discussion	Cooke	(As listed above)	DOEIC

NOVEMBER 2017					
Wed., 11/1	Executive	General business			DOEIC
Wed., 11/8	Monthly meeting	45-Day Review ¹	Mullis		DOEIC
	Site tour	<i>(no site tour)</i>			
Wed., 11/29	EM/Stewardship	Deed Restrictions on Residually Contaminated DOE Property Transferred to CROET	Cooke		DOEIC

DECEMBER 2017					
Wed., 12/6	Executive	<i>(No meeting)</i>			
Wed., 12/13	Monthly meeting	<i>(No meeting)</i>			
	Site tour	<i>(No site tour)</i>			
Wed., 12/27	EM/Stewardship	<i>(No meeting—due to holidays)</i>			

¹Was originally EM Complex Overview (Beatty, Tapp)

Date	Event	Topic	Presenter	Issue Group	Location
JANUARY 2018					
Wed., 1/3	Executive	<i>(No meeting)</i>			
Wed., 1/10	Monthly meeting	<i>(No meeting)</i>			
	Site tour	<i>(No site tour)</i>			
Wed., 1/24	EM/Stewardship	<i>(No meeting)</i>			

FEBRUARY 2018					
Wed., 2/7	Executive	General business			DOEIC
Wed., 2/14	Monthly meeting	Excess Contaminated Facilities	McMillan/ Henry	Bales Beatty Swindler Tapp Thomas Trujillo	DOEIC
TBD	Site tour	On-site tour/Q&A	McMillan/ Henry/ Williams		
Wed., 2/28	EM/Stewardship	Excess Contaminated Facilities detailed discussion	McMillan/ Henry	(As listed above)	

MARCH 2018					
Wed., 3/7	Executive	General business			DOEIC
Wed., 3/14	Monthly meeting	Ongoing Efforts to Assure Waste Disposal Capacity	Henry	Bales Burroughs Holden Shields Shoemaker Tapp Thomas Trujillo	DOEIC
TBD	Site tour	On-site tour/Q&A	Henry/ Williams		
Wed., 3/28	EM/Stewardship	Ongoing Efforts to Assure Waste Disposal Capacity detailed discussion	Henry	(As listed above)	DOEIC

Date	Event	Topic	Presenter	Issue Group	Location
APRIL 2018					
Wed., 4/4	Executive	General business			DOEIC
Wed., 4/11	Monthly meeting	FY2020 Budget Formulation and Prioritization of Projects/Baseline	Stokes/ Thompson	Price Tapp Trujillo Wilson	DOEIC
	Site tour	<i>(No site tour)</i>			
Wed., 4/25	EM/Stewardship	FY2020 Budget Formulation and Prioritization of Projects/Baseline detailed discussion	Stokes/ Thompson	(As listed above)	DOEIC

MAY 2018					
Wed., 5/2	Executive	General business			DOEIC
Wed., 5/9	Monthly meeting	(No ORSSAB monthly meeting due to Community Budget Workshop)			DOEIC
	Site tour	(No site tour)			
TBD	Community Budget Workshop				TBD
Wed., 5/23	EM/Stewardship	Continued discussion of FY 2020 budget formulation-recommendation if needed	Stokes/ Thompson	(As listed above)	DOEIC

JUNE 2018					
Wed., 6/6	Executive	Annual meeting planning			DOEIC
Wed., 6/13	Monthly meeting	Ongoing Groundwater Efforts	Mayton	Burroughs Lohmann Price Shields Shoemaker Swindler Tapp Wilson	DOEIC
TBD	Site tour	On-site tour/Q&A	Mayton/ Williams		
Wed., 6/27	EM/Stewardship	Ongoing Groundwater Efforts detailed discussion	Mayton	(As listed above)	DOEIC

JULY 2018					
Wed., 7/4	Executive	<i>(No meeting)</i>			DOEIC
TBD	New member training & tour				
Wed., 7/11	Monthly meeting	(No ORSSAB monthly meeting due to new member training)			
	Site tour	<i>(No site tour)</i>			

Date	Event	Topic	Presenter	Issue Group	Location
Wed., 7/25	EM/Stewardship	<i>(No meeting)</i>			DOEIC

AUGUST 2018

Wed., 8/1	Executive	Annual meeting planning			DOEIC
Sat., 8/___	Annual meeting	FY 2018 review and planning for FY 2019			
Wed., 8/8	Monthly meeting	(No ORSSAB monthly meeting due to Annual meeting)			
	Site tour	<i>(No site tour)</i>			
Wed., 8/22	EM/Stewardship	<i>(No meeting)</i>			

SEPTEMBER 2018

Wed., 9/5	Executive	General business			DOEIC
Wed., 9/12	Monthly meeting	Vision 2020-Planning for the Future of ETPP Including Reuse, Historic Preservation and Stewardship	Cooke/Cain	Gonzalez Holden Lohmann Shoemaker Tapp Trujillo	
TBD	Site tour	On-site tour/Q&A	Cain/ Williams		
Wed., 9/26	EM/Stewardship	Vision 2020-Planning for the Future of ETPP including Reuse, Historic Preservation and Stewardship detailed discussion	Cooke/Cain	(As listed above)	DOEIC



Many Voices Working for the Community

Oak Ridge Site Specific Advisory Board

Monthly Meeting of the Oak Ridge Site Specific Advisory Board

Unapproved October 11, 2017, Meeting Minutes

The Oak Ridge Site Specific Advisory Board (ORSSAB) held its monthly meeting on Wednesday, October 11, 2017, at the DOE Information Center, 1 Science.gov Way, Oak Ridge, beginning at 6 p.m. A video of the meeting was made and may be viewed by contacting ORSSAB support offices at (865) 241-4583 or (865) 241-4584. The presentation portion of the video is available on the board's YouTube site at www.youtube.com/user/ORSSAB/videos.

Members Present

Leon Baker
Kathryn Bales
Christopher Beatty
David Branch
Richard Burroughs
Martha Deaderick
Eddie Holden
Michelle Lohmann

Belinda Price, Vice Chair
Leon Shields
Bonnie Shoemaker
Fred Swindler
John Tapp
Ed Trujillo
Rudy Weigel
Dennis Wilson, Chair

Members Absent

Rosario Gonzalez¹
Deni Sobek
Venita Thomas
Tara Walker¹
Phil Yager

¹Second consecutive absence

Liaisons, Deputy Designated Federal Officer, and Alternates Present

Dave Adler, Acting deputy manager and ORSSAB Alternate Deputy Designated Federal Officer (DDFO), Department of Energy, Oak Ridge Office of Environmental Management (DOE-OREM)
Neema Atashi, Environmental Protection Agency (EPA), via telephone
Kristof Czartoryski, Tennessee Department of Environment and Conservation (TDEC)

Others Present

Steve Cooke, DOE
Shelley Kimel, ORSSAB Support Office
Cameron Niemeyer, Hardin Valley Academy
Pete Osborne, ORSSAB Support Office

Eighteen members of the public were present.

Liaison Comments

Mr. Adler – Mr. Adler introduced the board’s new members: David Branch, Michelle Lohmann, Leon Shields, John Tapp, and Bonnie Shoemaker were in attendance. Tara Walker was unable to attend.

He went on to update the board on EM activities at the East Tennessee Technology Park (ETTP). There have been a couple of significant accomplishments, he said. On October 10, 2017, the Secretary of Energy transmitted the land transfer package for Duct Island (a particular land parcel of ETTP) to congress. Assuming everything goes well in congressional review, the land will be transferred to the Community Reuse Organization of East Tennessee (CROET) for potential industrial development upon approval. A second large tract, known as the K-31/K-33 site, was approved and transferred to CROET. The sites are about 200 acres each, he noted, and both could be attractive to large business tenants.

Mr. Czartoryski – No comments.

Mr. Atashi – Mr. Atashi attended by phone in place of EPA Liaison Connie Jones. He is new members of the EPA Oak Ridge team and is working to assist with the EPA’s remedial action activities at ETTP.

Public Comment

Luther Gibson – Mr. Gibson, a former ORSSAB board chair, recounted hearing the regularly tested warning sirens in Oak Ridge and wondered when or if there might not need to be regular public warning siren testing for ETTP once it is fully cleaned up. He also asked about railcars and wondered if it would be possible to restart the ‘Excursion Train,’ which used to travel by the site.

Lloyd Stokes – Mr. Stokes spoke for several members of the Oak Ridge Heritage and Preservation Association in attendance. He noted there were many new faces at the meeting and wondered how many of the new people are really familiar with all the preservation activity that has gone on in recent years. He referenced the Memorandum of agreement (MOA) to preserve historic contributions of K-25, and reminded attendees that the MOA required regular progress reports. He thinks the new participants should get a copy of this MOA so they could “get up to speed” on preservation efforts as well as future plans.

He would like an update on K-25 preservation because there are a lot of issues that need to be addressed. He referred to a recent Oak Ridge City Council meeting, which mentioned tax abatement for CROET as an example. He likewise noted work that needs to be done, including walking trails and signage at the ETTP site. In general, he said, he wants better communication from DOE and its partners to the citizens of Oak Ridge and would like them to also put more effort into generating publicity for the site.

Chuck Hope – Mr. Hope, a member of the Oak Ridge City Council clarified that the resolution Mr. Stokes referenced was for the Oak Ridge Industrial Development Board to work with CROET on land transfer. It creates a Payment In Lieu of Tax lease between CROET and the Industrial Development Board, he said.

Presentation

Mr. Adler gave a presentation on DOE’s “Vision 2020: Planning for the Future of ETTP Including Reuse, Historic Preservation and Stewardship.” The main points of his presentation are in Attachment 1.

Mr. Adler gave a quick summary of projects for the vision – The buildings gone, soil removed, and land transferred to private ownership.

The ultimate goal, he said, is for the empty land to be filled with manufacturing facilities that generate jobs, Manhattan Project Historic Park facilities, and conservation/recreation areas. The work that remains to be done at ETTP is to tear down a number of buildings, including the centrifuge test facilities. A significant amount of soil removal is ongoing. Groundwater is going to be a challenge, he acknowledged. Technical constraints limit the groundwater cleaning that can be performed. DOE is working with the city of Oak Ridge to get infrastructure transferred over to the city including water, wastewater and electrical as well as roads.

Mr. Adler went over several maps of the site that are included in Attachment 1: A schematic of the site that showed what buildings have been demolished, what buildings are remaining and what portions have been transferred or leased; a topographical map of ETTP that allowed him to discuss contaminated soil on the site that needs to be cleared as well as areas that have already been cleaned; and an aerial schematic that was used to discuss groundwater challenges on the site.

He emphasized that the environmental issues are a mixture of the materials left from decades of manufacturing. While there are some contamination plumes at the edges of the property, usually in conjunction with material burial grounds, he said, most of the contaminated areas are centered around the manufacturing areas.

Mr. Adler gave an overview of the land that has been transferred and discussed some of the ways it is, or could be, used. He said progress has been made toward putting an airport on the site, although it is still in the process of getting approval at the federal level. He said it would be a great draw for some of the targeted industries for the site like producers of certain medical products or time-sensitive shipping operators, among others.

Mr. Adler went into more detail on Duct Island and the K-31/33 parcels. Duct Island is technically in Roane County and is a large site well suited to a major manufacturing facility, he said. There is barge access, a rail transfer yard and good access to the interstate – all positives. However, it's a former DOE facility and there may be some stigma issues with the past uranium activities. It's a brownfield site with some building foundations that would have to be worked around. He felt these challenges could be overcome.

He returned to the topic of transferring key infrastructure. One example is the transfer of the fire station, which was transferred to the city of Oak Ridge several years ago, he said. Having the fire station there is another draw for manufacturing companies because it offers additional safety assurances.

The presentation then turned to historic preservation. Artist's renderings (Attachment 1) were shown to give an example of what the site will be in the future, including a small museum adjacent to the fire station. The plan also includes developing a large facility to showcase replica equipment like that used to enrich uranium at K-25. Other areas of the site will be used for conservation and recreation. There will be trails and a greenway, among other outdoor attractions.

Mr. Adler said he thought Mr. Stokes' idea to share the MOA was a good one and would like to give the board a summary of the MOA at a later date.

He mentioned there will be an upcoming event to promote the progress of the history center at ETTP. It's currently scheduled for 2-4 p.m. on Oct. 19. He invited the public and board to attend.

After the presentation board members asked the following questions.

Ms. Shoemaker asked if the K-15 facility's utilities have been transferred to the city. Mr. Adler said the sanitation facility is being demolished. She also asked about the sewer plant. Mr. Adler said that is also being decommissioned.

Mr. Trujillo asked about groundwater issues persisting. Mr. Adler said even if DOE comes up with ways to fully restore groundwater, they will take time to implement. So when property is transferred, the land deeds include prohibitions on groundwater use. DOE can definitely prevent public health issues, but there is doubt about the ability to restore the water resource to its original quality, he added. Mr. Trujillo said groundwater had been discussed at several previous board meetings and it was obviously of continued importance. Mr. Adler said DOE has planned for future needs at the site. It would be signing Records of Decision with its state and federal partners related to groundwater cleanup and management and that there will be ongoing stewardship at a minimum to protect the public and manage any issues.

Mr. Trujillo then asked about the timeline for the airport. Mr. Adler said the master plan for the airport is with the FAA for review. He suggested the FAA could rule on those plans over the next year or so. If that were to be approved, the airport could be in preliminary site preparation the following year. Lastly Mr. Trujillo asked about the history center and if there would be integration with the current museum, which is being relocated. Mr. Adler said yes, the general thinking is to use an "open spoke" concept for historical attractions with the relocated museum being the hub. DOE is working closely with the national park service on this concept, he said. DOE will retain ownership of facilities at ETP, Oak Ridge National Laboratory, and Y-12. The American Museum of Science and Energy will be relocated in the new downtown area. The hub is being designed there, and the park service will have a separate location — The plan is for tourists to come into town, see local attractions then be encouraged to continue to other areas.

Mr. Tapp asked about transferring electric and other utilities at ETP. Mr. Adler said DOE has to determine what water lines and other services meet current building codes and that the city actually wants to use. Those discussions are underway now, he said. Mr. Tapp asked if DOE will replace old lines. Mr. Adler said there have been instances where DOE has saved money by replacing some lines, rather than repairing the existing infrastructure, but DOE has to be careful because its core mission is to clean up, not build infrastructure or pursue economic development.

Mr. Tapp asked about financing for the proposed new airport. Mr. Adler said it would probably be a combination of state and federal financing.

Ms. Price asked about some of the groundwater plumes and asked about primary contaminants in the plumes. Mr. Adler said generally the issue is solvents – including degreasing solvents and other chemicals in some fuels. There may be some metals, he said, but it's primarily industrial solvents. He said this is very similar to many other former industrial facilities. Ms. Price reminded everyone that there would be a board presentation on groundwater in June 2018 and invited members of the audience to attend.

Ms. Price asked if the K-25 Virtual Museum would be maintained indefinitely. Mr. Cooke said there is interest in doing updates to the website periodically. DOE is working on that schedule currently and the website will remain even after the physical museums are available.

Mr. Tapp asked about groundwater and the contaminants' effect on fish and wildlife and the related food safety standards compared to drinking water standards. Mr. Adler said having all of the affected water meet drinking water standards is not realistic. He said the typical experience is contaminants can be seen close to the site, but are heavily diluted once they gain some distance from the source. He said

in all but a couple of cases here, the groundwater does not contain contaminants in percentages that are dangerous to wildlife. While dilution as a method of cleaning the water is not ideal, it is a solution.

Ms. Shoemaker asked for more information about water quality criteria that are higher than drinking water standards. Mr. Adler said yes, that is the case particularly with animals that may be consumed by humans, because of the potential for contaminants to build up inside an animal over time. He emphasized that DOE is monitoring the water extensively through sampling wells and other methods.

Mr. Trujillo asked about the work schedule in the DOE Groundwater Strategy Document compared to the completion schedule of Vision 2020. Mr. Adler said part of the vision is by 2020 DOE would be well on the way to making decisions on what to do with the groundwater. He said DOE is working with TDEC on some of these groundwater issues. He emphasized the difficulty of groundwater decisions due to the parties involved and the uncertainty.

Members of the public asked the following questions

Mr. Stokes asked what radioactive and chemical characterization is done on the facilities that are turned over to CROET and others by DOE. He also asked specifically how portions of the Clinch Riverfront would be characterized before being turned over. Mr. Adler said before DOE can transfer facilities it has to demonstrate that the environmental conditions are compatible with the intended reuse. The conditions pass scrutiny through an independent review group as well as reviews by the state of Tennessee and EPA. The goal is to clean up ETTP such that there are no restrictions on land use to a depth of 10 feet, he said. For soils there is a very thorough protocol in place to keep DOE from transferring restricted property. If there are use issues, those restrictions are part of the deed to the property, he said. For sewer and water transfer to the city, in addition to the state and federal organizations, the city also has its own review process and requirements. Regarding White Oak Lake and nearby portions of the river, Mr. Adler clarified the history of the area and releases of contaminants from DOE facilities into the Clinch River. He said DOE signed a Record of Decision that said it was not desirable to dig up the contaminated soils in the area. He said there is an agreement between DOE, the state and TVA that scrutinizes any ground disturbance in that area, such as for the building of boat docks or bridges, that has worked very successfully.

Bob Hatcher asked about technitium-99 (Tc-99) and hexavalent chromium at ETTP. Mr. Adler said there are some areas where the Tc-99, a radioactive isotope, exists in the soil and in some of the water. DOE has engaged with the city to deal with this material and dispose of it at appropriate facilities. Mr. Czartoryski clarified that the Tc-99 flowed along sewer lines to the sewer plant, not in drinking water to the water plant.

Ken Mayes asked about land transfer and historic preservation for the area at ETTP where there is a church. Mr. Adler said it would probably be retained by DOE because so many people care about that property. He noted the park service wants to help interpret things, but does not actually want to own property, which means EM has to find another path forward for some site ownership. Mr. Adler said DOE already has agreements to preserve the church area. He noted that if the airport was built, it would actually prohibit development near the church as the area would be part of the safety boundary. Mr. Adler said other than the documents already developed, he is unaware of additional requirements for preserving that area. However, he said, there is a provision that if, as land is developed, something of potential cultural significance is encountered, development must stop while any discoveries are analyzed. Otherwise, no preservation is planned. Mr. Mayes asked how the long-term operations of the K-25 site including any updates to the museum will be handled. Mr. Adler said that was a hard question. There is a plan, which for now says it will remain EM's obligation. DOE is working out internally what organization within DOE would shoulder the appropriations requirement for those stewardship activities. For example, DOE has a Legacy Management office, and EM is in discussions with them to perhaps take over the facilities. Mr. Mayes said to remember that DOE does have a

museum in town as well as a satellite. Mr. Adler said the park and associated preservation activity is all about partnerships. DOE is working with affected cities, the federal government and interested nonprofits and other organizations.

Mr. Weigel asked about bridges over certain routes once DOE's temporary haul road is no longer needed. Mr. Adler said the current regulatory obligation is to use the roads to clean up, then take everything down and let the area revert to nature. However, he said there is the potential that some other private entity might want to buy and use the haul road, which could be accommodated.

Mr. Tapp asked if the haul roads could be trails. Mr. Adler said that is one option that has been discussed. The discussion will be ongoing for the next couple years, he added.

Mr. Trujillo asked if the board could have CROET in as a speaker to talk about ETP.

Committee Reports

EM & Stewardship – Mr. Swindler gave a brief overview of the discussion of EM Outreach Efforts. There were a number of questions at the meeting, he said. A discussion about a recommendation on communication topics was initiated. Board members are interested in getting the message about cleanup activities out. Much like this meeting, he said, the committee also talked a lot about groundwater. Mr. Swindler noted Melyssa Noe's explanation of DOE's priority on offsite plume migration.

Mr. Swindler said the committee's June topic is groundwater, however leading up to that he expect there to be more discussion. Groundwater continues to be a topic of increased interest. He reported there was good participation on issue signup and management and gave the results of officer elections: himself as the chair and Mr. Tapp as vice chair. He noted staff had sent out the Groundwater Document as requested at the previous EM & Stewardship meeting.

Executive – Mr. Wilson said that the same groundwater issues had surfaced at the executive committee meeting as well as additional inquiry into what documents are available to review. He expects a lot of interest in the June meeting. Mr. Wilson reminded the board that he and Mr. Burroughs are going to the Hanford chair's meeting next week. He reminded members not going to the chairs meeting that the Oct. 19 event is something they should attend.

Open Discussion

Mr. Czartoryski said there was a correction to the travel opportunities provided in the meeting packet.

Announcements and Other Board Business

ORSSAB's next scheduled meeting will be Wednesday, November 8 at the DOE Information Center. The topic will be An Overview of the EM Complex.

The minutes of the September 13 meeting were approved.

Motions

10/11/2017.1

Mr. Wilson moved to approve the meeting agenda. Mr. Weigel moved to approve and Ms. Lohmann seconded. The motion was approved unanimously.

10/11/2017.2

Mr. Wilson asked to approve the September minutes. Mr. Baker moved to approve and Ms. Lohmann seconded. The motion was approved unanimously.

Alternate DDFO Report

No comment.

Action Items

Mr. Cooke will provide staff with a copy of the MOA for K-25 for distribution to members.

Mr. Wilson adjourned the meeting at 7:29 p.m.

Attachments (1) to these minutes are available upon request from the ORSSAB support office.

I certify that these minutes are an accurate account of the October 11, 2017, meeting of the Oak Ridge Site Specific Advisory Board.

Richard Burroughs, Secretary

Dennis Wilson, Chair
Oak Ridge Site Specific Advisory Board
DW/smk

DATE



Oak Ridge Site Specific Advisory Board

TRIP REPORT

- I. Name of Traveler:** Shelley Kimel
- II. Date(s) of Travel:** October 17–19, 2017
- III. Location of Meeting:** Kennewick, Washington
- IV. Name of Meeting:** SSAB Chairs Meeting
- V. Purpose of Travel:** To support ORSSAB participation in the meeting and gather information necessary to follow up on meeting actions and recommendations.

VI. Discussion of Meeting:

The meeting took place Wednesday, October 18, from 8:00 a.m. to 5:00 p.m., and Thursday, October 19, from 9:00 a.m. to noon at the Red Lion Inn in Kennewick. A tour of the DOE Hanford site preceded the meeting on Tuesday, October 17, from 7:30 a.m. to 5:00 p.m.

Eric Roberts, who supports both the Paducah and Portsmouth Site Specific Advisory Boards (SSABs), facilitated the meeting. Oak Ridge attendees included Dennis Wilson and Richard Burroughs, who represented ORSSAB during the meeting discussions, and David Adler, Acting Deputy Manager for the DOE Oak Ridge Environmental Management (OREM) program. EM SSAB Designated Federal Officer Dave Borak presided.

The agenda and presentation materials distributed at the meeting are available on request from ORSSAB staff. These documents are also available on the EM SSAB chairs website maintained by DOE-Headquarters at <https://energy.gov/em/services/communication-engagement/em-site-specific-advisory-board-em-ssab>. Headquarters staff took minutes during the meeting, and a transcript should be available from DOE in the near future.

The Hanford site and its SSAB did an excellent job in setting up and running the meeting. The arrangements for guests and meeting space met all our needs and offsite locations were thoughtfully chosen. The tour was very enlightening to me as someone new to the SSAB world. I particularly appreciated the visit to the Hanford site's museum—part of the Manhattan Project National Historic Park.

Wednesday, May 10

The first day of the meeting featured presentations by Associate Principal Deputy Assistant Secretary for EM Field Operations Stacy Charboneau; a round robin presentation of the eight SSABs' topics, activities, or accomplishments; a budget and planning update by Steve Trischman, Director of Budget and Planning; and a product development session, including discussion on developing effective recommendations by Earl Sheppard of the Savannah River SSAB.

EM Program Update – Ms. Charboneau spoke on a variety of topics, including EM progress and priorities; activities at the Waste Isolation Pilot Plant (WIPP); and regulatory reform. During her presentation, attendees also heard new information on the EM 45-day Review.

She touched on several new projects at New Mexico, Texas, and Washington sites that are underway or will start before the end of the year. She said the new administration has been very supportive of EM and pointed to the most recent funding request. She cautioned, however, that federal budgets are generally set and don't vary much over time, so it's up to the sites to share best practices to complete their missions on budget and as quickly as possible. That includes maintaining infrastructure without over investing and taking funds from the cleanup mission.

She noted WIPP is "critical" for EM cleanup, but is becoming interesting to other programs and agencies as a disposal option, too. A supplemental ventilation system will come online next month that will allow them to work on a new panel at WIPP and allow more shipments, which should ease the waste backlog many sites face.

Regulatory reform, she said, is one of the new initiatives in the administrative transition – what regulations are holding back project progress and what can be changed both inside DOE – consideration of various change orders was named a focus – and externally with regulatory agencies. She also noted DOE is looking at ways to improve how it handles waste. She noted the Energy Communities Alliance had recently published a paper on this topic, *Waste Disposition: A New Approach to DOE's Waste Management Must Be Pursued*, and said it was a very good document and that, while DOE does not agree with all the suggestions by ECA, she encouraged everyone to read it.

Chairs' Round Robin – Each board had a few minutes to talk about their site-specific topics, accomplishments, or recent activities. Mr. Wilson gave the ORSSAB presentation, which focused on the upcoming priorities for Oak Ridge Reservation cleanup that the board has identified:

1. Support Offsite Groundwater Monitoring
2. Excess Facilities Disposition
3. Ensure Future Waste Disposal Capacity

Mention of long-term stewardship funding in the Oak Ridge presentation generated significant discussion. DOE representatives suggested the boards might be interested in learning more about DOE's Legacy Management operations.

In the question and answer period after the presentations, there was interest by board members in the state of transportation infrastructure in and around WIPP, which sites use to transport waste. DOE representatives said they could consider some sort of briefing on the topic.

Budget and Planning Update – Mr. Trischman confirmed issues that Ms. Charboneau touched on: DOE's FY 18 budget request is looking good, but challenging issues remain, particularly in its liability for maintaining the sites, he said. Maintenance is becoming an ever-larger portion of the budget as cleanup activities stretch over years, so sites must focus on ways to speed up their process.

For fiscal year 2018, he said, there is new funding for excess facilities. For Oak Ridge, he noted the Biology Complex was a priority. He cautioned that, as sites are cleaned, shifting funds from one site to another will be a complex process. However, he said the new administration is looking at the budgeting process as part of the regulatory overhaul and has hopes that will give DOE some flexibility.

He noted the chairs had expressed a desire for more meaningful participation in the budgeting process and reminded everyone to prepare for the next community budget workshop.

EM SSAB Product Development – Participants at the meeting discussed how to improve recommendations given to DOE. Earl Sheppard, from the Savannah River SSAB, gave a presentation on this topic and a summary of ‘dos and don’ts’ was produced (Attachment 1).

The attendees discussed whether to issue a recommendation at the chairs meeting, but ultimately decided one was not needed. The chairs agreed that DOE communications (the subject of the last chairs recommendation) remained important. Transportation, infrastructure and Legacy Management were all discussed as potential future recommendation topics.

Thursday, May 11

The second day of the meeting offered a shorter agenda of presentations and discussions.

DOE-HQ News and Views – Mr. Borak mentioned that both recommendations from the previous chairs meeting – on the communications roadmap and above ground storage, respectively – had been sent to DOE and he will transmit responses as they are given. He noted that WIPP representatives said they appreciated the board’s support on the storage issue, but would prefer to focus on other items like ventilations needs first.

Mr. Borak summarized the previous day’s discussion on writing good recommendations and said he would like to have more “workshop-type” sessions like that at future chairs meetings. He noted that the 45-day Review and regulatory reforms were big topics at this chairs meeting and he would like the chairs to receive more information on those topics so they could come together and make an impactful recommendation at a future meeting.

The next chairs meeting was planned for Portsmouth, Ohio, he said, but that discussion at headquarters makes it likely that something different will happen. He promised to keep the chairs informed of plans for the next meeting and noted that he was trying to set up a future chairs meeting around a tour of WIPP.

Waste Disposition Update – Mark Gilbertson, DOE Associate Principle Deputy Assistant Secretary for Regulatory & Policy Affairs, provided a very comprehensive discussion that focused on infrastructure issues.

He noted that DOE is in the process of planning how to tackle the infrastructure needs and added EM is not accepting new facilities until and unless it has funding to complete deactivation and decommissioning. DOE’s strategy, he said, was to cleanup sites on a facility-by-facility basis, such as the Biology Complex at Y-12. He also mentioned progress toward transferring the K-1065 building in Oak Ridge.

He noted that there was a lot of interest at the meeting on transport and suggested DOE could work on giving the boards some kind of update specifically on packaging and transportation of waste.

VII. Significance to ORSSAB:

Understanding other boards’ issues and maintaining working relationships with the other SSABs is invaluable to helping this board do its job. Sharing experiences and best practices ensures the SSABs remain a valuable resource to DOE.

VIII. Names & Telephone Numbers of Significant Contacts:

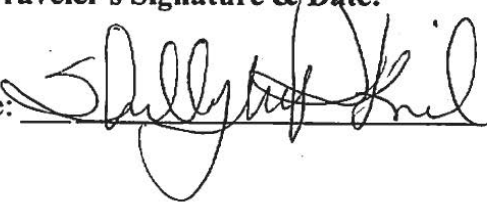
A current list of EM SSAB contacts is available from the ORSSAB support office.

IX. Action Items:

None

X. Traveler's Signature & Date:

Signature:

A handwritten signature in black ink, appearing to read "Shelly D. Knill", written over a horizontal line.

Date:

11-8-17

EM SSAB Product Development | Effective Recommendations

October 18, 2017

Things Needed for Drafting a Recommendation:	
<ul style="list-style-type: none"> • Control emotions • Think of everyone involved • Be on the same page • Keep an open mind • Consider the long-term goal • Tone is powerful • Do the right thing 	
Good Recommendations:	Bad Recommendations:
<ul style="list-style-type: none"> • Make sure it helps cleanup mission • Does it help public perspective of mission • Align recommendation with DOE path • Proper grammar and word usage • List outcomes are you seeking • Utilize core values • Clarity, concise, focus/DOE views as asset • Product shows you've done your homework • Transparency • Good information • Fundamental value connection included • Correct your peers if you hear misinformation • Recognize employees for money-saving ideas. Reinforces positive behaviors • Timely respond to Agency request 	<ul style="list-style-type: none"> • Not oversight committee/as advisory board you are a consulting group to DOE • No dominating person/personality • Avoid advocacy against DOE • Too many topics in one recommendation • Don't take it personally • Bad timing
No-No's:	
<ul style="list-style-type: none"> • Extensive background information/make concise • Avoid redundant repetitions of ideas • Avoid unclear content/intent must be clear for all audiences • Avoid in-actionable advice • No dominating person/personality • No inflammatory words or statements • Don't assume members are the general public • No personal attacks • No ultimatums - don't back DOE into corner with threats • No political commentary 	

EM SSAB Product Development | Effective Recommendations

October 18, 2017

From the DOE EM SSAB Policy and Procedures Desk Reference – June 2013

Effective Recommendations and Responses Guidance for EM SSAB

EM SSAB recommendations to the DOE should:

- Relate to topics within EM SSAB scope
- Provide advice with regard to EM priorities and work funded by EM
- Be directed to the person(s) within DOE EM and/or the federal site office with the authority to act on and provide adequate resources to implement the recommendation, if accepted
 - Remember: Copies of recommendations should be sent to the appropriate parties and EM Office of Intergovernmental and Community Activities
- Be submitted before a decision has been made
- Reflect community values
- Identify key issues and underlying concerns for the board
- Convey what outcomes are sought by the community, not necessarily how a recommendation should be implemented or what specific technologies should be used to obtain those outcomes
 - Ex: [Local EM SSAB]'s top priority is getting Z area cleaned up. [Local EM SSAB] is concerned about potential health hazards, so we want to have this done as quickly as possible, using back roads for hauling hazardous waste.
- Be formulated after all relevant information has been gathered and the assumptions related to the recommendations are verified as accurate and true.

FY 2018 Recommendation Tracking Chart			
Number	Title	Date Approved	Response
237	Recommendation 237: Recommendations on Above Ground Storage at the Waste Isolation Pilot Plant	10/31/17	
238	Recommendation 238: Recommendations on an EM Cleanup Performance Road Map and Communication Strategy	10/31/17	

EM Project Update

ETTP	September	October
Sitewide ROD	Planning and procurement to support hydraulic testing continued and the evaluation of the treatability study design characterization results was initiated. A second meeting with the regulators was scheduled to continue the discussion of an expedited decision approach for the targeted high priority areas of ETTP groundwater.	Subcontractor selected to support hydraulic testing and site preparations completed. Evaluation of the design characterization results continued. Meeting held with the regulators to discuss an expedited CERCLA decision for the K-31/K-33 area and a follow-up data evaluation workshop was scheduled for December
Zone 2 ROD		A Non-Significant Change to the ROD for Soils, Buried Waste, & Subsurface Structures was submitted to the regulators for review.
		The PCCR for EU Z2-28 was submitted to the regulators for review.
K-25/K-27 D&D		Critical Decision 4 (CD-4) for the K-27 Demolition project was approved. The project was completed in April, below budget and 20 months ahead of the approved completion date of December 31, 2018.
Poplar Creek Facilities	The K-832 Pumphouse and the K-832-H Cooling Tower demolition is complete. The building debris size reduction and disposal is also complete.	Continued deactivation activities in preparation for building demolition. Universal wastes are removed and the diesel tank is removed. Capping/plugging recirculated cooling water and fire protection lines associated with the facility continued.
	The process gas tie-line structures in Area E have been demolished, size reduced, and disposed.	
	An Addendum to the WHP for the Poplar Creek High-Risk Facilities and Tielines was submitted to the regulators.	
Central Neutralization Facility (CNF) Demolition	Project continued deactivating CNF equipment and facilities in preparation for demolition. Approximately 93 percent of universal wastes and 95 percent of legacy wastes have been removed from the facility.	Project continued deactivating CNF equipment and facilities in preparation for demolition. All of the universal wastes are removed from the facility. Fluid is drained from all of the equipment and 65 percent of process piping.
	Fluid has been drained from 91 percent of equipment and 24 percent of process piping.	
ETTP Historic Preservation	The Request for Proposal (RFP) was issued for the subcontract to fabricate the exhibits to be installed in the K-25 History Center, Equipment Building, and Viewing Tower.	OREM, UCOR, and the City of Oak Ridge hosted an event to preview the future K-25 History Center. The 75th Anniversary event included a lunch program for stakeholders and a tour for the public.
Remaining Facilities	An Addendum to the WHP for the Poplar Creek High-Risk Facilities and Tielines was submitted to the regulators.	
ORNL	September	October
Melton Valley ROD	The Waste Handling Plan for the Weir Cleanout and Bank Stabilization was submitted to the regulators for approval.	The Waste Handling Plan for the Weir Cleanout and Bank Stabilization was approved by the regulators.
Bethel Valley ROD	The PCCR for the 3026 and 3038 Limited Defined Scope was approved by the regulators.	
ORNL	September	October

EM Project Update

Molten Salt Reactor Facility	The installation of generator power for the stack was completed, allowing the remaining water to be pumped from the basement in order to replace the failed sump pumps. Temporary air diaphragm pumps were installed, and the Energized Electrical Work Permit has been lifted.	
U-233 Disposition	Submitted the Semiannual Report for Title V Major Source Operating Permit for Building 3019 at ORNL.	Continued operational activities at the Building 3019 Complex along with surveillance and maintenance operations in Building 2026.
	Continued evaluation of long-term actions needed to address stability of the soil drop out area.	
Y-12	September	October
Outfall 200 Mercury Treatment Facility (MTF)	Work was completed to allow the alternate access route to be opened, allowing the road north of the headworks site to be closed in support of Outfall 200 MTF early site preparation activities.	The on-site portion of the DOE Office of Project Management Oversight and Assessments independent cost estimate review for the MTF Balance of Construction was conducted.
	Awarded a portion of the early site preparation work to a local small business contractor. The work involves limited demolition of existing abandoned utilities and extension of new utility infrastructure to both the headworks and treatment plan sites.	OREM awarded an additional portion of the early site prep work to an 8(a) contractor to prepare pre-mobilization submittals for slab demolition and underground road crossings.
	The RDR/RAWP was submitted to the regulators for review.	
Y-12 Mercury Strategy		An update to the Strategic Plan for Mercury Remediation was submitted to the regulators for review.
Y-12 Facilities D&D	Nearly a ton of mercury has been collected during the draining of Alpha 4 West COLEX equipment. Tap and draining of piping continues for the west equipment and characterization of the east and south equipment	More than 21 gallons of mercury have now been recovered from draining of the Alpha 4 West COLEX equipment. More than 90 percent of the piping larger than 2 inches and more than 50 percent of the piping smaller than 2 inches has now been inspected and drained. Approximately one-third of 20 tanks on the mezzanines have been cleared.
	An 8A contractor has been selected for demolition of two of the Biology Complex buildings. The contractor is preparing necessary plans and procedures to support the start of activities.	
Off-Site Cleanup/Waste Management	September	October
Sludge Processing Facility Buildouts (SLPFB)	Conducted a workshop to gather additional available characterization data for sludge and associated supernate. The team identified a range of simulants needed for testing in support of Technology Readiness Level 6.	The project has completed the Sludge Test Area Code of Record. The Technology Assessment is 99 percent complete, the Cask Liner Study is 90 percent complete, and the Systems Function and Requirements Document is 90 percent complete.
	The project team reviewed the draft Integrated Systems Test Plan in preparation for transmittal to TDEC as part of one of the Site Treatment Plan milestones for Sludge.	

EM Project Update

Off-Site Cleanup/Waste Management	September	October
Transuranic Waste Processing Center (TWPC)	Completed the DOE Readiness Assessment for processing of the Tank W-1A soils.	The DOE Readiness Assessment for processing of the Tank W-1A soils was finalized and issued to allow the TWPC contractor to start processing operations using special equipment installed in the Cask Processing Enclosure.
EMWMF	A draft Explanation of Significant Differences was submitted to regulators to add Clean Water Act regulations to the ROD. This will allow for the discharge of landfill wastewater, including leachate.	Local TDEC personnel and a representative from TDEC Headquarters toured the piezometer installation activities. A briefing was provided that reviewed the core sections removed from the deep piezometer in the first group of three piezometers.
	Began installation of the first set of piezometers on the northern perimeter of EMWMF. Three sets (deep, intermediate, and shallow) of piezometers are being installed to better understand the groundwater levels north of Cells 1 and 2 of EMWMF. This information will also be used to understand the readings from the pneumatic piezometers installed underneath the geologic buffer for Cells 3 - 6 at EMWMF.	Installation of the three sets of piezometers upslope of the northeastern half of EMWMF was completed. Readings from these piezometers will assist in determining groundwater levels underneath EMWMF relative to the geologic buffer.
	The Sampling and Analysis Plan/Quality Assurance Project Plan (SAP/QAPP) was submitted to the regulators for review.	
EMDF	The temporary access roads to support future installation of site characterization wells are essentially complete - ahead of schedule. The project is in formal dispute over the RI/FS and Proposed Plan between DOE, EPA, and TDEC.	The project is in formal dispute over the RI/FS and Proposed Plan between DOE, EPA, and TDEC.
		The Field Sampling Plan (Ph. I) was submitted to the regulators for review.
Reindustrialization		The quitclaim deeds were signed transferring the K-31 and K-33 land parcels, consisting of approximately 185 acres, to CROET. These land parcels, located in the NW portion of ETTP, are the sites of the former K-31 and K-33 large process buildings.
WRRP		The D2 2017 Remediation Effectiveness Report was submitted to the regulators for approval.
		The D2 Offsite Groundwater Assessment Remedial Site Evaluation Report was submitted to the regulators for approval.

Travel Opportunities

Meeting/Event	Dates	Location	Reg. Cost	Website	Conference Lock Date; # Allocated Attendees	Deadline to Submit Requests
FY 2018						
2017 Fall Chairs Meeting (Attendees: Burroughs, Wilson)	Oct. 17-19, 2017	Hanford, WA	none		(2)	9/6/17
Intergovernmental Meeting with DOE (Pending requests: <i>none</i>)	Nov. 15-17, 2017	San Antonio	none		NA	10/4/17
Perma-Fix Nuclear Waste Mgmt. Forum Attendees: <i>none</i>	Nov. 27-29, 2017	Nashville			7/18/17 (2)	7/5/17
EPA National Brownfields Conference (Pending requests: Trujillo)	December 4-7, 2017	Pittsburgh	\$125	https://www.brownfields2017.org/	N/A	11/1/17
Waste Management Symposium (Attendees: Holden, Price)	March 18-22, 2018	Phoenix		www.wmsym.org	8/31/17 (2)	8/15/17
National Environmental Justice Conference & Training (Pending requests: <i>none</i>)	April 25-27, 2018	Washington, D.C.	none	http://thenejc.org	N/A	
2018 Spring Chairs Meeting (Pending requests: <i>none</i>)	TBD	TBD	none		TBD	TBD
RadWaste Summit (Pending requests: <i>none</i>)	Sept. 4-6, 2018	Henderson, Nevada	\$525	http://www.exchangemonitor.com/forums/annual-radwaste-summit/	TBD	TBD
DOE National Cleanup Workshop (Pending requests: <i>none</i>)	TBD	Alexandria, VA	\$425	https://energy.gov/em/national-cleanup-workshops	TBD	TBD

Shaded trips are closed