

Oak Ridge Site Specific Advisory Board Monthly Meeting



Wednesday, February 10, 2016

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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1. February
2. March (*draft*)
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BOARD MINUTES/RECOMMENDATIONS & MOTIONS

1. January 13, 2016 draft meeting minutes

REPORTS & MEMOS

1. EM Project Update
2. Abbreviations/Acronyms for EM Projects Update
3. Travel Opportunities for FY 2016
4. Spring 2016 EM SSAB Chairs Meeting—Save the Date

AGENDA



**Oak Ridge Site Specific Advisory Board
Wednesday, February 10, 2016, 6:00 p.m.
DOE Information Center
1 Science.gov Way, Oak Ridge, Tenn.**

AGENDA

- I. Welcome and Announcements (B. Price) 6:00–6:05
 - A. March 9 Presentation Topic: FY 2018 Budget Formulation and Prioritization of Projects
 - B. Introduction of New Members (S. Cange)
- II. Comments from the Deputy Designated Federal Officer, and EPA and TDEC Liaisons
(S. Cange, C. Jones, K. Czartoryski)..... 6:05–6:15
- III. Public Comment Period (S. Cui)..... 6:15–6:25
- IV. Presentation: Groundwater Monitoring Program (Dennis Mayton)..... 6:25–6:50
Question and Answer Period 6:50–7:05
- V. Call for Additions/Approval of Agenda..... 7:05
- VI. Motions 7:05–7:10
 - A. January 13, 2016, Meeting Minutes (D. Hemelright)
- VII. Responses to Recommendations & Comments (D. Adler) 7:10–7:15
- VIII. Committee Reports 7:15–7:20
 - A. EM/Stewardship (B. Hatcher, E. Trujillo)
 - B. Executive (B. Price)
 - 1. Planning for the Spring Chairs Meeting (B. Price)
- IX. Alternate DDFO’s Report (M. Noe) 7:20–7:25
- X. Additions to Agenda & Open Discussion 7:25–7:30
- XI. Adjourn 7:30

PRESENTATION MATERIALS

Presentation to be
distributed at or prior
to meeting

CALENDARS



Oak Ridge Site Specific Advisory Board

February 2016

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1	2	3 Executive Committee meeting 6 p.m.	4	5	6
7	8	9	10 Monthly SSAB meeting 6 p.m.	11	12	13
14	15 President's Day DOE/Staff holiday	16	17	18	19	20
21	22	23	24 Environmental Management & Stewardship Committee meeting 6 p.m.	25	26	27
28	29					

All meetings will be held at the DOE Information Center unless noted otherwise.

ORSSAB Support Office: (865) 241-4583 or 241-4584

DOE Information Center: (865) 241-4780

Board meetings on cable TV and YouTube	
Knoxville: Charter Channel 6, Comcast Channel 12	Sunday, February 21 and 28 at 10 p.m.
Lenoir City: Charter Cable Channel 193	Wednesdays, 4 p.m.
Oak Ridge: Channel 12	Monday, February 22, 7 p.m.
Oak Ridge: Channel 15	Monday, Wednesday, Friday, 8 a.m. & noon
YouTube	http://www.youtube.com/user/ORSSAB



Oak Ridge Site Specific Advisory Board

March 2016

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1	2 Executive Committee meeting 6 p.m.	3	4	5
6	7	8	9 Monthly SSAB meeting 6 p.m.	10	11	12
13	14	15	16	17	18	19
20	21	22	23 Environmental Management & Stewardship Committee meeting 6 p.m.	24	25	26
27	28	29	30	31		

All meetings will be held at the DOE Information Center unless noted otherwise.

Board member travel: D. Hemelright, B. Price – Waste Management Symposium, Mar. 6-10, Phoenix, AZ.
M. Deaderick – National Environmental Justice Conference & Training, Mar. 9-12, Washington, D.C.

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YouTube	http://www.youtube.com/user/ORSSAB

FY 2016 ORSSAB Work Plan/Schedule

Date	Event	Topic	Presenter	Location
OCTOBER 2015				
Wed., 10/7	Executive	Work plan rollout		DOEIC
Wed., 10/14	Monthly meeting	Progress at ETTP	Cain	DOEIC
TBD	Site tour	On-site tour Q&A		ETTP
Wed., 10/28	EM/Stewardship	Work plan rollout; ETTP Zone 1 Proposed Plan detailed discussion		DOEIC
NOVEMBER				
Wed., 11/4	Executive	General business		
Tues., 11/10	Monthly meeting	The Federal Oversight Model-Ensuring a Safe Work Environment <i>(Meeting date changed due to Veteran's Day on 11/11)</i>	Armstrong	Dinner meeting-location TBD
	Site tour	<i>(No site tour)</i>		
Wed., 11/25	EM/Stewardship	<i>(No meeting-due to upcoming Thanksgiving holiday)</i>		
DECEMBER				
Wed., 12/2	Executive	<i>(No meeting)</i>		
Wed., 12/9	Monthly meeting	<i>(No meeting)</i>		
	Site tour	<i>(no site tour)</i>		
Wed., 12/23	EM/Stewardship	<i>(No meeting-due to holidays)</i>		
JANUARY 2016				
Wed., 1/6	Executive	General business		DOEIC
Wed., 1/13	Monthly meeting	Waste Management	McMillan/Henry/DeMonia	DOEIC
TBD	Site tour	On-site tour/Q&A		TWPC
Wed., 1/27	EM/Stewardship	Waste Management detailed discussion		DOEIC
FEBRUARY				
Wed., 2/3	Executive	General business		DOEIC
Wed., 2/10	Monthly meeting	Groundwater Monitoring Program	McMillan	DOEIC
TBD	Site tour	On-site tour/Q&A		ORR
Wed., 2/24	EM/Stewardship	Groundwater Monitoring Program presentation detailed discussion		DOEIC

Date	Event	Topic	Presenter	Location
MARCH				
Wed., 3/2	Executive	General business		DOEIC
Wed., 3/9	Monthly meeting	FY 2018 Budget Formulation and Prioritization of Projects	Stokes	DOEIC
	Site tour	<i>(No site tour)</i>		
Wed., 3/23	EM/Stewardship	FY 2018 Budget Formulation and Prioritization of Projects detailed discussion		DOEIC
APRIL				
Wed., 4/6	Executive	General business		DOEIC
Wed., 4/13	Monthly meeting	(No ORSSAB monthly meeting due to Chairs meeting)		
Tues., 4/19	Chairs meeting tour	Chairs meeting tour		ORR
Wed., 4/20 Thurs., 4/21	Chairs meeting	Chairs meeting		DoubleTree, Oak Ridge
TBD	Community budget workshop	Community Budget Workshop		TBD
Wed., 4/27	EM/Stewardship	Community budget workshop detailed discussion		DOEIC
MAY				
Wed., 5/4	Executive	General business		DOEIC
Wed., 5/11	Monthly meeting	EM Disposal Facility (EMDF)	Wilkerson/Henry	DOEIC
TBD	Site tour	On-site tour Q&A		EMDF/EMWMF
Wed., 5/25	EM/Stewardship	EMDF detailed discussion		DOEIC
JUNE				
Wed., 6/1	Executive	General business		DOEIC
Wed., 6/8		Technology Development to Support Mercury Cleanup Strategy	Wilkerson/Darby/Peterson	DOEIC
TBD	Site tour	On-site tour Q&A		
Wed., 6/22	EM/Stewardship	Technology Development to Support Mercury Cleanup Strategy detailed discussion		DOEIC
JULY				
Wed., 7/6	Executive	Annual meeting planning		DOEIC
Wed., 7/13	New member training	(No ORSSAB monthly meeting)	Adler	DOEIC
TBD	Site tour	New Member Tour	Adler	ORR
Wed., 7/27	EM/Stewardship	<i>(No meeting)</i>		DOEIC

Date	Event	Topic	Presenter	Location
AUGUST				
Wed., 8/3	Executive	Annual meeting planning		DOEIC
Wed., 8/10	Monthly meeting	(No ORSSAB monthly meeting due to Annual meeting)		
Sat., 8/13	Annual meeting	Annual meeting		TBD
	Site tour	<i>(No site tour)</i>		
Wed., 8/24	EM/Stewardship	<i>(No meeting)</i>		
SEPTEMBER				
Wed., 9/7	Executive	General business		DOEIC
Wed., 9/14	Monthly meeting	Vision 2020-Planning for the Future of ETPP including Reuse, Historic Preservation and Stewardship	Cain/Adler/Cooke	DOEIC
TBD	Site tour	On-site tour/Q&A		ETTP
Wed., 9/28	EM/Stewardship	Vision 2020-Planning for the Future of ETPP including Reuse, Historic Preservation and Stewardship detailed discussion		DOEIC

BOARD MINUTES/ RECOMMENDATIONS

DRAFT

Many Voices Working for the Community



Oak Ridge Site Specific Advisory Board

Unapproved January 13, 2016 Meeting Minutes

The Oak Ridge Site Specific Advisory Board (ORSSAB) held its monthly meeting on Wednesday, January 13, 2016, at the DOE Information Center, 1 Science.gov Way, Oak Ridge, Tennessee, 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 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	Bob Hatcher	Belinda Price, Chair
Richard Burroughs	David Hemelright, Secretary	Scott Stout
Alfreda Cook, Vice Chair	Howard Holmes	Ed Trujillo
Martha Deaderick	Donald Mei	Dennis Wilson
Lisa Hagy	Greg Paulus	Wanfang Zhou

Members Absent

Mike Ford
Jennifer Kasten
Mary Smalling
Coralie Staley

Liaisons, Deputy Designated Federal Officer, and Alternates Present

Dave Adler, ORSSAB Alternate Deputy Designated Federal Officer (DDFO)
Susan Cange, Manager for Department of Energy (DOE) Oak Ridge Office of Environmental Management (OREM) and ORSSAB DDFO
Jeff Crane, Environmental Protection Agency (EPA) Region 4 (via telephone)
Kristof Czartoryski, Tennessee Department of Environment and Conservation (TDEC)
Melyssa Noe, ORSSAB Alternate Deputy Designated Federal Officer (DDFO)

Others Present

Brian DeMonia, DOE
Spencer Gross, ORSSAB Support Office
Brian Henry, DOE
Ashley Huff, ORSSAB Support Office
Alana Joldersma, Student Representative
Bill McMillan, DOE
Pete Osborne, ORSSAB Support Office

Seventeen members of the public were present.

Liaison Comments

Ms. Cange –

- With regard to funding for FY2016, Congress passed an appropriations bill on December 19, with support from Sen. Alexander and Rep. Fleischmann, that will benefit significantly the Oak Ridge cleanup program. Total funding for FY2016 is \$474 million, an increase of \$108 million above the president's request. Planning is currently underway for the allocation of these funds, and more information will be shared in the coming months as these plans are finalized. No restrictions are placed on spending the money in a specific time frame. Plans are underway for this year's spending, but some of these funds may carry over into next year, per common practice.
- The demolition for K-27, the last of the gaseous diffusion plant buildings at the East Tennessee Technology Park (ETTP), has been set for Monday, February 8 at 10 a.m. This event marks the end of "Vision 2016," a push to demolish all five gaseous diffusion plant buildings at ETTP by the end of the calendar year. A small celebration will be held at the site to commemorate the demolition. ORSSAB board members are invited to attend. Interested members should notify Melyssa Noe or ORSSAB staff.

Mr. Adler – No comment.

Mr. Crane – In regards to FY2016 funding, EPA will work with DOE to plan and utilize the additional funding.

Mr. Czartoryski – No comment.

Public Comment

None.

Presentation

Three presenters discussed waste management operations on the Oak Ridge Reservation (ORR) who discussed various waste streams and treatment and disposal practices for ETTP, Oak Ridge National Laboratory (ORNL), and the Y-12 National Security Complex. Presentation visuals and key points are included as Attachment 1. A brief overview of each presentation is given below:

Brian DeMonia, *Branch Chief, Safety, Security and Waste Management*, discussed "Environmental Management (EM) Waste Management," and gave a broad overview of the various waste streams generated at ORR, along with the treatment and disposal options allowable for each type of waste.

EM waste management practices are foremost governed by environmental and safety regulations that determine how and where waste can be processed, stored, and/or disposed. Secondly, the most cost-effective options are preferred. In keeping with these objectives, waste disposal follows a hierarchy that prefers reuse when possible, onsite disposal as appropriate, and, lastly, offsite disposal when necessary (slide 3). Reusing or recycling are the best and most cost-effective options but are not always possible given the types of waste being handled. Generally, ORR-generated waste must be treated and disposed or stored, and the most cost-effective approach is to utilize onsite landfills. If the requirements for onsite landfills cannot be met, then offsite disposal becomes necessary. In this case, preference is given first to DOE facilities as cheaper options and lastly to commercial vendors as these are more expensive.

A number of waste streams are generated at ORR (slide 2), and not all of them are radiological or hazardous. Some ORR-generated waste can be treated and/or disposed onsite by various facilities, including ORR landfills, the Liquid Gaseous Waste Operations (LGWO), and the Environmental Management Waste Management Facility (EMWMF). Waste that cannot meet the criteria for onsite facilities is handled offsite preferably by a DOE facility, such as the Nevada National Security Site (NNSS) or the Waste Isolation Pilot Plant (WIPP) in New Mexico, or alternatively by commercial vendors. The table below illustrates various waste types and their disposal pathways.

Waste Type	Onsite	Offsite
Clean waste (office, cafeteria, clean building debris)	ORR Landfills	N/A
Liquid Low-Level Waste (LLLW)	LGWO	Commercial vendor
Solid Low-Level Waste (SLLW)	EMWMF	NNSS; commercial
Transuranic (TRU) Waste	Treatment only	WIPP
Liquid Mixed Waste	N/A	Commercial vendor
Solid Mixed Waste	EMWMF	NNSS; commercial vendor

Significant progress has been made toward dispositioning legacy waste.

- ✓ As of FY2012, 501 containers of mixed low-level waste with no clear path for disposal were in storage. An enormous amount of research was conducted to find appropriate and cost-effective treatment and disposal options. Much of that waste has now been disposed, allowing for the closure of several ETPP storage facilities and the subsequent reindustrialization of those areas. Currently, 32 containers remain.
- ✓ Likewise legacy mercury waste had no clear cost-effective option in FY2012. The single bid at that time was \$4.7 million. This waste is now being disposed of for \$120,000.
- ✓ Additionally, copper recycling at Switchyard K-732 at ETPP has also reduced demolition costs (slides 4-5).

Bill McMillan, *Portfolio Federal Project Director for ORNL*, discussed “Liquid, Gaseous, and TRU Waste Management at ORNL.”

LGWO at ORNL consists of approximately 64 facilities, which include manholes, pump stations, ventilation, and hard piping. The LGWO treats liquid and gaseous waste streams generated by OREM and the Office of Science. The waste includes process water, groundwater, and exhaust from building ventilation systems.

The entire LGWO infrastructure includes three separate systems for (1) liquid low-level waste (LLLW), (2) process waste, and (3) gaseous waste.

- The LLLW System treats highly contaminated liquid wastes from ORNL operations, generated primarily by the Radiochemical Environmental Development Complex, an Office of Science facility where most of the medical isotope work is done. LLLW is collected by a series of tanks and underground piping, treated for volume reduction, and the resulting concentrated LLLW or “sludge” is transferred to long-term storage tanks in Bethel and Melton Valleys. (This sludge will eventually be processed at the Transuranic Waste Processing Center (see below). Approximately 120,000 gallons per year of waste water are produced and treated (slide 8).

- The Process Waste System treats lightly contaminated waste water and groundwater collected from various sources throughout Bethel and Melton valleys. A series of tanks, pumping stations, and hard piping transfer collected waste to the Process Waste Treatment Complex. Two primary buildings are used, 3608 and 3544. Building 3544, the older of the two, uses ion exchange columns to treat the radiological component. Treated waste from 3544 is pumped to 3608, which removes organics, mercury, and adjusts PH before discharge. The Process Waste System treats approximately 110 million gallons per year (slide 9).
- The Gaseous Waste System provides ventilation services to ORNL. It consists of a ventilation collection system, including cell ventilation and hot off-gas systems, that treats the air before it is discharged from the 3039 stack. Around 100,000 cubic feet per minute of air is released from the stack (slide 10).

LGWO typically has an annual budget of \$23 million. Some of the additional funding received for FY2016 will go toward deferred maintenance of these facilities, which would entail replacing and upgrading pipelines and electrical components as well as repairing and resealing dikes, etc.

In addition to LGWO at ORNL, a separate facility called the Transuranic (TRU) Waste Processing Center (TWPC) manages the treatment and disposal of legacy and newly generated TRU waste (slide 11). TRU waste is a special class of waste that has higher concentrations of transuranic alpha-emitting radio isotopes. It poses a high risk, particularly in terms of breathing, so processing of TRU waste is done in hot cells or glove boxes to protect personnel from contact hazards. TWPC sorts, characterizes, and packages waste so that it can be disposed of properly. Much of the waste processed by TWPC actually classifies as low-level waste and can be disposed of at NNS. Waste classified as TRU waste is packaged for disposal at WIPP.

Despite the temporary closure of WIPP, the Oak Ridge TRU Waste Program is making good progress in dispositioning legacy TRU waste (slide 12). Inventive strategies, such as the development of 72B canister “over-packs” (slide 13), have allowed processing operations to continue. TRU waste is temporarily being stored onsite and is ready to ship offsite for disposal when WIPP resumes operations.

The annual budget for TWPC is approximately \$50 million.

Brian Henry, *Acting Portfolio Federal Project Director for Y-12*, discussed “Oak Ridge Reservation Y-12 Area Landfills.”

Multiple landfill operations at Y-12 manage ORR waste streams (slide 15). In addition to EMWMF, which only accepts Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) waste, separate landfills exist for industrial waste, some of which can be classified, and clean construction and demolition debris.

EMWMF has been critical to the success of the Oak Ridge Cleanup Program. It has a waste footprint of 28 acres with a capacity of approximately 2 million cubic yards. It can receive low-level, mixed low-level, and mixed waste (see slide 16). It is approximately 70 percent full.

In addition to EMWMF, a smaller landfill is available to accommodate classified waste (slide 17). This 4-acre landfill essentially takes industrial waste with minor contamination and has a capacity of 89,000 cubic yards (16 percent full).

Two landfills on Chestnut Ridge also serve ORR sites (slide 18-19). One is a 26-acre industrial landfill that receives office-related sanitary waste from ORR sites. It can also accept minimally contaminated industrial debris. It has a capacity of approximately 2 million cubic yards (40 percent full). Another landfill on Chestnut Ridge receives only clean construction and demolition debris. It is a 30-acre landfill also with approximately a 2 million cubic yard capacity (42 percent full).

Except for the clean landfill, which contains no contaminated waste, all of the others have leachate protection systems in place to collect and sample contact water before it is approved for discharge into the Y-12 system, which ultimately flows into the City of Oak Ridge sewer system.

The annual budget for ORR Y-12 area landfills is approximately \$23 million.

After the presentation, board members posed the following questions:

Mr. Trujillo asked Mr. McMillan: While WIPP is not taking waste, is a timeline in place for processing our TRU waste further when they do get ready to accept? Mr. McMillan responded: The timeline cannot be determined until we know what changes WIPP will implement and whether or not any new requirements or criteria in characterization or waste acceptance will be in effect. We do not foresee any changes to processing and do not expect to reprocess any of our TRU waste, but requirements for additional analysis or recharacterization are possible. We will soon be meeting with the TRU corporate board and will hopefully gain additional insights.

Mr. Hatcher asked the presenters: Can you tell whether or not you are capturing all the groundwater effluent and that it is not, for example, going into White Oak Lake? Mr. McMillan responded: It's actually cap leachate, rather than groundwater, that is being captured as runoff. No active pumping of the groundwater occurs in that area. It is collection of cap runoff and leachate that is being done. The only exception in Bethel Valley is the tank W-1 plume where we are doing some capture, pump, and treat.

Committee Reports

EM & Stewardship

- At the October meeting the committee unanimously elected Mr. Trujillo and Mr. Hatcher as co-chairs.
- A follow-up discussion addressed the October 14 ORSSAB presentation on progress at ETTP, combined with a tour of ETTP. The tour, led by Mr. Adler, was found to be immensely helpful in clarifying cleanup operations and answering questions.
- Lengthy discussion revisited a draft of the Recommendation on the "Final Proposed Plan for Soils in Zone 1 at East Tennessee Technology Park."
- The FY2016 work plan was also addressed. An effort will be made to illustrate the cleanup operations with more informative visual aids. Mr. Adler said DOE is looking for ways to augment presentations and discussions with information on the walls to make the board meetings easier and more productive.

- The committee is interested in DOE engagement with the public on the issue of the proposed Environmental Management Disposal Facility (EMDF), for example, through meetings with the League of Women Voters and the Oak Ridge City Rotary Club. Ms. Cange said DOE is in the planning stages for a new disposal cell, EMDF, and is working to revise CERCLA documentation. DOE plans to submit the document to the State of Tennessee and EPA in March. In the meantime, DOE is participating in local meetings to provide information to the public on the planning status and answer questions. DOE will continue its communications effort and is currently working to incorporate all three agencies (State of Tennessee, DOE, EPA) into these meetings so that they can go together and discuss the various disposal options being evaluated and help to answer questions that come up in advance of the release of a proposed plan, which would then undergo a public comment period.

Executive

- Ms. Price and Ms. Cook participated in a conference call with EM SSAB Chairs. Of note is that Monica Regalbuto participated for the first time since being named Assistant Secretary for Environmental Management.
- The committee followed up on concerns addressed by Ms. Cook on the K-25 Virtual Museum. Mr. Hemelright and Ms. Cook will solicit comments from the board via email regarding the website. Responses will be collected and circulated to the board and then presented to DOE.
- Planning for the EM SSAB Spring Chairs Meeting is underway. It will take place April 19-21, 2016, at the Doubletree Hotel, Oak Ridge, Tennessee. A tour of ORR is scheduled for April 19, a full day of meetings on April 20, and a half day of meetings on April 21. Board members are encouraged to attend. A social gathering will take place on April 20. High-level DOE managers will report on topics such as WIPP and the budget. A steering committee is working on an agenda for the meeting. Board members should inform ORSSAB staff if they would like particular topics to be considered for the agenda. Board members will be provided with an agenda as soon as one is finalized.
- Ms. Deaderick attended a November 19 meeting of the Center for Oak Ridge Oral History at the Oak Ridge Public Library, which included a report from D. Ray Smith on a recent conference in Washington, D.C., to establish the major themes for the Manhattan Project National Historic Park. Mr. Smith emphasized the value of the center's collection, which includes over 600 interviews, transcripts, and tapes.

Announcements and Other Board Business

- Lisa Hagy, who has served ORSSAB for four years, is retiring from her seat on the board. OREM and ORSSAB thanked Ms. Hagy for her contribution to the board over the years. Ms. Hagy was presented with a commemorative plaque honoring her commitment.
- Ashley Huff has joined ORSSAB staff and will be replacing Spencer Gross, who will retire.
- A tour of the Y-12 landfills is scheduled for Tuesday, January 19, at 9 a.m. Board members interested in attending the tour should notify staff immediately.
- ORSSAB's next scheduled meeting will be Wednesday, February 10, 2016, at 6 p.m. at the DOE Information Center. The topic will be the "Groundwater Monitoring Program."

- The minutes of the October 14 meeting were approved.
- The minutes of the November 10 meeting were approved.
- The Recommendation on the “Final Proposed Plan for Soils in Zone 1 at East Tennessee Technology Park” was approved (Attachment 2).

Alternate DDFO Report

Melyssa Noe said ORSSAB will be gaining three new members. The new member package is expected to be approved by DOE-EM within two weeks. Also, the first planning meeting for the spring Chairs Meeting will take place next week. DOE will begin to have more information on the agenda and will pass that information along to ORSSAB as it becomes available.

Motions

1/13/16.1

Mr. Hemelright moved to approve the minutes of both the October 14, 2015, meeting and the November 10, 2015, meeting. Mr. Paulus seconded and motion passed **unanimously**.

1/13/16.2

Mr. Paulus moved to approve the Recommendation on the “Final Proposed Plan for Soils in Zone 1 at East Tennessee Technology Park.” Mr. Hemelright seconded and the motion passed **unanimously**.

Action Items

Closed Action Items

1. Lacking a quorum to vote at the November 10 meeting on the draft of the Recommendation on the “Final Proposed Plan for Soils in Zone 1 at East Tennessee Technology Park,” Ms. Cook asked if a D4 version of the proposed plan would be coming out before the board meets again in January. Ms. Noe said she would check to see if a D4 is planned. A D4 has been issued and has been shared with board leadership.

Open Action Items

1. Mr. Hemelright will solicit responses from absentee members.

The meeting adjourned at 7:38 p.m.

Attachments (2) to these minutes are available on request from the ORSSAB support office.

I certify that these minutes are an accurate account of the January 13, 2016, meeting of the Oak Ridge Site Specific Advisory Board.

Dave Hemelright, Secretary

Belinda Price, Chair
Oak Ridge Site Specific Advisory Board
BP/ach

DATE

REPORTS & MEMOS

EM Project Update

ETTP	December	January
Zone 1 Final Soils ROD	TDEC has approved the D4 version of the Proposed Plan. The extension request for the Record of Decision and follow-on documents was approved by the regulators.	The Proposed Plan public comment period was initiated. A Public Information meeting will be held in late February.
Zone 2 ROD		Completed preparation of the Technical Memorandum for EU Z2-20, which is a portion of the Building K-25 footprint. This Memorandum documents the results of characterization. Also continued characterization of EU Z2-16.
K-25/K-27 D&D	Overall K-27 deactivation is 97 percent complete. Project has completed all NDA inside the facility and thus the discovery phase is completed. The project has removed all of the interferences that restrict the tubing/duct removal.	The K-27 project declared Criticality Incredible on January 6th, and demolition is scheduled to begin in February. A final walkdown was completed on the inside of the facility to verify that all required materials have been removed to declare the building demo ready.
	Transite panel removal is 84 percent complete. The Stormwater Pollution Prevention Plan implementation completed digging and pouring concrete on the east and west ends, grouting 92 percent of the sanitary sewer pipes and 95 percent of the asbestos abatement. All of the storm sewers and electrical vaults were completed.	Overall K-27 deactivation is 99 percent complete. The transite panel removal is 87 percent complete and is holding due to obstructions that need to be removed after all of the inside work is complete.
	The fluorine exhaust header vent, purge, drain, and inspect was completed. NDA and exceedance piping removals are complete; foaming is 85 percent complete, and pipe marking has begun.	
K-732 Switchyard Demolition	Waste characterization is complete. The removal of bushings is 48 percent complete.	Waste characterization is complete via the receipt of the Special Waste Permit for the condensers.
	Radioactive surveying was completed. The disassembly of the buss work, structural stands, and fire suppression system is 13 percent complete.	Selective demolition was started and is 90 percent complete. The installation of the nitrogen sheds was also started to support the transformers that will transferred to the City of Oak Ridge.
	Phase one of the asset recovery is complete. Phase two of the asset recovery is 65 percent complete.	
	Phase three of the asset recovery, the removal of fiberglass tanks, is complete. Phase four of the asset recovery is 42 percent complete.	
Remaining Facilities	The Low Risk/Low Complexity PCCR for FY 2015 was submitted to the regulators.	
ORNL	December	January
U-233 Disposition	Building 3019 roof replacement activities continue with approximately 60 percent of the penthouse reroof activity complete.	A Corrective Action Plan was submitted to address the Fire Protection Assessment of Building 3019.
	Repair of diesel generator 3146 was completed and returned to operations.	The Worker Safety and Health Program revision was approved as well as the Radiation Protection Program revision.
	The Closure Facility Hazards and Closure Facility Controls at Buildings 3017 and 3019 were approved.	

EM Project Update

ORNL	December	January
MSRE D&D		The PCCR for MSRE of Secondary Low-Level Waste was submitted to the regulators for review.
OR Research Reactor Pool Seep	The project was completed and all waste was disposed.	
Y-12 Site	December	January
Outfall 200 Mercury Treatment Facility (MTF)	The ROD Amendment for the Phase I Interim Source Controls Actions in UEFPC was submitted to the regulators. This adds a response action to treat surface water entering East Fork Poplar Creek at Outfall 200 to remove mercury.	
Y-12 D&D S&M		The PCCR for Building 9808 Demolition was submitted to the regulators for review.
Off-Site Cleanup/Waste Management	December	January
Environmental Management Waste Management Facility (EMWMF)	The PCCR for Fiscal Year 2015 was approved by the regulators.	
Environmental Management Disposal Facility (EMDF)	The extension request for the Proposed Plan and follow-on documents was approved by the regulators. Comment resolution continued on the RI/FS document.	Work continues on responding to regulator comments on the RI/FS document. SSAB members received a tour of the EMDF site.
TRU Waste Processing Center	The Site Treatment Plan annual update was approved by TDEC. This update identifies enforceable milestones for mixed low level waste streams and transuranic mixed waste streams at all three plants.	TWPC hosted a new member orientation visit for recently confirmed members of the Defense Nuclear Facilities Safety Board. The visit included a project briefing and a facility tour.
ORR Groundwater Strategy	Initial test runs of the regional groundwater flow model were completed and preparation for model calibration is underway.	A meeting of the Technical Advisory Group (TAG) technical committee was held to review progress on regional groundwater flow model development.
Reindustrialization	Independent verification of the radiological condition of the K-33 Area Parcel and the K-31 Area Parcel was completed. This cleared the last environmental review required for DOE to release the property. The property consists of approximately 185 acres.	
Water Resources Restoration Program	Preparation of the 2016 Remediation Effectiveness Report is ongoing.	Preparation of the 2016 Remediation Effectiveness Report is ongoing.

Abbreviations/Acronyms List for Environmental Management Project Update

AM – action memorandum

ARRA – American Recovery and Reinvestment Act

BCV – Bear Creek Valley

BG – burial grounds

BV- Bethel Valley

CARAR – Capacity Assurance Remedial Action Report

CBFO – Carlsbad Field Office

CERCLA – Comprehensive Environmental Response, Compensation
and Liability Act

CEUSP – Consolidated Edison Uranium Solidification Project

CD – critical decision

CH – contact handled

CNF – Central Neutralization Facility

CS – construction start

CY – calendar year

D&D – decontamination and decommissioning

DOE – Department of Energy

DSA – documented safety analysis

DQO – data quality objective

EE/CA – engineering evaluation/cost analysis

EM – environmental management

EMDF – Environmental Management Disposal Facility

EMWMF – Environmental Management Waste Management Facility

EPA – Environmental Protection Agency

ETTP – East Tennessee Technology Park

EU – exposure unit

EV – earned value

FFA – Federal Facility Agreement

FFS – Focused Feasibility Study

FPD – federal project director

FY – fiscal year

GIS – geographical information system

GW – groundwater

GWTS –groundwater treatability study

IROD – Interim Record of Decision

LEFPC – Lower East Fork Poplar Creek

LLW – low-level waste

MLLW – mixed low-level waste

MSRE – Molten Salt Reactor Experiment

MTF – Mercury Treatment Facility

MV – Melton Valley

NaF – sodium fluoride

NDA – non-destructive assay

NEPA – National Environmental Policy Act

NPL – National Priorities List

NNSS – Nevada National Security Site (new name of Nevada Test Site)

NTS – Nevada Test Site

OR – Oak Ridge

OREM – Oak Ridge Office of Environmental Management

ORNL – Oak Ridge National Laboratory

ORO – Oak Ridge Office

ORR – Oak Ridge Reservation

ORRR – Oak Ridge Research Reactor

ORRS – operational readiness reviews

PaR – trade name of remote manipulator at the Transuranic Waste
Processing Center

PCB - polychlorinated biphenyls

PCCR – Phased Construction Completion Report

PM – project manager

PP – Proposed Plan

PPE – Personal Protective Equipment

QAPP – Quality Assurance Project Plan

RA – remedial action

RAR – Remedial Action Report

RAWP – Remedial Action Work Plan

RCRA – Resource Conservation Recovery Act

RDR – Remedial Design Report

RDWP – Remedial Design Work Plan

RER – Remediation Effectiveness Report

RH – remote handled

RI/FS – Remedial Investigation/Feasibility Study

RIWP – Remedial Investigation Work Plan

RmAR – Removal Action Report

RmAWP – Removal Action Work Plan

ROD – Record of Decision

RUBB – trade name of a temporary, fabric covered enclosure

S&M – surveillance and maintenance

SAP – sampling analysis plan

SEC – Safety and Ecology Corp.

SEP – supplemental environmental project

STP – site treatment plan

SW – surface water

SWSA – solid waste storage area

Tc – technetium

TC – time critical

TDEC – Tennessee Department of Environment and Conservation

TRU – transuranic

TSCA – Toxic Substances Control Act

TWPC – Transuranic Waste Processing Center

U – uranium

UEFPC – Upper East Fork Poplar Creek

UPF – Uranium Processing Facility

URS/CH2M – (UCOR) DOE's prime cleanup contractor

VOC – volatile organic compound

WAC – waste acceptance criteria

WEMA – West End Mercury Area (at Y-12)

WHP – Waste Handling Plan

WIPP – Waste Isolation Pilot Plant

WRRP – Water Resources Restoration Program

WWSY – White Wing Scrap Yard

Y-12 – Y-12 National Security Complex

ZPR – Zero Power Reactor

Travel Opportunities

Meeting/Event	Dates	Location	Reg. Cost	Website	Conference Lock Date; # Allocated Attendees	Deadline to Submit Requests
FY 2015						
Intergovernmental Meeting with DOE (Pending requests: _____)	November 18-20, 2015	New Orleans	none	http://www.cvent.com/d/hrq66w	N/A	10/7/15
Perma-Fix Nuclear Waste Management Forum (Bi-annual event) Attendees: Hemelright, Holmes	Nov. 30 - Dec. 3, 2015	Nashville	\$500	http://events.constantcontact.com/register/event?llr=8n5x6qkab&oeidk=a07eb-edtkdrb8c2e800	42271	8/26/15
Waste Management Symposium Attendees: Hemelright, Price	March 6-10, 2016	Phoenix	\$1,090 (early registration rate, ends 12/31/15)	www.wmsym.org	11/1/2015 (2)	1/6/16
National Environmental Justice Conference & Training Attendees: Deaderick	March 9-12, 2016	Washington, D.C.	none	http://thenejc.org	N/A	2/3/16
Ohio EPA National Brownfields Conference Attendees: Hemelright	April 6-7, 2016	Columbus, Ohio	\$125	http://epa.ohio.gov/derr/BrownfieldConference2016.aspx	N/A	3/2/16
RadWaste Summit (Pending requests: _____)	September 7-9, 2016	Summerlin, Nevada	\$625 (through 4/29/16)	http://www.exchangemonitor.com/forums/annual-radwaste-summit/	3/2/16	2/24/16
2016 Fall Chairs Meeting (Pending requests: Hemelright, Price)	TBD	Las Vegas	none		N/A	TBD
Western Waste Site Tour (Pending requests: _____)	Postponed pending resolution of issues at WIPP	Waste Isolation Pilot Plant, Nevada Nat'l Security Site	none	none		

Shading indicates closed trips

Please Mark Your Calendar for the Next Semiannual
EM Site-Specific Advisory Board Chairs Meeting

April 19-21, 2016

DoubleTree Hotel
215 S. Illinois Avenue
Oak Ridge, Tennessee

- ❖ April 19, 9:00am - 1:30pm — Oak Ridge Reservation Tour
- ❖ April 19, 2:00pm - 5:00pm — Staff Meeting
- ❖ April 20, 8:30am - 5:00pm — Chairs Meeting
- ❖ April 20, 6:00pm - 9:00pm — Optional Evening Activity
- ❖ April 21, 8:30am - 12:30pm — Chairs Meeting

Watch your email in mid-February for information about registration