

Oak Ridge Site Specific Advisory Board Monthly Meeting



Wednesday, April 11, 2018, 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.

CONTENTS

AGENDA

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

CALENDARS

1. April
2. May (*draft*)

BOARD MINUTES/RECOMMENDATIONS & MOTIONS

1. February 14, 2018 unapproved meeting minutes

REPORTS & MEMOS

1. Trip Report – B. Price
2. Recommendation Tracking Chart
3. EM Project Update
4. Travel Opportunities for FY 2018
5. Incoming Correspondence
6. Map for Community Budget Workshop



Oak Ridge Site Specific Advisory Board
Wednesday, April 11, 2018, 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. May – No Meeting in Lieu of Community Budget Workshop.
 - B. Next Meeting: Wednesday, June 9, 2018
Presentation Topic: Ongoing Groundwater Efforts
 - C. Presentation of Service Awards to Outgoing Student Representatives (J. Mullis)
 - D. Presentation of Service Awards to Outgoing Staff Member (J. Mullis)
- II. Comments from the Deputy Designated Federal Officer, and EPA and TDEC Liaisons
(J. Mullis, C. Jones, M. Higgins) 6:05–6:15
- III. Public Comment Period (C. Niemeyer) 6:15–6:25
- IV. Presentation: Ongoing Efforts to Assure Waste Disposal Capacity (Henry) 6:25–6:50
(Issue Group Members: Bales, Burroughs, Holden, Shields, Shoemaker, Tapp, Thomas, Trujillo)
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. February 14, 2018, Meeting Minutes (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 (F. Swindler)
 - B. Executive (D. Wilson)
 - 1. Annual Meeting
 - 2. Outreach Presentation
- 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

April

2018

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
1	2	3	4 Executive Committee Meeting 6-7 p.m.	5	6	7
8	9	10	11 Board Meeting 6-7:30 p.m.	12	13	14
15	16 Waste disposal tour this week – date and time TBD	17	18	19	20	21
22	23	24	25 EM/Stewardship Committee Meeting 6-7:00 p.m.	26	27	28
29	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	Thursdays at 9 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



Oak Ridge Site Specific Advisory Board

May

2018

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
		1	2 Executive Committee Meeting 6-7 p.m.	3	4	5
6	7	8	9 Community Budget Workshop 4:30-6 pm *Bldg. 2014 G Conference Rm	10	11	12
13	14	15	16	17	18	19
20	21	22	23 EM/Stewardship Committee Meeting 6-7:00 p.m.	24	25	26
27	28	29	30	31		

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Many Voices Working for the Community

Oak Ridge Site Specific Advisory Board

Monthly Meeting of the Oak Ridge Site Specific Advisory Board

Unapproved February 14, 2018, Meeting Minutes

The Oak Ridge Site Specific Advisory Board (ORSSAB) held its monthly meeting on Wednesday, February 14, 2018, 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
Belinda Price, Vice Chair

Michelle Lohmann
Leon Shields
Bonnie Shoemaker
Fred Swindler
John Tapp (by phone)
Venita Thomas
Ed Trujillo
Rudy Weigel

Members Absent

Rosario Gonzalez
Eddie Holden
Deni Sobek
Tara Walker¹
Dennis Wilson, Chair

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)
Kristof Czartoryski, Tennessee Department of Environment and Conservation (TDEC)
Connie Jones, U.S. Environmental Protection Agency (EPA) (by phone)
Melyssa Noe, ORSSAB Alternate DDFO, DOE-OREM

Others Present

Shelley Kimel, ORSSAB Support Office
Chloe Nussbaum, Oak Ridge High School
Brian Henry, DOE-OREM
Bill McMillan, DOE-OREM

Eight members of the public were present.

Liaison Comments

Mr. Adler – Mr. Adler updated members on the current federal budget activities. He reported that another continuing resolution was approved by Congress, giving DOE temporary funding. The budget, he said, has been appropriated through March and Congress has authorized funding caps for the next couple of years that “look pretty good for Oak Ridge,” and include significant amounts of money for local cleanup work.

Mr. Adler also gave an update on the proposed new landfill project, the EM Disposal Facility (EMDF). Work on the project is moving forward after a formal dispute was resolved among DOE, EPA and TDEC. The parties will now craft a proposed plan to release for public comment, which is expected to be available this summer. As part of that process, DOE has issued a contract for drilling testing wells in the preferred site for the landfill in Bear Creek Valley. Sixteen wells are planned and three of those are already complete.

Mr. Czartoryski – No comments.

Ms. Jones – No comments

Public Comment

None.

Presentation

Mr. Henry and Mr. McMillan gave a presentation (Attachment 1) on “Risk Reduction in Excess Contaminated Facilities at the Y-12 National Security Complex (Y-12) and the Oak Ridge National Laboratory (ORNL).”

Mr. Henry began the presentation with an overview of the Oak Ridge Reservation (ORR), which covers 34,000 acres. The ORR he said, includes three sites with cleanup challenges: East Tennessee Technology Park (ETTP), ORNL, and Y-12. The primary driver of risk at ETTP is lifecycle risk – just being there operating the site is a significant expense, said Mr. Henry. At Y-12, environmental risk is the primary risk, particularly reducing mercury in streams, but there is also radiological risk. Y-12 also has close proximity to residential areas with the closes resident, he estimated, being about half a mile away. At ORNL the primary risk is radiological contamination from Office of Science research missions. It’s also challenging to run the cleanup mission alongside an active, high-priority science operation, he said.

DOE has more than 1,600 excess facilities across the DOE Complex with more than a quarter of those at sites on the ORR. Cleanup of these sites came under increased scrutiny in 2015 after an audit by the Government Accountability Office (GAO). At that time Congress provided additional funds to reduce risk at these facilities. Oak Ridge received \$28 million for this task in FY16 and \$45 million dollars in FY17. Mr. Henry noted the FY18 budget is not final, but said the continuing resolution discussed by Mr. Adler is funding OREM at FY17 levels to continue work at both ORNL and Y-12.

Also in 2015 in response to the GAO audit, DOE created the Excess Contaminated Facilities Working Group to address issues raised in the audit, gather data and report progress on the removal of these facilities. The group in 2016 provided a report to Congress on DOE’s plan to address excess facilities. Mr. Henry estimated that it would take about \$6 billion to clean up all the excess facilities that have been identified. As that amount of funding is not available, the goal is to prioritize risk reduction and begin work where feasible, he said. While the money Oak Ridge actually receives is a result of the appropriations process with the House and Senate, OREM is optimistic that there are additional funds available in the budget for excess contaminated facilities cleanup, Henry said. The working group is also looking potential technology development needs to ensure that cleanup is efficient and effective. Some funds are allocated to evaluate different methods to address the hazardous cleanup operations.

Mr. Henry moved on to discussion of specific Y-12 facilities. He noted that in addition to cleanup funds given to OREM, Y-12 has also received funds to reduce risks in buildings on site that are not part of the OREM portfolio. This highlights, he said, the challenges in the fact that Y-12 is a multi-program site with buildings owned by OREM and several other DOE organizations. OREM works closely with all stakeholders to prioritize facilities that are important to all of the programs. Mr. Henry singled out Y-12’s Alpha 4 site (Building 9201-04) as well as the other Biology Complex facilities as the current cleanup focus.

Alpha 4 has been idle for about 25 years, he said. Some of the first FY16 funds spent funded roof repairs for the building. OREM has learned over time that infiltration of rainwater into the facilities is one of the biggest enemies to future cleanup, he said, and this was a primary example. Work started in FY17 and continuing into FY18 includes removal of mercury and contaminated equipment on the west side of the Alpha 4 building. The equipment was used in the separation of lithium isotopes. OREM has removed more than two tons of mercury to date from this equipment, Mr. Henry said. Also removed were 20 to 30 drums of grit from around the facility that was contaminated with mercury and sent off for treatment. Work is expected to be finished on that portion of the site late this summer and then move to similar equipment on the east side of the facility. OREM has learned a

great deal while cleaning up the west side of Alpha 4 that will improve cleanup of the other side of the building, Mr. Henry said. Planned efforts will be more cost effective and reduce worker exposure to mercury when work begins later this year.

Building 9207 is the largest of the remaining buildings at the biology complex and OREM expects to have a contract to start cleanup activity on it soon. Funds from FY17 were used to characterize the entire Biology Complex to understand the hazards involved and file plans with regulators. Based on funding, OREM expects to begin pre-demolition activities on Building 9207 in the near future.

Building 9210, also known as the Mouse House, is the second largest building in the complex. There were some early uranium operations in this building, but primarily it was used for genetics research and biological research, Henry said. Contingent on funding for FY18, OREM believes there will be money to address the entire Biology Complex and potentially have decommissioning and demolition complete by 2021.

There are also several smaller buildings associated with the Biology Complex. One, known as the Pigeon Quarters, has degraded to such an extent that work crews cannot enter the building. OREM has contracted with a small business to demolish that building this spring as well as a second small structure known as the Radiological Source Shed. OREM will perform characterization on the remains, but no radiological contamination is expected in these buildings, Henry said. There are two mechanical-electrical buildings that are attached to Building 9207 that will also be addressed as part of the pre-demolition efforts that will start this year.

At this point, Mr. McMillan took over the presentation to talk about priorities at ORNL and work planned there in the near future.

Building 3026, a former hot cell facility, was initially supposed to be demolished with Recovery Act funding, but cleanup workers ran into unexpected hazards during that time that caused work to be suspended, Mr. McMillan said. The current work is to try and stabilize these facilities and keep them maintained so they will be safe to enter when funding is available. Through those efforts, Building 3026 has been downgraded from a Category 3 facility to a radiological site after removal of some of its contaminated equipment. The FY16 work scope for Building 3026 addressed a leaking roof over the hot cell bank. Work performed included removing a wind enclosure and sealing the roof. In addition, a tunnel connecting the hot cells was found to be a collection area for water leaks. While the roof repairs solved much of the leaking issues, that tunnel is now monitored and water is periodically pumped out and treated.

Buildings 3028 and 3029 are also former hot cell facilities that have been shut down for more than 30 years. These two facilities still contain hot cells with residual contamination. OREM's goal in these buildings was to immobilize contamination in hot cells and prevent any spread, Mr. McMillan said. Fogging of the cells was completed just a few weeks ago and samples taken afterward show that it was successful in containing loose contamination. Fogging the cells involves inserting a tube into the cell and blowing a fine mist of material into the chamber that then dries to create a surface seal. In some cases multiple coats of the fixative are used to ensure everything is contained, he said.

Building 3517 is one of the major facilities at the site. It's in "standby condition, said Mr. McMillan, meaning it is stable and not in poor repair like some of the previous buildings, but facility monitoring recently showed that the HEPA filters for ensuring clean airflow through the building had reached the end of their useful life, which is about 10 years, he said. They were replaced with new filters in December 2017 and the contaminated filters were packaged and sent for safe disposal.

Building 7500, the Homogeneous Reactor Experiment, was originally a nuclear safety pilot project that operated from 1952 to 1961. This building also had problems with water leakage, which caused mold in the facility and damage to the façade and ceilings. These hazards complicated the work and made it dangerous for workers to enter the building to maintain the surveillance functions. OREM made the building a priority for remediation. Work started in FY16 with removing combustible materials to allow shutdown of fire protection requirements,

which will save on maintenance costs. Once that was done, efforts began to remove asbestos from piping, ceilings and walls to stabilize the building. With the elimination of fire hazards and asbestos removed, workers now require much less personal protective equipment to enter the building.

Building 7503, the Molten Salt Reactor Experiment, is one of the few buildings to remain partially operational, said Mr. McMillan. That's due to the remaining fuel salt and drain tanks with material still in them that generates a dangerous hydrofluoric acid gas that is pumped out regularly to maintain safe pressure levels. With previous funds, OREM performed an engineering evaluation for the building to determine associated risks and how to reduce them. Some things it learned was there were electrical system deficiencies that need to be improved to maintain the ventilation system. Electrical improvements have since been made the central ventilation system. Efforts to engineer a new ventilation method for the tank is also important – a continuous ventilation will eliminate any pressure buildup. Funds from the anticipated FY18 budget will be used to collect samples of the headspace gases in the tanks, which will be used to support the design of the ventilation strategy. Once ventilation systems for the tanks are taken care of further electrical upgrades will be done for essential equipment and personnel will be relocated to allow for minimum surveillance and maintenance of the facility, reducing risks to workers and costs.

FY18 funds will also be used to address liquid/gaseous waste operations equipment removal and Moyno Pump replacement for tanks in the Bethel Valley storage tank area, Mr. McMillan said. Some of the tanks there have accumulated sludge that is periodically pumped out. There are two pumps in a pump vault and one of those pumps has failed. Complicating the effort to replace the pump is surplus equipment on top of the pump vault that was used in the early 2000s to move sludge the last time removal was needed. The equipment will need to be removed to allow the pump to be replaced. Also with liquid/gaseous waste operations, OREM has performed a couple of engineering evaluations over the past couple of years that have identified some improvements that can be made to the waste operations to consolidate operations at Building 3608. However, additional evaluations are needed to determine the condition of above and below ground piping, facility electrical conditions, the Liquid Low-Level Waste evaporator feed system, and tritium treatment options.

The cost for the MSRE activities associated with the headspace gas sampling, electrical improvements and achieving minimal surveillance and maintenance is about \$10 million, Mr. McMillan said, that would be spent over the next year or two.

After the presentation board members asked the following questions.

Mr. Swindler: Could you provide some specifics on the process for fogging the hot cells?

Mr. McMillan said it's a product called "CC Fix" that has been used a lot for a fixative for contamination.

Basically the material is sprayed through a fogging machine hose. It creates a fine mist that coats all the walls and equipment. Then it's allowed to dry and seal itself similar to hairspray.

Mr. Trujillo: The pre-remediation activities is what's happening now right at the two sites?

Mr. McMillan said no, it's not decommissioning activities where we remove material and clean facilities to support decommissioning and demolition (D&D). The activities we are taking today allow us to continue surveillance and maintenance functions. Stabilization is for long-term safety. Mr. Trujillo also asked, for the actual decommissioning, is there a more fixed target as far as time goes? Are they part of target date vision? Mr. McMillan said the OREM lifecycle baseline has an overall schedule for when we tackle D&D activities for all of our facilities. For ORNL most of that is in the mid 2020s. Mr. Henry said Oak Ridge has been fortunate with the plus ups in the last few years and potentially good news now in the FY18 budget. Many facilities have been able to be moved up on the timeline. The Biology Complex facilities are an example. The more that plus ups continue, the sooner we are able to get to actual D&D.

Ms. Price: Regarding the two slides colored to indicate excess contaminated facilities and ones that have work underway – other than putting together a list of high risk facilities, is there a consideration given to demolishing facilities in a particular area that could make room to add new facilities? Mr. McMillan said the overall plan does

have some priorities on laboratory needs and goals for its mission. However, most lab development is focused right now to the east of the central campus area where these excess facilities mostly are located. Other development has been done to the far west also. The lab is waiting on us to do the cleanup, but they are interested in the additional footprint after remediation. ORNL has not indicated an urgent need for new development in the central campus area. We evaluated all the facilities and ranked them based on risk. Mr. Henry said when a specific future need is identified at these locations, I think that goes a long way to making sure we get cleanup funds. For example the National Nuclear Security Administration (NNSA) has identified a future mission need for the Biology Complex area. Also keep in mind at Y-12 the yellow is only where OREM has facilities. Some other facilities owned by other organizations could also be considered yellow because those organizations are undertaking their own risk reduction work.

Mr. Trujillo: The fact that some buildings are owned by OREM and some are the property of NNSA or others ... is there an idea of putting together something as partners as far as funding? Mr. Henry said OREM routinely meets both with different Office of Science and NNSA program representatives to evaluate the priority list and to touch base as we get new funding. Mr. Trujillo also asked, is the urgency of obtaining funds similar with the other programs outside of OREM? Mr. Henry said currently, we see from the budgets coming out, there is a significant potential increase on the NNSA side. That may translate into the ability to empty and turn over some of those buildings to OREM sooner. But we can't make plans until the budget is final. Mr. Trujillo also asked, once the Mercury Treatment Facility is done the buildings will fall faster, yes? Mr. Henry said the approach with building the Mercury Treatment Facility is to ensure we don't delay any cleanup.

Mr. Czartoryski noted that he would like to express appreciation to the federal portfolio directors regarding the complexity and scope of the work. He reminded everyone to remember that while in the presentation the excess facilities contamination group was established in 2015, they should keep in mind there was awareness of excess facilities much before that, but there was no funding. What OREM is doing now, he said, is dealing with facilities with deferred maintenance and that were not deactivated, he said. The decision matrix of what facility to demo and what to maintain are very hard that these gentlemen deal with.

At the close of the presentation portion of the meeting, Ms. Price reminded members of the tour of excess facilities in the next week and to sign up.

Motions

2/14/2018.1

Ms. Price motioned to approve the meeting agenda. Mr. Weigel moved to approve and Mr. Branch seconded. The motion was approved unanimously.

2/14/2018.2

Ms. Price motioned to approve the November minutes. Ms. Thomas moved to approve and Mr. Beatty seconded. The motion was approved unanimously.

Alternate DDFO Report

Ms. Noe said DOE is working on approving the new member packages. We need a bit more information and then hope to get them out no later than the end of February, she said, at which point DOE headquarters will need to approve the selections.

Committee Reports

EM & Stewardship – Mr. Swindler went over the November 9, 2018 EM&S meeting on a presentation by Steve Cooke on land transfer and deed restrictions at ETPP. The transfer process takes about 2 years. Mr. Cooke also talked about enforcement of deed restrictions and any changes in use of land. Members asked a number of questions including about discharge permits, funding, discussion of future actions if contamination is discovered.

Executive – The committee met on February 7, 2018. Ms. Price noted that staff had sent out last year’s recommendation on excess facilities to issue group managers to inform their recommendation this year. The committee also decided to begin including incoming correspondence in members’ monthly meeting packets. Ms. Price mentioned the board may give presentations about the board to the community. She noted the presentation needs to be updated but encouraged members to take initiative to do a presentation with a community group.

Open Discussion

Ms. Price asked Martha Deaderick to give an update on the Center for Oak Ridge Oral History. Ms. Deaderick said the organization has completed more than 700 interviews and is looking to add more. She informed members that anyone may participate, not just those who have been in Oak Ridge since the beginning – anyone with interest or experience may contribute. The contact for this is Jordan Reed at the public library, she said.

Ms. Price reminded members that they could join issue groups at any time.

Ms. Lohman gave a quick overview of her attendance at a TDEC wastewater permit meeting involving an NNSA permit at Y-12. She noted she was concerned about the request to remove some restrictions on the permit by DOE/OREM. The request is based on the Mercury Treatment Facility being operational, which Ms. Lohmann noted would not be for several years. She offered to share her notes with other board members. She also said she submitted a comment on the permit.

Announcements and Other Board Business

ORSSAB’s next scheduled meeting will be Wednesday, March 14, 2018 at the DOE Information Center. The topic will be Ongoing Efforts to Assure Waste Disposal Capacity. Issue Managers: Bales, Burroughs, Holden, Shields, Shoemaker, Tapp, Thomas, Trujillo. (*Note: This meeting was later cancelled and the topic rescheduled for the April 11 board meeting.*)

Mr. Burroughs noted there was a second consecutive absence by Ms. Sobek. She was also not present at tonight’s meeting. He will continue trying to contact her.

Action Items

Open

1. Staff will send an email to board members to gauge their interest in giving presentations about the board to community groups. **Completed by email 2/15/2018**

Closed

None.

Ms. Price adjourned the meeting at 7:17 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 February 14, 2018, 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: Belinda Price**
- II. Date(s) of Travel: March 20 - March 23 2018**
- III. Location of Meeting: Phoenix, Arizona**
- IV. Name of Meeting: WM Symposia 2018**
- V. Purpose of Travel: Attend meeting and present paper**

VI. Discussion of Meeting:

I attended the 2018 Waste Management Symposia in Phoenix, Arizona, arriving mid-day on Tuesday and staying through the end of the conference on Thursday and flying back on Friday. I attended a variety of technical sessions and discussion panels covering a variety of aspects of nuclear decommissioning and nuclear waste management. Presenters included representatives of DOE and other government agencies, contractors and suppliers from the U.S. and other countries. The focus this year was on robotics, remote systems and emerging technologies.

Of particular interest to me was a DOE Panel Session on the Low Level Waste Disposal Facility Federal Review Group Process. The panel focused on the review process for technical basis documents used to issue disposal authorization statements. There was particular emphasis on Performance Assessments. I enjoyed another session on USACE Nuclear Reactor Decommissioning. Of particular interest was the extreme complexity involved in decommissioning the U.S. Army's MH-1A reactor aboard the Nuclear Barge STURGIS.

I presented a paper (co-authored with Dennis Wilson) in Session 122: Citizens Advisory Boards, Panels and Long-Term Safety Experience on Thursday morning. The paper discussed the ORSSABs process in developing recommendations. The session was surprisingly well attended given that it was the last morning of the meeting and there were only three papers in the session. The audience was engaged and asked all of the presenter's pertinent and insightful questions.

VII. Significance to ORSSAB:

Participation in these types of meetings allows members to meet other SSAB members from around the DOE complex which is beneficial to the SSAB community as a whole.

ORSSAB members should feel encouraged to participate in meetings that enhance their understanding of the DOE EM process and cleanup progress at other DOE sites, decommissioned

nuclear reactor sites and other sites around the work. It helps to put the work we do into perspective. It is sometimes easy to forget how mature the DOE EM Advisory Board process is. Our participation in national and international meetings and engagement with people involved in nuclear decommissioning around the world can provide far-reaching assistance of importance to our planet. Presenting papers is one way to draw the nuclear cleanup community's attention to the important work of the SSAB.

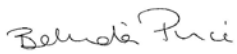
VIII. Names & Telephone Numbers of Significant Contacts:

I met Charles Fullen, a member of the Nevada Site Specific Advisory Board and Mr. Yoshiaki Shigatome, the General Manager of the Nuclear Damage Compensation and Decommissioning Facilitation Corporation, Technological Strategy Group, Tokyo, Japan. Mr. Yoshiaki was very interested in the ORSSAB. His organization is in charge of radioactive waste management policy as a part of facilitating decommissioning of Fukushima Daiichi Power Plant and is interested in engaging stakeholders in future decisions.

IX. Action Items:

I offered to provide Mr. Shigetome some information pertinent to Advisory Boards and sent that information to him this week.

X. Traveler's Signature & Date:

Signature: 

Date: 3/28/2018

Belinda Price

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	3/23/18
238	Recommendation 238: Recommendations on an EM Cleanup Performance Road Map and Communication Strategy	10/31/17	12/28/17

EM Project Update

ETTP	February	March
Sitewide ROD	Meeting held with the regulators to review design characterization results and determine path forward, agreement reached that the planned insitu thermal treatability study is not required as this technology can be evaluated in a CERCLA feasibility study without additional data.	Submitted the D0 Design Characterization Completion Report to DOE for review. Disposed of onsite wastewater tanks and sediments to the Y-12 Landfill and prepared paperwork for offsite disposal of RCRA wastes.
Zone 1 ROD	A letter providing the future path forward for this ROD was submitted to the regulators.	
Central Neutralization Facility (CNF) Demolition	Deactivation is complete. Mobilization activities are completed and Storm Water Pollution Prevention Plan control measures are in place.	CNF associated facilities and structures demolition continued. Approximately 85 percent of the facility demolition is complete and approximately 95 percent of the process line demolition is complete. Associated debris processing and disposal is approximately 80 percent complete.
	CNF associated facilities and structures demolition continued. Approximately 40 percent of the demolition is complete and approximately 25 percent of the associated debris was shipped for disposal.	
Remaining Facilities	Demolition of K-1314-J is complete.	
ORNL	February	March
Biology Complex	The package submitted to the State Historic Preservation Officer for Building 9770-2 to satisfy the National Historic Preservation Act requirements was approved and demolition can proceed. No actions were required for Building 9743-02.	Both Building 9743-02 and 9770-02 have been demolished. Characterization of the debris is underway. The debris is not expected to be radiologically contaminated, but will be surveyed as part of the characterization effort. The 9743-02 debris will require asbestos abatement and controls.
	The contractor has mobilized and is installing stormwater protective measures; working to get a generator installed and operational for their temporary construction office. Vegetation removal was also completed.	Pre-demolition activities for Building 9207 and ancillary facilities is now under contract. This represents approximately 75 percent of the remaining square footage for the Biology Complex.
Surveillance and Maintenance	The FY 2017 PCCR for S&M Waste Disposal was approved by the regulators.	The Building 7500 Sampling & Analysis Plan for asbestos disposal was approved by the regulators.
	The UCOR ORNL Cleanup Program Team successfully completed the fogging activities for the five hot cells at Building 3028/3029. The Building 7500 Sampling & Analysis Plan for asbestos disposal was submitted to the State and is awaiting comments/buy-in to continue the sampling verification process.	

EM Project Update

Molten Salt Reactor Facility	The FY 2017 PCCR for MSRE Waste Disposal was approved by the regulators.	
	Pump-down activities were initiated and completed to correct the increased pressure measured during calibrations, and conditions have returned to normal.	
ORNL	February	March
Molten Salt Reactor Facility	Mitigation measures were put in place to prevent valve leakage during calibration.	
U-233 Disposition	Continued revising the Building 2026 Processing Campaign Preparation Security Risk Assessment.	The annual update of the Safety Evaluation Report for Building 2026 Documented Safety Analysis was issued.
	Continued supporting document for submission of the Critical Decision 2/3 package.	Approval was received for the transfer of Building 3137 from the Office of Science to the Office of Environmental Management.
Y-12	February	March
Outfall 200 Mercury Treatment Facility (MTF)	All of the work to support early site preparations activities covered by Critical Decision 3A is now under contract. The project experienced delays in the early site preparation work due to sidewise excavation restrictions at Y-12 related to a water line break.	The small business contractor has begun the early site preparation minor demolition in addition to vegetation removal, and utilities re-routing work. The issue limiting excavation and penetration permits at Y-12 has been resolved.
	The DOE-HQ External Independent Review (EIR) Team held the on-site review and toured the Y-12 Plant.	The integrated project team received the draft DOE-HQ External Independent Review Report and submitted factual accuracy comments and a draft corrective action plan to DOE-HQ for review.
		The Request for Proposals for the Balance of Construction contract was issued.
Y-12 Facilities D&D	Demolition of the acid system in Alpha 4 West COLEX is complete and work has started on the mezzanine area. The initial equipment removal from the mezzanine will involve removal of several tanks.	A crane was utilized to remove four tanks from the mezzanine area of the West COLEX equipment and for the three remaining heat exchangers.
	The Removal Action Work Plan for the Y-12 Facilities D&D was approved by the regulators.	

EM Project Update

Off-Site Cleanup/Waste Management	February	March
Transuranic Waste Processing Center (TWPC)		The processing of Tank W-1A soils in the Cask Processing Enclosure was completed.
EMDF	Fieldwork began on the installation of piezometers to support collection of groundwater and surface water data at the Central Bear Creek Valley site. Multiple drill rigs will be used to install eight sets of piezometers for groundwater data.	All eight of the deep piezometers installed as part of the EMDF characterization of the Central Bear Creek Valley site are now instrumented and collecting groundwater data to include elevation, temperature, conductivity, and pH. Surface water flumes have been installed to measure surface water flow.
	Drilling was completed in one well (75 ft) and is ongoing in two additional wells. Overburden coring of approximately 108 ft and bedrock coring of approximately 113 ft has been completed to date in the three wells.	The FFA Parties continued to draft the Proposed Plan.
Off-Site Cleanup/Waste Management	February	March
WRRP	The D0 review of the 2018 Remediation Effectiveness Report was completed.	The 2018 Remediation Effectiveness Report was submitted to the regulators for review.
	Melton Valley/Bethel Valley Exit Pathway Project DQO session was completed.	Site visits were conducted of potential locations for onsite exit pathway wells near the western boundary of the Oak Ridge Reservation.

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 Attendees: <i>none</i>	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 (Attendees: Shields)	April 25-27, 2018	Washington, D.C.	none	http://thenejc.org	N/A	3/7/18
2018 Spring Chairs Meeting (Pending requests: Price, Wilson)	May 1-4, 2018	Roswell/ Carlsbad, NM	none		N/A	3/7/18
2018 U.S. EPA Community Involvement Training Conference (Pending requests: _____)	July 18-19, 2018	Kansas City, MO	none	https://www.epa.gov/superfund/community-involvement-training-program-0	N/A	6/6/18
RadWaste Summit (Pending requests: _____)	Sept. 4-6, 2018	Henderson, NV	\$625	http://www.exchangemonitor.com/forums/annual-radwaste-summit/	TBD	TBD
DOE National Cleanup Workshop (Pending requests: Lohmann, Price, Shields)	Sept. 11-13, 2018	Alexandria, VA	\$425	http://www.cleanupworkshop.com/	5/10/18 (2)	4/25/18
FY 2019						
Perma-Fix Nuclear Waste Mgmt. Forum Attendees: _____)	TBD	Nashville			TBD	TBD

Shaded trips are closed



FY 2018 Incoming Correspondence

#	Date	To	From	Description	Distribution
73	3/12/18	Japp, DOE	Young, TDEC	Approval for the Defined End-State for the Disposal Area Remedial Action Soils Project	DOEIC, Notified board officers of receipt
74	3/14/18	Jones, EPA Young, TDEC	Japp, DOE	Transmittal of the FFA Proposed Appendix 3	DOEIC, Notified board officers of receipt
75	3/19/18	Reynolds, Hardin Valley Academy	Noe, DOE	Appointment of a Student Representative to the ORSSAB	DOEIC, Notified board officers of receipt
76	3/19/18	McDonald, Oak Ridge High School	Noe, DOE	Appointment of a Student Representative to the ORSSAB	DOEIC, Notified board officers of receipt
77	3/19/18	Japp, DOE	Young, TDEC	TDEC Comment: RAR for the D&D of K-25 and K-27 at ETPP (DOE/OR/01-2729&D2)	DOEIC, Notified board officers of receipt
78	3/22/18	Japp, DOE	Jones, EPA	EPA Comments on FY17 PCCR for the Low Risk/Low Complexity Facilities of the Remaining Facilities Demolition Project at ETPP (DOE/OR/01-2763&D1)	DOEIC, Notified board officers of receipt
79	3/23/18	Wilson, ORSSAB	Owendoff, DOE	Response to Recommendation 237: Recommendations on Above Ground Storage at the Waste Isolation Pilot Plant	DOEIC, Notified board officers of receipt
80	3/27/18	Japp, DOE	Jones, EPA	EPA Review of the RAR for D&D of K-25 and K-27 at ETPP (DOE/OR/01-2729&D2)	DOEIC, Notified board officers of receipt
81	3/28/18	Jones, EPA Young, TDEC	Adler, Japp, DOE	Transmittal of the 2018 Remediation Effectiveness Report for the DOE Oak Ridge Site (DOE/OR/01-2757&D1)	DOEIC, Notified board officers of receipt
82	3/28/18	Jones, EPA Young, TDEC	Henry, Japp, DOE	FY18 PCCR for the ORR EMWMF (DOE/OR/01-2760&D1)	DOEIC, Notified board officers of receipt
83	3/29/18	Japp, DOE	Jones, EPA	Review of the proposed DOE Appendix J of the Federal Facility Agreement for the ORR	DOEIC, Notified board officers of receipt

#	Date	To	From	Description	Distribution
84	3/29/18	Jones, EPA Young, DOE	Henry, Japp, DOE	Transmittal of Response Tables for Comments Received on the Review of the Sampling and Analysis Plan/Quality Assurance Project Plan for Environmental Monitoring at EMWMF (DOE/OR/01-2734&D1/R1)	DOEIC, Notified board officers of receipt
85	4/2/18	Jones, EPA Young, TDEC	Deacon, Japp, DOE	Transmittal of the Explanation of Significant Differences for the ROD for Soil, Buried Waste, and Subsurface Structure Action in Zeone 2, ETPP for Non-Radiological Discharges into Poplar Creek (DOE/OR/01-2710&D3)	DOEIC, Notified board officers of receipt

Community Budget Workshop

DOE's annual Community Budget Workshop will be held 4:30 p.m. – 6 p.m. May 9, 2018 in Building 2714, Conference Room G.

While the building is located on Lee Road, many GPS devices have trouble locating it. Note that the Federal Building is located at 200 Administration Road and Building 2714 is just across the street.

Please park as indicated on the map below.

