

# Oak Ridge Site Specific Advisory Board Monthly Meeting



Wednesday, November 14, 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. November
2. December (*draft*)

## BOARD MINUTES/RECOMMENDATIONS & MOTIONS

1. October 10, 2018 unapproved meeting minutes
2. DOE Response to ORSSAB Recommendation #240

## REPORTS & MEMOS

1. Trip Report – Radwaste Summit 2018 (L. Shields)
2. EM Project Update and Abbreviations
3. Travel Opportunities for FY 2019
4. Incoming Correspondence

Presentation to be  
distributed at or prior  
to meeting



**Oak Ridge Site Specific Advisory Board**  
**Wednesday, November 14, 2018, 6:00 p.m.**  
DOE Information Center  
1 Science.Gov Way, Oak Ridge, TN 37831  
**AGENDA**

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- I. Welcome and Announcements (D. Wilson) ..... 6:00–6:10
  - A. Next Meeting: Wednesday, February 13, 2018  
Presentation: Evaluation of Ongoing Groundwater Efforts (B. Henry)  
**Issue Group:** Burroughs, Clark, Deaderick, Eastburn, Lohmann, Pitchers, Price, Shields, Shoemaker, Swindler, Tapp, Wilson
- II. Comments from the Deputy Designated Federal Officer, and EPA and TDEC Liaisons (D. Adler, C. Jones, K. Czartoryski) ..... 6:10–6:15
- III. Presentation: Ongoing Efforts to Assure Sufficient Waste Disposal Capacity (B. Henry)... 6:15–6:35  
**Issue Group:** Allen, Baker, Burroughs, Holden, Perez, Pitchers, Shields, Shoemaker, Swindler, Tapp, Trujillo  
Question and Answer Period ..... 6:35–6:45
- IV. Public Comment Period (O. Fleenor/J. Narula) ..... 6:45–6:55
- V. Call for Additions/Approval of Agenda (D. Wilson)..... 6:55
  - A. Action Items Review – none.
  - B. Addition of New Items
- VI. Motions ..... 7:00–7:15
  - A. October 10, 2018, Meeting Minutes (R. Burroughs)
  - B. Second Consecutive Absence—Martha Deaderick (R. Burroughs)
- VII. Responses to Recommendations & Alternate DDFO’s Report (M. Noe)..... 7:15–7:20
- VIII. Committee Reports ..... 7:20–7:25
  - A. EM/Stewardship (L. Shields)
  - B. Executive (D. Wilson)
- IX. Additions to Agenda & Open Discussion ..... 7:25–7:30
- X. Adjourn ..... 7:30



## Oak Ridge Site Specific Advisory Board

# November

# 2018

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1	2	3
4	5	6	7 Executive Committee Meeting 6-7 p.m.	8	9	10
11 Veteran's Day	12 Veteran's Day observed <b>Board offices closed</b>	13	14 Board Meeting 6-7:30 p.m.	15	16	17
18	19	20	21	22 Thanksgiving Day <b>Board offices closed</b>	23 <b>Board offices closed</b>	24
25	26	27	28 EM/Stewardship Committee Meeting 6-7 p.m.	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	
<b>Knoxville:</b> Charter Channel 6, Comcast Channel 12	Thursdays at 9 p.m.
<b>Lenoir City:</b> Charter Cable Channel 193	Wednesdays, 4 p.m.
<b>Oak Ridge:</b> Channel 12	Fourth Mondays, 7 p.m.
<b>Oak Ridge:</b> Channel 15	Monday, Wednesday, Friday, 8 a.m. & noon
<b>YouTube</b>	<a href="http://www.youtube.com/user/ORSSAB">http://www.youtube.com/user/ORSSAB</a>



# Oak Ridge Site Specific Advisory Board

# December

# 2018

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24 Board Offices Closed	25 Christmas Day - Board Offices Closed (TBD)	26	27	28	29
30	31					

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*Many Voices Working for the Community*

# Oak Ridge Site Specific Advisory Board

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## *Monthly Meeting of the Oak Ridge Site Specific Advisory Board*

### **Unapproved October 10, 2018, Meeting Minutes**

The Oak Ridge Site Specific Advisory Board (ORSSAB) held its monthly meeting on Wednesday, October 10, 2018 at the DOE Information Center, 1 Science.gov Way, Oak Ridge, TN, beginning at 6 p.m. Copies of referenced meeting materials are attached to these minutes. A video of the meeting was made and is available on the board's YouTube site at [www.youtube.com/user/ORSSAB/videos](http://www.youtube.com/user/ORSSAB/videos).

#### **Members Present**

Terry Allen

Leon Baker

Richard Burroughs, Secretary

Bill Clark

Sarah Eastburn

Eddie Holden

Shell Lohmann, Vice Chair

Marite Perez

Belinda Price

Leon Shields

Fred Swindler

John Tapp

Ed Trujillo

Rudy Weigel

#### **Members Absent**

David Branch

Martha Deaderick<sup>1</sup>

Brooke Pitchers

Bonnie Shoemaker

Dennis Wilson, Chair

<sup>1</sup>Second consecutive absence

#### **Liaisons, Deputy Designated Federal Officer, and Alternates Present**

Melyssa Noe, ORSSAB Alternate Deputy Designated Federal Officer (DDFO), Department of Energy, Oak Ridge Office of Environmental Management (DOE-OREM)

Mike Higgins, Tennessee Department of Environment and Conservation (TDEC)

Connie Jones, Environmental Protection Agency (EPA)

#### **Others Present**

Ben Williams, DOE

Roger Petrie, UCOR

Shelley Kimel, ORSSAB Support Office

Sara McManamy-Johnson, ORSSAB Support Office

Jasleen Narula, Hardin Valley Academy student representative

Eight members of the public were present.

**Liaison Comments**

**Ms. Noe** – Presented awards to outgoing members Christopher Beatty and Venita Thomas.

Ms. Noe reminded attendees that the next EMDF public meeting would be on Oct. 18 at the Y-12 New Hope Facility. She also mentioned that DOE is starting member recruitment for the board. She went on to formally introduce the FY19 new members: Terry Allen, Bill Clark, Sarah Eastburn, Brooke Pitchers and Marite Perez.

**Ms. Jones** – No comments.

**Mr. Higgins** – He noted that there is a public availability session at the TDEC office on Oct. 11 on EMDF. It was requested by the Sierra Club.

**Presentation**

Mr. Williams gave a presentation about Oak Ridge Environmental Management Program Outreach Efforts. He reminded members that he had last gone over outreach efforts in September 2017 and said the current presentation would include updates on that as well as some completely new material.

He noted that OREM has many audiences that each have different needs from OREM. Congress needs to know the Oak Ridge site is a good investment that uses funds wisely. Media want to know about progress on local projects and/or interviews with OREM executives. Other state, local and community groups each have their own priorities. Additionally, OREM has internal audiences – employees both federal and contract.

One way OREM communicates with all its audiences is by participating in the nationwide EM newsletter. The national EM newsletter has gone from 60,000 subscribers to 90,000 over the past year and is now published weekly.

Locally OREM has made significant inroads with TV media, with local channel WBIR doing two significant stories this summer. OREM maintains relationships with other local online and print media. Other recent stories have appeared in the Knoxville News Sentinel, Oak Ridge Today, and the Oak Ridger, for example.

OREM also maintains its own channels, distributing news and information via its website and social media as well as by regularly attending and presenting to local organization meetings as well as national conferences. Oak Ridge's social media is one of the top in the entire complex. ORSSAB is another local outreach channel for OREM.

Williams also encouraged attendees to read OREM's 3 major annual publications: the Cleanup Progress Report, Public Involvement Plan, and OREM 10-Year Program Plan. These and more are available online at [www.energy.gov/orem/news](http://www.energy.gov/orem/news).

OREM uses all these outreach efforts to communicate four major messages:

- Oak Ridge is investment-worthy
- Vision 2020 is within reach
- Preparation is underway for cleanup at ORNL and Y-12 and
- Additional Waste Disposal Capacity is needed for the future of the cleanup program.

Mr. Williams shared a video overview of Oak Ridge's excess contaminated facilities program, which can be found at the OREM YouTube account: [www.youtube.com/watch?v=zWv\\_2wyjjvU](https://www.youtube.com/watch?v=zWv_2wyjjvU). He said OREM is placing a renewed emphasis on video content and has recently provided project updates for East Tennessee Technology Park and Y-12 as well as an overview of the proposed new waste disposal site in this way.



After the presentation board members asked the following questions:

Mr. Burroughs asked about the next update of the 10-year plan. Mr. Williams said it is updated every two years and that it includes 8 goals that OREM has set for itself. Each goal has its own sub-goals based on the wider view. Mr. Burroughs also asked how OREM includes extra funding that Congress gives in the plan update? Mr. Williams said those sorts of updates are definitely included in the plan at the next publication. In the meantime, the information is disseminated in other ways.

Mr. Trujillo asked to what extent does DOE and its partners agree or disagree with the risk-based approach to doing cleanup? Mr. Williams suggested Connie Jones could help answer that question. She said the Comprehensive Environmental Response, Compensation, and Liability Act planning process is done on a three-year basis. She said EPA knows DOE may not be able to plan as much as the partners would like because it is dependent on funding. In terms of Y-12 efforts, there was plus up money that was not in the 3 year plan goal, she explained. She said EPA would like a bit more input into OREM's budget request for this reason.

### **Public Comment**

There were no public comments.

### **Motions**

#### **10/10/2018.1 Motion to approve the agenda**

Ms. Price motioned, it was seconded and the motion passed unanimously

#### **10/10/2018.2**

Mr. Burroughs reported on the meeting minutes from the September meeting. Eddie Holden moved and Rudy Weigel seconded. The motion passed unanimously.

#### **10/10/2018.3**

Mr. Burroughs reported that he had spoken with Deni Sobek and that she had asked to withdraw from her position on the board. Mr. Trujillo was in attendance at the meeting. No further action was taken on the attendance issue.

#### **10/10/2018.4**

Ms. Price presented the EMSSAB chairs recommendation. She noted it reflected the conversation of other SSABs around the country that DOE needs to do more outreach. She said that she and Mr. Wilson, who attended the most recent chairs meeting, agreed that other sites do not do as comprehensive a job as the Oak Ridge communications staff. She said the recommendation mostly gives a list of suggested items that DOE could undertake such as new tours, educational materials and etc. The chairs recommend that individual site managers and advisory boards take a look at these examples and work collaboratively to see what would work best at their individual sites. Ms. Price recommended Oak Ridge approve the recommendation to help out other sites.

Ms. Price moved to approve the recommendation and Leon Baker seconded. However some questions were asked.

John Tapp asked how much of what's in the recommendation is Oak Ridge already doing? Ms. Price said she felt Oak Ridge is doing a lot of what was suggested. She also reminded members that ORSSAB had in the past crafted its own local recommendation on the topic.

Mr. Tapp asked further if ORSSAB should be working more with Mr. Williams to do outreach. Mr. Trujillo asked if the board itself was supposed to undertake the suggested activities. Ms. Price clarified that the items were intended for collaboration with DOE and that the board could also propose anything else it thought would be a good outreach method.

Ms. Jones said that ORSSAB supports the EM Program in terms of cleanup. She noted there are community involvement requirements under CERCLA and that many of them are discussed in the Public Involvement Plan referred to in Mr. Williams' presentation. She said she welcomed any input from the board on enhancing DOE's outreach efforts to the community.

Ms. Price reminded attendees that the board recently updated its own Public Outreach presentation if any board members wanted to educate other organizations they were a part of as to the workings of ORSSAB.

Following the discussion, board members voted unanimously to approve the recommendation.

### **Responses to Recommendations & Alternate DDFO Report**

Ms. Noe said DOE was working on its response to the EMDF recommendation and should complete it within the customary 60-day requested deadline.

### **Committee Reports**

**EM & Stewardship** – Mr. Shields noted there was discussion of the proposed airport at ETTP. Mr. Shields also noted that, personally, he was very impressed as a new member who has attended some national conferences that the Oak Ridge site seems ahead of many other sites in its efforts. He encouraged other members to attend national conferences to get that wider viewpoint.

**Executive** – Ms. Lohmann noted that Mr. Shields was elected chair and Mr. Trujillo vice chair of the EM & Stewardship Committee. She said the executive committee is looking at updating the board bylaws. Additionally, she said efforts are beginning to find a venue for the next annual meeting and asked members to provide suggestions to officers or staff. She noted that the committee had asked for updates on website traffic and that ORSSAB had seen growth.

### **Additions to the Agenda & Open Discussion**

Mr. Trujillo asked for an update on the proposed plan on EMDF. Ms. Jones said that the plan is currently in its public comment period. Based on that feedback DOE and regulators will look at any needed updates. She noted that Community and State Acceptance are two of the requirements under CERCLA for any remedial action to be finalized in the Record of Decision for the proposal.

Mr. Trujillo explained that he read that TDEC was moving forward with the EMDF plan. Mr. Higgins clarified that through the formal dispute process, DOE, EPA, and TDEC parties agreed to the publication of the proposed plan to solicit public input. TDEC feels there are some issues that have not yet been resolved prior to TDEC fully supporting the EMDF proposed alternative site.

Mr. Trujillo asked how those outstanding issues may stop the process. Mr. Higgins noted that under CERCLA, as Ms. Jones said, there are criteria that must be met, including State Acceptance, prior to the fulfillment of the plan. He said DOE was currently working on the outstanding issues identified by TDEC.

Mr. Trujillo asked about the timeline for approval. Mr. Higgins said the Record of Decision date is currently scheduled for January. He was not certain if current work will impact that deadline. The final schedule will depend on those efforts. Ms. Jones said the initial plan was for a deadline of January 9, but based on a request from the public to extend the public comment period, that will be moved further in the future. Ms. Jones agreed with Mr. Higgins that more information was needed in the Remedial Investigation/Feasibility Study. She noted that the agreement will need to go to the EPA administrator in Washington to be approved and its very important for everyone locally to finalize as much information as possible. Mr. Higgins added that the request to extend the public comment period was granted, he believed, and comments could be accepted until a new deadline in December. He reiterated that there would be the Sierra Club meeting at the TDEC office on EMDF. However, he emphasized that public comments must be sent to DOE, not TDEC.

Mr. Burroughs asked if during the proposed plan public comment period individuals could submit both positive and negative comments. Mr. Higgins said yes, all comments would be taken.

Ms. Lohmann reminded members the November meeting would also focus on EMDF and encouraged them to prepare questions for presenter Brian Henry.

**Action Items**

There were no action items.

The meeting adjourned at 7:12 p.m.

I certify that these minutes are an accurate account of the October 10, 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



## Department of Energy

Oak Ridge Office of Environmental Management  
P.O. Box 2001  
Oak Ridge, Tennessee 37831

October 31, 2018

Mr. Dennis Wilson, Chair  
Oak Ridge Site Specific Advisory Board  
Post Office Box 2001  
Oak Ridge, Tennessee 37831

Dear Mr. Wilson:

### **RESPONSE TO THE LETTER DATED AUGUST 28, 2018, RECOMMENDATION 240: ON THE PROPOSED ENVIRONMENTAL MANAGEMENT DISPOSAL FACILITY**

Thank you for your August 28, 2018, letter with a recommendation regarding the proposed Environmental Management Disposal Facility (EMDF). The U.S. Department of Energy (DOE) response to the five items in the recommendation are given below:

1. **Funding:** Ensure that funding is secured and prioritized to provide a reasonable period of overlap no less than two years operation of the proposed EMDF and the existing Environmental Management Waste Management Facility (EMWMF) given the fact that the EMWMF is currently at 75 percent capacity.

**Response:** Within its planning budgets and scheduling of future cleanup scope, which includes providing for a future onsite waste disposal facility (EMDF) to replace the EMWMF, DOE has accounted for the need to begin operation of the EMDF two years prior to attaining capacity in the EMWMF. DOE submits a yearly budget estimate to the Office of Management and Budget that reflects full compliance with all of our environmental commitments, as required by Executive Order 21088, entitled *Federal Compliance with Pollution Control Standards*. This budget submittal has the prioritization needs of the Oak Ridge Office of Environmental Management (OREM) considered, and securing the funding is part of the submittal process.

2. **Community Engagement:** Although communication with and to the community is part of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) process, emphasis should be placed on direct and iterative contact with the residential communities that are near the proposed EMDF site. Ideally, this should involve scheduled informational meetings with adjacent communities to ensure visibility regarding proposed plans, while allowing residents the opportunity to learn about the plans, and have their voice heard regarding their concerns. We recommend these meetings include the planning and status of the design and construction efforts and timelines for completion of each critical phase. These informational meetings should be scheduled to take place as early as possible

**RESPONSE TO THE LETTER DATED AUGUST 28, 2018, RECOMMENDATION 240:  
ON THE PROPOSED ENVIRONMENTAL MANAGEMENT DISPOSAL FACILITY**

in the planning stages to adequately address community/public concerns and that meetings are scheduled in sufficient numbers, times, and places to allow all interested parties to attend. Also, consideration should be given to publicizing dates, times, and locations of the meetings to ensure the public is aware they are taking place.

**Response:** OREM is committed to conducting all of the robust communication efforts listed in its EMDF Community Outreach Plan, which was approved by the U.S. Environmental Protection Agency and the Tennessee Department of Conservation and Environment. At each stage of this project, OREM has fulfilled, and even exceeded, those outreach commitments to ensure full public awareness about this important project.

The public comment period for the EMDF Proposed Plan was originally scheduled to run from September 10 to October 26, 2018, but OREM extended the deadline to December 10, 2018, to ensure all interested parties have adequate time to review and provide comments on the document.

Consistent with your recommendation requests, OREM scheduled information sessions immediately after the EMDF Proposed Plan was released to begin dialogue and interactions with residents and stakeholders. We hosted the first information session on September 13, 2018, at the DOE Information Center and the second information session on October 2, 2018, at the East Tennessee Economic Council Building. We also supported a third information session that was hosted by the Sierra Club at the Tennessee Department of Conservation and Environment office on October 11, 2018. Additionally, OREM is hosting a formal public meeting about the project on November 7, 2018, at the Y-12 New Hope Center.

OREM has taken numerous steps to ensure the community is aware of every opportunity to learn more about the project and have their voice heard. Specifics about the information sessions and public meeting have been posted in the Knoxville News Sentinel, The Oak Ridger, and Roane County News. Details have also been available on the OREM homepage and social media accounts. OREM also sent out more than 15,000 mailers to every household in Oak Ridge inviting them to the public meeting on November 7, 2018.

The information sessions have been very beneficial. Participants were able to obtain valuable information from posters, fact sheets, and speaking with all of the project managers associated with the EMDF. Federal and contractor personnel were able to answer all questions from the attendees directly, share project timelines, and inform them of the opportunities and methods to share their input. Those sessions resulted in multiple news stories about the project, which enabled OREM to connect with local organizations interested in learning more about the EMDF.

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The Environmental Quality Advisory Board and Tennessee Citizens for Wilderness Planning each requested and received tours of the proposed EMDF site during

OREM has conducted outreach for this project in many other ways and has provided briefings to local officials and community organizations and presentations at local, regional, and national meetings on the topic. Most recently, we extended invitations to the City of Oak Ridge and Roane County leadership as well as all members of the Oak Ridge City Council to receive the EMDF briefings and tours. OREM is also discussing this topic at the November Oak Ridge Site Specific Advisory Board meeting, which includes a tour of the site the following week. This public meeting provides another opportunity for the community to learn about the project, ask questions, and share opinions.

- 3. Expansion/Additional Capacity:** During the preparation of the Proposed Plan, the Record of Decision (ROD), and the conceptual and design phases of the EMDF, DOE should evaluate and ensure that the facility will allow for an additional capacity in case the original capacity is not adequate.

**Response:** DOE has included in all its calculations throughout the Remedial Investigation/Feasibility Study and Proposed Plan to date, a 25% uncertainty factor (increase) in waste volumes projected for disposal in an onsite facility. DOE will continue to carry this 25% increase/uncertainty factor throughout the ROD and design phases for the future EMDF.

- 4. Monitoring:** Actual hydrologic conditions in the proximity of the proposed site for the EMDF should be evaluated to mitigate or eliminate any deleterious effects later during construction and operation. Additionally, the evaluation process should include specific lessons learned from the current facility and results from ongoing site investigation/sampling. The evaluation process should be completed before the design phase is finalized.

**Response:** DOE conducted a Phase 1 characterization effort at the Central Bear Creek Valley site (the proposed site for the EMDF) in early 2018. The piezometers installed during this campaign continue to be monitored and planned to be monitored for a one year period. Additionally, a Phase 2 characterization effort was recently initiated in which 14 new piezometers are being installed to obtain hydrologic information (as well as seismic analyses and soil analyses); these piezometers will also be monitored for an extended period of time. The data obtained from these sample points are being evaluated (evaluation will be considered complete once the full one year of data is obtained), used to inform design as it progresses into the preliminary stage, and will be used as a basis for final design as well.

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Lessons learned from the existing facility are also being considered as design progresses.

5. **Budget for Future Monitoring and Maintenance of the Completed Facility:** Funding should be allocated and prioritized for the post-construction phase that includes future monitoring and functioning of the facility for requirements stipulated in the ROD and other relevant documents.

- a. Seek a mechanism for either DOE or a public-private partnership that would be responsible for the lifetime of the EMDF to provide scheduled periodic maintenance to avoid deterioration of the facility once the facility is at capacity.

DOE will be responsible for the EMDF periodic maintenance and monitoring, as well as any unscheduled maintenance of the facility that may be necessary once the facility has been closed. The funding necessary to carry out these responsibilities has been included in the DOE long-term stewardship estimates. The mechanism by which this funding would be made available will be managed through the DOE Office of Legacy Management.

- b. Devise a monitoring and maintenance plan prior to closure of the EMDF.

DOE Order 435 requires a monitoring and maintenance closure plan be developed for the facility. Additionally, CERCLA requirements, as Applicable or Relevant and Appropriate Requirements, stipulate the need for planning and conducting long-term monitoring.

CERCLA also requires a five year review of all remedies so long as the hazardous substances remain on the site above levels that permit unrestricted use and unlimited exposure. The purpose of the five year review is to ensure that the remedy performance remains protective, and implement any corrective action if the remedy is determined to not be protective. There are, therefore, many mechanisms regarding the requirements to plan and carryout long-term management of the facility, and to maintain its protectiveness of the public and environment in perpetuity.

Mr. Dennis Wilson


-5-

October 31, 2018

**RESPONSE TO THE LETTER DATED AUGUST 28, 2018, RECOMMENDATION 240:  
ON THE PROPOSED ENVIRONMENTAL MANAGEMENT DISPOSAL FACILITY**

Thank you for your continued focus and attention to support our important environmental cleanup mission. If you have any questions or if we can be of further assistance, please contact Brian Henry at 241-8340.

Sincerely,



John A. Mullis II  
Manager

cc:

Carl Froede, EPA Region 4  
Connie Jones, EPA Region 4  
Colby Morgan, TDEC, Oak Ridge  
Randy Young, TDEC, Oak Ridge  
Dave Adler, EM-94  
Mike Koentop, EM-90  
Melyssa Noe, EM-942





## Oak Ridge Site Specific Advisory Board

### TRIP REPORT

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- I. Name of Traveler:** Leon F. Shields
- II. Date(s) of Travel:** September 4 – 6, 2018
- III. Location of Meeting:** Henderson, Nevada
- IV. Name of Meeting:** Radwaste Summit 2018
- V. Purpose of Travel:** As a new member, participation is critical in understanding the vital issues related to Radiological Waste and its disposal.

**VI. Discussion of Meeting:**

During the attendance of the 2018 Radwaste Summit presentations and discussions involved a wide range of topics. A few highlights include: Savannah River's Update, Idaho National Lab's Clad Spent Fuel Reports, Three Mile Island Units 1&2, and DOE's Office of Nuclear Energy's Update. The topics lead to discussions regarding how each facility managed funding issues from congress and the lack of monies appropriated to do the necessary work that was desired. Updates were given from the Assistant Secretary for the Office of Environmental Management as to the legislative changes to look for in upcoming years.

**VII. Significance to ORSSAB:**

The participation that ORSSAB members take in the role of environmental management has direct impacts on the community surrounding the Oak Ridge Reservation. Participation in these types of conferences promote networking, education, and involvement with other partnering agencies to support the actions and decisions that members make in ORSSAB stewardship. Presentations at the Radwaste Summit provides a variety of aspects in issues faced in decommissioning facilities with unique factors and placing those managed areas back to a safe, eco-friendly, and economic environment.

**VIII. Topics of Discussion:**

The 2018 Radwaste Summit consisted of leaders of the national facilities facing issues of the cleanup process. The three-day summit highlighted the technics currently implemented to the environmentally friendly transition from contaminations, classification, and processes to decontaminate to store in a safe environment.

Discussions revisited the education learned from past projects and allowed information to be gathered and forwarded to neighboring facilities to progressively enrich the processes used on future cleanup projects.

Discussions briefed members of the amendments to 10 CFR Part 61, adding a 1000 post performance period, adding requirement for site specific analyses, allowing flexibility for agreement states to analyze longer timeframes, and restore "grandfathering" provisions.

Recent and planned reactor shutdowns were discussed naming six power plants shut down since 2012. Announcements of a proposed twelve additional shut downs between 2018 and 2025.

Savannah River's history was explained noting 130 million of liters highly contaminated liquid was stored in 47 underground storage tanks with limited access to the liquid, saltcake, and sludge. Explanations of the contaminations that contacted the groundwater and soils in the area.

Explanations of the 12 annual appropriations bill funds by the federal government. The various topics explained the Minibus Packages 1, 2, & 3.

The Light Water Reactor Sustainability Program develops fundamental scientific basis to enable continued long-term operations of existing LWR's beyond 60 years. Its action improves reliability, sustains safety, preserves carbon free generation, and supports long term economic visibility.

A revisit of the IEEE Nuclear Safety Standards Response: IEEE 497-2016 explained its roles and lessons learned from its events at Three Mile Island and Fukushima.

Panelist discussed the success of the Oak Ridge Reservation Cleanup programs and explained the struggles, successes, learning, and environmental impact.

#### **VIII. Names & Telephone Numbers of Significant Contacts:**

Include that we can provide contact information for other SSAB's on request.

#### **IX. Action Items:**

The conference lecturers presented various handouts regarding programs. Please see attached, a packet of information.

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

#### **X. Traveler's Signature & Date:**

Signature: 

Date: 10/08/18

## Abbreviations/Acronyms List for Environmental Management Project Update

AM – action memorandum

ARARs – Applicable or Relevant and Appropriate Requirements

ARRA – American Recovery and Reinvestment Act

BCV – Bear Creek Valley

BG – burial grounds

BV- Bethel Valley

CARAR – Capacity Assurance Remedial Action Report

CART - carbon steel casing dollies

CBFO – Carlsbad Field Office

CERCLA – Comprehensive Environmental Response, Compensation  
and Liability Act

CEUSP – Consolidated Edison Uranium Solidification Project

CD – critical decision

CH – contact handled

CNS – Consolidated Nuclear Security, LLC

CNF – Central Neutralization Facility

COLEX – column exchange

CS – construction start

CY – calendar year

D&D – decontamination and decommissioning

DARA – Disposal Area Remedial Action

DNAPL – Dense Non-Aqueous Phase Liquids

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

FCAP - Facilities Capability Assurance Program

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

HQ – Headquarters

HRE – Homogenous Reactor Experiment

IROD – Interim Record of Decision

ISD - In-Situ Decommissioning

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

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

NPDES – National Pollutant Discharge Elimination System

NPL – National Priorities List

OR – Oak Ridge

ORGDP – Oak Ridge Gaseous Diffusion Plant

OREIS – Oak Ridge Environmental Information System

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

RSE – Remedial Site Evaluation

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

VPP – Voluntary Protection Plan

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



## EM Project Update

ETTP	September	October
Zone 1 Interim Soils ROD	The ecological remedial action on Duct Island began. Tree removal, backfill material stockpiling, perimeter digging to confirm the extent of contamination, and final road improvements were completed.	The two ecological digs on Duct Island are complete. Confirmation sampling for one of the two areas demonstrates no further action.
Zone 2	The Tc-99 Remedial Action is 46 percent complete. The digs that took place in Phase I met the EMWMF disposal criteria, saving significant cost over sending to the Nevada National Security Site.	The Tc-99 Remedial Action is 50 percent complete. Accumulated rainwater, coupled with areas of complex groundwater flow, have caused excavation delays.
		The K-633 slab removal is 98 percent complete for the Poplar Creek remedial actions. This is the first of 12 slab removals planned to enable remedial action efforts in this area.
K-25/K-27 Demolition		The K-25/K-27 RmAR documenting the completion of demolition was approved by the regulators.
ETTP Sitewide		The Groundwater Remedial Site Evaluation for the K-31/K-33 Area was submitted to the regulators for review.
Remaining Facilities	Deactivation of the K-1037 facility is approximately 93 percent complete. Final cleaning of the facility is underway, which will allow demolition to occur outside of the security umbrella.	Deactivation of the K-1037 facility is approximately 95 percent complete. Ninety percent of the legacy waste packaged inside the facility has been shipped, including chemicals.
	Demolition and debris disposal of the TSCA facility is complete. Concrete slab demolition is 75 percent complete and waste hauling has begun.	Demolition and shipping of building demolition debris is complete for the TSCA facility. Concrete slab demolition is 95 percent complete and waste hauling is 65 percent complete.
	The fiberglass tanks and Building K-1425 adjacent to TSCA have been demolished and shipping is complete.	Continued universal waste removal in Buildings 1210 and 1220, and removal is 72 percent complete.
	The overhead tie-lines that connected the Central Neutralization Facility (CNF) and the TSCA Incinerator were demolished and shipped.	
	The PCCR for CNF was submitted to the regulators for review and approval.	
ETTP Historic Preservation	Began construction of the K-25 History center. Pre-mobilization documentation and safety orientation were completed. Subcontractor mobilization began and limited demolition was initiated to support development of the electrical isolation work package.	Electrical isolation was completed for construction of the K-25 History Center in K-1652. Demolition of interior abandoned wiring/conduit, wall studs, sheetrock, rock wool insulation, and HVAC duct and insulation is ongoing. Awarded subcontract for History Center Site Improvements and began review of pre-mobilization submittals.
ORNL	September	October
Molten Salt Reactor Facility	Completed the characterization of the MSRE salt probes and the empty probe cask. Disposition is scheduled for October.	

## EM Project Update

Surveillance and Maintenance	The White Oak Creek and Melton Branch weir cleanout was completed. The collected sediments and organic materials are being transported to the EMWMF for disposal.	
	A proposal was submitted to address Building 3017 west end foundation structural stability.	

## EM Project Update

ORNL	September	October
ORNL Facilities D&D		Work is in progress for the first of major cleanup activities at the Bulk Shielding Reactor in the ORNL Central Campus. Combustibles removal is 90 percent complete in the 3009 and 3010 facilities.
U-233 Disposition	Evaluating vendor proposals for installation of a skid-mounted chiller to address Building 2026 air conditioning requirements after failure of existing cooling equipment.	
Y-12	September	October
Outfall 200 Mercury Treatment Facility (MTF)	OF 200 MTF Balance of Construction proposal evaluation continues.	Critical Decision 2/3 was approved for the MTF project. Early site preparation is progressing well and is scheduled for completion by the end of November.
	The south secant pile wall construction is approximately 70 percent complete. Utilities relocation work continues.	A redesign of the supports for a reroute of the steam condensate line has resulted in final demolition work associated with early site preparation activities being pushed out until November 2018. CNS will complete tie-in of the new steam condensate line and 13.8 Kv power in early November. Installation of the south secant piles completed in October; completion of the south wall cap will complete in November.
Y-12 Facilities D&D	Demolition of the West Alpha 4 COLEX feed tanks is complete.	Demolition and removal of the West Alpha 4 COLEX piping and equipment is complete. Load out and disposition of debris is nearing completion.
	The National Historic Preservation Act review packet for the Biology Complex was submitted to the State Historic Preservation Officer, initiating a 30-day review. The review is required prior to modifying the buildings to support construction elevator installation and performing major deactivation activities.	
Off-Site Cleanup/Waste Management	September	October
Transuranic Waste Processing Center		The TDEC regulatory milestone for processing 97 cubic meters of Remote Handled TRU waste was completed on schedule.
EMDF	The formal dispute on the Proposed Plan was resolved and the Proposed Plan was released to the public. The public comment period is underway. An extension to the public comment period of 45 days was requested and granted by DOE.	With the release of the Proposed Plan, OREM committed to hosting two public information sessions and a public meeting as part of the 45-day public comment period. Both information sessions were completed.
		A tour of EMDF was provided to the Environmental Quality Advisory Board. Five members participated in this information session to learn more about the site and project.

## EM Project Update

Off-Site Cleanup/Waste Management	September	October
WRRP	The Phase I Melton Valley/Bethel Valley Exit Pathway RI Work Plan was submitted to the regulators for review.	The Sampling and Analysis Plan to support Bethel Valley RI Work Plan Data Quality Objectives Scoping was submitted to the regulators for review. A meeting was held with the regulators to discuss the proposed sampling.
	EPA comments on the RSE Phase 2 Detection Monitoring Work Plan were received and preparation of responses was initiated.	A meeting was held with the regulators to discuss draft responses to comments on the RSE Phase 2 Detection Monitoring Work Plan.
		The 2018 Remediation Effectiveness Report D2 was submitted to the regulators for approval.

## Travel Opportunities

Meeting/Event	Dates	Location	Cost	Website	Conference Lock Date; (# slots)	Deadline to Submit Requests
<b>FY 2019</b>						
<b>Waste Management Symposium</b> (Attendees: Allen, Price)	March 3-7, 2019	Phoenix	\$1,200	<a href="http://www.wmsym.org">www.wmsym.org</a>	10/19/18 (2)	10/1/18
<b>National Environmental Justice Conference &amp; Training</b> Requests: Shields	March 13-15, 2019	Washington, D.C.	none	<a href="http://thenejc.org">http://thenejc.org</a>	N/A	TBD/likely January
<b>RadWaste Summit</b> Requests: Shields	Sept. 3-5, 2019	Henderson, Nevada	TBD/likely 625	<a href="http://www.radwastesummit.com">www.radwastesummit.com</a>	TBD/likely February	TBD/likely January
<b>2019 Spring Chairs Meeting</b>	TBD/Likely May	Aiken, SC	none		NA	TBD/likely March
<b>U.S. EPA Community Involvement Training Conference</b>	July 18-19, 2018	Kansas City, MO	none	<a href="http://www.epa.gov/superfund/community-involvement-training-program-0">www.epa.gov/superfund/community-involvement-training-program-0</a>	N/A	TBD/likely May
<b>DOE National Cleanup Workshop</b> Requests: Shields	Sept. 10 -12	Alexandria, VA	TBD/likely 425	<a href="http://www.cleanupworkshop.com">www.cleanupworkshop.com</a>	TBD (2)	TBD/likely May
<b>Perma-Fix Nuclear Waste Management Forum</b>	TBD/Likely November				TBD (2)	TBD/likely July
<b>EPA National Brownfields Conference</b>	TBD/likely December	TBD	\$125		N/A	TBD/likely October

Shaded trips are closed



**FY 2019 Incoming Correspondence  
October/November**

#	Date	To	From	Description	Distribution
4	10/1/2018	Japp, DOE	Young, TDEC	Remedial Design Report/Remedial Action Work Plan for Water Treatment at Outfall 200 in the Upper East Fork Poplar Creek Characterization Area, ORR (DOE/OR/01-2735&D2)	DOEIC, Notified board officers of receipt
5	10/1/2018	Japp, DOE	Young, TDEC	Appendix J Fiscal Year +3 Milestone Notification Letter	DOEIC, Notified board officers of receipt
6	10/4/2018	Japp, DOE	Young, TDEC	Change to Monitoring Frequency in Melton Valley	DOEIC, Notified board officers of receipt
7	10/4/2018	Jones, EPA; Young, TDEC	Deacon & Japp, DOE	Transmittal of the K-31/K-33 Area Groundwater Remedial Site Evaluation Report for the ETPP, ORR (DOE/OR/01-2765&D1)	DOEIC, Notified board officers of receipt
8	10/5/2018	Jones, EPA; Young, TDEC	Adler & Japp, DOE	Transmittal of the 2018 Remediation Effectiveness Report for the U.S. DOE ORR (DOE/OR/01-2757&D2)	DOEIC, Notified board officers of receipt
9	10/9/2018	Jones, EPA; Young, TDEC	McMillan & Japp, DOE	Transmittal of the Sampling and Analysis Plan to Support Bethel Valley Remedial Investigation Work Plan Data Quality Objectives Scoping, U.S. DOE ORR (DOE/OR/01-2795&D1)	DOEIC, Notified board officers of receipt



**FY 2019 Incoming Correspondence  
October/November**

#	Date	To	From	Description	Distribution
10	10/3/2018	Japp, DOE	Jones, EPA	EPA Comments Addendum for Duct Island Ecological Remedial Action to Remedial Action Work Plan for Dynamic Verification Strategy for Zone 1, ETPP	DOEIC, Notified board officers of receipt
11	10/4/2018	Japp, DOE	Young, TDEC	Change to Monitoring Frequency in Melton Valley	DOEIC, Notified board officers of receipt
12	10/12/2018	Jones, EPA; Young, TDEC	Japp, DOE	Change to Well Monitoring Frequency	DOEIC, Notified board officers of receipt
13	10/11/2018	Japp, DOE	Jones, EPA	EPA Approval for Extension Request of D2 PCCR for Exposure Unit Z2-28 in Zone 2 ETPP	DOEIC, Notified board officers of receipt
14	10/11/2018	Japp, DOE	Atashi, EPA	EPA Comments Phased Construction Completion Report for Exposure Unit Z2-29	DOEIC, Notified board officers of receipt
15	10/11/2018	Japp, DOE	Jones, EPA	EPA Approval Identifying All Auxiliary Facilities that May Be Demolished Along With a Principal	DOEIC, Notified board officers of receipt
16	10/15/2018	McMillan, DOE	Awasthi & Czartoryski, TDEC	Mixed Waste Site Treatment Plan- Submittal of Remote-Handled Transuranic Waste Milestone Completion	DOEIC, Notified board officers of receipt
17	10/22/2018	Japp, DOE	Young, TDEC	Extension for Submission of the Phased Construction Completion Report for Exposure Unit Z2-28 in Zone 2, ETPP (DOE/OR/01-2746&D2)	DOEIC, Notified board officers of receipt



## FY 2019 Incoming Correspondence October/November

#	Date	To	From	Description	Distribution
18	10/22/2018	Japp, DOE	Young, TDEC	Modified Change to Monitoring Frequency in Melton Valley	DOEIC, Notified board officers of receipt
19	10/23/2018	Distribution	Borak, DOE	Environmental Assessment for the Disposal of Greater-Than-Class C (GTCC) Low-Level Radioactive Waste and GTCC-Like Waste at Waste Control Specialists, Andrews County, Texas	DOEIC, Notified board officers of receipt
20	10/25/2018	Japp, DOE	Young, TDEC	Approval of FY 2018 Phased Construction Completion Report for the OR EMWMF (DOE/OR/01-2760&D2)	DOEIC, Notified board officers of receipt
21	10/25/2018	Jones, EPA; Young, TDEC	Henry & Japp, DOE	Federal Facility Agreement Milestone Extension Request for EMDF ROD and Follow-On Documents	DOEIC, Notified board officers of receipt
22	10/25/2018	Japp, DOE	Jones, EPA	EPA Approval for Change to Monitoring Frequency for Offsite Monitoring Wells for Melton Valley	DOEIC, Notified board officers of receipt
23	10/25/2018	Japp, DOE	Froede, EPA	EPA Comments FY2018 Phased Construction Completion Report for the ORR EMWMF	DOEIC, Notified board officers of receipt
24	10/30/2018	Japp, DOE	Young, TDEC	Submittal of Proposed Changes to the ORR Federal Facility Agreement Appendix B and C dated 10-1-18	DOEIC, Notified board officers of receipt





## FY 2019 Incoming Correspondence October/November

#	Date	To	From	Description	Distribution
25	10/30/2018	Japp, DOE	Young, TDEC	RE: Extension for Submission of the Amendment to the Record of Decision for Interim Actions in Zone 1 ETPP	DOEIC, Notified board officers of receipt
26	10/30/2018	Japp, DOE	Jones, EPA	EPA Approval Letter Extension for Submission of the Amendment to the Record of Decision for Interim Actions in	DOEIC, Notified board officers of receipt
27	10/31/2018	Wilson, ORSSAB	Mullis, DOE	Response to the Letter Dated Aug. 28, 1018, Recommendation 240: On the Proposed EMDF	DOEIC, Notified board officers of receipt
28	11/1/2018	Japp, DOE	Young, TDEC	TDEC Response to the DOE Submittal of the August 1 Fiscal Year 2019 Funding Profile	DOEIC, Notified board officers of receipt
29	11/6/2018	Jones, EPA; Young, TDEC	Japp, DOE	Distribution of Well Monitoring Change	DOEIC, Notified board officers of receipt
30	11/6/2018	Jones, EPA; Young, TDEC	Japp & Deacon, DOE	Transmittal of the Supplemental Sampling and Analysis Plan for the ETPP Main Groundwater Feasibility Study Well Installation at ETPP (DOE/OR/01-2802&D1)	DOEIC, Notified board officers of receipt