

# Oak Ridge Site Specific Advisory Board Monthly Meeting



Wednesday, March 9, 2022, 6 p.m.

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

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AGENDA

PRESENTER BIO

PRESENTATION MATERIALS

CALENDARS

1. March
2. April (draft)

BOARD MINUTES/RECOMMENDATIONS & MOTIONS

1. Chairs Recommendation on Outreach
2. Chairs Recommendation on DOE 10-Year Plan
3. Draft Feb. 9, 2022 Full Board Meeting minutes for approval

REPORTS & MEMOS

1. FY 2022 Incoming Correspondence
2. Member and Liaison Bios



**Oak Ridge Site Specific Advisory Board**  
**Wednesday, March 9, 2022, 6:00 p.m.**  
Virtual meeting  
**AGENDA**

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- I. Welcome and announcements (L. Shields) ..... 6:00–6:10
- II. Comments from federal and state agency representatives  
(M. Noe, S. Urquhart-Foster, K. Czartoryski) ..... 6:10–6:15
- III. Presentation: ORSSAB FY 2024 Budget Request (J. Daffron) ..... 6:15–6:35  
**Issue Group:** *Malone, Sharpe, Shields, Tuck*  
*– Members, please inform staff if you wish to join this or any other topic on the Work Plan.*  
Questions regarding the **presentation/speaker only** ..... 6:35–6:45
  - i. Board members
  - ii. Guests – Please indicate you wish to speak by using the “raise hand” action in Zoom and wait to be acknowledged. Or you may type your question in the chat window.
- IV. Public comment period (S. Kimel)..... 6:45-6:55
  - i. Comments on **other topics or concerns** for DOE or the board – Comments previously received to be read into the record.
  - ii. *Comments pertaining to this meeting will continue to be accepted by email to [orssab@orem.doe.gov](mailto:orssab@orem.doe.gov) by no later than 5 p.m. EST on Monday, March 14, 2022.*
- V. Call for additions & motion to approve agenda (L. Shields) ..... 6:55
  - A. Requests for new action items
  - B. Next meeting –No April Meeting – members encouraged to view the EM SSAB Chairs Meeting online April 20-21.  
ORSSAB Meets May 11, topic EMDF/Waste Disposal Capacity  
**Issue Group:** *Lohmann, McCurdy, Perez, Shields, Shoemaker, Swindler, Tapp*  
*– Members, please inform staff if you wish to join this or any other topic on the Work Plan.*

————— *This ends the presentation portion of the meeting – presenters and subject experts may depart* —————

- VI. Board Business..... 7:00–7:15
  - A. Vote on Chairs Recommendation on Outreach (L. Shields)
  - B. Vote on Chairs Recommendation on DOE 10-Year Plan (S. Lohmann)
  - C. Vote to Approve February 9, 2022 Meeting Minutes (L. Shields)
- VII. Responses to recommendations & alternate DDFO’s report (M. Noe) ..... 7:15–7:20
- VIII. Committee reports..... 7:20–7:25
  - A. EM/Stewardship (J. Tapp)
  - B. Executive (L. Shields)
- IX. Additions to agenda & closing remarks (L. Shields) ..... 7:25–7:30
- X. Adjourn ..... 7:30

James Daffron serves as the acting Director of the Planning and Execution Division for the Oak Ridge Office of Environmental Management.

He is responsible for overseeing the planning and execution of cleanup at Oak Ridge's three primary sites—the East Tennessee Technology Park (ETTP), Y-12 National Security Complex, and Oak Ridge National Laboratory. His oversight also includes strategic planning, budget development, and fund management.

Previously, Mr. Daffron served as acting portfolio federal project director for environmental cleanup and closure activities at ETTP.

He is a retired U.S. Army Colonel, with 30 years of service, providing extensive leadership, engineering, and construction experience. He received a master's degree in environmental engineering from the University of Tennessee. and a master's degree in strategic studies from the U.S. Army War College.



# March 9, SSAB Budget Briefing

## Oak Ridge Office of Environmental Management

Jim Daffron, Acting Director, Planning and Execution Division  
Oak Ridge Office of Environmental Management

March 9, 2022

# Federal Budget Process

1. Each Department submits their budget to the Office of Management and Budget (OMB)

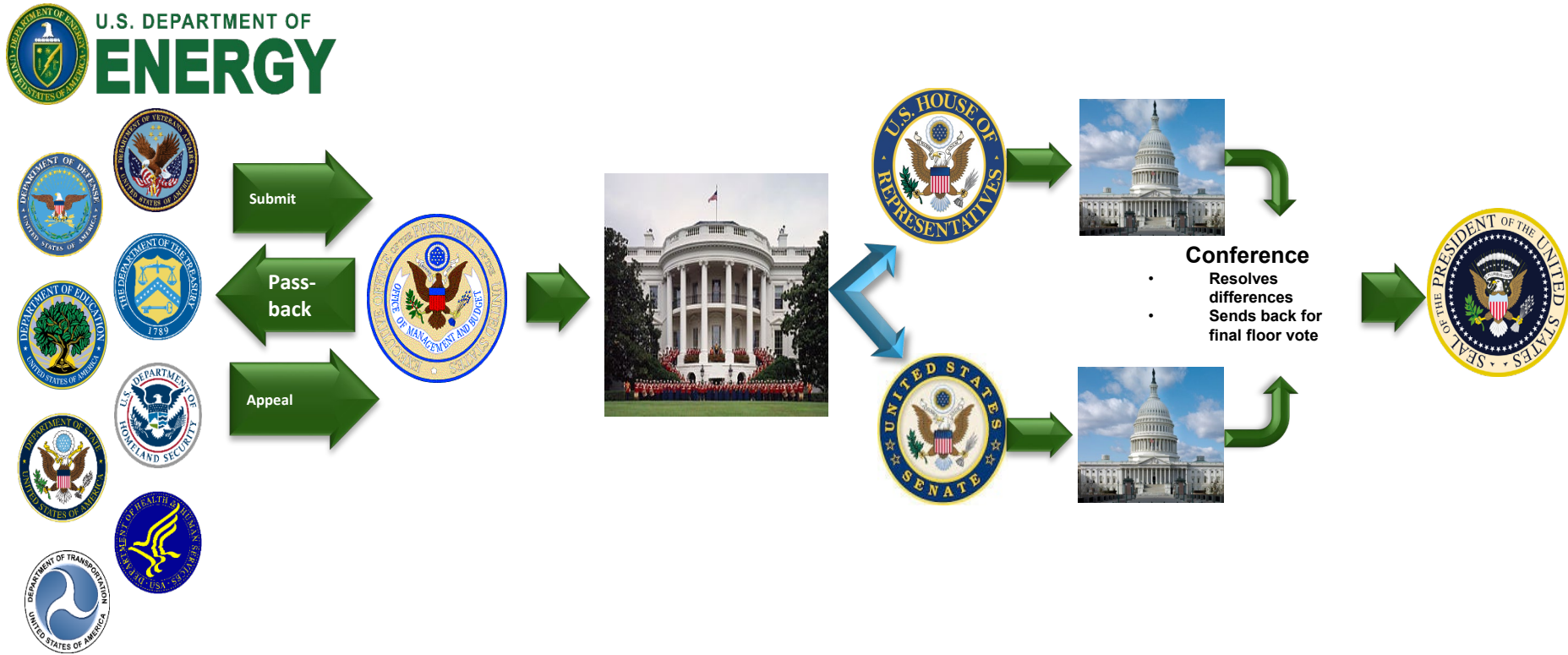
2. OMB consolidates all Department budgets

3. The President approves the budget and submits to Congress

4. Sub-committees develop bills

5. The Appropriation Committee approves Bills and sends for floor vote

6. President signs budget into law



# Building a budget

- Start with Lifecycle planning because it reflects our priorities
- Identify and quantify difference or changes in priority
- Categorize work:
  1. Maintain Safe and Compliant operations
  2. Meet regulatory milestones
  3. Enable needed infrastructure
  4. Continue ongoing cleanup activities
- Sequence work within the funding targets
- Quantify impacts of funding targets if necessary

# Fiscal Year 2021 Oak Ridge Office of Environmental Management Budget, Accomplishments and Planned FY 2022 Accomplishments



Appropriation Account	FY2021 Enacted	Accomplishments	FY22 Planned Accomplishments
<b>U-233 Disposition (11D)</b>	55	Processed 27 oxide canisters in Building 2026 gloveboxes, generating 1.67 grams of thorium for medical research and treatment one year ahead of schedule Completed equipment testing for commissioning hot-cell processing	Begin U-233 Building 2026 hot-cell processing
<b>TRU Disposition (13B)</b>	112.5	Continued RH and CH processing to date (98% and 99% complete, respectively) Continued preparations process oxides Completed 22 Shipments to WIPP Continue testing of sludge processing facility critical technologies. Completed testing of some vital equipment and installed in the test area.	Continue operations at TWPC and shipments to WIPP Complete construction of onsite sludge test area Continue testing to prove critical technologies to inform design of sludge processing facility
<b>Safeguard and Security (20)</b>	9.3	Provide safeguard and security services for EM operations.	Provide safeguard and security services for EM operations.
<b>Y-12/ORNL (41/42)</b>  S&M and Operations          Cleanup	254.1	Continued safe and compliant operation of the waste disposal (EMWMF and landfills) and treatment (LGWO) facilities at ORNL and Y-12. Continue activities to extend life of aging LGWO systems and to enhance S&M of MSRE  Completed demolition of Biology Complex and initiated excavation of underlying slab and soils Completed 3026 West Cell Bank demolition Completed 7025 demolition Ramped up cleanup of Y-12 and ORNL excess facilities using transitioned ETPP workforce	Operate waste disposal (EMWMF and landfills) and treatment (LGWO) facilities at ORNL and Y-12. Continue activities to extend life of aging LGWO systems and to enhance S&M of MSRE  Complete remediation of Biology Complex Complete deactivation of 9213 Continue deactivation of high risk excess facilities at Y-12 Complete pre-demolition of excess reactors 3005 and 3010 Advance pre-demolition of other excess reactor and isotope production facilities



# Fiscal Year 2021 Oak Ridge Office of Environmental Management Budget, Accomplishments and Planned FY 2022 Accomplishments



Appropriation Account	FY2021 Enacted	Accomplishments	FY22 Planned Accomplishments
<b>Mercury Treatment Facility - Line Item 14-D-403</b>	20.5	Continue construction of the Outfall Mercury Treatment Facility by advancing shoring and excavation at headworks site, and other construction activities at the treatment plant site	Continue construction of the Outfall Mercury Treatment facility including completing shoring and excavation at headworks site Begin installation of treatment plant building structural steel
<b>EMDF - Line Item</b>	22.4	Continue final design activities for the On-Site Waste Disposal Facility. Issued Draft 1 version of the Record of Decision (ROD)	Issue Draft 2 Version of ROD Early site preparation and groundwater field demonstration will be first fieldwork after ROD approval
<b>Technology Development (TD100)</b>	5	Continue planned mercury technology development activities. Focus areas include understanding soil and groundwater source control, water chemistry and sediment manipulation.	Continue planned mercury technology development activities. Focus areas include understanding soil and groundwater source control, water chemistry and sediment manipulation.
<b>Regulatory Support (100)</b>	5.9	State of Tennessee FFA and community involvement grants and SSAB	State of Tennessee FFA and community involvement grants and SSAB
<b>ETTP cleanup (40)</b>	134.7	Continue remediation of slabs and soils and other activities required to close ETTP and transfer long-term stewardship to legacy management.	Continue remediation of slabs and soils and other activities required to close ETTP and transfer long-term stewardship to legacy management.
<b>Pension and Medical Benefits - 102</b>	25	Fund contractor post-retirement life, medical and pensions liabilities	Fund contractor post-retirement life, medical and pensions liabilities
<b>Total Oak Ridge</b>	<b>644.4</b>		

# Fiscal Year 2022 Budget Appendix

## Program and Financing (in millions of dollars)

Identification code 089-0251-0-1-053		2020 actual	2021 est.	2022 est.
<b>Obligations by program activity:</b>				
0001	Closure Sites .....	4	5	4
0002	Hanford Site .....	875	926	926
0003	River Protection - Tank Farm .....	867	784	825
0004	River Protection - Waste Treatment Plant .....	718	861	716
0006	Idaho .....	439	434	370
0007	NNSA Sites .....	347	328	436
0008	Oak Ridge .....	492	475	424
0009	Savannah River .....	1,467	1,532	1,582
0010	Waste Isolation Pilot Plant .....	399	413	430
0011	Program Support .....	24	13	63
0012	Safeguards & Security .....	320	321	317

*Oak Ridge.*—Funds defense-related cleanup of the three facilities that make up the Oak Ridge site: the East Tennessee Technology Park, the Oak Ridge National Laboratory, and the Y-12 Plant. The overall cleanup strategy is based on surface water considerations, encompassing five distinct watersheds that feed the adjacent Clinch River.

# Fiscal Year 2022 Budget Appendix

## Program and Financing (in millions of dollars)

Identification code 089-5231-0-2-271		2020 actual	2021 est.	2022 est.
<b>Obligations by program activity:</b>				
0001	Oak Ridge .....	196	135	105
0002	Paducah .....	257	240	199
0003	Portsmouth .....	408	430	467
0004	Pension and Community and Regulatory Support .....	22	31	26
0005	Title X Uranium/Thorium Reimbursement Program .....	5	5	34

*Decontamination and Decommissioning Activities.*—Funds: 1) projects to decontaminate, decommission, and remediate the sites and facilities of the gaseous diffusion plants at Portsmouth, Ohio; Paducah, Kentucky; and East Tennessee Technology Park, Oak Ridge, Tennessee and; 2) pensions and post-retirement medical benefits for active and inactive gaseous diffusion plant workers.

# OREM's priorities

- Closure of ETTP
- Demolition of excess contaminated facilities at ORNL and Y-12
- Infrastructure to enable cleanup
  - Mercury Treatment Facility
  - CERCLA waste disposal facility
- Disposition of U-233 material
- Disposition of legacy transuranic contact-handled (CH) / remote-handled (RH) debris and sludges
- Maintain and operate facilities at ORNL and Y-12

# Fiscal Year 2023 and 2024 Budget

- The FY 2023 budget is embargoed
- This is the opportunity for you to provide priorities for the FY 2024 formulation



# Oak Ridge Site Specific Advisory Board

# March

# 2022

Topic – Budget

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1	2 Executive Committee Meeting – 4 p.m. (Virtual)	3	4	5
6	7	8	9 Board meeting – 6 p.m. (Virtual)	10	11	12
13	14	15	16	17	18	19
20	21	22	23 EM/Stewardship Committee meeting 6 p.m. (Virtual)	24	25	26
27	28	29	30	31		

All meetings will be held virtually until further notice. For information about attending meetings, please email [orssab@orem.doe.gov](mailto:orssab@orem.doe.gov) at least 1 week prior to the scheduled meeting.

**ORSSAB Support Office:** (865) 241-4583 or 241-4584      **DOE Information Center:** (865) 241-4780



# Oak Ridge Site Specific Advisory Board

## April (draft)

## 2022

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1	2
3	4	5	6 Executive Committee Meeting – 4 p.m. (Virtual)	7	8	9
10	11	12	13 CANCELLED Board meeting	14	15	16
17	18	19	20 EM SSAB Spring Chairs Meeting Time TBD (Virtual)	21 EM SSAB Spring Chairs Meeting Time TBD (Virtual)	22	23
24	25	26	27 CANCELLED EM/Stewardship Committee meeting	28	29	30

All meetings will be held virtually until further notice. For information about attending meetings, please email [orssab@orem.doe.gov](mailto:orssab@orem.doe.gov) at least 1 week prior to the scheduled meeting.

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

**DOE Information Center:** (865) 241-4780

## ENVIRONMENTAL MANAGEMENT SITE-SPECIFIC ADVISORY BOARD

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Hanford Idaho Nevada Northern New Mexico  
Oak Ridge Paducah Portsmouth Savannah River

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October XX, 2021

Mr. William “Ike” White  
Acting Assistant Secretary for Environmental Management (EM)  
U.S. Department of Energy (DOE)  
1000 Independence Avenue, SW  
Washington, DC 20585

Dear Mr. White:

On October XX, 2021, the Chairs and Vice-Chairs of the EM Site-Specific Advisory Board (SSAB) passed the following recommendation concerning community engagement at EM sites. This recommendation was subsequently approved by XXXX local boards of the EM SSAB.

### **Background**

The EM SSAB understands that successful completion of the DOE-EM mission must include a significant community, public and stakeholder outreach. While DOE-EM has been engaging in public outreach from the beginning we believe that the effectiveness can be improved by any of several different approaches described in this document taking into consideration the complexity and uniqueness of each of the cleanup sites managed by DOE-EM.

Because of the challenges represented by the complexity and variety of sites with correspondingly different cleanup schedules, we are presenting a suite of potential activities that can be implemented by DOE EM and the SSABs at each of the sites but are applicable to all sites in some form. Individual site-specific advisory boards are in the perfect position to help develop and recommend implementation strategies because of our inherent connections within our respective communities. Advisory board involvement on DOE EM outreach would help by providing advice related to specific targeted areas based on feedback from actual communities and individuals who live near or are potentially impacted by site activities.

Below are observations from the SSABs developed during public outreach committee meetings. These are followed by specific recommendations from this committee.

### **Observations:**

- Some SSABs feel that the relationship between DOE and their communities is top-notch, while others feel that the public stakeholders need greater involvement in the cleanup conversation as decisions are being made.
- SSABs tend to agree that DOE sites are most successful when they host and encourage frank,



transparent conversations with the public and regulators regarding the decisions that are being made and the challenges they face. These are often difficult and complex topics that the public is eager to understand and need to have the opportunity to ask questions and see their concerns addressed.

- Sites are most successful when they get in the “trust zone” with their local and regional stakeholders and partners.
- Frequent sharing of information about cleanup, schedules, and funding with local Chambers of Commerce and economic development organizations as well as city and county governments has been found to be very advantageous for one SSAB.
- Public involvement in shaping decisions is important to project success. In order to accomplish this overarching goal, several areas of the public involvement relationship could be improved. What is legally required is just the start.
- Public stakeholders appreciate when we see their values reflected in the activities, agreements, and products of site managers and regulators. Examples include DOE’s solicitation of board values and incorporation of those values in Federal Facility Agreement Public Involvement Plans, soliciting and incorporating board input on informational materials and effective public meeting designs.
- In-depth informational outreach is highly valued by the different SSABs.
  - This can take the form of monthly newsletters for those who can’t attend meetings, to virtual meetings that give the public access to SMEs on specific topics of interest, to regional in-person “dialogues” that promote a two-way communication between interested stakeholders and site managers from both DOE and the regulatory agencies.
  - Access to information digitally and in an approachable format are also highly valued in order to reach and inform the widest audience.
- Beyond virtual access, the ability to take in-person tours is deemed fundamental to the openness and transparency the public is seeking.
- In general, the SSAB boards are interested and willing to consult with DOE on how meetings and outreach materials are designed and distributed, and we encourage DOE to make use of this resource. New media such as videos, animations, virtual tours, regular newsletters, and digital histories are excellent tools for site outreach and education, and their continued development should be supported.
- Many sites like Paducah have a book on the history of the site.
  - These could be placed in the community, university, and local school libraries, city and county offices, tourism, and Chambers of Commerce offices.
  - These could also be presented to state and federal officials, Congressional delegation, state legislators and others.
- Exhibits on the history of the site and cleanup process placed in appropriate locations, such as area universities and colleges, city and county offices; public meetings regarding the site and cleanup and other appropriate locations.

### **Recommendation**

We recommend that the individual site managers/designees and their advisory boards work together to discuss and determine which activities best suit their circumstances and respond to public needs. The detail, depth, and implementation plan should result from this collaborative effort. The following thematic areas of improvement were agreed upon by the Chair Public Outreach Committee and are offered as recommendations to DOE EM, as well as some specific recommendations within each thematic area. Site-by-site recommendations may be found in the attachments to this letter.

1. Develop an optimal design and platform for virtual and hybrid meetings and make the most of virtual opportunities. Not only does this allow us to make the most of the change that COVID-19 brought to

the world but allows access by members of the public that might not be able to travel to SSAB meetings.

- Utilize social media to quickly disseminate important information to the public, State and local governments, and stakeholders.
2. Maintain efforts for in-person outreach.
    - Make site tours for board members a requisite, and include the public, stakeholder groups, and the media whenever possible.
    - Utilize local museums to house displays for preserving site history or virtual museums to tell the story of the site using online format that can be accessed at any time.
  3. Outreach should be a mechanism for effective two-way communication between DOE-EM and the general public. DOE-EM outreach should seek to increase (1) the general public's awareness and understanding of DOE-EM activities as well as (2) actionable feedback from the general public regarding past, current, and future DOE-EM activities.
    - Engage the public early and often. Have interactive conversations with the public that allow the public to ask questions and get answers about complex subjects.
    - Share how public input has shaped or influenced cleanup decisions.
    - Ensure open and transparent decision making.
    - Promote success and planning ahead by incorporating and educating the public on strategic vision plans that cover at least the next 10 years.
  4. Continue to support and improve informational outreach products to engage the public.
    - Utilize existing digital media outlets (i.e., YouTube channels, papers, blogs, and newsletters) to broadcast timely information about current events and upcoming activities at a site. [NOTE: Nevada has their own YouTube channel.]
    - Create videos, animations, and diagrams to use at public presentations or posted on websites to present engaging content the public would be interested in.
    - Create a listing of historical articles and books relevant to each site that could be accessed through each site's website. Consider providing hyperlinks for the public to view these documents. EM sites provide databases or libraries of the technical reports produced for EM cleanup actions. The aforementioned historical articles and books would not duplicate the EM libraries but rather provide information that is less scientifically complex and technical for interested but perhaps less informed members of the public.
    - Messaging regarding the cleanup of environmental impacts from nuclear development and research at the sites should be prioritized and increased relative to other, non-cleanup messaging.
  5. Continue seeking ways to support and improve the impact of DOE's Site Specific Advisory Boards
    - Educate/inform the public, stakeholders, local and state officials and other appropriate entities on the purpose and responsibilities of the SSAB/CAB Boards in each community, including the current leadership and membership, through news releases, speaker presentations, social media, newsletters and other communication methods. When new leadership has been selected or new members have joined the Board, also announce the changes using similar methods as previously mentioned.
    - When DOE/EM officials visit EM sites, plan an opportunity to visit informally with local SSAB / CAB Board members in order to develop a relationship with its membership and to show that they are valued.
  6. Facilitate and support cross-site sharing of activities and public outreach resources. Outreach efforts should be informed and motivated by relevant professional expertise and related quantitative and qualitative metrics. To ensure ongoing progress, outreach efforts should be reviewed periodically by recognized experts in the field of government public outreach, and the outreach efforts should be adjusted as appropriate.

### **Additional Information**

In preparation for this recommendation, the EM SSAB prepared the following three attachments that it believes represents viable activities and opportunities for effective public outreach that EM sites should consider in preparing public outreach plans.

- Attachment #1, *Outreach Activities for DOE EM, contractor, or SSAB*, is a compilation of outreach activities that have been used by SSABs with varying degrees of success. This can be used to develop approaches at Sites.
- Attachment #2, *Improvement Opportunities*, collates public outreach best practices submitted by the SSAB chairs at the Spring 2021 Virtual Chairs Meeting.
- Attachment #3, *Charge Responses Compiled*, contains the PowerPoint slides provided by each SSAB Chair at the Spring 2021 Virtual Chairs Meeting. The slides provide a detailed listing of the improvement opportunities offered by each of the SSAB chairs.

These observations and recommendations are respectfully submitted by the below signed chairs of the respective SSABs.

XXXXXXXX, Chair  
Hanford Advisory Board

XXXXXXXX, Chair  
Nevada SSAB

XXXXXX, Chair  
Oak Ridge SSAB

XXXXXXXX, Chair  
Paducah CAB

XXXXXXXX, Chair  
Savannah River Site CAB

XXXXXXXX, Chair  
Northern New Mexico  
CAB

XXXXXX, Chair  
Portsmouth SSAB

XXXXXXXXXX, Chair  
Idaho Cleanup Project CAB

cc: Kelly Snyder, EM-4.32

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### **References**

1. Attachment #1, *Outreach Activities for DOE EM, contractor, or SSAB*
2. Attachment #2, *Improvement Opportunities*
3. Attachment #3, *Charge Responses Compiled*

## DRAFT

### 10 Year Strategic Plan Development:

- 1) DOE should hold 10 year Strategic Vision public meetings every year, at each site, in order to share the next iteration of programmatic goals, including discussions of successes, roadblocks, course changes, new scopes of cleanup and recognition of potential uncertainties. Public tutorial meetings should be held two weeks in advance of the beginning of any formal Public Comment period in order to build a common knowledge base.
- 2) EM Sites have the commonality of specific, near-term, three to five year, plans. These specific site plans should all trigger public involvement campaigns, outlining yearly updates on their next respective, goals. Site near-term plans should be aligned with 10 year Strategic Plan goals such that near-term plans can be used iteratively to benchmark programmatic progress.
- 3) Regarding the Strategic Vision, in addition to reducing jargon and allowing for a quicker means of identifying or getting to information pertinent to a specific site, the document needs a better explanation of how the priorities are established. What criteria are used with regard to public health, environmental risks, local economies, cost to complete, land transfers, etc.? Not details for each site, but an overall explanation of the process. This might help people understand why some sites have larger budgets or seem to be more active. Local SSABs are probably knowledgeable about planning for their sites, but each board should have some education on national priorities.

### Communication:

- 1) DOE should put forth a concerted effort to define terminology so that FACA Boards and the public understand what is being considered and asked for, from them, within the decision matrix to be discussed. DOE needs to clearly communicate the boundaries of what is being considered. Additionally, DOE should articulate, in what manner, public policy advice can be successfully received by DOE-EM in order to see it incorporated into DOE's pending decisions. Lastly, DOE must convey how they will respond to public comments.
- 2) Utilize the strength of the SSAB Board's experiences and longevity by having them help to facilitate public meeting design, timing and locations. DOE-EM SSABs are now long-standing. They are formed from broad representation of the communities they represent and as such have the ability to help DOE regionalize presentations.
- 3) Evaluation of SSAB effectiveness should be based on several factors. This should include development of, but not limited to, guidance on when and what types of recommendations are needed. Although less objective, evaluative assessments from community stakeholders, DOE, DOE contractors, regulatory personnel and the SSAB's themselves should be incorporated.
- 4) Activities at some sites are long term and have reached the stage where little change is seen during the tenure of a typical SSAB member. Hence, the need for major decisions and recommendations is less or non-existent. Maintaining SSAB member interest is difficult. In this situation, DOE should consider ways to involve the SSABs in less consequential decisions and public outreach. DOE should

also consider what types of education might provide a better background for recommendations, decisions, community outreach that will occur in the future.

5) Written communication produced by DOE and the SSABs that is intended for the general public should be reviewed by site Public Affairs to verify that the use of jargon or uncommon terminology is understandable to a non-technical audience.

#### Public Involvement:

1) DOE should embrace the tenet that institutional knowledge and transparency in all aspects of the cleanup program is an essential component of building informed, useful and supportive public policy advice from the SSAB Boards, Tribes and the public. By engaging the public early and often, DOE can utilize the SSAB Boards and their operating structures such that they help prepare future generations of Board members and the public for informed engagement.

2) DOE should support STEM program development for local schools and colleges with curriculum development. Efforts should include supporting development of trained people for trade-focused careers.

3) DOE should actively provide opportunities for informational engagement and coordinate with the EM SSAB meeting schedule to the extent possible.

4) DOE should hold public tutorial meetings in order to share DOE interactions with regulatory bodies and formally convened scientific panels. Building a collective, scientific basis for remediation pathway development that incorporates informed public policy recommendations should be the goal.

5) SSAB membership should be consistent in reflecting community educational levels, proximity, racial and cultural diversity, and income levels. An exact mirror of the community is not necessarily beneficial. Interest and commitment are most important. Including actual stakeholders affected by public health or environmental risks or community economic and political factors is more important than simply looking at the community demographics. Also, having people that can contribute to SSAB decisions because of experience, education, and connections in the community is important. One criterion that should be emphasized is a member's willingness and ability to communicate with the general public.

6) Introductory training for new board members appears to be inconsistent. Site tours and in-person instruction should be required. These should be supplemented by online or other virtual resources. In addition to DOE and/or contractor personnel, current SSAB members should be involved in the tours and training. Introductory training can be spread out over time, but should be separate from SSAB meetings. A more formal schedule of when new SSAB members are added should be established to allow for a better introductory training schedule and to reduce the need for continual repetition of information that has already been addressed by longer term SSAB members.

7) Because of COVID, virtual meetings have become routine. Although these meetings allow for participation of people geographically distant or with health issues, they are not as effective regarding communication within and between SSAB, DOE, regulatory personnel, DOE contractors, and the general public. Virtual meetings allow for a lessened commitment among participants. SSAB in-person meetings should be prioritized, with hybrid meetings as needed.

Risk Communication:

- 1) DOE should address the Boards and the public on how risk assessments affect prioritization and decision making.
- 2) Training should be provided to Board members on communications surrounding high-profile or sensitive issues.



*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*

### **DRAFT February 9, 2022 Meeting Minutes**

The Oak Ridge Site Specific Advisory Board (ORSSAB) held its monthly meeting virtually via Zoom on Wednesday, February 9, 2022 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**

Lorna Hollowell  
Amy Jones  
Shell Lohmann, Chair  
Greg Malone

Harriett McCurdy  
Marite Perez  
Michael Sharpe  
Leon Shields, Vice Chair

Fred Swindler  
John Tapp  
Tom Tuck

#### **Members Absent**

Richard Burroughs  
Chris Hampel  
Noah Keebler

Georgette Samaras  
Thomas McCormick  
Bonnie Shoemaker,  
Secretary

Rudy Weigel  
Zach Wilkins

<sup>1</sup>Third consecutive absence

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

Kelly Snyder, DOE EM SSAB Designated Federal Officer (DFO)  
Melyssa Noe, ORSSAB Alternate Deputy Designated Federal Officer (DDFO), OREM  
Kristof Czartoryski, Tennessee Department of Environment and Conservation (TDEC)  
Connie Jones, U.S. Environmental Protection Agency (EPA)  
Samantha Urquhart-Foster, EPA

#### **Others Present**

Shelley Kimel, ORSSAB Support Office  
Sara McManamy-Johnson, ORSSAB Support Office  
Roger Petrie, OREM  
Torend Collins, DOE HQ

Five members of the public were present.



### **Liaison Comments**

**Ms. Noe** – Ms. Noe introduced members to new member Lorna Hollowell, and then provided members an update on OREM program highlights that had occurred since the last board meeting. She told members that OREM had met all of Headquarters' (HQ) priorities for OREM in 2021, including finishing demolition of the biology complex, continuing land transfers at the East Tennessee Technology Park (ETTP), and awarding the next 10-year cleanup contract for the Oak Ridge Reservation (ORR) to United Cleanup Oak Ridge (UCOR), a team comprised of Amentum, Jacobs, and Honeywell. Additionally, she said HQ recently announced OREM's 2022 priorities, which include some new milestones. She said OREM will be finishing soil work and transferring the Biology Complex footprint to the National Nuclear Security Administration (NNSA) for their new planned facility at that location. OREM will also begin to process U-233 material in hot cells, and she added that OREM recently finished using glove boxes for processing and disposing a subset of the Uranium-233 inventory stored at Oak Ridge National Lab (ORNL).

She said crews have been really busy deactivating and preparing facilities for demolition at both ORNL and Y-12 National Security Complex (Y-12). In 2021, OREM conducted work in 20 buildings at ORNL and seven buildings at Y-12. She said one of the highest priority projects is a new on-site waste disposal facility known as the Environmental Management Disposal Facility (EMDF). She added that OREM is still in the regulatory approval process for that project, and there are plans for a public meeting regarding it in the future.

Next, Ms. Noe invited members to attend a virtual event February 24th from 9:30 to 10:30 a.m. She said the event would be a DOE and UCOR event to reveal the future vision for ETTP. She added that DOE recently announced a partnership with the U.S. Army Corps of Engineers, who will help construct the K-25 viewing platform and wayside exhibits around the K-25 footprint. She said the plans are to break ground this year and complete construction next year.

**Ms. Connie Jones** – Ms. Connie Jones told members that Mr. Daniel Blackman is the new regional administrator for the Atlanta Office Region 4 Office. She said Mr. Blackman brings the role significant policy experience in dealing with EPA's programs, civic and community engagement activities. Ms. Connie Jones then told members that Ms. Samantha Urquhart-Foster is replacing Ms. Jones as the new ORSSAB EPA Liaison moving forward.

**Mr. Czartoryski** – Mr. Czartoryski expressed appreciation for the program updates shared and said he was happy regular meetings were starting again.

### **Presentation**

Ms. Lohmann introduced Ms. Kelly Snyder, presenter for the evening's topic, the Federal Advisory Committee Act (FACA).

Ms. Snyder began by giving members a brief overview of the history of the Environmental Management Site Specific Advisory Board (EM SSAB), beginning with its charter under FACA in 1994 as a way to involve local citizens more directly in DOE-EM cleanup decisions. She told members that there is one charter for all eight local advisory boards, each of which operate throughout the year on their own individual schedules. She added that twice a year, the boards all gather for a national Chairs meeting, which is an opportunity for the boards to collaborate on potential recommendations and create a community environment that has a national perspective and makes national recommendations.

Ms. Snyder told members that the boards are comprised of community representatives, and although experts are welcome, but board members do not need to have a technical background to participate. She said it's important

that the boards represent a diverse variety of viewpoints, including gender, ethnicity, and education, and that they mirror the communities where they are located so DOE can better understand stakeholder values, how they feel about the EM program, and potential avenues for improvement.

Next, Ms. Snyder went into additional detail about FACA, including its purpose, the roles that it outlines for advisory committees (of which EM SSAB is one of approximately 1,000 federal committees in existence), and its benefits, before then discussing the organizational structures for FACA and EM SSAB oversight at both the national and local levels.

She then gave a recap of the membership structure for the local boards, including the appointment process and the roles of non-voting liaisons representing intergovernmental agencies, such as the EPA. She added that these liaisons ensure the intergovernmental perspective is represented while also acting as resources for the board members.

Next, Ms. Snyder discussed basic legal requirements for FACA, including related to charters, demographically representative membership, open public meetings and notice for those meetings. For example, full board meetings – not subcommittee meetings – must be announced in the Federal Register. Although some boards also announce elsewhere, the Federal Register notice is the only legally required announcement. She also noted that FACA calls an advisory board a “committee” or a “council,” however DOE uses the term “advisory board.” When DOE-EM uses the term “committee,” it typically means a subcommittee within the advisory board.

She then discussed potential ramifications for violating FACA. While there are no criminal, civil, or monetary penalties, there may be litigation, meetings may be prohibited, and DOE may be legally prohibited from using recommendations created during a meeting not in compliance with FACA.

Ms. Snyder next went into additional detail on EM SSAB guiding policies and procedures, including the documents that outline those, from FACA at the top to the DOE Committee Management Manual to the EM SSAB Charter to the EM SSAB Policies and Procedures to the local board bylaws or local operating guidelines. She noted that the EM SSAB Charter renews every two years and the current charter expires April 10, 2022. Additionally, she noted that recent updates to ORSSAB’s bylaws are still in process.

She then moved on to board members’ responsibilities, such as attending meetings regularly, working together respectfully, and avoiding techniques that could be considered bargaining. She added that public comments are not typically responded to when they are given, particularly when they are outside the scope of the meeting.

### **Questions from the Public**

None

### **Public Comment**

None

### **Board Business/Motions**

1. Ms. Lohmann asked for a motion to approve the meeting agenda.
  - a. **2.9.22.1 Motion to approve the agenda**

Motion made by Mr. Shields and seconded by Ms. Amy Jones. Motion passed unanimously.

2. Ms. Snyder told members that DOE EM Principal Deputy Assistant Secretary Todd Shrader is asking each of the local advisory boards for ways the board and the site could improve diversity related to membership applications and public participation during SSAB meetings. In particular, he would like members to consider their community's demographics and look at meeting times and locations to determine whether they are set up in the best way to ensure community participation.
3. Ms. Lohmann gave members an overview of the Chairs recommendation on the member appointment process. She told members that boards have encountered issues in which members' appointments expire while they are awaiting reappointment approval, which can impede the board functioning properly. The revisions proposed in the Chairs recommendation would address those issues.

Ms. Lohmann asked for a motion to approve the Chairs Recommendation on the Appointment Process.

**a. 2.9.22.2 Motion to approve the Chairs Recommendation on the Appointment Process**

Motion made by Mr. Shields and seconded by Ms. Amy Jones. Motion passed unanimously.

4. Ms. Kimel presented the slate of candidates for board officer elections and told members that additional candidates still could be put forward. When no additional candidates were indicated, she told members the slate of candidates – Mr. Shields for Chair, Ms. Amy Jones for Vice Chair, and Ms. Lohmann for Secretary – could be approved at one time.
  - a. **2.9.22.3 Motion to approve Mr. Shields as Chair, Ms. Amy Jones as Vice Chair, and Ms. Lohmann as Secretary**

Motion made by Tom Tuck and seconded by John Tapp. Motion passed unanimously.

5. Ms. Lohmann asked for a motion to approve minutes from the June 9, 2021 meeting.
  - a. **2.9.22.4 Motion to approve June 9, 2021 meeting minutes**

Motion made by Mr. Shields and seconded by Ms. Amy Jones. Motion passed unanimously.

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

Ms. Noe told members there were no recommendations awaiting DOE response. She then gave members an overview of 2022 Work Plan. She noted that the board would not meet in April due to the Chairs meeting. She asked members to each sign up for at least one issue group, although members may sign up for additional groups if they would like.

### **Committee Reports**

Executive – Ms. Lohmann said the Executive Committee discussed the charges from headquarters, the work plan, and member recruitment.

EM & Stewardship – Ms. Amy Jones said the committee would not meet in February, but would meet again virtually on March 23. She added that the committee would be electing a committee Chair and Vice Chair, so anyone interested should contact staff.

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

None.

**Action Items**

*Open*

None

*Closed*

None

The meeting adjourned at 7:10 p.m.

I certify that these minutes are an accurate account of the February 9, 2022, meeting of the Oak Ridge Site Specific Advisory Board.

Leon Shields, Chair

Michelle Lohmann, Secretary

March 9, 2022

Oak Ridge Site Specific Advisory Board

ML/sm



## FY 2022 Incoming Correspondence

#	Date	To	From	Description	DOEIC, Notified board officers of receipt
102	2/3/2022	Petrie, DOE	Young, TDEC	TDEC Approval Letter Addendum to the Removal Action Work Plan for the Y-12 Facilities Deactivation/Demolition Project, Oak Ridge, Tennessee: Pre-Demolition and Demolition of Building 9213 and Ancillary Facilities 9409-36, 9703-14, And 9999-2 (DOE/OR/01-2479&D1/A10/R3)	DOEIC, Notified board officers of receipt
103	2/3/2022	Petrie, DOE	Young, TDEC	TDEC Approval Letter Waste Handling Plan for the Remaining Pre-Demolition Activities and Demolition of the 3010 Reactor Complex in Bethel Valley, Oak Ridge National Laboratory, Oak Ridge, Tennessee (DOE/OR/01-2896&D2)	DOEIC, Notified board officers of receipt
104	2/4/2022	Urquhart-Foster, EPA & Young, TDEC	Henry & Petrie, DOE	Transmittal of the Waste Handling Plan for the Demolition of Building 9213 And Ancillary Facilities 9409-36, 9703-14, and 9999-2 Located at the Y-12 National Security Complex, Oak Ridge, Tennessee (DOE/OR/01-2876&D1)	DOEIC, Notified board officers of receipt
105	2/7/2022	Urquhart-Foster, EPA & Young, TDEC	Henry & Petrie, DOE	Submittal of Federal Facility Agreement Extension Request for Record of Decision for Comprehensive Environmental Response, Compensation, and Liability at EMDF (DOE/OR/01-2794&D1)	DOEIC, Notified board officers of receipt
106	2/9/2022	Petrie, DOE	Urquhart-Foster, EPA	EPA Comments on Remedial Investigation Work Plan for Remaining Ecology-Surface Water-Sediment at East Tennessee Technology Park (DOE/OR/01-2912&D1)	DOEIC, Notified board officers of receipt
107	2/9/2022	Petrie, DOE	Urquhart-Foster, EPA	EPA letter and attachments regarding staffing changes	DOEIC, Notified board officers of receipt



## FY 2022 Incoming Correspondence

#	Date	To	From	Description	DOEIC, Notified board officers of receipt
108	2/10/2022	Petrie, DOE	Urquhart-Foster, EPA	EPA approval to extend the Federal Facility Agreement FFA Milestone submittal date for the revised Record of Decision for Comprehensive Environmental Response, Compensation, and Liability Act at EMDF (DOE/OR/01-2794&D1)	DOEIC, Notified board officers of receipt
109	2/10/2022	Urquhart-Foster, EPA & Young, TDEC	Carden & Petrie, DOE	Federal Facility Agreement Milestone Extension Request for the Work Plan/Technical Memorandum for Exposure Unit Z2-16 in Zone 2 of the East Tennessee Technology Park, Oak Ridge, Tennessee (DOE/OR/01-2224&D5/A11/R1)	DOEIC, Notified board officers of receipt
110	2/10/2022	Urquhart-Foster, EPA & Young, TDEC	Felosi & Petrie, DOE	Transmittal of the Phase 2 Offsite Detection Monitoring Remedial Site Evaluation Oak Ridge, Tennessee (DOE/OR/01-2917&D1)	DOEIC, Notified board officers of receipt
111	2/11/2022	Petrie, DOE	Richards, EPA	EPA Approval of the Waste Handling Plan Waste Handling Plan for the Demolition of Building 9213 and Ancillary Facilities 9409-36, 9703-14. and 9999-2 Located at the Y-12 National Security Complex (DOE/OR/01-2876&D1)	DOEIC, Notified board officers of receipt
112	2/11/2022	Urquhart-Foster, EPA & Young, TDEC	Carden & Petrie, DOE	Federal Facility Agreement Milestone Extension Request for Addendum 1 Exposure Unit Z2-33 Post K-1006 Area Slab Removal and Sub Slab Confirmation Sampling to the FY 2008 Phased Construction Completion Report for EU Z2-33 in Zone 2, ETPP (DOE/OR/01-2368&D2/A1/R1)	DOEIC, Notified board officers of receipt
113	2/14/2022	Petrie, DOE	Urquhart-Foster, EPA	EPA Approval to extend the Federal Facility Agreement FFA Milestone submittal date for the Phased Construction Completion Report for Ecological Risk Site in Zone 1, East Tennessee Technology Park (DOE/OR/01-2901&D2)	DOEIC, Notified board officers of receipt



## FY 2022 Incoming Correspondence

#	Date	To	From	Description	DOEIC, Notified board officers of receipt
114	2/14/2022	Petrie, DOE	Young, TDEC	TDEC Approval Letter Phased Construction Completion Report for Pre-Demolition of the 3010 Reactor Complex at the Oak Ridge National Laboratory, Oak Ridge, Tennessee (DOE/OR/01-2900&D1)	DOEIC, Notified board officers of receipt
115	2/14/2022	Petrie, DOE	Richards, EPA	EPA approval of the Phased Construction Completion Report for Pre-Demolition of the 3010 Reactor at the Oak Ridge National Laboratory, Oak Ridge, Tennessee (DOE/OR/01-2900&D1)	DOEIC, Notified board officers of receipt
116	2/16/2022	Petrie, DOE	Young, TDEC	TDEC Comments Re: Remedial Investigation/ Feasibility Study Report for the K-31/K-33 Area at the East Tennessee Technology Park Oak Ridge, Tennessee (Doe/Or/01-2893&D1/R1)	DOEIC, Notified board officers of receipt
117	2/17/2022	Petrie, DOE	Young, TDEC	TDEC Comment Letter: Addendum to the Remedial Action Work Plan/Waste Handling Plan for Liquid and Gaseous Waste Operations at the Oak Ridge National Laboratory, Oak Ridge, Tennessee: Facility and Equipment Deactivation/Small-Scale Demolition (DOE/OR/01-2830&D1/A1)	DOEIC, Notified board officers of receipt
118	2/17/2022	Petrie, DOE	VanTrees, EPA	EPA Comments: Remedial Investigation/ Feasibility Study Report for the K-31/K-33 Area at the East Tennessee Technology Park Oak Ridge, Tennessee (DOE/OR/01-2893&D1/R1)	DOEIC, Notified board officers of receipt
119	2/17/2022	Petrie, DOE	Young, TDEC	TDEC Approval Federal Facility Agreement Milestone Extension Request for the Phased Construction Completion Report for Ecological Risk Site in Zone 1, East Tennessee Technology Park, Oak Ridge, Tennessee (DOE/OR01-2901&D2)	DOEIC, Notified board officers of receipt
120	2/17/2022	Petrie, DOE	Young, TDEC	Federal Facility Agreement (FFA) Extension Request (February 7, 2022) for Environmental Management Disposal Facility (EMDF) Record of Decision (ROD)	DOEIC, Notified board officers of receipt



## FY 2022 Incoming Correspondence

#	Date	To	From	Description	DOEIC, Notified board officers of receipt
121	2/18/2022	Petrie, DOE	Urquhart-Foster, EPA	EPA Approval: Federal Facility Agreement Milestone Extension Request for the Work Plan/Technical Memorandum for Exposure Unit Z2-16 in Zone 2 of the East Tennessee Technology Park, Oak Ridge, Tennessee (DOE/OR/01-2224&D5/A11/R1)	DOEIC, Notified board officers of receipt
122	2/23/2022	Petrie, DOE	Richards, EPA	EPA Approval: Addendum to the Remedial Action Work Plan/Waste Handling Plan for Liquid and Gaseous Waste Operations at ORNL: Facility and Equipment Deactivation/Small-Scale Demolition (DOE/OR/01-2830&D1/A1)	DOEIC, Notified board officers of receipt
123	2/24/2022	Petrie, DOE	Young, TDEC	TDEC Approval: Federal Facility Agreement Milestone Extension Request for the Addendum 1 (Exposure Unit Z2-33 Post K-1006 Area Slab Removal and Sub Slab Confirmation Sampling) to the Fiscal Year 2008 Phased Construction Completion Report for EU Z2-33 in Zone 2, East Tennessee Technology Park, Oak Ridge, Tennessee (DOE/OR/01-2368&D2/A1/R1)	DOEIC, Notified board officers of receipt
124	2/24/2022	Petrie, DOE	Young, TDEC	TDEC Approval Letter Waste Handling Plan for the Demolition of Building 9213 and Ancillary Facilities 9409-36, 9703-14, and 9999-2 Located at the Y-12 National Security Complex, Oak Ridge, TN DOE/OR/01-2876&D1	DOEIC, Notified board officers of receipt
125	2/25/2022	Urquhart-Foster, EPA & Young, TDEC	Carden & Petrie, DOE	Transmittal of the East Tennessee Technology Park Main Plant Groundwater Focused Feasibility Study Oak Ridge, Tennessee (DOE-OR-01-2894&D2)	DOEIC, Notified board officers of receipt
126	2/28/2022	Urquhart-Foster, EPA & Young, TDEC	Carden & Petrie, DOE	EPA automatic 30-day extension to submit comments/approval on the East Tennessee Technology Park Main Plant Groundwater Focused Feasibility Study Oak Ridge, Tennessee (DOE/OR/01-2894&D2)	DOEIC, Notified board officers of receipt





## FY 2022 Incoming Correspondence

#	Date	To	From	Description	DOEIC, Notified board officers of receipt
127	2/28/2022	Urquhart-Foster, EPA & Young, TDEC	Carden & Petrie, DOE	EPA automatic 30-day extension to submit comments/approval on the Addendum 13 to the Remedial Design Report/Remedial Action Work Plan for Zone 2 Soils, Slabs, and Subsurface Structures with Work Plan/Technical Memorandum for Exposure Unit Z2-13 East Tennessee Technology Park Oak Ridge, Tennessee (DOE/OR/01-2224& D5/AA13/R1)	DOEIC, Notified board officers of receipt

**ENVIRONMENTAL MANAGEMENT SITE-SPECIFIC ADVISORY BOARD  
IN OAK RIDGE**

**BIOGRAPHIES**

**Thomas Geissberger (Knox County).** is a recent college graduate who works at the Knoxville Area Rescue Mission and was previously employed as a team director for the Tennessee Clean Water Network nonprofit since 2019. He graduated with a B.S. in Geology and Environmental Studies from the University of Tennessee in 2020 and received an A.A. in General Studies from Pellissippi State Community College. He is a member of the Phi Sigma Theta National Honor Society and Phi Kappa Phi Honor Society, completed the tAchieves Program, and was selected for the Oak Ridge Associated Universities Higher Education Research Experience Program during his time as a student. He is interested in environmental and public health issues and lives in Knoxville.

**Chris Hampel (Roane County).** Mr. Hampel owns and operates a small business, Pressure Washing Solutions, which he formed in 2016. He previously worked at Energy Solutions, which is a contractor to DOE at the Oak Ridge site. Mr. Hampel has a high school education and trade skill training related to his work experience. He is interested in minority and business issues. He is a resident of Kingston, Tennessee, and was appointed to the board in December 2020.

**Lorna Hollowell (Knox County).** has served as the assistant director of education and development in the Office of Equity and Diversity at the University of Tennessee, Knoxville since September 2019. She holds an M.S. in education from the University of Minnesota, Duluth and a B.S. in Organizational Management from Oakland City University. She is currently pursuing a Ph.D. in Higher Education Administration from the University of Tennessee and expects to graduate in 2026. She is interested in educational issues and minority issues. She lives in Knoxville.

**Amy Jones (Anderson County).** Ms. Jones is the senior benefit coordinator and a licensed insurance agent for Madison Insurance Group. She is also a sales manager for Arrowbroker and a real estate agent at Stephenson Realty & Auction. Ms. Jones owned her own business, Double J Enterprises of TN, in Rocky Top, Tennessee until mid-2018. A high school graduate, Ms. Jones has also received her real estate license and insurance license. She is active in a variety of community organizations including serving as an ambassador for the Anderson County Chamber of Commerce, vice chair for the Anderson County Republican Party, past vice chair of the Anderson County Headstart Policy Council, and chair for the State of Tennessee Order of Amaranth Diabetes Charity. She is a committeewoman on the State Executive Committee for the Tennessee Republican Party, past chair of the Women’s Ministry Banquet at Main Street Baptist, and president of two groups in the Order of the Eastern Star. Ms. Jones is interested in environmental and county government issues. She lives in Briceville, Tennessee. She was appointed to the board in July 2019 and currently serves as chair of the EM and Stewardship Committee of the EM SSAB in Oak Ridge.

**\*\*Noah Keebler (Knox County).** As of January 2021, Mr. Keebler is the owner of Arc Transportation, a logistics and freight company. He was previously a nuclear electronics technician with Ametek, which is a manufacturer of electronic instruments and electromechanical devices (no business with DOE or EM). Mr. Keebler received an A.S. in Electrical Engineering from Roane State Community College. He holds a certification in Instrumentation from Ludlum Measurements and several other certifications related to his work experience, including Occupational Safety and Health Administration training, electrical safety experience and radiation worker training. Mr. Keebler has an interest in environmental issues. He was appointed to the board in July 2019, and is a resident of Knoxville, Tennessee.

**Michelle Lohmann (Knox County).** Ms. Lohmann has been the human resources director for U.S. Cellular since February 2011. Previously, she was the program manager for the University Recruiting and Graduate Education Programs for ORNL/UT. Ms. Lohmann is a member of the Loudon County Boys and Girls Club Advisory Board and has an interest in economic development and environmental issues. A high school graduate, Ms. Lohmann resides in Knoxville, Tennessee. She was appointed to the board in June 2017 and currently serves as chair of the EM SSAB in Oak Ridge.

**Gregory Malone (Roane County).** Mr. Malone is a retired medical products development consultant. He operated Malone and Associates, Inc., an independent consulting firm, until 2019. Mr. Malone received a B.S. in Engineering with a Welding and Manufacturing concentration from Ohio State University. He is a member of the Oak Ridge Sportsmen's Association and a volunteer for the Great Smoky Mountains National Park. He is interested in environmental and economic development issues. Mr. Malone is a resident of Rockwood, Tennessee, and was appointed to the board in December 2020.

**Thomas McCormick (Campbell County).** Mr. McCormick is the city manager for the town of Oliver Springs, Tennessee, which includes portions of Anderson, Roane, and Morgan counties. He received a B.S. in Political Science from Middle Tennessee State University. He also has numerous certifications from the State of Tennessee, including as a water and wastewater treatment plant operator. Mr. McCormick lives in Jacksboro, Tennessee and is interested in city/county government and environmental issues. He was appointed to the board in December 2020.

**Ann (Harriett) McCurdy (Anderson County).** Ms. McCurdy retired in 2014 after more than 40 years as a teacher for middle- and high-school students both in the U.S. and abroad with a focus on the sciences. Most recently she served as a teacher of science and biology for grades 6-10 at Yangon Academy in Yangon, Myanmar. Prior to that, she taught a variety of science courses and environmental studies courses in China, Morocco, Kuwait, and Ecuador. Ms. McCurdy received a B.A. in Biology from Earlham College and an M.A. in Teaching Biology and her teaching certificate from Washington University. She is president of the Oak Ridge League of Women Voters and a member of Tennessee Citizens for Wilderness Planning. Ms. McCurdy is a resident of Oak

Ridge, Tennessee, and is interested in civic and educational issues. She was appointed to the board in February 2019.

**Marité Pérez (Knox County).** Ms. Pérez is a mortgage loan officer at First Community Mortgage. Previously, she worked in a similar position with Mortgage Investors Group. Ms. Perez has also worked with Latin and Haitian communities in the Dominican Republic as a community economic development advisor through the Peace Corps. She has additional business experience as business development manager for a local solar firm ARiES Solar. Ms. Pérez is chair of Centro Hispano of East Tennessee, a nonprofit which promotes empowerment and civic participation of the multicultural community through education and social services. She is also vice chair of the National Association of Hispanic Real Estate Professionals. Ms. Pérez has a B.S. in Social Sciences/Foreign Affairs from Florida State University and an M.B.A. in Global Social Sustainable Enterprise from Colorado State University. She is interested in environmental issues. Ms. Pérez is a resident of Knoxville, Tennessee, and was appointed to the board in July 2018.

**Georgette Samaras (Anderson County).** Ms. Samaras is director of community outreach for the local hospital system Covenant Health. She has also served as an adjunct instructor of Psychology at Pellissippi State Technical Community College since mid-2018. She is pursuing a Doctorate in Educational Leadership and Organizational Development, received an M.S. in Behavioral Psychology from Walden University, and a B.S. in Molecular, Cellular, and Developmental Psychology from the University of Colorado. Ms. Samaras is also a certified mind-body instructor through the Center for Mind Body Medicine. She is a volunteer with the USA Track and Field Federation and the Cancer Support Community. She is interested in environmental issues. Ms. Samaras resides in in Clinton, Tennessee, and was appointed to the board in July 2019.

**Michael Sharpe (Loudon County).** Mr. Sharpe is a SharePoint administrator and performs other technology- and web-based tasks for prime contractor Oak Ridge Associated Universities, which manages the Oak Ridge Institute for Science and Education for DOE. It provides science, education, workforce development, and health services that include some Oak Ridge EM areas such as decontamination verifications to support cleanup. He received an A.S. in Computer Programming from ITT Technical Institute and is pursuing a B.S. in Business Administration from Tusculum University. Mr. Sharpe is interested in civic and environmental issues. He is a resident of Lenoir City, Tennessee, and was appointed to the board in December 2020.

**Leon Shields (Loudon County).** Mr. Shields is the supervisor for field operations for the Lenoir City Utilities Board in Lenoir City, Tennessee, where he has worked for over 27 years. He is also the owner of Instructional Concepts, which provides training in industrial, public, and private application of firearms, explosives, vehicle extrication, and rescue operations. He is a firearms instructor/deputy for the Loudon County Sheriff's Office, an instructor/third party examiner for the State of Tennessee, a firefighter director

with Loudon County Fire Rescue, chairman of the Lenoir City Planning Commission/Board of Zoning Appeals, a commissioner with the Lenoir City Housing Authority/Rural Development, secretary for the Loudon County Regional Board of Zoning Appeals, and a commissioner with the Loudon County Regional Planning Commission. A high school graduate, Mr. Shields is a member of several civic organizations, including the Boys and Girls Clubs of Tennessee Valley, Lenoir City High School Technical Advisory Board, Loudon County Chamber of Commerce, Demolay International, and the Fraternal Order of Police. Mr. Shields has an interest in environmental issues. Mr. Shields resides in Lenoir City, Tennessee. He was appointed to the board in June 2017 and currently serves as vice chair of the EM SSAB in Oak Ridge.

**Bonnie Shoemaker (Anderson County).** Ms. Shoemaker retired in 2008 after 34 years at the DOE East Tennessee Technology Park and ORNL working in a variety of capacities, including chemical laboratory analyst, environmental compliance specialist, plant shift superintendent, emergency management specialist, and engineering technician. She is the recipient of two awards for operations and technical support in environmental compliance and emergency management. Ms. Shoemaker received her B.S. in Biology from UT. She has an interest in environmental and public health issues. Ms. Shoemaker is a resident of Clinton, Tennessee. She was appointed to the board in June 2017 and currently serves as secretary of the EM SSAB in Oak Ridge.

**Fredric Swindler (Roane County).** Mr. Swindler retired in 2013 as vice president and consultant for quality assurance and regulatory affairs with IsoRay Medical, Inc. in Richland, Washington. He occasionally provides consulting services with Vivos, Inc., a medical device manufacturer in Richland, Washington (no DOE or EM work). He was previously employed as a vice president for quality assurance and regulatory affairs with two other medical manufacturing companies. Mr. Swindler received a B.S. in Biological Engineering from Rose Hulman Institute of Technology in Terre Haute, Indiana, and an M.B.A. from the University of Evansville, Indiana. He is a senior member of the American Society for Quality and has an interest in environmental and public health issues. Mr. Swindler is a resident of Rockwood, Tennessee. He was appointed to the board in July 2016.

**John Tapp (Knox County).** Dr. Tapp is a civil and environmental engineer with nearly 50 years of experience in all areas of environmental protection and restoration, including private and public utility management, civil and environmental engineering, strategic planning, budgeting, and project development. Dr. Tapp has recently worked for Electric Utility Disaster Specialists, Inc. as an independent technical assistance consultant for the Federal Emergency Management Agency in the water and wastewater field with

deployments to the U.S. Virgin Islands and the California Camp Wildfire. Prior work included HDR-ICA Engineering, where he provided consulting in a broad range of areas, including environmental permitting and interaction with state and federal regulatory agencies, and work with the Kentucky Infrastructure Authority, where he managed the statewide planning effort for the Authority. Dr. Tapp spent most of his career as a founding partner in Commonwealth Technology, an environmental and engineering consulting firm, and previously worked with the Kentucky Division of Water, EPA, and the U.S. Public Health Service. Dr. Tapp received his B.S. and M.S. degrees in Civil Engineering and his Ph.D. in Agricultural Engineering from the University of Kentucky. Dr. Tapp has an interest in environmental and economic development issues. He is a member and past president of the Kentucky-Tennessee Water Environment Association, a member of the Water Environment Federation, the Karns Community Club, and the Enhance Powell Committee. Dr. Tapp lives in Powell, Tennessee. He was appointed to the board in June 2017 and currently serves as vice chair of the EM and Stewardship Committee of the EM SSAB in Oak Ridge.

**Thomas Tuck (Knox County).** Mr. Tuck is a banking executive with TNBANK. He served as president of the bank since 1995 and in March of 2020 transitioned to part-time employment as part of a leadership transition/retirement. Mr. Tuck received a B.S. in Business and Marketing from UT and is a Certified Banker through the School of Banking of the South. Mr. Tuck is a member of the board of directors for local organizations including the Oak Ridge Chamber of Commerce, Oak Ridge Heritage and Preservation Association, and the East Tennessee Economic Council. He is a member of the Y-12 Community Relations Council. He is a resident of Knoxville, Tennessee, and was appointed to the board in December 2020.

**Rudolf Weigel (Anderson County).** Mr. Weigel is a retired industrial hygienist who most recently worked for Concurrent Technologies Corporation in Arlington, Virginia, conducting industrial hygiene surveys at various Army installations in support of the Army Public Health Command until 2015. From 2002 to 2011 he served as a senior industrial hygienist/safety and health representative with Bechtel Jacobs Company in Oak Ridge, Tennessee. His 36-year career has included work as a bioenvironmental engineer, environmental scientist, and hazardous waste program coordinator. Mr. Weigel received a B.S. in Occupational Safety and Health from Utah State University, and an M.S. in Environmental Health from East Tennessee State University. He was a member of the American Conference of Governmental Industrial Hygienists. He has an interest in environmental and decontamination and decommissioning issues. Mr. Weigel is a resident of Oak Ridge, Tennessee. He was appointed to the board in July 2016.

**Zachary Wilkins (Morgan County).** Since November 2019, Mr. Wilkins has been a senior industrial hygiene technician with DOE subcontractor Value Added Solutions, Inc., which provides professional services to support the cleanup and reindustrialization efforts at the Oak Ridge site.

From August 2018 to November 2019, he was a laborer for UCOR. Mr. Wilkins received an A.A.S. in Environmental Health from Roane State Community College. He

is interested in environmental issues and is a resident of Wartburg, Tennessee, and was appointed to the board in December 2020. Mr. Wilkins received an A.A.S. in Environmental Health from Roane State Community College. He is interested in environmental issues and is a resident of Wartburg, Tennessee, and was appointed to the board in December 2020.