



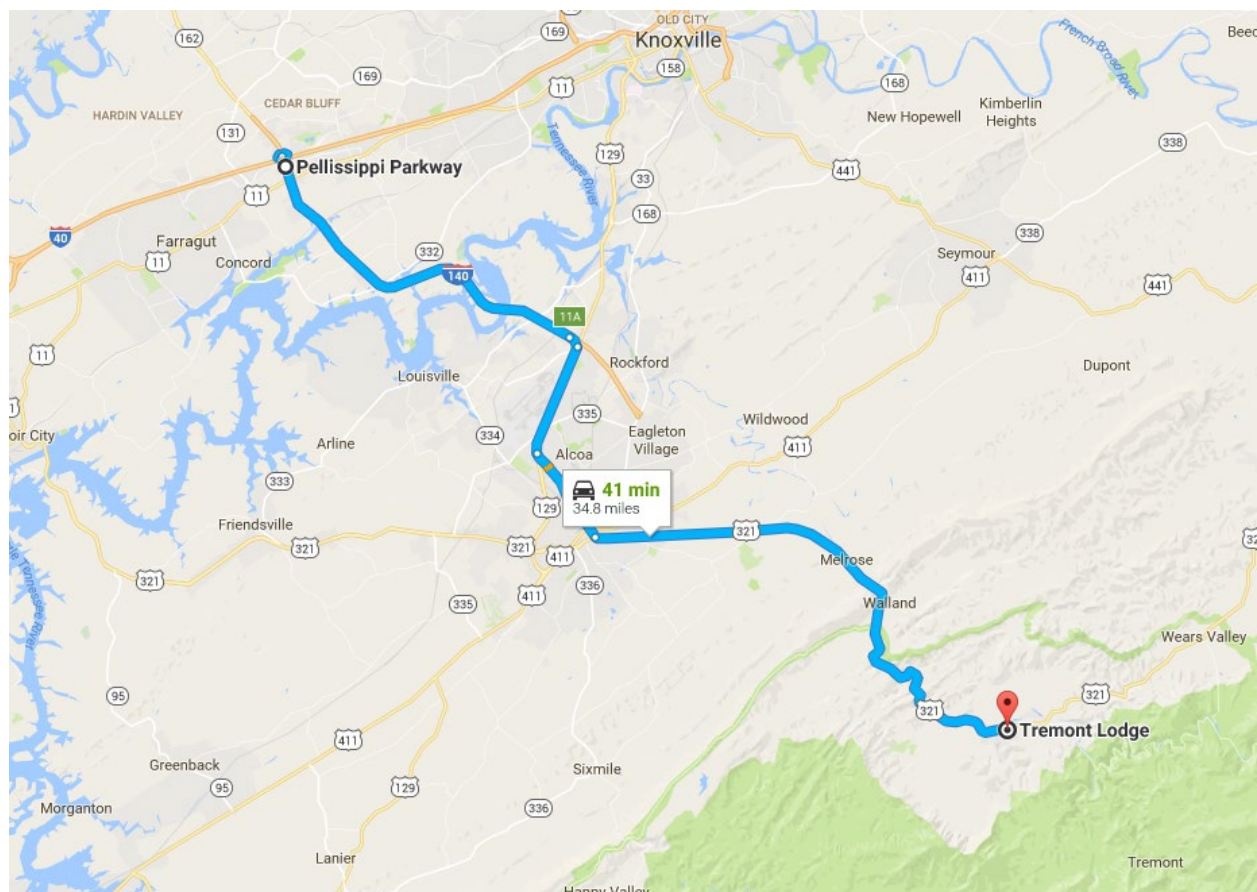
OAK RIDGE SITE SPECIFIC ADVISORY BOARD 2019 ANNUAL PLANNING MEETING

Map & Directions to Tremont Lodge & Resort

7726 E. Lamar Alexander Parkway
Townsend, TN 37882
Phone: 1 (865) 448-3200

1. From the intersection of I-40 and Pellissippi Parkway go south on Pellissippi Parkway (I-140) to Alcoa Highway.
2. Take Alcoa Highway/US-129 S toward Maryville.
3. Stay to the left at the "Y" (just past the airport) to continue on N Hall Road/US-35.
4. Follow N Hall Road/US-35 through Alcoa and Maryville. N Hall Road becomes Washington Street in Maryville.
5. Continue onto N Washington Street.
6. Use right 2 lanes to turn left onto US-321 N/E Lamar Alexander Parkway.
7. Follow US-321 N/E Lamar Alexander Parkway through Walland to Townsend.
8. The Tremont Lodge is on the right in Townsend at 7726 E Lamar Alexander Parkway.

<https://goo.gl/maps/yPs3WSv6Nz62>



Tremont

Lodge & Resort

Lodge, Cabins, Wedding & Event Center

7726 E Lamar Alexander Pkwy, Townsend, TN 37882

Phone: 865-448-3200

www.tremontlodge.com

- C** - Conference Center
- F** - Playground
- G** - Gazebo
- L** - Lodge/Event Center
- M** - Outdoor Movie Screen
- P** - Pavilion
- S** - Swimming Pool





Oak Ridge Site Specific Advisory Board

Annual Meeting

9:00 a.m. – 2:30 p.m. Saturday, August 24, 2019

Tremont Lodge & Resort **Conference Center**
7726 E. Lamar Alexander Pkwy, Townsend, TN

OBJECTIVES

1. Develop an increased understanding of and commitment to the goals of the board
2. Evaluate the effectiveness and achievements of FY 2019
3. Begin development of the FY 2020 work plan

AGENDA

- 9:00–9:05 Welcome (5)
- Opening Remarks – D. Wilson
 - Introduction of New Members – L. Wilkerson
- *9:05–9:35 OREM Program Overview and Updates – L. Wilkerson (30)
- 9:35–11:15 Work Plan Topics (1 hour 40 min)
- Presentations by Agencies – D. Adler, K. Czartoryski, C. Jones (30 ea.)
 - Suggestions from Members (10)
- 11:15–11:20 Process and Plan for Issue Groups – M. Noe (5)
- 11:20–11:35 Break (15)
- 11:35–11:40 Public Comment Period (5)
- 11:40–12:05 Board FY19 Review – D. Wilson (25)
- Mission and Accomplishments
 - Results of Member Survey
- 12:05–12:25 Board Business (20)
- June 13, 2018 Meeting Minutes – R. Burroughs
 - Voting on Recommendations from the EMSSAB Chairs Meeting – D. Wilson
 - Recommendation on EM's Review of Cleanup Milestones
 - Recommendation on Improving EM's Science and Technology Program
 - Recommendations on the FY 2021 OREM Budget Priorities – D. Wilson
 - Voting on Candidates for FY 2020 Officers – D. Wilson
- 12:25–12:30 Remarks – M. Noe, D. Wilson (5)
- FY 2020 Board Photo
 - End of Day Meeting Evaluation
- 12:30–1:30 Lunch Break (60)
- 1:30–2:30 Follow-on Discussion (60)



NEW MEMBER BIOGRAPHIES 2019

Andrea Browning is a human resources business partner with the ORNL Federal Credit Union. She has a master's in Industrial/Organizational Psychology. Andrea is a resident of Lenoir City, Tennessee and is interested in civic and environmental issues.

Amy Jones is a sales consultant/accountant with InvoPeo, a workers' compensation and payroll service and is also a licensed real estate agent. Amy lives in Briceville and is interested in environmental and economic development issues.

Noah Keebler is a nuclear electronics technician with Ametek, a manufacturer of electronic devices. He is pursuing a degree in Electrical Engineering from Roane State. Noah lives in Knoxville and is interested in the environmental aspects of the board.

Georgette Samaras is director of community outreach for Covenant Health. She has a master's in Behavioral Psychology and is also a certified mind-body instructor. Georgette lives in Clinton and is interested in environmental issues.

Robert Whitaker is currently a subsidy specialist in the Tennessee Department of Children's Services. He has a bachelor's in Health Science/Physical Education. Robert lives in Oak Ridge and has an interest in civic and business issues.

OREM Program Overview to be distributed



Department of Energy

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

July 18, 2019

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

Dear Mr. Wilson:

FISCAL YEAR 2020 TOPICS FOR THE OAK RIDGE SITE SPECIFIC ADVISORY BOARD

Thank you for your recent letter requesting suggestions for topics on which to focus the resources of the Oak Ridge Site Specific Advisory Board (ORSSAB) during Fiscal Year (FY) 2020. Input from ORSSAB on the following program areas in FY 2020 would be most appreciated:

1. Participation in Ongoing Efforts to Assure Sufficient Waste Disposal Capacity

Provision of additional disposal capacity continues to be of paramount importance to the Oak Ridge cleanup program so we can transition from the cleanup of the East Tennessee Technology Park (ETTP) to the Y-12 National Security Complex and Oak Ridge National Laboratory without interruption. Continuing input from the ORSSAB on this project is requested.

2. Molten Salt Reactor Experiment Feasibility Study Update

The U.S. Department of Energy (DOE) has activities underway to reduce the surveillance and maintenance requirements at the Molten Salt Reactor Experiment facility. We would like to update the ORSSAB on this activity.

3. Processing of Uranium-233 Material

DOE plans to process Uranium-233 at Oak Ridge National Laboratory. We would like to brief the ORSSAB on this activity.

4. ETTP Main Plant Groundwater Remedy Selections

During the February 2019 meeting, the ORSSAB was briefed that DOE is working with the Tennessee Department of Environment and Conservation and U.S. Environmental Protection Agency to establish a Record of Decision for the Main Plant Groundwater at ETTP. The Feasibility Study document for this decision will be submitted to the U.S. Environmental Protection Agency and Tennessee Department of Environment and Conservation for review/approval in November 2019. The continued input from ORSSAB on this important decision is requested.

FISCAL YEAR 2020 TOPICS FOR THE OAK RIDGE SITE SPECIFIC ADVISORY BOARD

5. Input on Reuse and Historic Preservation Activities at ETTP

Completion of site cleanup measures across large portions of ETTP is expected to present opportunities for land transfer, as well as site redevelopment including new facilities to interpret and communicate the history of the site. ORSSAB awareness and input on these important program objectives are requested.

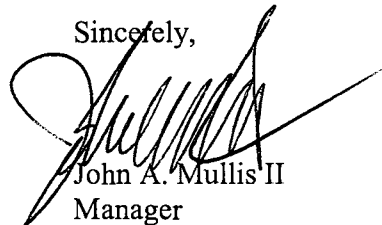
6. Provision of Input into the FY 2022 Budget Development Effort

The annual participation of ORSSAB in this effort remains important, particularly with a focus on establishing program priorities. We would like to brief ORSSAB on all major projects underway and obtain project prioritization input. In particular, participation by ORSSAB members in the annual public budget planning workshop is requested.

We look forward to providing additional information concerning these topics during the ORSSAB retreat in August 2019.

If you have any questions, or if we can be of further assistance, please contact me at 576-0742 or Dave Adler at 576-4094.

Sincerely,



John A. Mullis II
Manager

cc:

Connie Jones, EPA, Region 4
Kristof Czartoryski, TDEC, Oak Ridge
Dave Adler, EM-94
Mike Koentop, EM-90
Melyssa Noe, EM-942
Laura Wilkerson, EM-90

DOE presentation to be distributed



STATE OF TENNESSEE
DEPARTMENT OF ENVIRONMENT AND CONSERVATION

Division of Remediation - Oak Ridge
761 Emory Valley Road
Oak Ridge, Tennessee 37830

August 7, 2019

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

Dear Mr. Wilson

FY 2020 Topics for the Oak Ridge Site Specific Advisory Board

Thank you for your request for input from the Tennessee Department of Environment and Conservation (TDEC) on issues for the Oak Ridge Site Specific Advisory Board (ORSSAB) to consider during Fiscal Year (FY) 2020. The TDEC Division of Remediation, Oak Ridge office recommends the following program areas where stakeholder comments and recommendations would be most beneficial:

1. Future disposal for the Environmental Management generated waste

TDEC is committed to ensuring that the Environmental Management Disposal Facility landfill (EMDF landfill), if approved, is constructed to prevent any waste disposed at the EMDF landfill from being released into the surrounding environment, particularly groundwater. DOE-OR plans to dispose of several different types of waste at the landfill including hazardous waste, toxic waste, low-level radioactive waste, and mixed waste consisting of toxic, hazardous, and radioactive materials. DOE must demonstrate that the proposed EMDF landfill will meet the threshold criteria of protecting human health and the environment and complying with - or justifying site-specific waivers of - federal and state regulations listed under the Applicable or Relevant and Appropriate Requirements (ARARs).

Input from ORSSAB and continuing engagement will increase public awareness of the suitability of the proposed EMDF landfill for long-term stewardship necessary to safely contain mercury and radioactive contaminants that will remain a threat to public health and the environment forever.

2. Remediation of Contaminant Sources within Bear Creek Valley (BCV)

DOE is planning for additional on-site waste disposal in Bear Creek Valley. As part of the CERCLA protectiveness determination for this waste disposal, the FFA parties (EPA, DOE and TDEC) are relying on DOE's Composite Analysis (CA) process within DOE Order 435.1 to demonstrate protectiveness of additional waste disposal in BCV. DOE assumes in their CA process that the Bear Creek Valley Burial Grounds (BCVBG), one of the main sources of contamination entering Bear Creek Valley, will be remediated. Yet, the near-term plans for funding do not reflect that remediation will occur for more than a dozen years. The current cumulative discharges to creek and groundwater in BCV are already above risk goals.

ORSSAB engagement will increase public awareness of the need for better alignment between the cleanup assumptions and actual funding for cleanup commitments before more waste is disposed on the Oak Ridge Reservation.

3. Mercury Remediation

Releases of mercury from the Y-12 National Security Complex continue to exceed State of Tennessee and EPA water quality criteria. The Outfall 200 water treatment plant needs to be operating prior to the commencement of the Decontamination and Decommissioning (D&D) of Beta 4, Alpha 5, and Alpha 4 in order to capture as much mercury discharge from those sites as possible.

Since Bear Creek currently receives contaminated inputs from various legacy sites (e.g. Bear Creek Valley Burial Grounds and 5-3 Ponds) and from CERCLA waste disposal operations at EMWMF in Bear Creek Valley, the stream is impaired and does not meet the parameters for its water quality classifications. Placement of mercury-bearing waste in the existing EMWMF or the proposed EMDF landfill would inevitably generate landfill wastewater containing mercury and said wastewater would eventually need to be discharged. The wastewater discharge from EMWMF to Bear Creek has at times exceeded the recreational use water quality standard, according to DOE's sampling and records.

Because mercury is a principal threat waste, plans and decisions on how the West End Mercury Area D&D is conducted and how the mercury bearing waste is dispositioned is extremely important. Input from SSAB on this project and strategies for mercury waste management would increase public awareness of the nature of the mercury problem and the path forward for mercury remediation at Y-12.

4. Assessment of Groundwater and Remedy Selections

DOE funding requests do not identify adequate resources to complete the necessary, detailed on-site groundwater investigations which have been generally deferred since the signing of the ORR FFA in 1992. Numerous known groundwater plumes have yet to be delineated or controlled. Given the millions of curies of radioactive contaminants that DOE buried or injected into the ground on the

ORR, the more than fifty inches of annual rainfall, the relatively shallow distance to groundwater across the ORR, and the known potential of contaminant migration via karstic or fractured flow in the ORR geology, DOE budget requests should identify the need for significant, dedicated funds to implement CERCLA groundwater investigations and remedies on the ORR.

While continuing to work with DOE and EPA to achieve a balanced approach to the remediation of the Oak Ridge Reservation, TDEC also sees a need for investigation of the extent and migration of the groundwater plumes, and more aggressive implementation of groundwater remedies following successful treatability studies.

Continued input from the SSAB on the ORR groundwater strategy and specifically, maintaining public awareness concerning the nature and extent of ORR groundwater contamination in need of remediation will be very beneficial with regard to the funding requests and timing of groundwater actions.

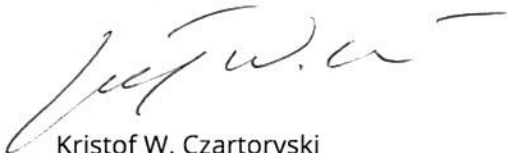
5. Processing and disposition of Transuranic (TRU) waste

TDEC is working with DOE on the path forward to disposition transuranic sludge stored in Melton Valley Storage Tanks. Though currently stable and safely stored, this waste stream represents one of the highest levels of risk to the public and the environment. The successful design and construction of the sludge treatment facility requires a steady fiscal environment.

Input from SSAB on these matters will increase public awareness of transuranic wastes in need of disposition.

I will be glad to discuss these issues in further detail with the SSAB and look forward to the ORSSAB annual planning meeting in August. Please contact me at (865) 220-6580.

Sincerely



Kristof W. Czartoryski
TDEC ORSSAB Liaison

xc Jay Mullis, DOE
 Dave Adler, DOE
 Melyssa Noe, DOE
 Constance Jones, EPA
 Chris Thompson, TDEC
 Ron Woody, ORRCA

TDEC presentation to be distributed



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 4
ATLANTA FEDERAL CENTER
61 FORSYTH STREET
ATLANTA, GEORGIA 30303-8960

JUL 17 2019

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

Dear Mr. Wilson:

This letter is in response to the June 6, 2019, Oak Ridge Site Specific Advisory Board's (ORSSAB) request to the U.S. Environmental Protection Agency for topics it should consider during its Fiscal Year 2020 planning activities. The issues identified below are those the EPA believes the ORSSAB should consider while assisting the Department of Energy, Oak Ridge Reservation (DOE-ORR) in its cleanup program under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and the National Contingency Plan (NCP). These issues also are intended to identify areas where citizens can be informed and have meaningful engagement regarding DOE's cleanup program, as required by the NCP. These topics are not listed in any order of priority.

1. DOE Oak Ridge Reservation Proposed Environmental Management Disposal Facility (EMDF)

The public comment period has officially ended on the EMDF Proposed Plan but issues remain regarding the landfill location, the position of groundwater beneath the proposed landfill site, information to meet or waive legal requirements for certain types of hazardous materials (e.g., polychlorinated biphenyls) The ORSSAB and the public should stay engaged with the ongoing issues and their resolution as this project moves toward the Federal Facility Agreement August 2, 2019 D1 Record of Decision submittal date. This is critical especially since not all the information was available at the time the Proposed Plan was issued. In a related matter, a dispute regarding the discharge limits for radionuclide containing wastewater from the existing Environmental Management Waste Management Facility (EMWMF) landfill and the proposed EMDF in Bear Creek is currently at the EPA Administrator for resolution. The ORSSAB and the public should stay aware of the final Administrator's decision, since it will determine if landfill wastewater containing radionuclides from EMWMF and the proposed EMDF will require treatment consistent with CERCLA prior to discharged in Bear Creek.

Timeframe: 1st Quarter FY 2020

2. DOE Oak Ridge Reservation Groundwater Projects:

East Tennessee Technology Park

A. DOE-ORR has submitted and requested suspension of the D2 K-31/K-33 Area Remedial Site Evaluation (RSE) at the East Tennessee Technology Park (ETTP) which proposes "No Further Action" (NFA) for groundwater cleanup. In coordination with EPA and TDEC, DOE-ORR has proposed two (2) additional rounds of groundwater sampling from select wells across the area. The results of the first

round are expected in September/October 2019, and the second round in May/June 2020. The strategy is to determine if the wells that previously indicated low-levels of groundwater contamination were improperly sampled. Resumption of the D2 RSE will occur following discussion of the second round of results. However, since this area and other ETPP contaminated groundwater areas have been included in previous CERCLA Remedial Investigations/Feasibility Studies (RI/FS) documents, the development of an RI/FS is best suited for continued investigation of the K-31/K-33 groundwater area and remediation of alternatives. The ORSSAB and the public should stay informed as this work progresses because contaminated groundwater above Maximum Contamination Levels across the K-31/K-33 area will not allow EPA/TDEC to accept the DOE-ORR NFA proposal.

B. On November 29, 2019, DOE-ORR will submit a draft Feasibility Study Report designed to convey multiple technologies that could be used to cleanup groundwater contamination across the East Tennessee Technology Park (ETTP) Main Plant Area. Promising technologies will be winnowed down and reviewed consistent with the CERCLA nine criteria (**Threshold Criteria:** Overall protection of human health and the environment and Compliance with legal applicable or relevant and appropriate standards, **Primary Balancing Criteria:** Long-term effectiveness, Permanence, Reduction of toxicity, mobility, or volume, Short-term effectiveness, Implementability, and Cost, and **Modifying Criteria:** State and Community acceptance). The ORSSAB and the public should be aware of the technologies reviewed, their limitations, and the potential for successful groundwater restoration across the ETPP Main Plant Area conveyed in the Feasibility Study Report. Note that the restoration of contaminated groundwater by any technology will require engineering controls (e.g., the remedial technology/technologies) and land use restrictions (e.g., barriers, fencing, etc.) for many decades across portions of the ETPP.

Timeframe: 2nd Quarter FY 2020

Bear Creek Valley

A. DOE-ORR is planning to begin site preparation in the fall of 2019 to install three wells near the terminus of Bear Creek Valley and adjacent to the Clinch River. These wells will serve as “Sentinel” monitoring wells and will be used to detect any down-valley contaminated groundwater migration toward the Clinch River. No contamination that warrants a CERCLA action is expected at this time from these new wells and DOE-ORR will continue to defer any final decisions for groundwater investigation/remediation for Bear Creek Valley sites until 2038/2039, respectively. Bear Creek remedial actions are currently addressed under an Interim until 2038/2039, when the final ROD is to be submitted. The Bear Creek Valley should be reassessed to identify and implement feasible cleanup actions to ensure the final ROD can be evaluated as final.

Timeframe: 2nd Quarter FY 2020

The EPA appreciates the opportunity to provide input into the next Fiscal Year’s ORSSAB planning activities. The efforts of this citizen organization to serve the community will have a positive impact on

the area generations to come. If you have any questions regarding any of the issues stated above, please do not hesitate to contact me at (404) 562-8551.

Sincerely,

A handwritten signature in cursive script that reads "Constance A. Jones".

Constance A. Jones, EPA ORSSAB Liaison
Restoration and DOE Coordination Section
Restoration and Site Evaluation Branch
Superfund Division

cc: Kristof Czartoryski, TDEC
David Adler, DOE
Melyssa Noe, DOE
Cathleen Burnette, TDEC

EPA presentation to be distributed

A Visual Guide to ORSSAB's Annual Planning



EXAMPLE PAGE of the FY 2019 ORSSAB Work Plan/Schedule

Executive meeting	Monthly meeting	Site tour	EM/Stewardship meeting
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Date	Event	Topic	Presenter	Issue Group	Location
OCTOBER 2018					
Wed., 10/3	Executive	General Business			DOEIC
Wed., 10/10	Monthly meeting	Current Oak Ridge Environmental Management Program Outreach	Williams	Shoemaker, Shields	DOEIC
	Site Tour	<i>(No site tour)</i>			
Wed., 10/24	EM/Stewardship	Current Oak Ridge Environmental Management Program Outreach discussion			DOEIC
NOVEMBER 2018					
Wed., 11/7	Executive	General Business			DOEIC
Wed., 11/14	Monthly meeting	Ongoing Efforts to Assure Sufficient Waste Disposal Capacity	Henry	Allen, Baker, Burroughs, Holden, Perez, Pitchers, Shields, Shoemaker, Swindler, Tapp, Trujillo	DOEIC
TBD	Site tour	On-site tour/Q&A	Henry/Williams		
Wed., 11/28	EM/Stewardship	Ongoing Efforts to Assure Sufficient Waste Disposal Capacity detailed discussion			DOEIC
DECEMBER 2019					
Wed., 12/5	Executive	<i>(No meeting)</i>			
Wed., 12/12	Monthly meeting	<i>(No meeting)</i>			
	Site tour	<i>(No site tour)</i>			
Wed., 12/26	EM/Stewardship	<i>(No meeting)</i>			
JANUARY 2019					
Wed., 1/2	Executive	<i>(No meeting)</i>			
Wed., 1/9	Monthly meeting	<i>(No meeting)</i>			
	Site tour	<i>(No site tour)</i>			
Wed., 1/23	EM/Stewardship	Ongoing Efforts to Assure Sufficient Waste Disposal Capacity discussion continued			
FEBRUARY 2019					
Wed., 2/6	Executive	General Business			DOEIC
Wed., 2/13 2/20	Monthly meeting	Evaluation of Ongoing Groundwater Efforts	Adler/ Mayton	Burroughs, Clark, Deaderick, Eastburn, Lohmann, Pitchers, Price, Shields, Shoemaker, Swindler, Tapp, Wilson	DOEIC
TBD	Site tour	On-site tour/Q&A	Adler/ Mayton/ Williams		
Wed., 2/27	EM/Stewardship	Evaluation of Ongoing Groundwater Efforts detailed discussion			

Frequently Asked Questions: Issue Groups

What do issue groups do?

- Issue groups create the original drafts of recommendations that will be considered for sending to DOE. Issue groups discuss ORSSAB topics, usually as articulated in the board's annual work plan, to formulate the board's potential recommendations. Group members select an issue manager from among the group's members, and that issue manager compiles the group members' thoughts into a cohesive draft recommendation.

How often do issue groups meet?

- Issue groups may meet at the discretion of the group members, **however**, group meetings are not required. Generally, group discussions are carried out via email. For effective email discussions, members should ensure all other members of the group are included in the **To:** or **CC:** address lines in email correspondence for the discussion. ORSSAB staff and DOE should also be included in all email correspondence for the discussion.

Can staff help issue groups draft recommendations?

- Actual recommendation directives must come from the members, however staff can help with background information and discussion.

What issue group topics are there?

- ORSSAB issue groups are broken down into monthly presentation topics as listed in the board's annual work plan. For example, OREM Program Outreach (October 2018 topic), Ongoing Efforts to Assure Sufficient Waste Disposal Capacity (November 2018 topic), Evaluation of Ongoing Groundwater Efforts (February 2019 topic), etc.

How do I sign up for an issue group?

- To sign up for an issue group, simply email ORSSAB Staff at orssab@orem.doe.gov to express your interest and you will be added to the email list for that discussion. This may happen at any time, not just at the beginning of the fiscal year.

How many issue groups may I sign up for?

- You may sign up for as many issue groups as you would like. You may also remove yourself from groups.

I've signed up for an issue group – Why have I not heard anything further?

- Issue groups are primarily called to action when a board topic may require a recommendation to DOE, and often the board may decide a recommendation is not needed for a topic.

Board Mission & Accomplishments



FY 2019 Annual Planning Meeting

Mission

- Ø The Board's mission is to provide informed advice and recommendations concerning site-specific issues related to the DOE EM program.
- Ø To provide unbiased evaluation and recommendations on DOE's 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.



The Recommendation Process

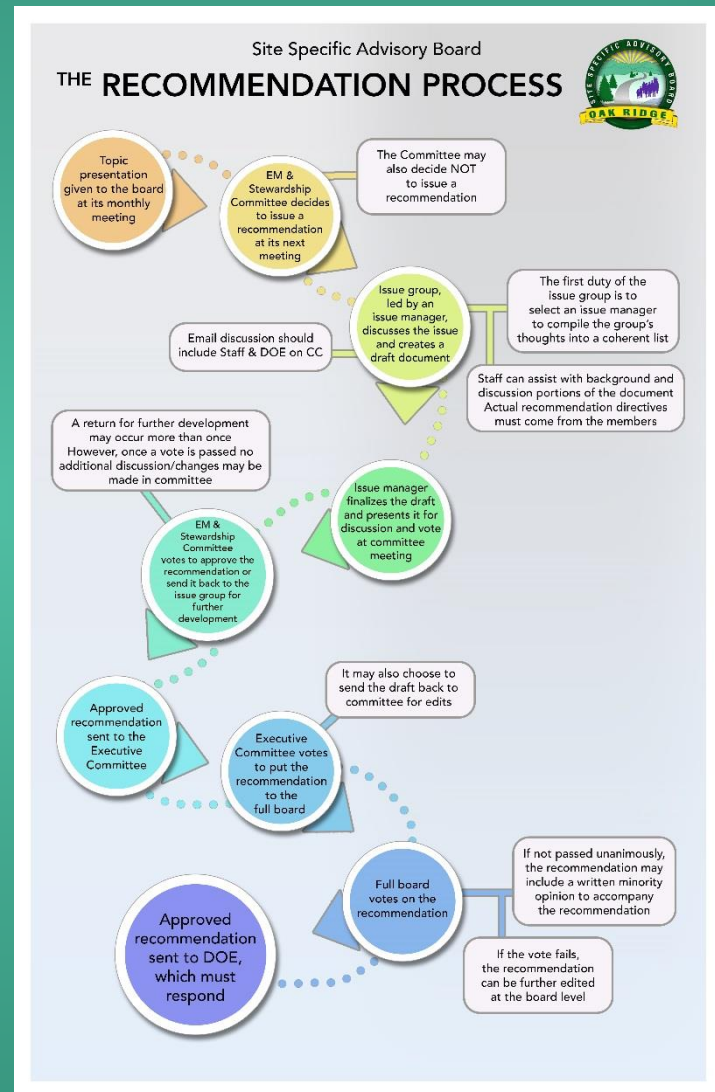
- Ø Topic presentation given at the monthly board meeting.
- Ø Additional discussion at EM/Stewardship Committee including a decision on making a recommendation.
- Ø Issue Group elects an Issue Manager and compiles ideas for the recommendation.
- Ø Manager finalizes the draft recommendation (with staff assistance) and presents to EM/Stewardship Committee for vote.
- Ø If approved, recommendation sent for Executive Committee vote.
- Ø If approved, recommendation sent for full board vote.
- Ø If approved, recommendation sent to DOE, which must respond.



The Recommendation Process

Additional resources:

- Recommendation Process Flow Chart
- More detailed documents included in the folder
- Staff and DDFO can provide additional clarification or answers to any questions



FY 2019 Accomplishments

- Ø Submitted three recommendations to DOE:
 - Ø Recommendations on the Proposed Environmental Management Disposal Facility
 - Ø Recommendations on the FY 2020 Oak Ridge EM Budget Priorities
 - Ø Recommendations on the FY 2021 Oak Ridge EM Budget Priorities (Pending approval)



FY 2019 Accomplishments

- Ø Co-drafted two EM SSAB Chairs recommendations:
 - Ø Recommendation on EM's Review of Milestones
 - Ø Recommendation on Improving EM's Science and Technology Program
- Ø Approved an EM SSAB Chairs recommendation on Site-Specific Advisory Board Involvement in Enhancing Stakeholder/Public Engagement
- Ø Attended public meetings regarding DOE's proposed Environmental Management Disposal Facility (EMDF)



FY 2019 Accomplishments

- Completed a number of public outreach goals:
 - Presented information about ORSSAB to the Kingston Rotary Club
 - Issued **8** news releases, **4** *Advocate* newsletters, and the FY 2018 annual report
 - Continued success in Facebook advertising, which resulted in record traffic to our website and contributed to recruitment; published numerous ads and online posts about ORSSAB meetings and new member recruitment
 - Expanded advertising to additional local outlets
 - Redesigned video production for the monthly meetings



FY 2019 Accomplishments

- Attended 6 national meetings and conferences:
 - Ø 2018 RadWaste Summit, September 4-6, Henderson, NV
 - Ø 2018 Fall SSAB Chairs Meeting, September 11, Alexandria, VA
 - Ø 2018 National Cleanup Workshop, September 12-13, Alexandria, VA



FY 2019 Accomplishments

- Ø 2019 Waste Management Symposium, March 3-7, Phoenix, AZ
 - Ø Submitted paper on "Best Practices in Project Communications Involving Stakeholders"
- Ø National Environmental Justice Conference, March 13-15, Washington, D.C.
- Ø 2019 Spring Chairs Meeting, May 8-9, Augusta, GA



FY 2019 Accomplishments

- 2 Members participated in 5 site tours:
- Ø **November:** OREM's Environmental Waste Management Facility (EMWMF)
 - Ø **February:** OREM sites with groundwater work underway
 - Ø **March:** Oak Ridge National Laboratory's (ORNL) Aquatic Research Laboratory
 - Ø **April :** Excess Contaminated Facilities at ORNL
 - Ø **July:** New Member Orientation Tour of OREM Sites



Results of the 2019 Member Survey



FY 2019 Annual Planning Meeting

2019 Member Survey

Board Members Ready to Engage in Field Trips

- Member responses indicated a slight preference for afternoon, although most were flexible.

Board Members Ready to Engage on the Issues

- Most respondents interested or willing to serve as issue managers.
- Members suggested that additional information about the issue groups and those group's activities – both in general and specific past work products – would encourage issue group involvement.
- Others indicated that group members equally participating and sharing workloads, plus an organized group leader, would encourage involvement. Additionally, another member said personal interest in topics, presentations, and tours encourages involvement in issue groups.



2019 Member Survey

Board Members Ready to Be Social

- Majority would like to attend a board social event in December
- Aubrey's in Oak Ridge was an acceptable location for most members, but several members suggested Calhoun's in Oak Ridge as a possible alternative.

Board Members Ready for Additional Meeting Structure

- Several members suggested additional meeting structure or intervention by DOE/board leadership to prevent discussion from shifting off-topic.
- Another suggestion was an increased focus on potential recommendations



For more details about the survey, see the insert in your meeting binder.

FY 2019 Annual Planning Meeting

The Recommendation Process & You

1. **Topic presentation given to the board at its monthly meeting as assigned from the work plan.**
 - a. The board meeting is where you will receive the most comprehensive overview of the topic from an expert on the issue. The expert outlines the challenges they are trying to solve, the remediation actions being taken currently and how those are progressing, and any future plans, etc. The most recent recommendation will be provided, if applicable, to help orient you to previous discussion on the topic. Ask questions!
 - b. For some topics, a tour may also provide an opportunity to become more educated on the issue and ask additional questions. It's a great idea to take your notes with you on the tour to review and ask additional questions as you think of them. Bring new insights to the upcoming committee discussion.
2. **The EM & Stewardship Committee meets for follow on discussion.**
 - a. The committee will decide whether or not to make a recommendation and begin crafting it
 - b. This is a working meeting. A subject matter expert will be on hand for detailed questions as members discuss potential recommendation items. Issue group members should gather ideas from the committee's discussion.
3. **The Issue group, led by an issue manager, further discusses the issue and compiles ideas into a draft document.**
 - a. The first duty of the issue group is to select an issue manager to facilitate the discussion and compile the group's thoughts into a coherent list.
 - b. Communication by the issue group can be in person or via email; staff can assist with meeting space on site, or members may go elsewhere.
 - c. Staff can assist with background and discussion portions of the document. Actual recommendation directives must come from the members.
4. **The Issue manager finalizes the draft and presents it for discussion and vote at a future EM & Stewardship Committee meeting**
 - a. Complex issues may take more than one meeting to resolve, but timeliness is also important.

The Recommendation Process & You

5. **The EM & Stewardship Committee votes on the recommendation.**
 - a. It may approve the recommendation or send it back to the issue group for further development
 - b. Returns for edits may happen more than once, but once a vote is passed there may be no further discussion or changes.
6. **The approved recommendation sent to the Executive Committee.**
 - a. The Executive Committee may make minor edits.
 - b. It will voted to put the recommendation to the full board or it may choose to send the draft back to committee for additional work
7. **The board discusses the recommendation.**
 - a. If not passed unanimously, the recommendation may include a written minority opinion to accompany the recommendation.
 - b. The board may make additional edits or return the recommendation to the committee level.
8. **The approved recommendation is sent to DOE, which must respond to the recommendation in writing.**

The Recommendation Process & You

Desired Qualities in Site Specific Advisory Board Recommendations

Recommendations should be focused exclusively on the EM mission, and primarily on the EM mission in Oak Ridge. If questions exist on the appropriateness of a given subject, please consult with DOE staff.

Ideally recommendations will focus on goals and outcomes, rather than the details of how to reach an outcome. For example, it is helpful to hear from the Board on whether or not they support onsite disposal of any cleanup waste, and thoughts on alternative sites, but less helpful to provide recommendations on the technical details of how to construct a facility. Put differently, try to stay focused on the “big picture” and avoid moving into project management and engineering.

DOE is particularly interested in the Board’s views on the Oak Ridge area’s perspective on EM activities. Remember that this is intentionally established as a citizen’s advisory panel and not a panel of technical experts (though we do have members with strong expertise in relevant areas).

New ideas and cordial critiques are welcome. Don’t hold back, just keep those focus on positive contribution.

EXAMPLE Recommendation Template

Title: Oak Ridge Site Specific Advisory Board Recommendation ### On The Example Topic

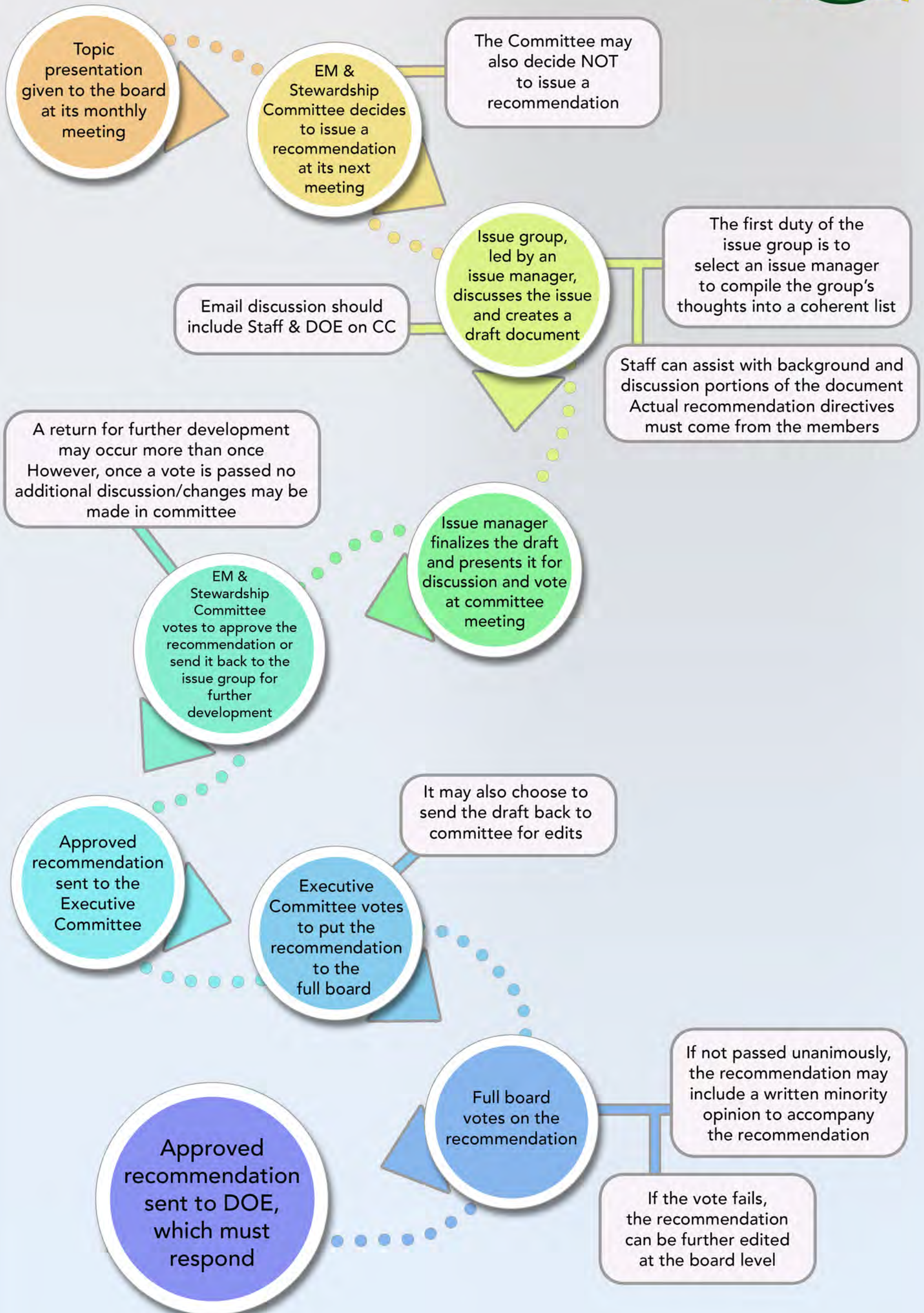
Background: *Staff will assist and members may edit.* A few paragraphs giving an overview of the issue and some history, including perhaps previous actions by DOE and partner agencies. Graphics or diagrams that help illustrate the issue.

Discussion: *Staff will assist and members may edit.* Brief overview of the history of actions/recommendations by the board on the issue, including the most recent meeting(s).

Recommendation(s): Brief summary of the board’s broad feelings on the topic and direction requested to be taken by DOE. Includes a list of particular items or subjects to be addressed and/or actions ranked by importance.



THE RECOMMENDATION PROCESS



Results of the 2019 ORSSAB Member Survey

Total # Respondents: 11 members

1. Field trips generally last a couple of hours.

- **Most tours are held M-F during business hours; would you prefer morning or afternoon tours?**

1. Member responses indicated a slight preference for afternoon, although most were flexible (1 – Morning, 3 – Afternoon, 5 – No preference indicated, No Reply – 2)

2. Participation in issues is expected, but voluntary.

- **What would encourage you the most to become involved in one or two issue groups?**

1. More than one respondent suggested that additional information about the issue groups and those group's activities – both in general and specific past work products – would encourage issue group involvement. Other respondents indicated that group members equally participating and sharing workloads, plus an organized group leader, would encourage involvement. Additionally, another member said personal interest in topics, presentations, and tours encourages involvement in issue groups.

- **Are you interested in being an Issue Manager and leading development of a recommendation?**

1. Most question respondents would be interested, or at least willing, to serve as an issue manager (Yes – 4, If needed – 1, No – 4, No Reply – 2)

- **Do you have any suggestions on how to encourage board members to become actively engaged in issues/recommendation development?**

1. Continuing support of members, encouragement from other members are sometimes very welcoming.

2. Finding innovative ways to educate new board members beyond just talks.

3. Take advantage of all the resources provided by ORSSAB.

4. Sometimes people are reluctant to volunteer for a position in the general meeting. If they are called at home/work, they might be more inclined to accept a role in one of the issue groups.

3. In December, board members and guests may gather at a local restaurant for a social event.

- **Would you participate in a similar social event this year?**

1. Most respondents would participate in a similar social event in December (Yes – 8, No – 1, No Reply – 2)

- **What locations would you suggest?**

1. Most respondents indicated Aubrey's was an acceptable location, with 1 respondent suggesting checking for meeting room availability due to noise. Multiple respondents also suggested Calhoun's in Oak Ridge as an alternative, and 1 responded also suggested the Doubletree.

4. Do you have any other input for the board? Examples:

• **What do you like / want more of at meetings?**

- DOE subject presentations are excellent
- I enjoy the meetings and I think you're doing a great job getting people involved in the projects to come and talk to us.
- I like the support given by staff, and I am slowly learning how to prepare for meeting.
- Love the history and the foresight to leave the legacy of environmental cleanup for future generations.
- Prefer meetings to be efficient, sticking to agenda

• **What do you not like / want less of at meetings?**

- Agenda should be tightened to focus more on potential recommendations
- Would like to see name tags used for the staff who currently sit along one wall, and are called on to participate. In those situations, I do not know who is addressing the board.
- Prefer meetings to be efficient, sticking to agenda
- Unorganized structures of meeting sometimes allow topics to get off course.

• **What is something we could change or add to our programs**

- Agenda should be tightened to focus more on potential recommendations
- Although it's a hard issue to address wanting to consider all comments from individuals, a structured parliamentary procedure from the meeting's chair could possibly keep things on course.
- More encouragement to engage in the community we represent by doing presentations on the board's activities and engagement in the EM effort. If the board staff actively solicited potential events to speak at vs. having board members do that solicitation, I think we'd see more opportunity for those presentations to be given.
- Update on the progress of Y-12 Biology Complex D&D

5. Is there anything else you thought we would ask, but did not, or that you wish to share?

- Each monthly meeting should include a high level summary of current status of each significant project



Many Voices Working for the Community

Oak Ridge Site Specific Advisory Board

Monthly Meeting of the Oak Ridge Site Specific Advisory Board

Unapproved June 12, 2019, Meeting Minutes

The Oak Ridge Site Specific Advisory Board (ORSSAB) held its monthly meeting on Wednesday, June 12, 2019 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 presentation portion of the meeting was made and is available on the board's YouTube site at www.youtube.com/user/ORSSAB/videos.

Members Present

Leon Baker
Richard Burroughs,
Secretary
Bill Clark
Sarah Eastburn (call-in)
Leon Shields

Eddie Holden
Nannan Jiang
Shell Lohmann, Vice Chair
Harriett McCurdy
Belinda Price, Vice Chair

John Tapp
Ed Trujillo
Rudy Weigel
Dennis Wilson, Chair

Members Absent

Marite Perez
Brooke Pitchers¹
Bonnie Shoemaker
Fred Swindler

¹Third consecutive absence

Liaisons, Deputy Designated Federal Officer, and Alternates Present

Jay Mullis, Department of Energy, Oak Ridge Office of Environmental Management (DOE-OREM) Manager
Laura Wilkerson, OREM Deputy Manager
Alan Stokes, Director, OREM Planning & Execution
Dave Adler, ORSSAB Deputy Federal Designated Officer, DOE-OREM
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) (call-in)

Others Present

Brian Henry
Ben Williams
Shelley Kimel, ORSSAB Support Office
Sara McManamy-Johnson, ORSSAB Support Office

11 members of the public were present.

Mr. Mullis recognized exiting board members Belinda Price and Eddie Holden and presented each with a plaque in thanks for their service to the board. He also recognized exiting board members David Branch and Martha Deaderick, both absent.

Liaison Comments

Mr. Mullis – Mr. Mullis said OREM is making very good progress at East Tennessee Technology Park. He also recommended members of DOE’s recent video series about the research being done at ORNL for OREM’s mercury cleanup work. He told members the videos are available on OREM’s website, its Facebook page, and its YouTube channel.

Mr. Czartoryski – Mr. Czartoryski said that from the State of Tennessee’s perspective, he wanted to stress the importance of steady budgets.

Ms. Jones – Ms. Jones said she agreed with Mr. Czartoryski’s comment regarding the importance of steady budgets.

Presentation

Ms. Lohmann introduced board members to Mr. Stokes, who joined Mr. Mullis as presenter for the evening’s topic, OREM’s FY21 Budget and Priorities.

Mr. Stokes gave members an overview of the federal budget process to provide context for the discussion (see Attachment 1).

He said the Executive Branch is responsible for requesting how much money they want to spend and what they’re going to spend it on to Congress. Congress, though, has the final say. They’re the ones who actually decide how much money will be spent and what it will be spent on. Then it goes back to the Executive Branch to execute what Congress has enacted.

He said the actual budget process is really a series of steps of consolidation and prioritization at progressively higher levels.

Mr. Stokes told members it takes two years to go through the full process to final approval, so OREM is now developing the fiscal year (FY) 2021 budget. He said the FY 2020 President’s Request budget is currently in Congressional subcommittees.

He said Oak Ridge’s budget development is just an extension of OREM’s planning process. The first step of that process is identifying what work needs to be done to complete the cleanup of the reservation. He said OREM is constantly looking all the way to what work needs to be done to complete the EM mission at Oak Ridge.

After defining the scope, planners develop a cost estimate for labor and material resources. Next, they develop a timeline, including how long it will take and in what order it should be done. They then do an analysis of what can change or go wrong, and make sure that is factored in.

Mr. Stokes said OREM has 147 subprojects – those can include demolition of a complex of buildings, remediation of soil in a specific area at a site, operating a waste treatment facility, or doing surveillance and

maintenance on our excess facilities, for example. These subprojects are broken down into more than 20,000 scheduled activities that are funded from 13 Congressional accounts.

Next, Mr. Stokes provided specific OREM budget details. He said the FY 2019 budget, at about \$650 million was a good budget for Oak Ridge.

OREM's budget consists of three appropriations: UED&D Fund, which is a special trust fund that was created by Congress to clean up the three gaseous diffusion plants – ETTP, Paducah and Portsmouth; Defense; and Non-Defense.

He explained that the UED&D Fund was created with money paid by the utility companies that benefited from operations of the gaseous diffusion plants. ETTP cleanup is funded through this account.

The Non-Defense appropriation is used to honor OREM's commitments in the Memorandum of Agreement (MOA) for the historical significance of K-25, said Stokes.

The Defense appropriation, OREM's largest appropriation, funds waste operations, surveillance and maintenance (S&M) on excess facilities, and disposition of the remaining U-233 material stored at ORNL.

In FY 2019, OREM received a significant amount of funding to begin constructing the new Mercury Treatment Facility (MTF) at ORNL. Also in FY 2019, Congress appropriated money to begin cleanup in the central campus at ORNL.

Mr. Stokes said OREM has seen a steady increase in funding, and it has been consistently in the \$650 million range the last two years. He said UED&D appropriations have been consistently at a level to maintain the trained and skilled workforce to complete the cleanup at ETTP, and the funding for historic preservation commitments at K-25 have also been consistent.

For the last two years, the Defense Fund has seen increases. Mr. Stokes said this is noteworthy because if this fund is increased and sustained, OREM can transition the workers at ETTP who are currently funded from UED&D to the Defense Fund for cleanup at ORNL and Y-12. Once ETTP is done, the money from the UED&D Fund will go to Paducah and Portsmouth instead of Oak Ridge.

Mr. Stokes said the President's Request Budget for FY 2020 shows a decrease, however, the House markup and the expected Senate markup indicate OREM can expect funding in the \$600 million range.

Mr. Mullis then presented OREM's near-term goals.

He referred members to the OREM Program Plan – updated in 2017 and available to view on OREM's website – which shows OREM's four cleanup goals. He said there are four programmatic goals as well, but they're not specific for cleanup. He said this ensures everyone in the organization or the stakeholders are familiar with OREM's goals to advance the cleanup mission in Oak Ridge.

Mr. Mullis said OREM is on track to achieve its Vision 2020 goal to have the majority of the cleanup completed there. He said all the buildings will be on the ground and most of the soil work will be done though there may still be some soil work needed. All the groundwater remediation will take slightly longer, but the hope is for groundwater decisions to be made by 2020. He listed examples of some of the work already completed at ETTP, including K-1037 and K-29. He said one Poplar Creek facility remains, and when it is gone, all the gaseous diffusion facilities at the site will have been dealt with and disposed of. Currently, OREM is working on the centrifuge facilities now and is preparing centrifuges to ship out west – some of them have already gone.

Next Mr. Mullis showed a map of progress at the site, and said that ideally the little bit left out there,

including the K-25 History Center, will be transferred to the Office of Legacy Management (LM) by 2024 and EM will be completely focused on ORNL and Y-12.

Mr. Mullis next discussed OREM's U-233 Disposition activities. He said OREM direct-shipped about half the U-233 inventory a couple years ago, which was completed ahead of schedule and under budget. He said OREM has been working on the design and the buildout in the 2026 facility, which is the hot cell facility. To help accelerate the project, OREM worked with a contractor that will work some of the lower activity material in a glovebox so OREM can more quickly disposition the remaining material. He said OREM is scheduled for the readiness assessment (RA) for that in August, so hopefully by the end of the year, OREM will be doing some processing there while they're also doing the buildout of the hot cell.

Moving on to shipping at the Transuranic Waste Processing Center (TWPC), Mr. Mullis said both remote-handled (RH) and contact-handled (CH) wastes are more than 95 percent processed, with about three-fourths of total CH already shipped. No RH waste has shipped; OREM is storing that material currently. He said headquarters is considering how to coordinate all the shipping campaigns throughout the nation for the RH when the Waste Isolation Pilot Plant (WIPP) begins accepting it, which they're not ready for yet. OREM developed storage containers to allow the material to be temporarily stored in overpacks at a UCOR-operated facility. Mr. Mullis said OREM has also offered those overpacks to WIPP.

Mr. Mullis said OREM has infrastructure work planned in preparation for its upcoming focus on D&D at ORNL and Y-12. For example, there are plans to extend the haul road to ORNL, similar to what was done at ETTP. At Y-12, part of it is building the Mercury Treatment Facility (MTF) near Outfall 200 to collect the waters from there. He said early site preparation was completed several months ahead of schedule and several million dollars under cost, and construction was about to begin. He said the construction project may be fully funded, given the funding received in FY 2019 and House and Senate marks.

Mr. Mullis added that there are more excess, high-risk facilities in Oak Ridge than at any other site, but the funding received between FY 2016 and FY 2019 has allowed OREM to move ahead of that much quicker than our original anticipated.

Mr. Mullis next showed images of some of EM's excess facilities at Y-12, including the Alpha 4 Column Exchange (COLEX) at Y-12. He said OREM has collected and is storing about 5 tons of liquid mercury between this facility and the equipment on the other side. Regulatory issues have prevented OREM from shipping the material, and officials are currently seeking ways to remove it from Oak Ridge.

Mr. Mullis said that while the goal for cleanup at ETTP is to ultimately transition the site to the community for redevelopment, the goal for cleanup at Y-12 and ORNL is to enable future missions. For example, he said that as soon as the Biology Complex at Y-12 is gone, construction should begin on a new lithium processing facility at the site. Similarly at ORNL, an area OREM cleaned up a few years ago is now slated to be the location of ORNL's new Translational Research Facility. Additionally, he said OREM will be doing D&D at Building 3026 while new construction is underway. Future plans, he said include D&D of reactors at ORNL so those sites can be reused by the Office of Science.

Mr. Mullis said that OREM will need additional landfill capacity and is working with regulators on that. He said OREM is on track to submit the ROD for the proposed facility to regulators in the August timeframe.

After the presentation, board members asked the following questions:

- Mr. Weigel asked how appropriations subcommittees in the House and the Senate know the specifics of what is involved with the cleanup at the individual sites.
 - Mr. Stokes said subcommittee staff are very familiar with all the sites. Mr. Mullis added that if a subcommittee member felt additional information was still needed, staff sometimes follows up with site managers with specific questions.
- Ms. McCurdy asked why mercury OREM recovers cannot go into the commercial market.
 - Mr. Mullis said the reason is regulatory. According to Resource Conservation and Recovery Act (RCRA) regulations, elemental mercury must be recycled – put back into commerce. Recent amendments to Toxic Substances Control Act (TOSCA) regulations, however, prohibit federal agencies from putting elemental mercury back into commerce. He said OREM submitted a recommendation to headquarters for DOE General Counsel to work with the EPA to find a solution.
- Mr. Trujillo asked how much mercury has been collected and stored.
 - Mr. Mullis said about 5 tons has been collected out of this project.
- Mr. Trujillo next asked whether FFA milestones are included in the budget requests.
 - Mr. Stokes said OREM budget requests sent to headquarters identify what budgets OREM needs to be in compliance and to meet all the FFA milestones.
- Mr. Trujillo asked whether the disposition and handling of transuranic (TRU) waste differs from contaminated waste since TRU waste is classified based on how it originated versus radioactivity.
 - Mr. Mullis said the material is characterized, and the material found to be low-level waste will be so that material will be shipped and disposed of separately. What remains as TRU waste is packaged for shipment to WIPP.
- Mr. Trujillo asked how long the cleanup for Y-12 and ORNL are expected to take.
 - Mr. Mullis said OREM's baseline goes out to 2047.
- Mr. Trujillo asked how DOE accesses privately owned technologies.
 - Mr. Mullis said that's typically done through contracting where the prime contractor subcontracts with the company to bring in the technology. During a procurement, however, companies are often concerned about sharing proprietary technologies with a competitor, so OREM is considering options to demonstrate new technologies while protecting trade secrets. He said OREM is considering converting an existing facility to a testing facility where companies can demonstrate their technology on the soils and building debris unique to Oak Ridge.
- Mr. Wilson asked whether recent DOE efforts shift contracting toward end-state contracting will continue moving forward.
 - Mr. Mullis said comments from DOE leadership indicate there will still be a focus on end-state contracting. He added that although there have been varying interpretations of "end-state contracting," it's really about making sure everything is truly done at the end. He said OREM has been doing that since UCOR came in because all OREM's performance-based incentives (PBI) are focused on getting to an end-state. He said UCOR must have a certificate of destruction or disposal to receive the maximum PBI payment.
- Mr. Wilson asked whether ORSSAB will see a version of the new 10-year plan.
 - Mr. Mullis said he's not certain what the ultimate disposition of that – now called an

Alternatives Analysis – will be under the new DOE leadership. He added that OREM’s accelerated plan looks very similar to its current plan; it’s mostly funding driven because 80-85 percent of OREM’s cost is labor instead of materials.

- Mr. Clark asked if the ORNL and Y-12 buildings highlighted during the presentation will be demolished.
 - Mr. Mullis said the map, created two years ago, shows 10 years out, so it includes buildings that are either currently excess or will be. He said the majority will be slated to come down, and some may end up being reused because missions are changing.
- Mr. Clark next asked if buildings will be constructed to replace the buildings being torn down.
 - Mr. Mullis said ORNL will make that final determination, but in OREM’s discussion with them so far, they would like to remove the majority of the facilities in Isotope Row, called the spine of the lab, and they will come back in behind and build. He said that at Y-12, their plan is to build a new lithium processing facility on the site of the Biology Complex after it is removed.

Public Comment

- Amy Fitzgerald asked whether the UED&D Fund would pay for the costs associated with the long-term institutional controls and the monitoring that will be required at ETTP, or if those costs would transfer to the Office of Legacy Management (LM).
 - Mr. Mullis said LM does a 75-year budget, so OREM is talking with them now about when they take those types of institutional controls. For example, he said, if OREM has to install a pump-and-treat or some type of system like that, OREM would install it and run it for a year, then LM would take it over, but it wouldn’t come out of UED&D.
- Next, Ms. Fitzgerald asked what can be done to ensure Oak Ridge is toward the front of the line since Oak Ridge will have to complete with the other DOE sites in scheduling WIPP shipments.
 - Mr. Mullis said Oak Ridge’s use of remote-handled overpacks (ROPs) could help.
- Luther Gibson asked where post-retirement benefits stand in the current budget priority. Additionally, Mr. Gibson suggested OREM consider returning to the Community Budget Workshop format with a process for collecting comments over a period of time.
 - Mr. Stokes said post-retirement benefits is one of the first items factored into the budget.

Board Business/Motions

1. Mr. Wilson asked for a motion to approve the meeting agenda.
 - a. **6/12/19.1 Motion to approve the agenda**
Mr. Shields approved, Mr. Burroughs seconded. Motion passed unanimously.
2. Mr. Burroughs presented the previous month’s meeting minutes and asked for a motion to approve.
 - a. **6/12/19.2 Motion to approve previous meeting minutes**
Mr. Shields motioned, Mr. Wilson seconded. Motion passed unanimously.
3. Mr. Wilson asked for members to serve on a nominating committee for election of officers. Ms. Eastburn volunteered to serve.
4. Mr. Wilson briefly summarized two recommendations proposed during the EM SSAB Chairs’ Meeting. He said the recommendation on the review of cleanup milestones includes recommendations for consistent terminology and updates on slippages in timeline. Mr. Weigel expressed concerns that additional reporting on milestones and timeline slippages could create problems. Mr. Burroughs

recommended tabling the recommendations until the Annual Planning Meeting in August to allow for further discussion during the Environmental Management and Stewardship Committee Meeting.

a. 6/12/19.3 Motion to table approval of recommendations from the EM SSAB Chairs' Meeting until a later day

Mr. Weigel motioned, Mr. Trujillo seconded. Motion passed with Ms. Price and Mr. Tapp abstaining

Responses to Recommendations & Alternate DDFO Report

Ms. Noe said there are no outstanding recommendations. She said ORSSAB's New Member Packets were approved, so there will be five new members. She said all members are welcome to attend the New Member Orientation tour in July, and she reminded members of the Annual Planning Meeting scheduled for August 24 at Tremont Lodge & Resort in Townsend.

Committee Reports

Executive – Mr. Wilson said members discussed plans for the June monthly meeting and the Annual Planning Meeting, as well as the new members.

EM & Stewardship – Mr. Shields said Mr. McMillan reviewed the tour of ORNL excess facilities in April, and members extensively discussed excess facilities, extending the life of facilities and reducing costs for surveillance and maintenance.

Additions to the Agenda & Open Discussion

None

Action Items

Open

None

Closed

None

The meeting adjourned at 7:50 p.m.

I certify that these minutes are an accurate account of the June 12, 2019, meeting of the Oak Ridge Site Specific Advisory Board.

Richard Burroughs, Secretary

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

DATE

ENVIRONMENTAL MANAGEMENT SITE-SPECIFIC ADVISORY BOARD

CHAIRS MEETING RECOMMENDATION

May 9, 2019 - Augusta, Georgia

Recommendation #1 – EM’s Review of Cleanup Milestones

Background:

On February 14, 2019, the U.S. Government Accountability Office (GAO) published “DOE Should Take Actions to Improve Oversight of Cleanup Milestones” (GAO-19-207). The report found that DOE did not accurately track or report whether milestones were met, missed, or postponed. It also found that sites continually renegotiate milestones they are at risk of missing.

GAO recommended the Office of Environmental Management (EM) should update its policies and procedures to establish a standard definition of milestones, track original milestone dates as well as changes to its cleanup milestones, report annually to Congress on the status of its cleanup milestones, and conduct root cause analyses of missed or postponed milestones.

One of the ways that the local boards that make up the Environmental Management Site-Specific Advisory Board (EM SSAB) become informed about cleanup actions at their sites is tracking cleanup milestones. Milestone achievement, delays and change information should be shared with the local boards on a regular basis.

Recommendations:

1. The EM SSAB Chairs recommend EM create a complex-wide, consistently applied data dictionary for milestones terminology. The inconsistency in not applying the same criteria in DOE tracking of milestones results in confusion for the local boards and the EM SSAB Chairs as they meet to discuss cleanup issues and contemplate recommendations.
2. Local boards and the public should be able to access site-specific milestone information in a timely manner. Milestone information should contain the

rationale for identifying the type based on the data dictionary of milestones and detailed information about why a milestone will be advanced/delayed/postponed.

Who We Are

The EM SSAB is the DOE-EM's most effective vehicle for fostering two-way communication between DOE-EM and the communities it serves. The EM program is the world's largest environmental cleanup program, and the EM SSAB its only citizen advisory board. For more than 20 years, the volunteer citizens of the EM SSAB have partnered with EM officials at both the local and national levels to ensure that the public has a meaningful voice in cleanup decisions.

Public participation is required/recommended as part of a number of environmental regulations. It is also good business practice, resulting in better decisions that often result in improved cleanup. Over the past two decades, EM SSAB members have volunteered over 48,000 hours of their time and submitted to EM officials over 1500 recommendations, 88% of which have been fully or partially implemented, resulting in improved cleanup decisions.

The EM SSAB comprises approximately 200 people from communities in Georgia, Idaho, Kentucky, Nevada, New Mexico, Ohio, Oregon, South Carolina, Tennessee and Washington. The Board is cumulatively representative of a stakeholder population totaling millions of people who are affected by generator sites, transportation routes and disposal sites. As we move forward, the EM SSAB welcomes the opportunity to highlight the value of this unique volunteer board and discuss its priorities during the months and years ahead.

ENVIRONMENTAL MANAGEMENT SITE-SPECIFIC ADVISORY BOARD

CHAIRS MEETING RECOMMENDATION

May 9, 2019 - Augusta, Georgia

Recommendation #2 – Improving EM’s Science and Technology Program

Background:

The Environmental Management Site-Specific Advisory Board (EM SSAB) Chairs wish to respond to the National Academies of Sciences’ (NAS) report, “Independent Assessment of Science and Technology for the Department of Energy's Defense Environmental Cleanup Program” (2019) which assesses the success of the EM Science and Technology (S&T) program; a program that defines needs for near-term and out-year cleanup of radioactive material. As Advisory Boards to DOE-EM, the EM SSAB Chairs collectively seek a continued EM focus on permanent reduction of risk to future human generations and the environment.

The EM SSAB Chairs agree to the need for a formal, open, transparent, quantifiable and integrated S&T program that is accessible, by everyone – scientists, regulators and the public. We also agree on the need for an aggressive, cohesive S&T program that can verify the success of selected remediation pathways by utilizing hard data in defense of chosen risk-informed cleanup decisions. We also see the need for a data-rich, user friendly and publicly accessible digital platform that is easily accessed and navigated by everyone.

Recommendations:

- 1. The EM SSAB Chairs support the development of a programmatically integrated, (under one identified EM government program) robust S&T effort that is fully funded in order to: a) identify and pursue development of the technologies necessary to successfully achieve risk based reduction of radiological and other hazardous waste material; b) to integrate decisions that are common between sites with similar remediation needs; c) to identify scientific challenges common to sites.**

Deferring cleanup to the future (by relying on the myth that there will be more money or other, cheaper remediation solutions) has never driven down cost of remediation, to date.

- 2. A portion of the technology development effort for the DOE-EM cleanup program should focus on breakthrough solutions and technologies that can substantially reduce cleanup costs, schedules and uncertainties as stated in the NAS report.**
- 3. The EM SSAB Chairs recommend exploring already developed, usable computer platforms to see if they are flexible enough to systematize verification of Best Practices decisions.**

At Hanford Nuclear Reservation, the PHOENIX Computer Platform has been in development both for the Richland side of the site (soil and groundwater remediation) and for the DOE Office of River Protection (in support of the safe configuration of the Tank Farms and building of the Waste Treatment Plant).

In development for eight years now, the Phoenix Platform is a data-rich base of maps, waste-site definition, characterization data and more. We wonder if a platform, such as this one, might not be adapted as a solution, programmatically, to address the need to define S&T needs and validate decisions.

It is clear that piecemeal, undocumented and scattered S&T efforts to date, have not served EM well, leaving the DOE-EM department potentially destined to not be able to identify common remediation needs from site to site, or worse, repeat testing of already pursued technologies that could not reach maturity.

- 4. The EM SSAB Chairs recommend EM explore the path of working with the Advanced Research Projects Agency-Energy (ARPA-E) office, coupled with public outreach and transparency to implement a directional shift towards better control.**

The culture and process of contracting must be changed. The reins of scientific need and technology development should reside in a government-identified and controlled structure of discipline that manages budgetary resources, delivery time expectations and mission scope. ARPA-E might be the solution to manage a breakthrough S&T development program for EM. ARPA-E focuses on technologies too early for private-sector investment. ARPA-E awardees are unique because they are developing entirely new ways to generate, store, and use energy.

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FY 2020 Budget Recommendation to be distributed

Oak Ridge Site Specific Advisory Board

Annual Meeting

Saturday August 24, 2019

Nominating Committee Report

Committee Members:

Sarah Eastburn

Marite Perez

Bonnie Shoemaker

The nominating committee members were elected at the June 12, 2019 ORSSAB scheduled meeting.

The nominating committee communicated by email and divided up the list of current board members as of June 2019 to be contacted.

With no other expressed interest in sitting on the Executive Committee for this upcoming year, the following list of candidates is submitted for consideration at the September ORSSAB meeting:

- **Chair:**
Michelle Lohmann – Michelle is currently vice chair and has been a member of the board since 2017.

- **Vice Chair:**
Leon Shields – Leon currently chairs the EM & Stewardship Committee and has been a member of the board since 2017.

- **Secretary:**
Fred Swindler – Fred served as chair of the EM & Stewardship Committee in 2018 and was its vice chair in 2017. He has been a member of the board since 2016.
Bonnie Shoemaker – Bonnie has been a member of the board since 2017.

As a reminder to all, the following are the rules for the election of Executive Committee officers:

- The Nominating Committee contacts members and presents a slate of candidates.
- Any member of the board can put themselves forward for an office at the meeting.
- Any member can nominate another board member during the meeting if they have that person's consent.
- Officers are elected at the meeting

- New officers attend the September Executive Committee Meeting with current officers. New officers formally assume office at the start of the fiscal year in October.

Respectfully Submitted,

Sarah Eastburn on behalf of the Nominating Committee

2019 Annual Meeting Evaluation

Your opinion about today's work is important and will assist us in improving future meetings.

1. Overall, the event was well organized.	Agree	--	Disagree	
	5	4	3	2 1
2. My expectations were met.	5	4	3	2 1
3. It was worth my time to attend.	5	4	3	2 1
4. Please rate the following:	Good	--		Poor
(a) Opportunity to interact with colleagues	5	4	3	2 1
(b) Facilities	5	4	3	2 1
(c) Materials	5	4	3	2 1

**If you scored the above poorly, how can we improve?

5. What new ideas are you taking away from today's meeting?

6. What is the top action you will take based on this meeting?

7. What, if any, changes in the meeting would significantly improve the experience?

8. What, if any, other topics would you like to see covered in FY 2020 meetings?

9. What were the best aspects of today's meetings?
