

Oak Ridge Site Specific Advisory Board Monthly Meeting



Wednesday, February 20, 2019, 6 p.m.

DOE Information Center
1 Science.gov Way
Oak Ridge, Tennessee

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

CONTENTS

AGENDA

PRESENTATION MATERIALS

1. Speaker Bios
2. Presentation Printout (to be distributed prior to or at the meeting)

CALENDARS

1. February
2. March (*draft*)

REPORTS & MEMOS

1. EM Project Update and Abbreviations
2. Travel Opportunities for FY 2019
3. Incoming Correspondence

Bio for Dave Adler

David Adler serves as the director of the Quality and Mission Support Division for the Oak Ridge Office of Environmental Management.

In his more than 25 years at DOE, he has focused primarily on activities related to contaminated site cleanup, waste management and disposition, and most recently, on efforts to reindustrialize the former K-25 facility in Oak Ridge.

Adler holds a bachelor's degree in biology from Rutgers University and a master's degree in toxicology from the University of Michigan.

Dennis Mayton professional bio

Dennis is the Groundwater Program Project Manager for the Oak Ridge Environmental Management office. He has been with DOE for 3.5 years.

He previously spent more than 13 years managing groundwater projects for the Department of Defense as part of the U.S. Army Corps of Engineers. Part of his service was as the Environmental Restoration Manager at the Holston Army Ammunition Plant in Kingsport, Tennessee.

Dennis has a Bachelor of Science degree in Geology from the University of Tennessee, Knoxville. He also served in the U.S. Air Force for four years.



Oak Ridge Site Specific Advisory Board

February

2019

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1	2
3	4	5	6 Executive Committee meeting 6 pm	7	8	9
10	11	12	13	14	15	16
17	18 President's Day ORSSAB office closed	19	20 ORSSAB meeting on Groundwater 6 p.m.	21 Groundwater tour 1-3:30 p.m.	22	23
24	25	26	27 EM & Stewardship Committee meeting 6 p.m.	28		

Meetings are at the DOE Information Center, Office of Science and Technical Information, 1 Science.gov Way, Oak Ridge unless noted otherwise.

ORSSAB Support Office: (865) 241-4583 or 241-4584 **DOE Information Center:** (865) 241-4780
ORSSAB Conference Call Line: (866) 659-1011; enter the participant code when prompted: 3634371#

Board meetings on cable TV and YouTube	
Knoxville: Charter Channel 6, Comcast Channel 12	Thursdays at 9 p.m.
Lenoir City: Charter Cable Channel 193	Wednesdays, 4 p.m.
Oak Ridge: Channel 12	Fourth Mondays, 7 p.m.
Oak Ridge: Channel 15	Monday, Wednesday, Friday, 8 a.m. & noon
YouTube	http://www.youtube.com/user/ORSSAB



Oak Ridge Site Specific Advisory Board

March

2019

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1	2
3	4	5	6 Executive Committee meeting 6 pm	7	8	9
10	11	12	13 ORSSAB Board meeting 6 p.m.	14	15	16
17	18	19	20	21	22	23
24	25	26	27 EM & Stewardship Committee meeting 6 p.m.	28	29	30
31						
33						

Meetings are at the DOE Information Center, Office of Science and Technical Information, 1 Science.gov Way, Oak Ridge unless noted otherwise.

ORSSAB Support Office: (865) 241-4583 or 241-4584 **DOE Information Center:** (865) 241-4780
ORSSAB Conference Call Line: (866) 659-1011; enter the participant code when prompted: 3634371#

Board meetings on cable TV and YouTube	
Knoxville: Charter Channel 6, Comcast Channel 12	Thursdays at 9 p.m.
Lenoir City: Charter Cable Channel 193	Wednesdays, 4 p.m.
Oak Ridge: Channel 12	Fourth Mondays, 7 p.m.
Oak Ridge: Channel 15	Monday, Wednesday, Friday, 8 a.m. & noon
YouTube	http://www.youtube.com/user/ORSSAB

Presentation to be
distributed at or prior
to meeting



Oak Ridge Site Specific Advisory Board
Wednesday, February 20, 6:00 p.m.
DOE Information Center
1 Science.Gov Way, Oak Ridge, TN 37831
AGENDA

- I. Welcome and Announcements (D. Wilson) 6:00–6:10
 - A. Next Meeting: Wednesday, March 13, 2019
Presentation: Aquatic Ecology Research and Technology Development
in East Fork Poplar Creek (E. Phillips, M. Peterson)
Issue Group: Branch, Eastburn, Price, Shoemaker, Swindler, Tapp

- II. Comments from the Federal and State Agency Representatives
(J. Mullis, C. Jones, K. Czartoryski) 6:10–6:15
 - A. Introduction of Mr. Nannan Jiang, new member.

- III. Presentation: Evaluation of Ongoing Groundwater Efforts (D. Adler/D. Mayton) 6:15–6:35
 - Issue Group:** Burroughs, Clark, Deaderick, Eastburn, Fleenor, Lohmann,
Narula, Pitchers, Price, Shields, Shoemaker, Swindler, Tapp, Wilson
 - Question and Answer Period 6:35–6:45

- IV. Public Comment Period (O. Fleenor/J. Narula) 6:45–6:55

- V. Call for Additions/Approval of Agenda (D. Wilson)..... 6:55
 - A. Action Items Review
 - i. DOE will provide information on the CERCLA process. *Closed, information distributed
by email 11/19/18.*
 - B. Requests for New Action Items

- VI. Motions – **Scheduled board business delayed to March due to Federal guidelines** 7:00–7:15
 - A. ~~November 14, 2018, Meeting Minutes (R. Burroughs)~~

- VII. Responses to Recommendations & Alternate DDFO’s Report (M. Noe)..... 7:15–7:20
 - A. Membership package/site appointments in process

- VIII. Committee Reports 7:20–7:25
 - A. Executive (D. Wilson)
 - i. Annual Meeting – Saturday, August 24
Tremont Lodge, Townsend, Tenn.
 - ii. Board Bylaws update
 - B. EM/Stewardship (L. Shields)

- IX. Additions to Agenda & Open Discussion 7:25–7:30
 - A. Consideration of recommendation topics for EM SSAB Spring Chairs Meeting in May

- X. Adjourn 7:30

Abbreviations/Acronyms List for Environmental Management Project Update

AM – action memorandum

ARARs – Applicable or Relevant and Appropriate Requirements

ARRA – American Recovery and Reinvestment Act

BCV – Bear Creek Valley

BG – burial grounds

BV- Bethel Valley

CARAR – Capacity Assurance Remedial Action Report

CART - carbon steel casing dollies

CBFO – Carlsbad Field Office

CERCLA – Comprehensive Environmental Response, Compensation
and Liability Act

CEUSP – Consolidated Edison Uranium Solidification Project

CD – critical decision

CH – contact handled

CNS – Consolidated Nuclear Security, LLC

CNF – Central Neutralization Facility

COLEX – column exchange

CS – construction start

CY – calendar year

D&D – decontamination and decommissioning

DARA – Disposal Area Remedial Action

DNAPL – Dense Non-Aqueous Phase Liquids

DOE – Department of Energy

DSA – documented safety analysis

DQO – data quality objective

EE/CA – engineering evaluation/cost analysis

EM – environmental management

EMDF – Environmental Management Disposal Facility

EMWMF – Environmental Management Waste Management Facility

EPA – Environmental Protection Agency

ETTP – East Tennessee Technology Park

EU – exposure unit

EV – earned value

FCAP - Facilities Capability Assurance Program

FFA – Federal Facility Agreement

FFS – Focused Feasibility Study

FPD – federal project director

FY – fiscal year

GIS – geographical information system

GW – groundwater

GWTS – groundwater treatability study

HQ – Headquarters

HRE – Homogenous Reactor Experiment

IROD – Interim Record of Decision

ISD - In-Situ Decommissioning

LEFPC – Lower East Fork Poplar Creek

LLW – low-level waste

MLLW – mixed low-level waste

MSRE – Molten Salt Reactor Experiment

MTF – Mercury Treatment Facility

MV – Melton Valley

NaF – sodium fluoride

NDA – non-destructive assay

NEPA – National Environmental Policy Act

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

NPDES – National Pollutant Discharge Elimination System

NPL – National Priorities List

OR – Oak Ridge

ORGDP – Oak Ridge Gaseous Diffusion Plant

OREIS – Oak Ridge Environmental Information System

OREM – Oak Ridge Office of Environmental Management

ORNL – Oak Ridge National Laboratory

ORO – Oak Ridge Office

ORR – Oak Ridge Reservation

ORRR – Oak Ridge Research Reactor

ORRS – operational readiness reviews

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

PCB - polychlorinated biphenyls

PCCR – Phased Construction Completion Report

PM – project manager

PP – Proposed Plan

PPE – Personal Protective Equipment

QAPP – Quality Assurance Project Plan

RA – remedial action

RAR – Remedial Action Report

RAWP – Remedial Action Work Plan

RCRA – Resource Conservation Recovery Act

RDR – Remedial Design Report

RDWP – Remedial Design Work Plan

RER – Remediation Effectiveness Report

RH – remote handled

RI/FS – Remedial Investigation/Feasibility Study

RIWP – Remedial Investigation Work Plan

RmAR – Removal Action Report

RmAWP – Removal Action Work Plan

ROD – Record of Decision

RSE – Remedial Site Evaluation

RUBB – trade name of a temporary, fabric covered enclosure

S&M – surveillance and maintenance

SAP – sampling analysis plan

SEC – Safety and Ecology Corp.

SEP – supplemental environmental project

STP – site treatment plan

SW – surface water

SWSA – solid waste storage area

Tc – technetium

TC – time critical

TDEC – Tennessee Department of Environment and Conservation

TRU – transuranic

TSCA – Toxic Substances Control Act

TWPC – Transuranic Waste Processing Center

U – uranium

UEFPC – Upper East Fork Poplar Creek

UPF – Uranium Processing Facility

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

VOC – volatile organic compound

VPP – Voluntary Protection Plan

WAC – waste acceptance criteria

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

WHP – Waste Handling Plan

WIPP – Waste Isolation Pilot Plant

WRRP – Water Resources Restoration Program

WWSY – White Wing Scrap Yard

Y-12 – Y-12 National Security Complex

ZPR – Zero Power Reactor

EM Project Update

ETTP	December	January
Zone 1 Interim Soils ROD	The Zone 1 Interim ROD Amendment to add the cover over the asbestos in the K-770 Area was submitted to the regulators.	
Zone 2	The Tc-99 Remedial Action is 50 percent complete. All borings are complete and will help identify extent of contamination spread and depth to groundwater.	The Tc-99 Remedial Action is 57 percent complete. The open excavation within Phase 1 has been backfilled following the Zone 2 ROD.
	Two of twelve slabs planned for removal are complete (K-633 & K-1232 slabs). Demolition and waste hauling of the second slab is complete.	The Sampling & Analysis Plan for EU 25 was submitted to the regulators for review.
	The K-29 Slab Removal is progressing with both concrete removal and waste hauling approximately 40 percent complete.	The K-29 Slab Removal is progressing with concrete removal approximately 62 percent complete and waste hauling approximately 64 percent complete.
Remaining Facilities	Crews continue to perform pre-cleaning and final wash-down inside of Building K-1037. Eleven building areas have been cleared through the sanitation process and cleared by security, and seven areas are sanitized but pending clearance by security.	Deactivation crews are transitioning from K-1037 to the Centrifuge Project as planning for demolition is being finalized. The K-1037 work was completed ahead of the baseline plan to support acceleration of facility deactivation.
	Work continues at the Centrifuge complex. K-1200 characterization is 20 percent complete.	Work continues at the Centrifuge complex. K-1200 characterization is 20 percent complete and asbestos containing material (ACM) is 24 percent complete.
	Centrifuge Building K-1210 characterization/sampling is 34 percent complete, asbestos containing material (ACM) abatement is complete, and hazardous/universal waste removal is 72 percent complete.	Centrifuge Building K-1210 hazardous/universal waste removal is 75 percent complete.
	Centrifuge Building K-1220 characterization/sampling is 59 percent complete, ACM abatement is 24 percent complete, and hazardous/universal waste removal is 89 percent complete.	Centrifuge Building K-1220 ACM abatement is 63 percent complete.
	All of the associated TSCA Incinerator buildings and slabs have been demolished and waste hauling is complete.	One of seven buildings has been completed in the Balance of Facilities group with the demolition of K-802.
	The PCCR for the Balance of Site FY 2018 Low Risk/Low Complexity & Predominantly Uncontaminated Facilities was submitted to the regulators for review and approval.	Four buildings were demolished (Portals 7,14,15 and K-1045). Demolition preparation is complete at Portal 3 and brick removal is 78 percent complete at K-1034-A.
	Poplar Creek D&D is 72 percent complete.	
ETTP Historic Preservation	Completed all interior demolition. Continued framing interior walls and partitions and installing electrical conduit and cable runs for lighting, Reconfigured sprinkler head piping and began installing drain piping.	Completed installation of drain piping. Continued framing interior walls and partitions, installing electrical service equipment, running conduit, pulling wire, hanging dry wall, and installing HVAC duct. Also completed detailing of exhibits. On-going exhibit work includes fabrication of exhibit structures, conservation of artifacts, preparation of exhibit and graphic mockups, and preparation of audiovisual productions.

EM Project Update

ORNL	December	January
Molten Salt Reactor Facility	DOE, UCOR, and the Savannah River National Laboratory held a joint workshop on In-Situ Decommissioning (ISD) for the State of Tennessee. The workshop focused on successful implementation of ISD technologies at the Savannah River site and the integration of those decisions with regulatory agencies.	A management assessment was conducted to prepare for the disposal of the last two remaining legacy sodium fluoride (NaF) traps at MSRE. This will reduce the hazardous material inventory, lowering the risk to worker safety and health.
	Authorization was granted to initiate the MSRE Layup Project. This project will include the electrical power isolation from the reactor building and the selective energizing of desired control systems.	The MSRE Layup Project is underway. The project objectives are to place the facility into a zero occupancy status, and then prepare the facility for elimination of most electrical power to the facility.
U-233 Disposition	The project hosted the Defense Nuclear Facilities Safety Board (DNFSB) for a tour of Building 2026 and discussion of DNFSB comments and the DOE response to comments on the Preliminary Documented Safety Analysis for Building 2026 Initial Processing Campaign.	
ORNL Facilities D&D	Work ongoing in the 3010 Bulk Shielding Reactor. Isolation of the sanitary sewer, electrical drop, and potable water have been completed.	The remaining electrical isolations are in progress as well as work supporting temporary power installation to support D&D activities.
	A kickoff meeting was held concerning the D&D of the Building 3026 hot cells and storage areas. This activity is the second project dedicated to reducing the environmental liability within highly contaminated excess facilities at ORNL.	
Y-12	December	January
Outfall 200 Mercury Treatment Facility (MTF)	Early site preparation work was completed in December except for disposition of one small waste stream.	The contractor's waste stream was shipped and received at the Nevada Nuclear Security Site. This completed all of the early site preparation scope.
		A DOE kickoff meeting was held with the construction contractor that discussed DOE's expectations for project execution. A site tour was also performed to review the status of the site since completion of early site preparation activities.
Y-12 Facilities D&D	Fieldwork at the West COLEX area is complete. Mobilization activities are underway for demonstration of mechanical mercury removal methods for piping, as part of east COLEX and inside Alpha 4 risk reduction activities.	Completed installation of a geomembrane to reduce infiltration of groundwater in the area where the West COLEX process equipment was removed. Monitoring was installed in the storm drain to check levels of mercury in the water over the next six months.
	All mechanical isolations to the Biology Complex buildings are complete and interferences are being removed at the locations where construction elevators will be installed.	

EM Project Update

Off-Site Cleanup/Waste Management	December	January
Transuranic Waste Processing Center	The Nuclear Waste Partnership Quality Assurance audit of the Central Characterization Project Operations in Oak Ridge was conducted. No findings were identified.	
EMDF	Public comment period for the Proposed Plan continued.	The public comment period for the Proposed Plan closed on January 9th after multiple extensions. There were 199 commenters that provided comments. Responses will be provided in the ROD's Responsiveness Summary.
		The Site Preparation Plan and the Borrow Area Field Sampling Plan (Phase 3) were submitted to the regulators for review.
WRRP	TDEC comments on the Phase 1 Melton Valley/Bethel Valley Exit Pathway Remedial Investigation Work Plan D1 were received and preparation of draft responses was initiated.	Responses to the TDEC comments on the Phase 1 Melton Valley/Bethel Valley Exit Pathway Remedial Investigation Work Plan D1 are being reviewed.
	The D2 version of the RSE Phase 2 Detection Monitoring Work Plan was submitted and approved by the regulators.	Agreements with property owners for well monitoring were obtained at 14 locations. An erratum to the RSE Phase 2 Detection Monitoring Work Plan was submitted to the regulators documenting 3 locations that changed from the original plan.
	Preparation of the D0 2019 Remediation Effectiveness Report is underway.	The D0 2019 Remediation Effectiveness Report is being reviewed.



FY 2019 Incoming Correspondence

#	Date	To	From	Description	Distribution
79	1/8/2019	Deacon, McMillan & Henry, DOE	Aswathi & Brahmbatt, TDEC	Site Treatment Plan for Mixed Waste on the DOE ORR Annual Update Revision 23.0 Disposal Area Remedial Action Soils & Debris	DOEIC, Notified board officers of receipt
80	1/15/2019	Jones, EPA; Young, TDEC	Henry & Japp, DOE	Transmittal of the Phase 3 Field Sampling Plan for the Proposed EMDF for CERCLA ORR Waste Disposal (DOE/OR/01- 2808&D1)	DOEIC, Notified board officers of receipt
81	1/14/2019	McMillan, DOE	Awasthi & Brahmbatt, TDEC	Site Treatment Plan for Mixed Waste on the DOE ORR Annual Update Revision 23.0 - Legacy Low-Level Radioactive Reactive Metals (Sodium & Lithium Shields)	DOEIC, Notified board officers of receipt
82	1/16/2019	Japp, DOE	Young, TDEC	Federal Facility Agreement Informal Dispute Discussions Regarding Path Forward for Beta 4 Ancillary Facilities	DOEIC, Notified board officers of receipt
83	1/16/2019	Henry, DOE	Awasthi & Brahmbatt, TDEC	Site Treatment Plan for Mixed Waste on the DOE ORR Annual Update Revision 23 Disposal Area Remedial Action Soils	DOEIC, Notified board officers of receipt



FY 2019 Incoming Correspondence

#	Date	To	From	Description	Distribution
84	1/17/2019	Japp, DOE	Young, TDEC	RE: Extension Request for Submission of the Addendum for the Implementation Process to the Remedial Design Report/Remedial Action Work Plan for Zone 2 Soils, Slabs, and Subsurface Structures, ETTP, (DOE/OR/01-2224&D5/A1/R1)	DOEIC, Notified board officers of receipt
85	1/17/2019	Japp, DOE	Young, TDEC	RE: Extension for Submission of the Phased Construction Completion Report for Exposure Unit Z2-28 in Zone 2, ETTP (DOE/OR/01-2746&D2)	DOEIC, Notified board officers of receipt
86	1/18/2019	Jones, EPA; Young, TDEC	Deacon & Japp, DOE	Transmittal of Exposure Unit Z2-25 Sampling & Analysis Plan, ETTP (DOE/OR/01-2813&D1)	DOEIC, Notified board officers of receipt
87	1/23/2019	Distribution	Mullis, DOE	Semiannual Status Report in Accordance with the Memorandum of Agreement for D&D of K-25 and Interpretation of ETTP	DOEIC, Notified board officers of receipt
88	1/30/2019	Japp, DOE	Young, TDEC	Extension for Submission of the PCCR for Exposure Unit Z2-29 in Zone 2 ETTP	DOEIC, Notified board officers of receipt



FY 2019 Incoming Correspondence

#	Date	To	From	Description	Distribution
89	1/30/2019	Jones, EPA; Young, TDEC	Deacon & Japp, DOE	Transmittal of the Supplemental Sampling and Analysis Plan for ETTP Main Plant	DOEIC, Notified board officers of receipt
90	2/5/2019	Jones, EPA; Young, TDEC	Henry & Japp, DOE	Federal Facility Agreement Milestone Extension Request for Environmental Management	DOEIC, Notified board officers of receipt