

Oak Ridge Site Specific Advisory Board Monthly Meeting



Wednesday, September 10, 2014

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.

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AGENDA

PRESENTATION MATERIALS – Oak Ridge Environmental Management Stewardship Program
– *to be distributed at meeting*

CALENDARS

1. September
2. October (*draft*)

BOARD MINUTES/RECOMMENDATIONS & MOTIONS

1. June 11, 2014, draft meeting minutes
2. Recommendations on Publicizing Environmental Management Successes
3. Recommendations on Funding to Support Cleanup and Expedite Milestones
4. Recommendation on DOE Oak Ridge GIS Fact Sheets

REPORTS & MEMOS

1. Summary of Annual Meeting
2. Recommendation Tracking Chart
3. EM Projects Update for July/August
4. Abbreviations/Acronyms for EM Projects Update
5. Travel Opportunities



**Oak Ridge Site Specific Advisory Board
Wednesday, September 10, 2014, 6:00 p.m.
DOE Information Center
1 Science.gov Way, Oak Ridge, Tenn.**

AGENDA

- I. Welcome and Announcements (D. Hemelright) 6:00–6:05
 - A. Next Meeting: Wednesday, October 8
Presentation Topic: Update on the Uranium-233 Project
- II. Comments from the Deputy Designated Federal Officer, and the DOE, EPA, and TDEC Liaisons (S. Cange, D. Adler, C. Jones, K. Czartoryski)..... 6:05–6:20
- III. Public Comment Period (C. Rowcliffe)..... 6:20–6:30
- IV. Presentation: Oak Ridge Environmental Management Stewardship Program (P. Halsey, S. Brown)..... 6:30–7:05
 - Question and Answer Period 7:05–7:20
- BREAK..... 7:20–7:30
- V. Call for Additions/Approval of Agenda 7:30
- VI. Motions 7:30–7:35
 - A. June 11, 2014, Meeting Minutes (L. Hagy)
 - B. Chairs Recommendations (D. Hemelright)
 - 1. Recommendations on Publicizing Environmental Management Successes
 - 2. Recommendations on Funding to Support Cleanup and Expedite Milestones
 - C. Recommendation on DOE Oak Ridge GIS Fact Sheets (C. Staley)
 - D. Election of FY 2015 Board Officers (B. Price)
 - E. Second Consecutive Absence—Holmes, Paulus, Smith (L. Hagy)
- VII. Responses to Recommendations & Comments (D. Adler)..... 7:35–7:40
- VIII. Committee Reports..... 7:40–7:50
 - A. Environmental Management/Stewardship (B. Hatcher/C. Staley)
 - B. Public Outreach (J. Lyons)
 - C. Executive (D. Hemelright)
- IX. Federal Coordinator’s Report (M. Noe) 7:50–7:55
- X. Additions to Agenda 7:55–8:00
- XI. Adjourn 8:00



Oak Ridge Site Specific Advisory Board

September 2014

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1 Labor Day Holiday DOE/Staff holiday	2	3	4	5	6
7	8	9	10 Monthly SSAB Meeting 6 p.m.	11	12	13
14	15	16	17 Environmental Management & Stewardship Committee 6 p.m.	18	19	20
EM SSAB Chairs' Meeting Idaho Falls, ID.						
21 ORSSAB's 19 th Anniversary	22	23 Public Outreach Committee 5:30 p.m.	24 Budget & Process Committee 5:30 p.m. Executive Committee 6 p.m.	25	26	27
28	29	30				

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

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

DOE Information Center: (865) 241-4780

Board meetings on cable TV and YouTube	
Knoxville: Charter Channel 6, Comcast Channel 12	Wednesdays at 9 p.m.
Lenoir City: Charter Cable Channel 3	Wednesdays, 4 p.m.
Oak Ridge: Channel 12	Monday, Sept. 22, 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

October 2014

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1	2	3	4
5	6	7	8 Monthly SSAB Meeting 6 p.m.	9	10	11
12	13 Columbus Day Holiday DOE/Staff holiday	14	15 Environmental Management & Stewardship Committee 6 p.m.	16	17	18
19	20	21 Public Outreach Committee 5:30 p.m. teleconference	22 Executive Committee 6 p.m.	23	24	25
26	27	28	29	30	31	

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Oak Ridge: Channel 15	Monday, Wednesday, Friday, 8 a.m. & noon
YouTube	http://www.youtube.com/user/ORSSAB

DRAFT

Many Voices Working for the Community



Oak Ridge Site Specific Advisory Board

Unapproved June 11, 2014, Meeting Minutes

The Oak Ridge Site Specific Advisory Board (ORSSAB) held its monthly meeting on Wednesday, June 11, 2014, at the DOE Information Center, 1 Science.gov Way, Oak Ridge, Tenn., beginning at 6 p.m. A video of the meeting was made and may be viewed by contacting the ORSSAB support offices at (865) 241-4583 or 241-4584. The presentation portion of the video is available on the board's YouTube site at www.youtube.com/user/ORSSAB/videos.

Members Present

Jimmy Bell
Noel Berry
Bob Hatcher
David Hemelright, Chair

Bruce Hicks, Vice Chair
Jennifer Kasten
Jan Lyons
Scott McKinney

Donald Mei
Belinda Price
Coralie Staley

Members Absent

Alfreda Cook
Carmen DeLong
Lisa Hagy, Secretary
Howard Holmes¹
Fay Martin
Greg Paulus¹
Mary Smalling
Wanda Smith¹
Scott Stout

¹Second consecutive absence

Liaisons, Deputy Designated Federal Officer, and Federal Coordinator Present

Dave Adler, Department of Energy-Oak Ridge Office (DOE-ORO), Alternate Deputy Designated Federal Officer (DDFO)
Susan Cange, DOE-ORO, Deputy Designated Federal Officer
Kristof Czartoryski, Liaison, Tennessee Department of Environment and Conservation (TDEC)
Melyssa Noe, ORSSAB Federal Coordinator, DOE-ORO

Others Present

Aditya Chourey, Student Representative
Steven Cooke, DOE
Spencer Gross, ORSSAB Support Office
Pete Osborne, ORSSAB Support Office

Five members of the public were present.

Liaison Comments

Mr. Adler – Mr. Adler said the board will not meet on July 9 as that date is set aside for an orientation and training session for two new members. The board's annual planning meeting is scheduled for Saturday, August 16 from 8 a.m. to noon at the DOE Information Center. There will be no Wednesday evening meeting in August. The September 10 meeting date is tentative. Mr. Adler said the EM SSAB Chairs' meeting may be scheduled during that week. He said if it is the Executive Committee will decide whether to reschedule the meeting or cancel.

Mr. Adler said there are three outstanding recommendations from the board for DOE to consider. The Recommendations on the FY 2016 DOE Oak Ridge Environmental Management Budget Request will be included with the DOE Oak Ridge EM budget request to DOE Headquarters in Washington. The Recommendations on Additional Waste Disposal Capacity on the Oak Ridge Reservation and Recommendations on Additional Off-site Groundwater Migration Studies have been assigned to appropriate DOE staff to develop responses.

Ms. Cange – Ms. Cange reminded the board that Mark Whitney, who had been the manager for the DOE Oak Ridge Environmental Management (EM) Program, has been called to Washington, DC, as DOE's principal deputy assistant secretary for EM. Ms. Cange will be acting manager for EM in Oak Ridge until a permanent replacement is named for Mr. Whitney.

Ms. Cange said completion of all of the demolition work associated with the K-25 Building at East Tennessee Technology Park (ETTP) will be finished by the first of July. Walk downs of the area with the project contractor will be done over the next few weeks to ensure all requirements have been met. Demolition of K-25 began in December 2008, although preparation for demolition had been underway for several years prior to that.

There will be a community workshop on Tuesday, June 24 from 1:30 to 5:30 p.m. at the Riverside Grill, 100 Melton Lake Peninsula, Oak Ridge, Tenn. The purpose of the workshop is to engage with the community and identify a few key issues, and work with the community to move toward resolution of those issues. The workshop will consist of three breakout sessions:

1. Short- and long-term priorities and how they can be accomplished with available funding.
2. Contracting strategies for large projects that are in the planning stage. Ms. Cange said this is a way to involve small business contractors and other small businesses and get ideas on contracting strategies.
3. When cleanup is completed what is next for the community. The focus will be on reindustrialization and historic preservation and other things DOE Oak Ridge EM is planning to prepare the community when cleanup is completed.

The workshop is open to the public and Ms. Cange said other community groups in addition to ORSSAB have been invited to participate.

Mr. Czartoryski – This was Mr. Czartoryski's first meeting as the TDEC liaison. He said he has been with TDEC for 23 years – two years in the permitting program and 21 years in the TDEC oversight office. He currently is TDEC's Federal Facility Agreement program manager.

He said the Tennessee Department of Water Resources will hold a meeting concerning the Emory River and Watts Bar Reservoir. The intent of the meeting is for all agencies and groups involved in the watersheds to discuss their activities in a poster session-like setting. The meeting will be held in September with a date and site to be determined.

Public Comment

None.

Presentation

Mr. Cooke's presentation was the status of property and infrastructure transfer at ETTP. The main points of his presentation are in Attachment 1. He began by saying the vision for ETTP incorporates more than just industrial development. Conservation and historic preservation are part of the vision for the site. DOE has set aside about 3,000 acres to the north of ETTP as part of the Black Oak Ridge Conservation Easement. Mr. Cooke said there are other areas around ETTP that could be set aside later for conservation. The area around the footprint of the former K-25 Building and a portion of the fire station will be used for historic preservation purposes. Some small areas of ETTP will be retained by DOE, such as the K-1070 Burial Grounds.

The map on page 4 of Attachment 1 shows the current status of ETTP. The blue areas have been transferred from DOE to the Community Reuse Organization of East Tennessee (CROET). Some of those areas have, in turn, been sold by CROET for private industrial development. The green areas are leased to CROET and in some cases have been subleased to private industry. Areas in gray are undergoing review and documentation for transfer.

Mr. Cooke said about 1.3 miles of roads at ETTP have been transferred to the City of Oak Ridge (Attachment 1, page 5). He said sewer lines have been transferred to the city and the process is underway to complete transfer of the water distribution system to the city later this year. The power distribution system is also in the process of transfer.

The blue and green highlighted areas on page 6 of Attachment 1 show the most recent transfers of about 28 acres (Parcels ED-11 and ED-12) to CROET in May. Page 7 is an overhead view of the area, which is mostly clear and flat and ready for development.

Page 8 of Attachment 1 shows an area in yellow, about 171 acres, that has been proposed by the Metropolitan Knoxville Airport Authority for transfer for use as an airport. Mr. Cooke said work is underway to determine environmental impacts. The proposed area includes parcels that have already been transferred. The airport would be used for mid-size aircraft to relieve some traffic from McGhee-Tyson airport, which would be used primarily for larger aircraft. The airport authority did two studies that evaluated several sites on the Oak Ridge Reservation and the preferred location is at ETTP. A request for transfer was submitted in June 2013 and the notional schedule is to begin construction in 2017 and be operational by the end of 2021.

The chart on page 10 of Attachment 1 depicts the transfer process. Mr. Cooke said it's a lengthy process that takes a lot of documentation and regulator and Congressional review. Mr. Cooke said DOE has been looking for ways to do the process that is more responsive to the needs of the community. He said DOE works ahead in the analysis phase and regulator review phase in anticipation of receiving proposals for transfer.

Mr. Cooke showed a photograph of the site where the K-33 Building once stood (Attachment 1, page 11) and a photograph (page 12) of what the site looks like today. Mr. Cooke said his office is preparing the documentation and preparing for the environmental review process in anticipation of receiving a transfer request.

He showed a photograph from 1945 of the powerhouse area (Attachment 1, page 13). The photograph on page 14 shows what the site looks like today. Most of the area is leased and a portion is subleased to Oak Ridge Forest Products for a wood chipping operation. He said work is being done on the regulator review process to transfer the site. He said by doing the work ahead of time his office is able to work more proactively and efficiently ahead of transfer proposals.

Page 16 of Attachment 1 is a summary of what has been done at the ETP. Mr. Cooke said in order to facilitate reindustrialization, areas of ETP accessible to the public have been expanded and the secure areas of the site have been reduced.

After Mr. Cooke's presentation there were a number of questions. Following are abridged questions and answers.

Mr. Bell – When CROET sells property, where does the money go? Mr. Cooke – As a not-for-profit organization they are committed to reinvesting the money to the redevelopment of the site. A lot of improvements have been made in terms of landscaping, signage, renovation of buildings, things like that.

Mr. Bell – You mentioned that CROET sub-leased some property for a wood-chipping operation. I didn't know they leased property. Mr. Cooke – We lease that property to CROET and they in turn lease it to Oak Ridge Forest Products. Ms. Cange – When the reindustrialization program was established in 1996, it was predominately a leasing program. In about 2003 the program transitioned from a leasing program to a title transfer program. But there continues to be property that is leased and then sub-leased, sometimes before they are transferred or sometimes because there is no desire to take over ownership of the property. Both mechanisms are in use today. Mr. Bell – Does anyone pay taxes on the properties? Mr. Cooke – It is my understanding that Anderson County and Roane County collect taxes on the properties.

Mr. Hatcher – Could you give us more information about the airport? Is it for private aircraft or commercial? Mr. Adler – It's being referred to as a general services airport. It would have a 5,000-6,000 foot runway. It would not be for large commercial aircraft. It would be suitable for small jets. It could be used by private pilots, but primarily to augment the services of the industrial park. If large companies have facilities at the park and they need to get people or material to the facility quickly they are interested in having an airstrip nearby.

Committee Reports

Budget & Process – Mr. Hemelright reported that DOE Headquarters has developed a template for bylaws for all the EM SSABs to follow. He said the committee will review the template and make comments and then provide it to board members for review and comments. He noted that one of the provisions is to make passage of recommendations a simple majority of board members rather than a quorum of a certain number of members. He said a simple majority to pass recommendations will make the process of approving recommendations easier.

The committee recommended that ORSSAB's annual meeting be held on Saturday, August 16, beginning at 8 a.m. at the DOE Information Center. The meeting generally will follow last year's agenda.

EM & Stewardship – Ms. Staley reported that the committee heard presentations on the DOE geographical information system, an update on the Land Use Manager system for tracking stewardship requirements, and the status of the Oak Ridge Reservation groundwater strategy document. Part of the geographical information system includes links to parcels that have been remediated. Committee member Ellen Smith is drafting a recommendation that the fact sheets include information about any actions that are planned for future use of remediated parcels. The committee will consider the draft recommendation at the June 18 meeting.

Public Outreach – Mr. McKinney reported that work continues to update the ORSSAB exhibit at the American Museum of Science and Energy. The primary focus is on updating a poster for the exhibit on ETP.

Mr. McKinney said ORSSAB had an exhibit at the Earth Day celebration in April. He thanked board members who staffed the exhibit. Regarding the Secret City Festival, Mr. McKinney said because it is a two-day event and exhibits must be staffed continuously, there have not been enough board members volunteer to staff the booth. ORSSAB has not participated in the festival the last few years.

Mr. McKinney noted the board's *Advocate* newsletter is in production and due to be published July 1.

Mr. McKinney said public outreach was a topic at the EM SSAB Chairs' meeting and several boards do different things. He said the committee will review some of those activities and determine if they can be implemented by ORSSAB.

Executive – Mr. Hemelright said the committee met on May 28 and reviewed the agenda for this meeting. He noted that he has been serving on DOE's K-25 historic preservation committee. A firm has been contracted to develop museum exhibits for K-25 historic interpretation.

He reminded the board that the Secret City Festival is being held June 13 and 14. He reiterated Mr. McKinney's statement that staffing a booth requires several people. However, he invited board members to attend the festival.

The Executive Committee will not meet in June. The next scheduled meeting is July 23.

Mr. Berry asked if it were possible to have contractors staff exhibits at the Secret City Festival and Earth Day. Mr. Osborne noted that historically DOE prefers not to have non-board members staffing these types of exhibits or making presentations. Mr. Adler agreed, but said it might be possible to allow non-board members to provide materials, but not talk about any positions the board may have on topics. He said that could be discussed at the Executive Committee meeting.

Ms. Price said it would be helpful for board members to have talking points available that could be used in speaking with the public about the board and what it does.

Announcements and Other Board Business

ORSSAB will not meet in July. The next meeting will be the board's annual planning meeting on Saturday, August 16 at the DOEIC.

The minutes of the May 14, 2014, meeting were approved.

Mr. McKinney was recognized for his service on the board since July 2011. Mr. McKinney will be resigning from the board in July.

The EM SSAB Recommendation EM SSAB Chairs' Recommendation on Publicizing EM Successes was approved (Attachment 2).

The EM SSAB Recommendation on EM SSAB Chairs' Recommendation on Funding was approved (Attachment 3).

Mr. Berry and Ms. Price were elected to the Nominating Committee for ORSSAB officers for FY 2015.

Federal Coordinator Report

Ms. Noe said headquarters has not yet confirmed the appointments of two new members. She said the appointment process is currently in the fifth and longest stage of the process, but once that is completed all that remains is a signature from Mark Whitney in Washington.

Additions to the Agenda

None.

Motions**6/11/14.1**

Mr. Hicks moved to approve the minutes of the May 14, 2014, meeting. Mr. Berry seconded and the motion passed **unanimously**.

6/11/14.2

Ms. Price moved to approve the EM SSAB Chairs' Recommendation on Publicizing EM. Mr. Hatcher seconded and the motion passed **unanimously**.

6/11/14.3

Mr. Hatcher moved to approve the EM SSAB Chairs' Recommendation on Funding. Mr. McKinney seconded and the motion passed **unanimously**.

6/11/14.4

Mr. McKinney moved to nominate Mr. Berry and Ms. Price as members of the Nominating Committee for officers for FY 2015. Ms. Staley seconded and the motion passed **unanimously**. Staff will notify all members by email asking for additional volunteers for the Nominating Committee.

The motions to consider two consecutive absences for Ms. Price and Ms. Smith were removed from the agenda. Ms. Price was present and Ms. Smith notified staff that she had been ill.

The meeting adjourned at 7 p.m.

Action items

1. Staff will email all members requesting additional volunteers to serve on the Nominating Committee.
2. The idea of non-board members staffing exhibits will be discussed at an Executive Committee meeting.

Attachments (3) to these minutes are available on request from the ORSSAB support office.

I certify that these minutes are an accurate account of the June 11, 2014, meeting of the Oak Ridge Site Specific Advisory Board.

Dave Hemelright, Chair
Oak Ridge Site Specific Advisory Board
DH/rsg

DATE

ENVIRONMENTAL MANAGEMENT SITE-SPECIFIC ADVISORY BOARD

Hanford
Oak Ridge

Idaho
Paducah

Nevada
Portsmouth

Northern New Mexico
Savannah River

Mr. David Huizenga
Acting Assistant Secretary for Environmental Management
U.S. Department of Energy, EM-1
1000 Independence Avenue, SW
Washington, DC 20585

Dear Mr. Huizenga:

Background

The Environmental Management Site Specific Advisory Board (EM SSAB) Chairs note the examples below that illustrate some of the positive benefits resulting from EM remediation efforts such as:

- Fernald, Ohio, where an operational uranium enrichment plant has been deconstructed and the area reconstituted as parkland;
- Oak Ridge, Tennessee, where the East Tennessee Technology Park now occupies the area previously dominated by the K-25 Gaseous Diffusion Plant;
- Rocky Flats, Colorado, where a nuclear weapons production facility has been replaced by flourishing rangeland and now serves as a wildlife refuge; and
- Hanford in Washington state, where the B Reactor Preservation Project has been completed and is under consideration for national historic preservation.

In every case of EM site remediation, the environmental recovery constitutes a powerful example of how the joint efforts of the Department of Energy (DOE) and community leaders have resulted in a return to the local community and to society of areas or facilities previously exposed to and/or contaminated by nuclear activities.

Recommendation

With full recognition of the presence and value of formal public relations and outreach programs within each DOE facility, and building upon these capabilities, the EM SSAB Chairs recommend that DOE:

- Sponsor an independent examination of the remediation efforts of DOE EM, with the intent of producing video clips and/or lengthier documentaries suitable for

public viewing through a variety of platforms and for academic/scholastic purposes.

- Engage the various EM sites in developing and producing such materials (and referencing those that already exist), so that local resources (e.g. local television organizations and academic science programs) may make use of these materials to address local issues and specific concerns.

Such communication tools would help DOE EM to further capitalize on the presentation of past and emerging EM sites to inform the public about cleanup activities at former nuclear sites to maintain and improve support for environmental cleanup.

Steve Hudson, Chair
Hanford Advisory Board

Herbert Bohrer, Chair
Idaho National Laboratory
Site EM Citizens Advisory
Board

Kathleen Bienenstein, Chair
Nevada SSAB

Carlos Valdez, Chair
Northern New Mexico
Citizens' Advisory Board

David Hemelright, Chair
Oak Ridge SSAB

Ben Peterson, Chair
Paducah Citizens
Advisory Board

William E. Henderson II, Chair
Portsmouth SSAB

Marolyn J. Parson, Chair
Savannah River Site
Citizens Advisory Board

cc: Kristen Ellis, EM-3.2
David Borak, EM-3.2

ENVIRONMENTAL MANAGEMENT SITE-SPECIFIC ADVISORY BOARD

Hanford
Oak Ridge

Idaho
Paducah

Nevada
Portsmouth

Northern New Mexico
Savannah River

Mr. David Huizenga
Acting Assistant Secretary for Environmental Management
U.S. Department of Energy, EM-1
1000 Independence Avenue, SW
Washington, DC 20585

Dear Mr. Huizenga:

Background

The Environmental Management Site Specific Advisory Board (EM SSAB) believes the fiscal year 2015 budget request is insufficient to meet the cleanup obligations facing the EM cleanup sites. We also believe that the Department of Energy (DOE) needs to honor the agreements and established milestones between the federal government, the states, Tribes and affected stakeholders in a more timely fashion.

How Underfunding Increases Cost and Risk

- Funding shortfalls increase the long-term cost of cleanup to the American taxpayers.
- Flat funding increases cleanup costs because it does not consider inflation or escalation of added costs.
- Continuing funding shortfalls result in the downward spiral of additional delays and more costs.
- Continued use of facilities past their design lives increases risk, as has been demonstrated by recent reports of leaking double shell tanks at the Hanford site.
- Loss of institutional knowledge inhibits cleanup efficiency and increases costs.

Cleanup Commitments Must Be Honored

The United States government is obligated to meet existing cleanup commitments and establish new commitments for cleanup in a timely fashion. At the larger sites, much of the low hanging fruit, the most easily completed work, is done. The remaining cleanup at these sites is more complex and will cost more money. This fact cannot be ignored. Some sites, such as Fernald and Rocky Flats, have completed all cleanup activities. Many remaining sites are facing the most difficult, risk laden, and expensive cleanup activities across the DOE EM complex. There are also sites, such as Paducah, whose end state metrics have yet to be established.

We believe these cleanup obligations must be met in real time, not delayed. Every year DOE needs to honor their current commitments by requesting all funding to support cleanup activities and milestones, and request funding for newly established milestones.

The EM SSAB, comprising about 200 people, is composed of eight regional citizens advisory boards from communities in Georgia, Idaho, Kentucky, Nevada, New Mexico, Ohio, Oregon, South Carolina, Tennessee and Washington. We are cumulatively representative of a stakeholder population totaling millions of people who are affected by generator sites, transportation routes and disposal sites.

Recommendation

The EM SSAB requests that:

- DOE meet its cleanup obligations by requesting all annual funding required to support cleanup activities and milestones at each site we represent to complete committed cleanup activities, without delay.
- DOE expedite milestone establishment, and requests funds for those sites that do not have site end state cleanup milestones in place.

The EM SSAB requests that you share this recommendation with the Secretary of Energy.

Steve Hudson, Chair
Hanford Advisory Board

Herbert Bohrer, Chair
Idaho National Laboratory
Site EM Citizens Advisory
Board

Kathleen Bienenstein, Chair
Nevada SSAB

Carlos Valdez, Chair
Northern New Mexico
Citizens' Advisory Board

David Hemelright, Chair
Oak Ridge SSAB

Ben Peterson, Chair
Paducah Citizens
Advisory Board

William E. Henderson II, Chair
Portsmouth SSAB

Marolyn J. Parson, Chair
Savannah River Site
Citizens Advisory Board

cc: Kristen Ellis, EM-3.2
David Borak, EM-3.2



Checklist

Recommendations and Comments Consideration for Board Approval

- I. **Title:** Recommendation on DOE Oak Ridge GIS Fact Sheet
- II. **In response to (why necessary):** To ensure all fact sheets in the DOE Geographical Information System identify future actions planned or expected.
- III. **Committee:** EM & Stewardship Committee
- IV. **Date submitted:** September 10, 2014
- V. **Date by which action is requested or required:** September 10, 2014
- VI. **Previous considerations:** none
- VII. **White Paper (if applicable):**
- VIII. **References (if applicable):**



Many Voices Working for the Community

Oak Ridge Site Specific Advisory Board

DATE

Susan Cange
Acting Manager
Oak Ridge Office of Environmental Management
U.S. Department of Energy
P.O. Box 2001, EM-90
Oak Ridge, TN 37831

Dear Ms. Cange:

Recommendation: Recommendation on DOE Oak Ridge GIS Fact Sheets

On May 21, 2014, Pat Halsey, Department of Energy (DOE), gave the Oak Ridge Site Specific Advisory Board (ORSSAB) Environmental Management & Stewardship Committee a presentation and demonstration on the Oak Ridge Environmental Management Geographic Information System (GIS). This is a new online information resource for the public, available at <https://emgis.oro.doe.gov/>.

Website visitors can access maps of the Oak Ridge Site and obtain information about specific sites and areas, including their contamination/cleanup status. For each "Decision Area" (i.e., an area that has been the subject of a Comprehensive Environmental Response, Compensation and Liability Act Record of Decision), there is a fact sheet for the public that provides a concise answer to the question "Is it safe?" followed by short summaries of the site history, Record of Decision (ROD), remedial measures, and current status. The fact sheets also provide links to relevant documents, such as other RODs and the Remediation Effectiveness Report.

ORSSAB believes that this website is a valuable tool for public information and education. ORSSAB congratulates the DOE staff on its development.

ORSSAB notes that not all fact sheets describe future decisions and actions. To more fully inform the public, ORSSAB recommends that all fact sheets identify future actions expected or planned. In particular, fact sheets for units with interim action RODs should indicate that additional evaluations will be done in the future before final decisions are made.

Thank you for your consideration of this recommendation.

Sincerely,

Dave Hemelright, Chair
DH/rsg

Recommendation: Recommendation on DOE Oak Ridge GIS Fact Sheets

Page 2

cc/enc:

Dave Adler, DOE-ORO

Dave Borak, DOE-HQ

Fred Butterfield, DOE-HQ

Kristof Czartoryski, TDEC

Connie Jones, EPA Region 4

Terry Frank, Anderson County Mayor

Melyssa Noe, DOE-ORO

John Owsley, TDEC

Mark Watson, Oak Ridge City Manager

Ron Woody, Roane County Executive

File Code 140

**Summary of the 2014 Annual Meeting
Oak Ridge Site Specific Advisory Board
Saturday, August 16, 2014, 8 a.m. to noon
DOE Information Center, 1 Science.gov Way
Oak Ridge, Tenn.**

The Oak Ridge Site Specific Advisory Board (ORSSAB) met for its annual planning meeting beginning at 8 a.m., on Saturday, August 16, 2014, at the Department of Energy (DOE) Information Center, 1 Science.gov Way, Oak Ridge, Tenn.

The objectives of the meeting were to:

- Develop an increased understanding of and commitment to the goals of the board
- Evaluate the effectiveness and achievements of the board in FY 2014
- Begin development of the FY 2015 work plan

The meeting was facilitated by Jenny Freeman, Strata G. The agenda is Attachment 1.

Members present

Noel Berry	Dave Hemelright,	Greg Paulus
Alfreda Cook	Chair	Scott Stout
Lisa Hagy, Secretary	Jan Lyons	Wanfang Zhou
Bob Hatcher	Fay Martin	
	Donald Mei	

Members absent

Jimmy Bell	Howard Holmes	Mary Smalling
Carmen DeLong	Jennifer Kasten	Wanda Smith
Bruce Hicks, Vice Chair	Belinda Price	Corkie Staley

Others present

Dave Adler, DOE-Oak Ridge Office (DOE-ORO), Alternate Deputy Designated
Federal Officer (DDFO)
Susan Cange, DOE, DDFO
Aditya Chourey, ORSSAB student representative
Kristof Czartoryski, Tennessee Department of Environment and Conservation (TDEC), ORSSAB Liaison
Jenny Freeman, Strata G
Spencer Gross, ORSSAB Support Office
Connie Jones, Environmental Protection Agency (EPA), ORSSAB Liaison
Melyssa Noe, DOE-ORO, ORSSAB Federal Coordinator
Pete Osborne, ORSSAB Support Office
Claire Rowcliffe, ORSSAB student representative

Mr. Hemelright opened the meeting by welcoming everyone and thanking them for making the effort to attend. He reviewed the objectives for the meeting and guidelines for how the meeting was to be conducted.

Ms. Cange introduced Mr. Zhou as a new member to the board who was attending his first meeting.

DDFO Comments

Ms. Cange, the board's DDFO, is also the DOE-ORO Acting Manager for Environmental Management (EM). She gave an overview of the program and talked about the short-term and long-term plans. The main points of her presentation are in Attachment 2.

The mission of the program is to complete the cleanup of the Oak Ridge Reservation (ORR). The program is focused on protecting the region's health and environment, making clean land available for public use, and ensuring the ongoing missions at Oak Ridge National Laboratory (ORNL) and Y-12 National Security Complex.

EM work is organized by portfolios at East Tennessee Technology Park (ETTP), ORNL, and Y-12. Work is conducted by several contractors; the largest are UCOR, WAI, and Isotek. UCOR has the largest contract of about \$2.5 billion to clean up ETTP, and it is responsible for surveillance and maintenance at all three sites. Its contract runs to 2016 and there is a one-time option to extend the contract an additional four years.

WAI's contract is to operate the Transuranic (TRU) Waste Processing Center. Isotek is responsible for disposing of uranium-233 at ORNL.

Ms. Cange explained the key considerations at each site (Attachment 2, page 5). The primary risk at Y-12 is mercury. While the Agency for Toxic Substances and Disease Registry has said there are no adverse impacts of mercury in East Fork Poplar Creek, the amount of mercury leaving Y-12 via the creek is above state guidelines and DOE must try to reduce concentrations.

At ORNL the primary risk is radiological. There are more than 26 million curies of radioactive material stored at the lab very near billions of dollars' worth of infrastructure investments.

Life-cycle cost is the primary risk at ETTP. Almost \$60 million is spent annually on maintaining a safe status and essential services. Ms. Cange said that cost is a large drain on EM's budget. She said the sooner ETTP can be cleaned up the more money that can be directed to Y-12 and ORNL.

Ms. Cange listed EM's near term goals:

- Complete the demolition of Buildings K-27 and K-31 at ETTP.
- Construct and operate a mercury water treatment system at Y-12. Ms. Cange said construction of the plant is in preparation for cleanup of mercury-contaminated buildings at Y-12 that will likely release mercury during cleanup or demolition.
- Dispose half of the uranium-233 inventory at ORNL and prepare for processing the remaining inventory. Ms. Cange said there is a path to dispose about half of the inventory and when that is finished what remains will be downblended.
- Continue processing TRU debris.
- Prepare for TRU sludge processing.
- Continue planning for a new disposal cell. Ms. Cange said the current disposal facility is projected to be filled by about 2020. A second facility is needed to complete cleanup of Y-12 and ORNL.

EM's long-term goals are:

- Complete TRU debris processing (~2018)
- Complete construction of the mercury treatment facility at Y-12 (~2020)
- Complete cleanup of ETTP (~2022)
- Begin demolition of mercury-contaminated buildings at Y-12 (~2023)
- Complete uranium-233 disposition (~2024)
- Begin operation of a new disposal facility (~2024)

- Complete transuranic sludge processing (~2026)
- Begin demolition of central campus buildings at ORNL (~2027)

Ms. Cange showed a proposed cleanup schedule (Attachment 2, page 8). She said the dark blue areas indicate cleanup work, yellow is remediation of groundwater and soil, and green is waste processing activities. She said the cleanup program is projected to last through early to mid-2040s depending on budget allocations.

EM has a number of challenges affecting its cleanup goals, (Attachment 2, page 9) including:

- Diverse, complex projects
- Competing priorities
- Declining budgets
- Regulator and stakeholder expectations and commitments
- Ongoing DOE missions

Ms. Cange said while other sites in the DOE complex may have just one or two projects, Oak Ridge has several different complex projects that are competing for priority and funding. Sometimes there are more projects than available funding so difficult decisions must be made. She said while Oak Ridge has a healthy cleanup budget it is not enough to address projects within given timeframes.

Ms. Cange said cleanup commitments are made through the ORR Federal Facility Agreement among DOE, EPA, and TDEC, and the Site Treatment Plan between DOE and TDEC. These agreements have commitments that DOE must achieve.

She noted that cleanup work at Y-12 and ORNL must be coordinated to make sure ongoing missions are not hindered.

Ms. Cange said EM continues to position for the future by:

- Balancing competing risks at Y-12, ORNL, and ETTP.
- Optimizing progress and efficiencies while maintaining a good safety record. She said the incidents at the Waste Isolation Pilot Plant in New Mexico that forced its temporary closure illustrate how problems can have a devastating impact on operations.
- Looking for innovative ways to perform work. Ms. Cange said with insufficient funding it's important to be innovative and creative.
- Identifying near-term goals while continuing longer-term strategic focus.

Ms. Cange then reviewed the role of ORSSAB:

- Maintain awareness of key program focus areas.
- Provide recommendations on high-level programmatic decisions and project implementation. She said there was a time when many decisions on cleanup had not been made, but many of those decisions have been made and are now in the implementation phase. But she said there are some opportunities for ORSSAB input on key decisions such as the proposed disposal facility.
- Solicit input from broader regional stakeholder community. Ms. Cange noted the Public Outreach Committee had been active in that area.
- Participate in national dialogues concerning the EM program. She reminded the group that ORSSAB is one of several similar boards across the country. Leadership of all the boards will gather in September in Idaho for a meeting to discuss cleanup issues.

At this point, Mr. Hatcher asked if the TRU sludge operations could be shifted to the Hanford site where similar operations are underway. Ms. Cange said that had been considered, along with the Savannah River Site, but there are difficult and expensive issues in finding proper shipping containers to transfer the material.

Mr. Hatcher also asked, as land is transitioned from DOE ownership to industrial development, if there has been any consideration of offering the land to descendants of those who were displaced in the 1940s to develop the area for Manhattan Project purposes. Ms. Cange said she didn't have enough information to answer that question, but she believed that the original owners were compensated for the loss of their properties and gave up all claims to the lands. She noted that not all land is being designated for industrial development. Some has been set aside for conservation or historic preservation. Mr. Adler noted that some of the original property is now used by the community in areas such as Robertsville and Oliver Springs.

Ms. Cange concluded her portion of the meeting by asking board members to think about ways to make the monthly meetings more productive. She challenged them to think about ways to make the meetings more interactive, be more beneficial, and generate more interest in the community.

She said she was not requesting changes, but thought it was a good time to reconsider the structure of meetings, frequency of meetings, and how the board operates.

Board Operations

This part of the meeting was a general discussion about the monthly meetings, meeting attendance, frequency of meetings, number of members needed to vote on recommendations, and so on.

Mr. Hemelright noted that only 11 members were present for the meeting out of a total of 20. He said there has not been a quorum of members present at the last two meetings to vote on recommendations originated by the eight SSABs to be sent to the DOE Assistant Secretary for EM. Unless there is a quorum at the September meeting, ORSSAB will not be able to sign the recommendations prior to the Fall EM SSAB Chairs' meeting September 16-18.

Ms. Freeman asked if there were any ideas about getting more board members actively engaged. Mr. Hemelright said member engagement comes and goes. He said part of the problem with approving recommendations is the board's bylaws are somewhat restrictive requiring three-quarters of membership present and two-thirds of those must approve the recommendation. The Budget & Process Committee is reviewing the current bylaws and is also awaiting guidance from DOE Headquarters on bylaws revisions for all the SSABs.

Mr. Hemelright said the Public Outreach Committee has made great strides in its work, and the EM & Stewardship Committee has had good discussions. He said he welcomes ideas from members to make meetings more interactive, and he asked for suggestions on number of meetings and length of meetings.

When he first became interested in becoming a member it was nice to have food available. He said many people do not have time to eat prior to the meetings, and having food available makes it a good way to socialize.

Mr. Hemelright said this was the first time the annual meeting was held at the site of the monthly meetings. Previous annual meetings have been held off-site with a social event the night before. He said the social events are good ways to communicate with and get to know members.

Ms. Martin said she also liked the social gatherings the night before annual meetings.

Ms. Cook said one of the requirements for being a member is to attend meetings and not miss two in a row.

Ms. Cook said since many of the EM projects are now in implementation, she asked what difference ORSSAB can make – 'are we making a difference,' 'do we have a purpose?'

Ms. Lyons said the board is in a different mode and the board's demographics are different than when it was first established. She said people today are not interested in long, formal meetings, but much has been accomplished in committees in informal settings. She said people don't have to be as committed to

committee membership. She said perhaps the board meetings don't have to be as often and not always have a presentation, just a business meeting occasionally.

Mr. Hemelright noted getting new members is a time-consuming process. Ms. Noe said it is difficult to find interested people who are not connected with DOE in some way. When someone is identified the approval process takes so long that applicants often are either no longer interested or have moved on to something else by the time the appointment is finalized.

Mr. Paulus said he had missed five meetings but had been out of the country with family, which comes first. He said members must feel like they are challenged and are contributing. He said the restriction on DOE connections was not good and that approach should be changed.

Mr. Paulus liked the idea of reducing the number of meetings noting that if a member is on a committee that makes it even more difficult. He felt the meetings should be restructured and ways found to keep members stimulated.

Mr. Hemelright said some of the other boards do not meet in the same place each time. He suggested changing the meeting venue occasionally so people from other communities can attend. He did note a letter from a current member to Ms. Cange strongly supporting keeping meetings monthly.

Ms. Cook said she believed the monthly board meetings kept members together as a unit. One of the committees often meets by teleconference. She wondered if the other committees could do that. As for attendance, she said if people feel like they are making a difference they will participate in some fashion.

Ms. Lyons said it may be difficult for the EM & Stewardship Committee to meet by teleconference because of presentations that are given. She thought perhaps webinars could be set up for both board and committee meetings.

Regarding community interest, Ms. Lyons said in talking with area librarians about placement of the 'Advocate' newsletter, some of the librarians said it was important, while others said no one in their communities care. She said it's up to ORSSAB to reach out to those communities. She liked the idea of having meetings in different venues in the nine-county area around the ORR, but she said it would take a while to get people to attend.

Ms. Noe ran down the FY 2014 meeting schedule. The board did not meet in October 2013 because of government sequestration. The board has not met in December the last few years. Inclement weather caused cancellation of the February meeting. The board did not meet in July in lieu of new member orientation.

Ms. Cange reported on how other SSABs meet:

- Hanford Advisory Board meets four times a year for two days.
- Idaho National Lab Citizens' Advisory Board meets four times a year for a day.
- Nevada SSAB meets six times a year in the evenings.
- Northern New Mexico Citizens' Advisory Board meets six times a year from 1-5 p.m.
- Portsmouth SSAB meets six times a year at 6 p.m.
- Savannah River Citizens' Advisory Board meets six times a year for a day.
- Paducah Citizens' Advisory Board meets six times a year.

Ms. Cange said the boards can continue to have monthly activities, but they do not have to be full board meetings. Ms. Freeman said DOE's Oak Ridge budget rollout meeting this year was restructured and had good attendance. It was an interactive meeting with breakout groups.

Ms. Hagy commented on seeing projects in progress. She said it's important to actually see sites and what is being done to understand the issues better. With pictures in presentations she said it's more difficult to understand size and complexity and seeing something up close allows a person to be more involved. Mr.

Czartoryski said not all planning of work has been completed and taking members into the field to explain projects being considered could be useful.

Ms. Cook said having the opportunity to travel to other sites is important to see what their problems are, how they are being addressed, and how they operate.

Mr. Hatcher commented on different venues for meetings. He said perhaps board meetings should remain at the Information Center, but the EM & Stewardship Committee could go to areas like Kingston where committee presentations may relate to that community. He thought it would be easier to take committee meetings on the road than full board meetings. Ms. Noe said that was a good idea that could generate interest in being on the board.

Ms. Jones noted that in the first years of the board when there were many decisions to be made, a number of board meetings were held at Roane State Community College. She said venue is important for participation by the public.

Mr. Paulus asked Ms. Cange if she had a concept for any board transition. She replied that she had been thinking about it for a while and her observation is the board is not functioning optimally.

She said perhaps the monthly meetings have become a chore for some members. She wanted board members to be enthusiastic and to participate and for the board to provide more input on recommendations.

She said she has thought about how to structure things so they are more interactive and not necessarily be meetings. She thought there could be more interaction with project team leaders and go on tours of some of the facilities and project sites.

Ms. Cange has thought about ways the board could interact with the community a couple of times a year. She thought the board could take a more active role in planning and conducting EM's budget rollout. She thought different types of interactions would lead to a better performing board.

In any case, she said DOE will support the board because it provides a service to DOE.

Mr. Paulus asked how changes would be accomplished. Mr. Adler said these ideas would be discussed at the Executive Committee level and any new approaches would be put in the board's work plan.

Ms. Cange said the Executive Committee could develop a recommendation to restructure how the board operates and present the recommendation to the board to consider.

Ms. Cook said whatever the Executive Committee decides should be clearly reported at the board level.

Mr. Adler said to ensure full involvement of members, some of these ideas should be discussed at the EM & Stewardship Committee meeting when it develops its work plan for 2015.

Ms. Cange said the board might want to broadly advertise what the committees discuss and any board restructuring.

Board Mission and Accomplishments

Mr. Hemelright reviewed board accomplishments for FY 2014 (Attachment 3).

He said the EM SSAB Chairs' meeting will be September 16-18 in Idaho Falls. At each chairs' meeting boards are asked to present their top issue, accomplishment, or activity. Mr. Hemelright asked if there were any suggestions on what to take to the meeting.

Mr. Hatcher suggested item number 3 on the list of accomplishments: Follow the transition in long-term emphasis from cleanup to stewardship.

Mr. Hatcher said all sites involved in cleanup will eventually have need for stewardship.

Mr. Paulus agreed, but he also suggested the recommendation on groundwater was important, although it may not be relevant to all sites. Mr. Hatcher said everyone has a groundwater problem of some sort. Mr. Paulus thought numbers 1 and 3 could be tied together.

Ms. Hagy agreed with sending up number 3.

Work Plan Topics and Discussion

Each year ORSSAB sends letters to DOE, EPA, and TDEC requesting topics for the board to consider in next fiscal year. The agencies responded and those suggestions were compiled in Attachment 4.

Mr. Adler said these topics relate mostly to the EM & Stewardship Committee and will be discussed at the committee's next meeting for scheduling on its work plan.

Mr. Adler noted that there is quite a bit of overlap among the agencies on the topics. EPA and TDEC had some suggestions beyond those of DOE. He talked about each one where all three had common interests.

Y-12 Mercury Cleanup Strategy and Plan for Water Treatment Plant

Mr. Adler said this topic will be a key focus in FY 2015 to control mercury leaving Y-12 in East Fork Poplar Creek, which runs through populated areas of Oak Ridge. A D1 version of a proposed plan for the project has been sent to EPA and TDEC for review. When their comments are received and addressed by DOE, a D2 version will be provided to ORSSAB and be available to the public for comment.

Mr. Hatcher asked if it's known how much mercury has already gone into the creek and how much remains at Y-12. Mr. Adler said that kind of information is known and will be made available in presentations.

Mr. Czartoryski said building the water treatment plant is to prevent mercury from going down the creek. Ms. Cange said the plant, to be built at Outfall 200 at Y-12, is one of DOE's highest priorities, and it's one of the highest priorities for all three agencies.

Ms. Jones said there is the additional concern of mercury in soils at Y-12 and it should not be left in place and alternatives need to be considered for removing it.

Sufficient Waste Disposal Capacity on the ORR

Mr. Adler said DOE wants a lot of public input on this topic. There was a lot of interest when the EM Waste Management Facility was being considered.

The proposed plan will be issued in 2015. There are two central issues:

- Whether to build another disposal facility and
- If so, where should it go?

Mr. Hemelright asked if much work hadn't already been done. Mr. Adler said some had been done. DOE has a site in mind for planning assumptions because it's in an area that is already designated for waste disposal. He said technical studies are being done and discussions are underway about the appropriateness of the site.

Ms. Cook asked why ORSSAB would disagree with anything the agencies agree on unless the EM & Stewardship Committee and the board have technical expertise on the topic. Mr. Adler said the board has issued a recommendation that stopped short of advocating building the facility and where it should go. The recommendation was to continue with planning assumptions, and it gave criteria for selecting a site, which generally favors the proposed site. He said it's near time to go from a planning discussion to a

decision discussion. The proposed plan will suggest a specific location and DOE will take comments on the location.

Ms. Cange said the board could have a role in the public acceptance of siting a second facility. When an alternative is selected DOE must look at nine criteria and one of those is community acceptance. She said the board can collect information and communicate to the public whether it is an acceptable solution or not. The community should know and understand the impacts of having, or not having, a second disposal facility.

Mr. Zhou asked if the board has participated in the site screening process. Mr. Adler said the initial screening was done for the EM Waste Management Facility in the 1990s and the same list was used again. Ms. Cange said DOE took all of the work done previously to identify the current proposed location. TDEC has concerns because of streams in the area, and the facility would have to be constructed over the streams in such a way to protect them.

Mr. Czartoryski said there are difficult decisions to make and the agencies are discussing the issue. He said there could be a change in kind of waste that can be disposed; if so, the facility could be smaller if some of the waste can go elsewhere.

Mr. Adler said discussion of this topic could be a lively one. Mr. Zhou said if it's publicized it could have significant public participation.

Completion of ETTP

DOE and EPA included this topic in their list of suggestions.

Mr. Adler said DOE has spent most of its money in Oak Ridge at ETTP. The goal is to convert it from federal ownership to private use. ETTP is divided into two zones with the core, Zone 2, as the main industrial area. A buffer zone, Zone 1, of about 1,400 acres around the Zone 2 offers an area for re-development.

He said a decision needs to be made on soils in the area. Decisions also need to be made on land use controls, water use, and development.

Mr. Adler said ETTP requires large scale budget requirements, but remaining cleanup should not be too big of a challenge.

DOE expects to issue a proposed plan in 2015 for cleanup of the land around the industrial area.

Ms. Jones said EPA want to make sure proper documentation is done to support cleanup actions.

Mr. Berry said there has been discussion about an airport at ETTP. Mr. Adler said if an airport is built it would be mostly in Zone 1. He said that is the kind of development DOE would like to promote.

Ms. Lyons asked where money will go when ETTP cleanup is finished. Ms. Cange explained that EM receives different kinds of funding. The two primary ones are defense and decontamination and demolition (or decommissioning, D&D). D&D funds are used to clean up ETTP. Defense funds are used for other projects. The assumption is that when D&D funds are used up, allocations would go to defense. Last year Congress put caps on how much can be spent on defense, so Ms. Cange said the assumption may not be valid.

Selection of a Remediation Strategy for Trench 13 in Melton Valley

DOE suggested this topic.

Mr. Adler said there is some remaining hazardous waste buried in a site call Trench 13. The waste was encountered during the remediation of the Melton Valley waste disposal area in the 2006-7 timeframe. He said to deal with the waste will be expensive and technically challenging.

TDEC believes the material should be removed and disposed like TRU waste. DOE is reluctant to take that approach because of previous challenges.

Mr. Adler said DOE would like to brief the board on the background and challenges of Trench 13 and perhaps take a field trip to the site.

Provision of Input into the FY 2017 Budget Prioritization Effort

Every year DOE Oak Ridge requests input from the board on its budget request to DOE Headquarters and related project prioritization. Mr. Adler said while there is general consensus among DOE, EPA, and TDEC on cleanup priorities it's helpful to get input from ORSSAB. He said the board should get a summary status on all cleanup projects from the federal project directors. With a renewed understanding of the projects perhaps there would be consideration of whether to continue with current priorities. Mr. Adler said this could be a more public meeting.

ORR Groundwater

EPA and TDEC suggested that ORSSAB consider the groundwater issues on the ORR.

Mr. Czartoryski said some of the groundwater plumes have gone beyond the ORR boundaries and there is some indication that there are contaminants related to the ORR in groundwater on the west side of the Clinch River. He said he hoped the board would engage in efforts to assess the situation.

Ms. Jones said the groundwater strategy that has been developed was informative, and EPA would like for DOE to evaluate plumes on site for remediation.

Processing and Disposition of Transuranic Waste

TDEC suggested this topic.

TDEC is working with DOE to establish a path forward to dispose of TRU sludge stored in tanks in Melton Valley while a disposal facility is available.

TDEC is concerned about DOE funding that could delay the project. Mr. Czartoryski said Trench 13 contains TRU material in drums. He reiterated Mr. Adler's statement that the two agencies disagree on how to proceed.

Mr. Paulus said this was the first he had heard of Trench 13. He asked why it hasn't been discussed. Ms. Cange said there is no eminent danger or risk. It's being brought up again because DOE has milestones to complete some studies and evaluations and make a recommendation on how DOE is going to clean up the trench. She said DOE and TDEC are in an informal dispute over the trench. This is an issue where DOE is in the planning stage and the two agencies disagree on how to proceed.

Mr. Paulus asked if there are similar problems the board is not aware of. Ms. Cange said there are, but none in the decision-making stage. Mr. Paulus asked if the board needs any insight on these kinds of projects. Ms. Cange said that might be something to add to the work plan to learn more about. Ms. Cook asked if the board could get a list of projects. Ms. Cange said that could be a component of a presentation on the universe of cleanup in Oak Ridge.

Mr. Hemelright asked what avenues are available for TRU waste disposition. Ms. Cange said the only place is the Waste Isolation Pilot Plant, but it is currently shut down. In the meantime Oak Ridge continues to process TRU waste and get it ready for disposal, but it is being stored at ORNL until the plant reopens.

Mr. Hemelright asked about above-ground storage at WIPP. Ms. Cange said that has been considered, but nothing is feasible that wouldn't require a large investment.

Ms. Hagy asked if the waste in Trench 13 is being monitored. Mr. Adler said it has been stabilized with no potential for a problem unless it is exposed to air, and it is monitored continually. Mr. Czartoryski said the question is whether to deal with it soon or leave it in place where future generations may encounter it and be exposed to potential harm.

With the conclusion of the discussion of agency suggestions, Ms. Freeman asked if there were other suggestions from board members for consideration. A few were offered:

- Tours of the sites discussed, such as Trench 13, the proposed site of a new waste disposal facility, Zone 1 at ETPP.
- More information on challenges the agencies have worked through to reach a decision.
- More engagement in the budget process to include the public.
- More information on the cleanup universe.

Sign up of Committees

Mr. Hatcher described the mission of the EM & Stewardship Committee. He said many cleanup decisions have already been made and the primary focus of the committee is transitioning more to stewardship.

Ms. Lyons said the mission of the Public Outreach Committee is to inform the public about what the board is doing and try to engage the public in cleanup topics. That is done through the ‘Advocate’ newsletter, the ORSSAB exhibit at the American Museum of Science and Energy, brochures, news releases, newspaper ads about board meetings, staffing the Earth Day booth, and distributing videos of board meetings to local cable channels.

Mr. Paulus said the Budget & Process Committee is responsible, along with the EM & Stewardship Committee, with developing the annual budget and prioritization recommendation to DOE EM. It also reviews requests for member travel and other board expenditures.

Attending members did not signify intention to join or change committees, but they have the option to participate on committees of their choosing.

Board business

Mr. Berry, representing the Nominating Committee, presented a slate of candidates for board officers for FY 2015:

Dave Hemelright – Chair

Jan Lyons – Vice Chair

Lisa Hagy – Secretary

The candidates will be voted on at the September 10 board meeting. Other nominations from the floor will be taken at that time.

Lacking a quorum the board was unable to vote on EM SSAB recommendations (1) Publicizing EM Successes and (2) Funding to Support Cleanup and Expedite Milestones.

Public Comment

None.

Closing Remarks

Mr. Hemelright addressed the issue of where to hold annual meetings. He said board members were polled after last year’s meeting about having the meeting off-site or at the Information Center. The

majority voted to hold the meeting at the Information Center. He noted that some of those who voted to hold the meeting at the Information Center did not attend this meeting. He thought going back off-site is beneficial for socializing among members.

Mr. Hatcher also thought off-site meetings were useful for interaction among members. He suggested a Friday evening topic of discussion prior to the Saturday meeting would be valuable.

Mr. Paulus said he was one who voted for having the meeting at the Information Center, but he now believes the off-site meeting is better.

Ms. Freeman asked for any other comments about the meeting. Mr. Chourey and Ms. Rowcliffe said they were looking forward to touring the ORR and learning more about the projects and getting to know the other members better.

Ms. Lyons said it was a good discussion on how to broaden outreach and engage board and community members.

Ms. Hagy and Mr. Hemelright said it was a productive meeting.

The meeting adjourned at 11:25

(Attachments 4)

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Recommendation Response Tracking Chart for FY 2014

	Date	To	Recommendation	Originating Committee	Response Date	Response Status	Committee Review of Response
1.	5/14/14	Susan Cange, Acting Manager for Oak Ridge EM	Recommendation 222: Recommendations on Additional Off-site Groundwater Migration Studies	EM & Stewardship	8/5/14	Partial: DOE did not address recommendation point of reviewing existing monitoring well network. DOE will address that omission.	
2.	5/14/14	Susan Cange, Acting Manager for Oak Ridge EM	Recommendation 223: Recommendations on Additional Waste Disposal Capacity on the Oak Ridge Reservation	EM & Stewardship	7/28/14	Complete: DOE addressed all points of the recommendation.	Committee accepted response.
3.	5/14/14	Susan Cange, Acting Manager for Oak Ridge EM	Recommendation 224: Recommendation on Fiscal Year 2016 DOE Oak Ridge Environmental Management Budget Request	EM & Stewardship and Budget & Process	6/17/14	Complete: DOE Oak Ridge EM submitted the recommendation to DOE HQ along with its budget request for FY 2016.	

EM Project Update

ETTP	July	August
Zone 2 ROD	A revision to the RDR/RAWP was completed and transmitted to the regulators for review/approval.	
K-25/K-27 D&D	The Completion Report for K-25 Building documenting the disposition of the remaining demolition waste was submitted to the regulators for review.	Draining and inspecting process gas equipment greater than 3-inches in diameter is 90 percent complete and non-destructive assay of K-27 Building components is 95 percent complete.
	Draining and inspecting process gas equipment greater than 3-inches in diameter and non-destructive assay of K-27 Building components for facility criticality incredible evaluations/determinations are both approximately 88 percent complete.	The foaming of the process gas piping and equipment is 5 percent complete.
	The foaming of the process gas piping and equipment was initiated.	
	Project team preparing the capital project's Critical Decision 2/3 documentation for submittal in September.	
K-31 Demolition	Exterior transite panel removal is approximately 61 percent complete.	Exterior transite panel removal is approximately 97 percent complete.
	The revision for the WHP for disposal of demolition debris was transmitted to the regulators for approval.	The WHP for disposal of demolition debris was approved by the regulators.
	Friable asbestos abatement is being performed and the sampling necessary to develop waste profiles has been completed. Project is approximately 93 percent complete.	Friable asbestos removal is complete and the waste profile for transite is complete and disposal has begun.
ORNL	July	August
U-233 Disposition	Completed both of the two shipments of material to ORNL for future use as Certified Reference Material.	Technical evaluation of the contract change proposal for additional safeguards and security modeling was completed and submitted.
	Additional comments were provided on the Supplemental Analysis associated with transportation of the Consolidated Edison Uranium Solidification Project material and are being addressed.	Negotiations were completed on the proposal for additional safeguards and security modeling.
	An interactive review of the draft Corrective Action Plan was held. Preparations in progress for the visit by the Defense Nuclear Facilities Safety Board.	
Y-12 Site	July	August
Y-12 Phase I ROD Outfall 200 Mercury Treatment	A modification in the contract to include design of the Outfall 200 facility was finalized. Technical evaluation of the contractor proposal, negotiation, and reaching an agreement all occurred within the 180-day window established by EM Headquarters.	Obtained two sets of stormwater samples for pre-design studies and provided Pre-Design Study update to UEFPC Project Team. Completed the first semi-annual Peer Review on the Outfall 200 Project.
Y-12 Long Term S&M	The PCCR for Building 9206 Duct & Fan Removal was approved by the regulators.	

EM Project Update

Off-Site Cleanup/Waste Management	July	August
TRU Waste Processing Center	The DOE Office of Standards & Quality Assurance toured the site. The tour went well and resulted in no issues.	EPA conducted an audit of the new NDA unit and the contact-handled (CH) visual examination process resulted in no issues.
	Transuranic waste certification approval has been received from EPA and the project also passed their annual Performance Demonstration Program Non-Destructive Assay (NDA) certifications.	
	The Defense Nuclear Facilities Board toured the TRU Processing Center and Building 2026 at ORNL.	
EMWMF	Work continues on the EMWMF/EMDF Focused Feasibility Study.	Continue to focus on maintenance activities, installation of the enhanced operational cover, and preparing to receive the K-31 waste. Work continues on the EMWMF/EMDF Focused Feasibility Study.
EMDF	Began work for site preparation, which includes cutting top soil, removing debris, creating roads, and installing gravel. This work is critical to the Phase 1 characterization for hydrologic and geologic studies for regulatory approval of the site.	Road construction and site preparation continue. Roads are being constructed to facilitate installation of five monitoring well clusters. These wells will be used to measure water levels and to evaluate the hydrogeological suitability of the site.
Reindustrialization	The Integrated Project Team (IPT) for Proposed Land Transfer has been established to develop recommendations on the path forward associated with the proposed land transfer to the Metro Knoxville Airport Authority.	A Covenant Deferral Request (CDR) supporting transfer of the former K-33 area was transmitted to the regulators. This property consists of approximately 136 acres located in the northwest portion of the ETTP Heritage Center, including former site of the K-33 building.
	An agreement was made to pursue development of a title transfer agreement for Parcels ED-18 and ED-19.	
WRRP	Preparation of the revision to the 2014 RER and responses to regulator comments is underway.	Held meeting with EPA and TDEC to discuss responses to comments on the FY 2014 RER.
ORR Groundwater Strategy	The Groundwater Strategy Document was approved by the regulators.	The Groundwater RSE Work Plan was approved by the regulators.
	A meeting of the ORR Groundwater Model Technical Advisory Group Technical Committee was held to discuss model development and provide a progress update.	Work continued on development of a test case groundwater model. Model progress and recommendations will be discussed at September meetings of the Technical Advisory Group.

Abbreviations/Acronyms List for Environmental Management Project Update

AM – action memorandum

ARRA – American Recovery and Reinvestment Act

BCV – Bear Creek Valley

BG – burial grounds

BV- Bethel Valley

CARAR – Capacity Assurance Remedial Action Report

CBFO – Carlsbad Field Office

CERCLA – Comprehensive Environmental Response, Compensation
and Liability Act

CEUSP – Consolidated Edison Uranium Solidification Project

CD – critical decision

CH – contact handled

CNF – Central Neutralization Facility

CS – construction start

CY – calendar year

D&D – decontamination and decommissioning

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

FFA – Federal Facility Agreement

FPD – federal project director

FY – fiscal year

GIS – geographical information system

GW – groundwater

GWTS –groundwater treatability study

IROD – Interim Record of Decision

LEFPC – Lower East Fork Poplar Creek

LLW – low-level waste

MLLW – mixed low-level waste

MSRE – Molten Salt Reactor Experiment

MV – Melton Valley

NaF – sodium fluoride

NDA – non-destructive assay

NEPA – National Environmental Policy Act

NPL – National Priorities List

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

NTS – Nevada Test Site

OREM – Oak Ridge Office of Environmental Management

ORNL – Oak Ridge National Laboratory

ORO – Oak Ridge Office

ORR – Oak Ridge Reservation

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

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

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

VOC – volatile organic compound

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

Travel Opportunities

Meeting/Event	Dates	Location	Reg. Cost	Website	Conference Lock Date; # Allocated Attendees	Deadline to Submit Requests
FY 2015						
Spring Chairs Meeting (Pending requests: ___)	TBD	Savannah River site	none		N/A	
Intergovernmental Meeting with DOE (Pending requests: ___)	TBD	TBD	none			
Perma-Fix Nuclear Waste Management Forum (Pending requests: ___)	TBD	Nashville	\$500			
Waste Management Symposium (Pending requests: Smalling, Price)	March 15-19, 2015 (Early registration ends 12/31/14)	Phoenix	\$995	www.wmsym.org	11/1/14 (# attendees 2)	10/22/14
National Environmental Justice Conference & Training (Pending requests: ___)	TBD	Washington, D.C.	none	http://thenejc.org		
Ohio EPA National Brownfields Conference (Pending requests: ___)	TBD	Columbus, Ohio				
RadWaste Summit (Pending requests: ___)	TBD	Summerlin, Nevada	525	http://radwastesummit.com/		
Fall Chairs Meeting (Pending requests: ___)	TBD	Santa Fe, NM	none		N/A	
Western Waste Site Tour (Tentative requests: DeLong, Hagy, Hatcher, Lyons, Mei, Paulus, Price, Smalling)	Postponed pending resolution of issues at WIPP	Waste Isolation Pilot Plant, Nevada Nat'l Security Site	none	none		

Shading indicates closed trips