



Many Voices Working for the Community

Oak Ridge Site Specific Advisory Board

Approved September 10, 2014, Meeting Minutes

The Oak Ridge Site Specific Advisory Board (ORSSAB) held its monthly meeting on Wednesday, September 10, 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	Jennifer Kasten	Mary Smalling
Noel Berry	Jan Lyons	Wanda Smith
Alfreda Cook	Fay Martin	Coralie Staley
Lisa Hagy	Donald Mei	Scott Stout
Bob Hatcher	Greg Paulus	Wanfang Zhou
David Hemelright, Chair	Belinda Price	

Members Absent

Howard Holmes

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)
Kristof Czartoryski, Liaison, Tennessee Department of Environment and Conservation (TDEC)
Connie Jones, Environmental Protection Agency (EPA) Region 4 (via telephone)
Melyssa Noe, ORSSAB Federal Coordinator, DOE-ORO

Others Present

Sally Brown, Restoration Services, Inc. (RSI)
Spencer Gross, ORSSAB Support Office
Pat Halsey, DOE
Pete Osborne, ORSSAB Support Office
Claire Rowcliffe, Student Representative
Lynn Sims, RSI
Chris Thompson, TDEC

Five members of the public were present.

Liaison Comments

Mr. Adler – Mr. Adler reported on the status resuming shipments of uranium-233 from Oak Ridge National Laboratory to the Nevada National Security Site for disposal. Shipments have been on hold for several months because of concerns the state of Nevada has had regarding the safe transportation and disposal of the material. Negotiations have been underway for sometime between

DOE Headquarters and the state of Nevada to come to an agreement to resume shipments. Mr. Adler said the Oak Ridge Federal Project Director for the U-233 Project Bill McMillan described the negotiations as 'cordial and productive,' and he thinks progress has been made in resolving many of the concerns. Mr. McMillan hopes the situation will be rectified soon and shipments can resume. He will be at the October meeting to talk more about the project.

Work by the Groundwater Working Group is making good progress. Meetings have been held focusing on the development of large-scale groundwater models that could be used to predict the effects of off-site pumping of groundwater. Mr. Adler said the goal is to be able to determine if and when off-site groundwater usage should be restricted. The modeling could be used also in the design of cleanup projects for on-site contamination problems.

Mr. Adler said the EM & Stewardship Committee will receive a briefing on the Groundwater Working Group on September 17 at 6 p.m. at the DOE Information Center.

Mr. Adler said an off-site groundwater sampling program is being planned among DOE, TDEC, and EPA. Sampling is scheduled to begin in January. Local officials and affected property owners will be notified of the sampling plans.

At East Tennessee Technology Park (ETTP), work continues preparing the K-27 Building for demolition. The K-31 Building is ready for demolition. All of the asbestos-containing siding has been removed and prepared for shipment to the on-site landfill near Y-12 National Security Complex. Mr. Adler said there will be some characterization of the K-31 pad and demolition is expected to begin the first week of October. Demolition should be completed in a late winter to late summer timeframe depending on budget allocations for FY 2015. Mr. Adler said when K-31 demolition is complete there will be about 200 acres of land available for redevelopment at ETTP that has roads, power, and rail service that is necessary for industrial development.

Mr. Adler reported that DOE has responded to all ORSSAB recommendations.

Ms. Jones – Ms. Jones reiterated Mr. Adler's report on the progress of work at ETTP. She mentioned that DOE, EPA, and TDEC met recently on the proposed construction of a mercury treatment plant at Y-12. Mr. Adler expanded her comments by saying the leadership of EPA Region 4, TDEC in Nashville, and DOE had met to discuss a number of cleanup projects. He said some issues need to be resolved concerning the construction of the mercury treatment plant including its engineering configuration, treatment capacity, and how clean the water should be when it leaves Y-12. He said those kinds of issues need to be resolved prior to the construction start milestone in 2017.

Mr. Czartoryski – Mr. Czartoryski introduced Chris Thompson as TDEC's new deputy director for the Division of Remediation. She now has the responsibility previously held by John Owsley, who now serves as a senior advisor in the DOE Oversight Office.

He said Mr. Adler and Ms. Jones provided a good briefing of discussions among the three agencies.

Public Comment

None.

Presentation

Ms. Halsey and Ms. Brown provided presentations on the Oak Ridge EM Stewardship Program and the tools to track stewardship activities.

Ms. Halsey said her presentation would cover topics that are supportive of the Federal Facility Agreement (FFA) and the tools that support long-term stewardship. The FFA is an agreement among DOE, EPA, and TDEC that guides the cleanup of the Oak Ridge Reservation (ORR). The main points of Ms. Halsey's presentation are in Attachment 1.

In the early years of ORSSAB, the board formed the End Use Working Group Stewardship Committee to develop an outline for stewardship activities on the ORR. The committee wrote a definition of stewardship: *acceptance of the responsibility and the implementation of activities necessary to maintain long-term protection of human health and the environment from hazards posed by residual radioactive and chemically hazardous materials.* Anytime radioactive or hazardous materials are remediated and protected in place controls must be implemented to ensure the safety of the public and the environment. Land use controls are mechanisms to assure protectiveness (Attachment 1, page 3).

Stewardship requirements begin with a record of decision (ROD) for cleanup of an area. The ROD states what the eventual land use objectives and controls will be when cleanup is complete. A chart on page 4 of Attachment 1 explains engineering and land use controls. Ms. Halsey explained that land use controls can be implemented with the signing of a ROD. When the land use controls are implemented then stewardship tracking controls begin. Examples of land use controls are deed restrictions, excavation permits, postings, and fences.

Stewardship tracking information is compiled yearly in the Remediation Effectiveness Report (RER). The RER describes how well stewardship requirements are working and how land use controls are followed.

When engineering controls are completed (Attachment 1, page 4) a completion document is produced. The completion document includes all of the long-term stewardship requirements and how those requirements are reported. The RER, the Five-year Review, and the EM geographical information system (GIS) are all available to the public. The Five-year Review determines if protective measures are still working and appropriate for current conditions.

Ms. Halsey explained the primary documents in the FFA that are used for stewardship (Attachment 1, pages 5-6).

Ms. Halsey then described the tools used to report on long-term stewardship activities (Attachment 1, page 7). They include the GIS, the Oak Ridge Environmental Information System (OREIS), the Land Use Manager, and the Five-year Review. She said the GIS was developed for the public to view areas of the ORR where work is done. It provides links to fact sheets and any related documents. OREIS is a database of sampling that has been done on the ORR before and after signing of RODs.

In 2013 and 2014 two environmental baseline surveys were completed that identified areas of the ORR that have never had any evidence of federal operations. As a result of those surveys the Oak Ridge Site Description in Appendix B of the FFA was modified and the Appendix C of the FFA (Oak Ridge remediation sites) were decreased. Ms. Halsey explained that the ORR is what is owned by DOE. The Oak Ridge Site are any areas, on and off the Reservation, that have been determined to be contaminated by federal operations.

Ms. Halsey then demonstrated online the GIS and its various features.

After the GIS demonstration, Ms. Halsey talked about using OREIS, which is also publically available and required by the FFA.

A number of enhancements have been made to OREIS related to RODs and subsequent activities. For instance, a watershed exposure unit (EU) can be accessed to see what data have been collected for the unit. OREIS contains all data used to generate the RER. Enhancements to OREIS were made to ensure that data storage requirements and reporting were being met.

Ms. Halsey showed the main entry page for OREIS (Attachment 1, page 12). She pointed out the newly added spatial query tool (SQT). When the SQT is clicked it brings up the map shown on page 13. The blue dots are sampling locations. Any blue dot can be clicked and data related to that sampling location is available.

Ms. Halsey said shape files are being added to the SQT. She showed an example of a shape file for Melton Valley (Attachment 1, page 14). The shape files are the tan capped areas in Melton Valley. Shape files will be done for any area where contamination is left in place. Other samples of shape files are in Attachment 1, pages 15 and 17.

Ms. Brown's portion of the presentation was explaining the Land Use Manager (LUM), a web-based tool for tracking stewardship requirements of the Oak Ridge Site, specifically institutional and engineering controls. The main points of her presentation are in Attachment 2.

Ms. Brown works with the Waster Resources Restoration Program (WRRP), which is responsible for ensuring long-term stewardship remedies remain protective. It monitors and tracks land use and engineering controls and those controls are reported through the RER and Five-year Review.

WRRP also works with surveillance and maintenance programs, which implements controls, conducts site inspections, performs maintenance, and documents all that information in the LUM. WRRP relies on radiation control programs using DOE orders that protect radiologically contaminated areas (Attachment 2, page 2).

LUM is used to implement, track, maintain, and verify stewardship controls. There are more than 45 sites that have either engineering or land use controls that require tracking.

Features and system benefits of LUM are noted on page 5 of Attachment 2. Ms. Brown said the primary feature is efficient tracking and accountable records of regulatory requirements and compliance, which ensures nothing is missed. LUM provides automatic email reminders of inspections and maintenance requests. LUM is a paperless system that is taken into the field using durable laptop computers.

LUM provides a data repository for site information including types of controls, contaminant data, decision documents and other information related information. Ms. Brown said another benefit is that it has standardized data content and reports from across the ORR.

There are plans to make some of the information in LUM available to the public in OREIS. There will be a link on the OREIS home page to LUM maps (Attachment 2, page 6). These are interactive maps where a user can click on a part of the map and it will bring up information about the site (Attachment 2, page 7).

Ms. Brown showed screen shots of the LUM and how an inspector would use it in the field (Attachment 2, pages 8-16).

From the home page on page 9, an inspector would click on Quick Links, Inspections at the bottom of the screen. That would go to the next screen (page 10). In this example the screen shows what is

due to be done at Y-12 on Chestnut Ridge. At the bottom of the screen it shows all the inspections that are to be done, including the due date. In the example, the task chosen is Chestnut Ridge Security Pits. When that is clicked the next screen (page 11) is the inspection form. The inspector goes through each inspection item. The inspector can determine if each inspection item is compliant, deficient, or not inspected. If deficient is chosen it creates a site maintenance request, which shows in the example at the bottom of the screen. When the request is generated it is sent to the facility manager advising that a site maintenance request has been generated and the manager needs to initiate a remedy.

When finished, the inspector clicks the submit button. Another email is sent to the facility manager saying the inspection has been completed and the facility can approve the inspection. Page 12 shows the screen the facility manager would see every item that needs to be finalized. In the example, the facility manager clicks on the Chestnut Ridge Security Pits, which brings up the next screen, page 13, that shows everything is compliant, except the one deficiency for which a site maintenance request has already been generated. The manager would click on report status to finalize. The manager can follow up on the site maintenance request by picking the new request for the site. If there are a number of requests, they can be exported to an Excel file. By clicking on the pdf file, it generates a work order that is sent to a contractor to fix the problem.

The facility managers can access a map of the site and see what needs to be remedied.

Ms. Brown finished her presentation showing a photo of the notebooks of paper records that had to be kept prior to using the LUM (Attachment 2, page 17). She said it was a time consuming and cumbersome process that is now all done electronically.

After the presentations, a number of questions were asked. Following are abridged questions and answers.

Mr. Hatcher – Are there data in this system that would be useful in the groundwater modeling program that Mr. Adler reported on earlier? Ms. Sims – Yes, for the groundwater modeling we are retrieving the data from ORIES.

Mr. Hemelright – Regarding the LUM, are there any controls to ensure an inspector actually goes out and does the work? Ms. Sims – The request is sent to the supervisor and the supervisor validates it. That person is a responsible individual who goes into the field and checks it. Many of the site inspections for wells are teams and they go out and check together.

Mr. Paulus – Ms. Halsey, you said several times that OREIS is available to the public. Do you have counter to know how many times it's accessed? Ms. Halsey – Yes, on the screen when you first enter the system it shows a counter. We first started the count in 2006. Since that time we've had 57,834 people access it. Mr. Paulus – If I do a Google search will this information come up? Ms. Halsey – I have Googled for environmental information in Oak Ridge and a link to OREIS does come up.

Ms. Smith – Tell me more about the deeds. Ms. Halsey – The deeds show where we have to put use restrictions on that area. For instance in Melton Valley where we had to put caps on the waste buried there that tells future generations through publically available deed that digging is not allowed.

Mr. Czartoryski – I would like to add that OREIS also contains independent environmental monitoring data that was obtained by TDEC. I have a question about deed restrictions. What level of effort do we have to verify that deed restrictions are actually noted and recorded in county

offices? Ms. Brown – Annually for the RER, I go and check at the county registrar of deeds. For Anderson County, those records are online, so I check them online. For Roane County I go to the courthouse and check the Melton Valley deeds to make sure they are still available. I report in the RER that the deeds are checked annually and verify they are still in place and accessible.

Ms. Smith – Do people live in Melton Valley? Ms. Halsey – No, that part of Melton Valley is on ORR and no one lives on the ORR.

Committee Reports

Budget & Process – no report.

EM & Stewardship – Mr. Hatcher reported that the committee discussed an idea that came from the board's annual meeting about having the committee members visit sites where EM work is being done and meet with project managers who can discuss the work and how it is being done. Mr. Adler is developing a work plan that will include topics where tours can be set up.

At the September 17 committee meeting Dan Goode, the liaison to the board on the groundwater modeling effort, will report on the program.

Public Outreach – Ms. Lyons reported the committee did not meet in August. At its September 23 meeting it will develop its work plan for FY 2015.

Executive – Mr. Hemelright said the committee reviewed the major topics of discussion at the board's annual meeting. The committee specifically discussed ways to make board meetings more interactive, productive, and beneficial. One idea is to make changes in how recommendations are approved because current bylaws require two-thirds of the membership be present to vote on recommendations. Another idea is to reinstate refreshments at board to provide for more socialization and allow members who travel long distances to be able to have something to eat. He said there are some restrictions on this, but perhaps ways can be found to make it possible.

The decision was made to have the annual meeting at a location away from the DOE Information Center in 2015.

Ideas were discussed to increase member attendance at meetings. One idea was to make them less formal and shorter to encourage public participation. The ideas of having fewer meetings and changing venues within the area around Oak Ridge were discussed. The committee discussed the possibility of taking board meetings on field trips to where EM work is being done.

It was questioned if the annual meeting has to be held in August. At that time of year some members are not available. The bylaws currently call for an August annual meeting, so the bylaws would have to be amended if a change is desired.

A question was asked if funds could be made available to produce a video on the work of Oak Ridge Oral History Program. Mr. Hemelright said Mr. Adler is checking on that.

Announcements and Other Board Business

ORSSAB's next meeting will be Wednesday, October 8, 2014, at the DOE Information Center.

The minutes of the June 11, 2014, meeting were approved.

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

The EM SSAB Chairs' Recommendation on Funding was approved (Attachment 4).

The ORSSAB Recommendation on DOE Oak Ridge GIS Fact Sheets was approved (Attachment 5).

Mr. Hemelright, Ms. Lyons, and Ms. Hagy were elected chair, vice-chair, and secretary respectively for FY 2015.

Federal Coordinator Report

Ms. Noe reported that four people have resigned from the board (Carmen DeLong, Bruce Hicks, Sandra Lindsey, and Scott McKinney) and work is underway to recruit replacements for them. She asked if board members knew of anyone interested in becoming a member to let her or staff know.

Additions to the Agenda

None.

Motions

9/10/14.1

Mr. Paulus moved to approve the minutes of the June 11, 2014, meeting. Ms. Cook seconded and the motion passed **unanimously**.

9/10/14.2

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

9/10/14.3

Ms. Smalling moved to approve the EM SSAB Chairs' Recommendation on Funding. Ms. Cook seconded and the motion passed **unanimously**.

9/10/14.4

Mr. Hatcher moved to approve the ORSSAB Recommendation on DOE Oak Ridge GIS Fact Sheets. Mr. Stout seconded and the motion passed **unanimously**.

9/10/14/5

Ms. Price moved to approve the slate of candidates for officers for FY 2015 (Mr. Hemelright, chair; Ms. Lyons, vice-chair; and Ms. Hagy, secretary). Ms. Smith seconded and the motion passed **unanimously**.

The motions to consider two consecutive absences for Mr. Paulus and Ms. Smith were removed from the agenda as they were in attendance. The motion for two consecutive absences for Mr. Holmes was removed as Mr. Hemelright said Mr. Holmes had been ill and unable to attend meetings.

The meeting adjourned at 8:05 p.m.

Action items

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

Attachments (5) to these minutes are available on request from the ORSSAB support office.

I certify that these minutes are an accurate account of the September 10, 2014, meeting of the Oak Ridge Site Specific Advisory Board.

Dave Hemelright

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

October 9, 2014