



**Environmental Management &
Stewardship Committee Minutes
Wednesday, May 21, 2014, 6 p.m.
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Committee Members Present

Alfreda Cook
Carmen DeLong
Dave Hemelright
Bruce Hicks
Jennifer Kasten
Donald Mei
Belinda Price
Claire Rowcliffe
Ellen Smith
Corkie Staley, Co-Chair

Others Present

Sally Brown, UCOR/RSI
Pat Halsey, Department of Energy (DOE)
Sid Garland, UCOR/RSI
Spencer Gross, ORSSAB staff
Lynn Sims, UCOR/RSI

Absent

Jimmy Bell
Dale Bignell
Donna Campbell
Susan Gawarecki
Bob Hatcher, Co-Chair
Steve Kenworthy
Dick Ketelle
Roger Macklin
David Martin
Fay Martin
Gloria Mei
Lance Mezga
Norman Mulvenon
Bob Olson
Lorene Sigal
Ray Smith
Wanda Smith
Curt Walker

The order of topics on the agenda was modified to accommodate the speakers' schedules.

Update on Oak Ridge Geographical Information System and Status of National Priority List Boundary Definition Changes – Pat Halsey, DOE

Ms. Halsey reported on the DOE Oak Ridge geographical information system (GIS) and the status of the National Priority List (NPL) boundary definition changes for the Oak Ridge site.

The GIS is publicly available on the internet at <https://emgis.oro.doe.gov/>. The GIS helps define what is being addressed under the Federal Facility Agreement (FFA), which states what areas of the Oak Ridge Reservation (ORR) will be remediated.

When the ORR was placed on the NPL to be cleaned up under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), the entire reservation was on the NPL, but only a portion of the reservation is contaminated.

Efforts have been underway for some time to redefine the NPL boundaries to identify and exclude areas that are free of contamination. Two Environmental Baseline Surveys (defined under CERCLA 120(H)) were completed and approved by the FFA parties – DOE, the Environmental Protection Agency, and Tennessee Department of Environment and Conservation (EPA, TDEC) – as unimpacted land on the ORR.

Ms. Halsey said the approval required the modification of Appendices B and C of the FFA. She said when the FFA was first approved in 1991, Appendix C included everything within the boundaries of the ORR, plus Lower East Fork Poplar Creek, the Clinch River down to Watts Bar Dam, and even the site of the old hospital in Oak Ridge. The modified Appendix C is a listing of areas that is known to be addressed under CERCLA. She said that if contamination is discovered later in areas that are not currently in Appendix C, the appendix will be modified again to include those areas.

Appendix B now includes a map of the ORR and a new map showing the the areas of the ORR determined to be free of contamination and areas that require attention under CERCLA. The areas the require attention or are suspected of having contamination are considered the Oak Ridge Site. Appendix B also references the availability of the GIS map to the Stakeholders.

Ms. Halsey provided links to the FFA and the GIS (Attachment 1). She accessed the GIS and showed the committee members the various features of the GIS.

The GIS shows a satellite photograph of the Oak Ridge area. By using the layers tab on the tool bar at the top of the page various features can be viewed and turned on or off. The layers show boundaries for the ORR, the Oak Ridge Site, plant boundaries, clean areas, streams, groundwater flow, and contaminated plumes.

By clicking the OR Site information icon on the tool bar and then clicking on an area, if there are documents available on the area a window pops showing what documents are available and with embedded links to the documents. Some of the documents are fact sheets on the areas that are somewhat or totally accessible to the public and each defined watershed. Ms. Smith noted it would be helpful to the public if the the fact sheets identified future remediation actions expected or planned.

Update on Groundwater Strategy Document

Ms. Sims reported that the D2 version of the Groundwater Strategy document (DOE/OR/01-2628&D2, volumes 1 and 2) was submitted to EPA and TDEC in March for the agencies to review.

The D1 version was submitted in September 2013 and the agencies provided a number of comments on the document. Ms. Sims said DOE worked closely with the agencies to resolve any issues with the comments. The D2 reflects resolution of the comments with shading. She said the comments were wide ranging, but nothing that changed the basic strategy. The changes were primarily in phrasing and adjustments in responsibilities.

To date DOE has not heard from the agencies. If there are no additional comments the document will be considered final.

Update on Land Use Manager – Sally Brown, RSI

Ms. Brown updated the committee on the implementation of the Land Use Manager (LUM), an automation tool that tracks institutional and engineering controls for long-term stewardship (LTS) of remediated areas.

Ms. Brown has made presentations to the former Stewardship Committee about LUM but before it had been fully implemented.

She began by saying that LTS of remediated areas with waste left in place is the longest phase of the Environmental Management Program. It begins with decision documents that require engineering and land use controls (Attachment 2, page 2, slide 1). LTS begins with the approval of the decision documents. LTS includes tracking controls, maintaining sites, inspecting controls, and verifying controls are in place.

All LTS information is compiled yearly in the Remediation Effectiveness Reports. LTS requirements are evaluated for effectiveness in the Five-year Reviews.

The first remedial actions were completed in 1991. In 2011, 45 sites were being managed. By the time of the third Five-year Review in 2011, 200 inspections were being done each year, and the information was recorded and tracked manually.

The Water Resources Restoration Program reported this to the Stewardship Committee and made the committee aware of a system that tracks LTS information much easier. The committee drafted a recommendation, that ORSSAB approved, asking DOE to adopt the tracking system.

In FY 2012, DOE contracted with Mijara Corporation to implement the system. In FY 2013 test inspections with LUM began and it is now the official way of tracking LTS on the ORR. It currently tracks 45 sites at East Tennessee Technology Park, Oak Ridge National Lab (ORNL), and Y-12 National Security Complex, and some off-site locations (Attachment 2, page 2, slide 2).

Ms. Brown said the LUM provides a standard process for tracking LTS at the various sites and incorporates information gathered from various agencies (Attachment 2, page 3). Y-12 inspectors use durable laptop computers that they take into the field. ORNL inspectors use touch-screen laptops.

Ms. Brown enumerated the important elements of LUM (Attachment 2, page 4, slide 1). She said an important element is tracking metrics, particularly related to the condition and quality of groundwater.

A land use management map is linked in the Oak Ridge Environmental Information System (<http://www-oreis.ettp.energy.gov/oreis/help/oreishome.html>). The GIS maps show land use restrictions and fact sheets, similar to the Oak Ridge GIS.

Ms. Brown showed the committee several screen shots of the LUM computer and how inspectors use them (Attachment 2, pp 5-9). The inspectors go through the pages they are responsible for and complete the information, which is then sent to the facility manager. If something needs attention the inspector can ask for a site maintenance request.

Page 10 of Attachment 2 shows a photograph of the LUM durable computer and a few of the notebooks that were formerly used to track LTS.

Ms. Cook asked if a cost savings analysis had been done. Ms. Sims that hasn't been done, but if LUM had not been implemented inspectors would not be able to keep with inspections, so in that regard it has saved time and money.

Mr. Hemelright asked how many units are in use. Ms. Brown said Y-12 has 10 durable laptops and ORNL has two touch screens laptops.

Ms. DeLong said it would be useful if the metrics tracking could be shown graphically to see trends over the years.

Mr. Hicks thought it would be useful for the presentations on the GIS and LUM to be given at a full board meeting to help inform people of some of the things that are being done on the ORR.

Discussion of any possible recommendations on Land Use Manager, GIS, and NPL Boundaries

Regarding Ms. Smith's suggestion about the fact sheets identifying any future actions expected or planned, she will draft a recommendation to present to the committee at the next meeting.

Regarding Ms. DeLong's suggestion about graphically showing tracking metrics in the LUM Ms. Brown and Ms. Sims said that is something that can be incorporated as the metrics are being developed.

Input on next month's topic: Long-term Groundwater Contamination Management and Stewardship at Y-12 National Security Complex

Mr. Hicks said he would like to see a comparison of what is being done within the Y-12 Plant regarding mercury remediation and how that translates with what's going on with mercury beyond the confines of the plant.

Action Items

1. Ms. Smith will draft a recommendation that GIS fact sheets identify future actions expected or planned.

Public Comment

None.

The meeting adjourned at 7:42 p.m.

Attachments (2) are available through the ORSSAB office.

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