

# Oak Ridge Site Specific Advisory Board Monthly Meeting



**Wednesday, March 13, 2013**  
6 p.m., DOE Information Center  
1 Science.gov Way  
Oak Ridge, Tennessee

The mission of the Environmental Management (EM) Site Specific Advisory Board (the Board) at Oak Ridge, Tennessee is to provide meaningful opportunities for collaborative dialogue among the diverse multicultural communities surrounding the Oak Ridge Reservation, EM, and the U.S. Department of Energy (DOE) Oak Ridge Office (ORO). The Board is chartered under the EM Site Specific Advisory Board Charter. At the request of the Assistant Secretary, the ORO Manager, or the ORO EM Manager, the Board may provide informed advice and recommendations concerning the following EM site-specific issues: cleanup standards and environmental restoration, waste management and disposition, stabilization and disposition of non-stockpile nuclear materials, excess facilities, future land use and long-term stewardship, risk assessment and management, and cleanup science and technology activities. The Board may also be asked to provide advice and recommendations on any other EM project or issue. The Board ensures early, ongoing community access to information (and its interpretation and implications) and dialogue that improves the quality of the decision-making process of EM and ORO.

# CONTENTS

## AGENDA

### PRESENTATION MATERIALS –

- Overview of the DOE Procurement Process
- Transfers and Leases Reindustrialization Program in Oak Ridge, Tennessee

### BOARD MINUTES/RECOMMENDATIONS & MOTIONS

1. February 13, 2013, draft meeting minutes
2. Recommendation on Remaining Legacy Materials on the Oak Ridge Reservation
3. Proposed Amendment to the ORSSAB Mission Statement
4. Proposed Addition of a Vision Statement to the ORSSAB Bylaws

### REPORTS & MEMOS

1. Recommendation Tracking Chart
2. FY 2013 Travel Opportunities
3. EM Projects Update
4. Abbreviations/Acronyms for EM Projects Update
5. Trip Report – Dave Hemelright, Waste Management Symposium
6. Trip Report – Fay Martin, Waste Management Symposium



**Oak Ridge Site Specific Advisory Board**  
**Wednesday, March 13, 2013, 6:00 p.m.**  
**DOE Information Center**  
**1 Science.gov Way, Oak Ridge, Tenn.**

**AGENDA**

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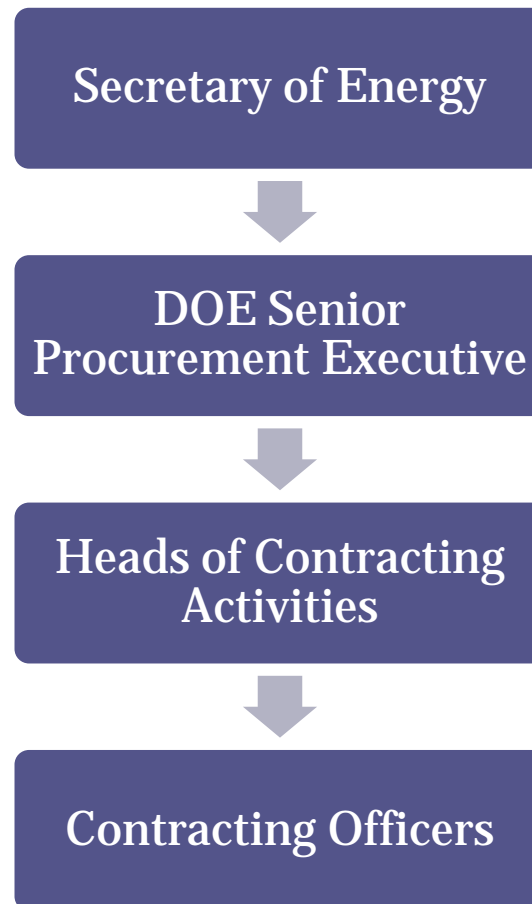
- I. Welcome and Announcements (D. Martin) ..... 6:00–6:05
  - A. Next Meeting: Wednesday, April 10, 6:00 p.m., DOE Information Center  
Presentation Topic: Environmental Management Portfolio Plans
  - B. Introduction of New Members (S. Cange)
  
- II. Comments from the Deputy Designated Federal Officer, and the DOE, EPA, and TDEC  
Liaisons (S. Cange, D. Adler, C. Jones, J. Owsley)..... 6:05–6:20
  
- III. Public Comment Period (S. Yahr) ..... 6:20–6:30
  
- IV. Presentation: Environmental Management’s Approach to Contracting (Barbara Jackson);  
Transfer and Development of Properties at East Tennessee  
Technology Park (Brian Henry)..... 6:30–7:05  
Question and Answer Period ..... 7:05–7:20
  
- BREAK..... 7:20–7:30
  
- V. Additions/Approval of Agenda..... 7:30
  
- VI. Motions ..... 7:30–7:35
  - A. February 13, 2013, Meeting Minutes (C. Jensen)
  - B. Recommendation on Remaining Legacy Materials on the Oak Ridge  
Reservation (D. Hemelright)
  - C. Second Reading—Amendment to the ORSSAB Mission Statement (D. Martin)
  - D. Second Reading—Addition of a Vision Statement to the ORSSAB Bylaws (D. Martin)
  
- VII. Responses to Recommendations & Comments (D. Adler)..... 7:35–7:40
  
- VIII. Committee Reports..... 7:40–7:50
  - A. Board Finance & Process (T. Valunas)
  - B. Environmental Management (B. Hatcher)
  - C. Public Outreach (S. McKinney)
  - D. Stewardship (C. Staley)
    - 1. Center for Oak Ridge Oral History (C. Staley)
  - E. Executive (D. Martin)
  
- IX. Federal Coordinator’s Report (M. Noe) ..... 7:50–7:55
  
- X. Additions to Agenda ..... 7:55–8:00
  
- XI. Adjourn ..... 8:00

# Overview of the DOE Procurement Process

Barbara J. Jackson  
Director  
Procurement and Contracts Division  
Oak Ridge Office

March 13, 2013

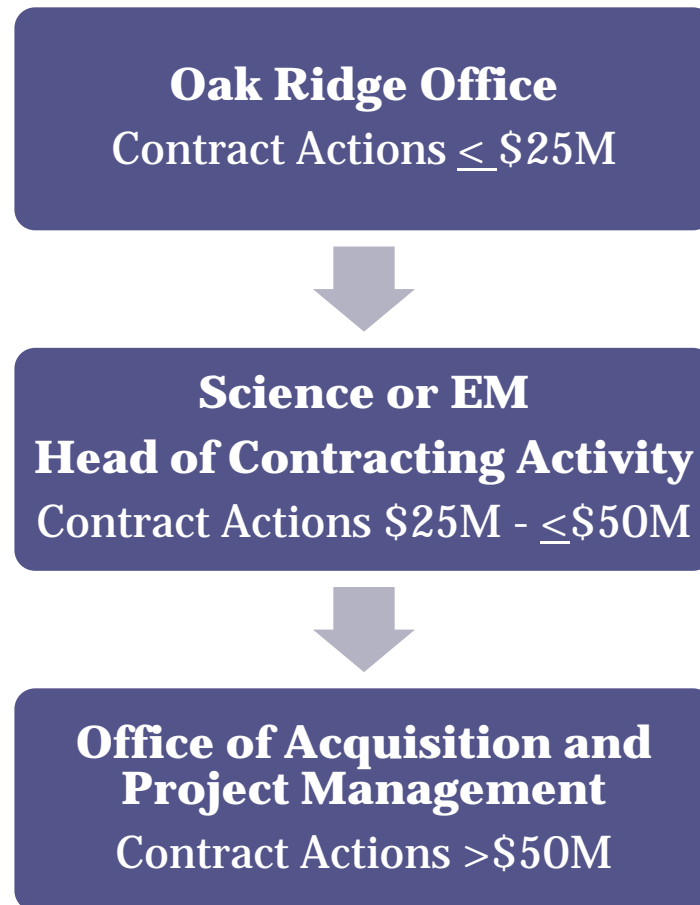
# DOE Flow Down of Contracting Authority



# DOE Procurement Rules and Regulations

- **Federal Acquisition Regulations (FAR)**
- **Department of Energy Acquisition Regulations (DEAR)**
- **DOE Acquisition Guide**

# Procurement Authority



# Small Business Participation

**It is the policy of the Government to provide maximum practicable opportunities to small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, and women-owned small business concerns**



# DOE Procurement Process

- Identify Requirements
- Define Requirements
- Conduct Market Research
- Acquisition Planning
- Request for Proposals
- Evaluate Proposals
- Award Contract

# Identify Requirements

- **Three-Year Procurement Forecast**
- **Updated Annually**

# Define Requirements

- **Draft Statement of Work**
- **Independent Government Estimate**
- **Draft Evaluation Criteria**
- **Funding**
- **Draft Acquisition Plan**

# Conduct Market Research

Results are used to determine if:

- Capable sources exist, including small business participation
- Commercial items are available

Types of market research may include:

- Publishing formal requests for information
- Querying Government-wide databases
- Reviewing catalogs and other generally available product literature
- Conducting interchange meetings or holding presolicitation conferences

# Acquisition Planning

Addresses the technical, business, management, and other significant considerations, such as:

- Applicable conditions and restraints
- Cost and Delivery or performance period requirements
- Risks
- Acquisition streamlining
- Competition (and a justification if non-competitive)
- Contract type
- Benefits of contractor versus government performance
- Security considerations

# Request for Proposals

- Includes the proposed contract, instructions for proposals, and evaluation criteria
- Proposals may be solicited from one or more companies based on the results of market research

# Evaluate Proposals

Proposals are evaluated in accordance with the defined criteria included in the Request for Proposals. At a minimum, the following must be evaluated:

- Cost
- Past performance
- Quality
- Participation of small disadvantaged business concerns (in unrestricted acquisitions)

It may also include:

- Evaluation of key personnel
- Evaluation of company experience
- Evaluation of technical approach

# Award Contract

**A contract is awarded based upon the Government's evaluation of the proposal in accordance with the Request for Proposals. This can be based on:**

- **Best Value**
- **Lowest Price, Technically Acceptable**





Questions?

# Transfers and Leases Reindustrialization Program in Oak Ridge, Tennessee



Brian Henry  
*Chief, Reservation Management Branch  
US DOE- Oak Ridge*

March 13, 2013



MOVING TO THE FUTURE BY CLEANING UP THE PAST

# Reindustrialization Vision and Mission

## Vision

By 2017, the Oak Ridge Reindustrialization Program will further its position as the model for sustainable innovative reuse of DOE assets.

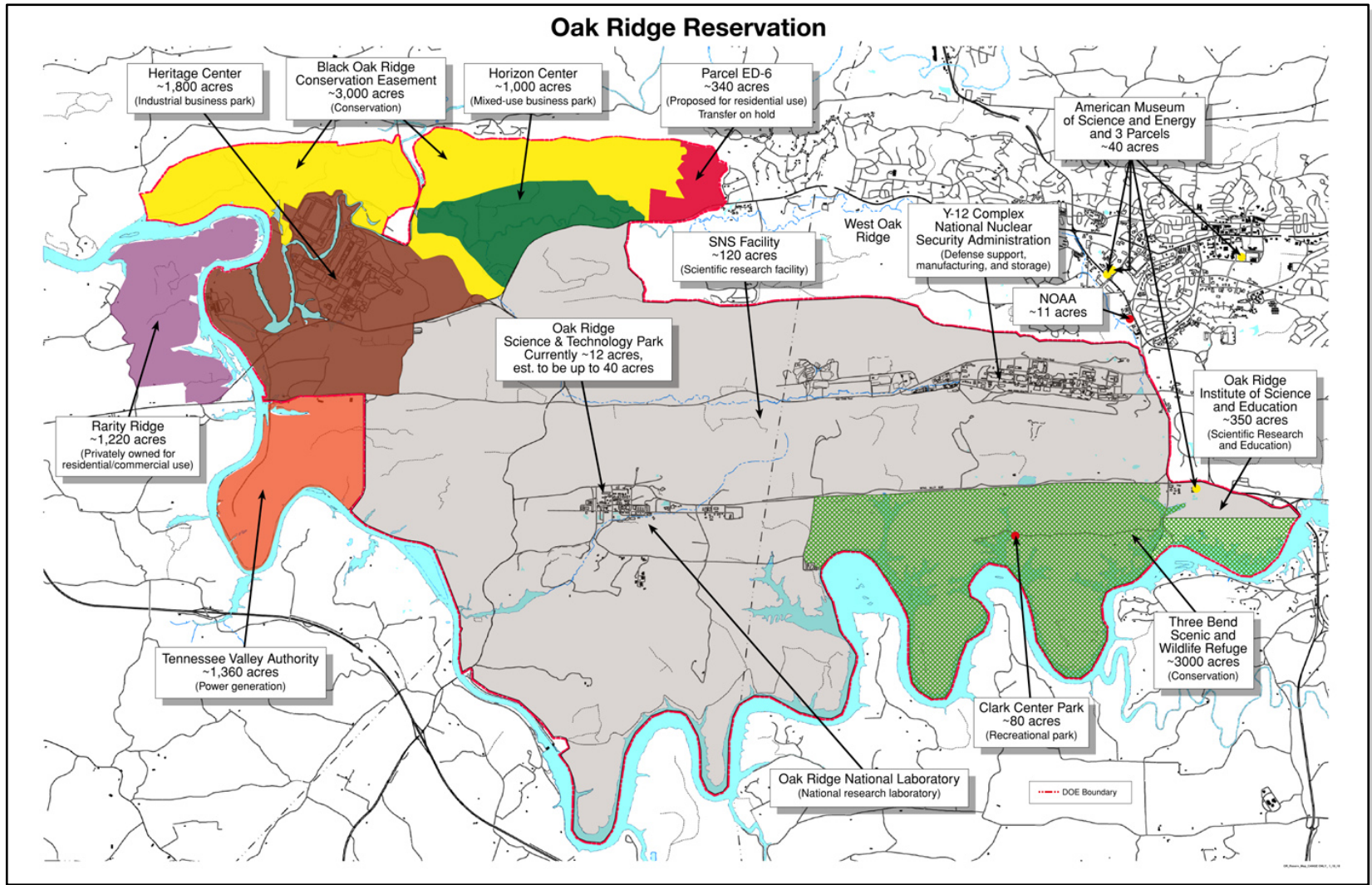


## Mission

Apply our expertise to accelerate clean-up and promote economic development by making underutilized DOE assets (e.g., buildings, land, equipment, and technology) available to enhance the development of private sector business in the region.



# Oak Ridge Reservation



MOVING TO THE FUTURE BY CLEANING UP THE PAST

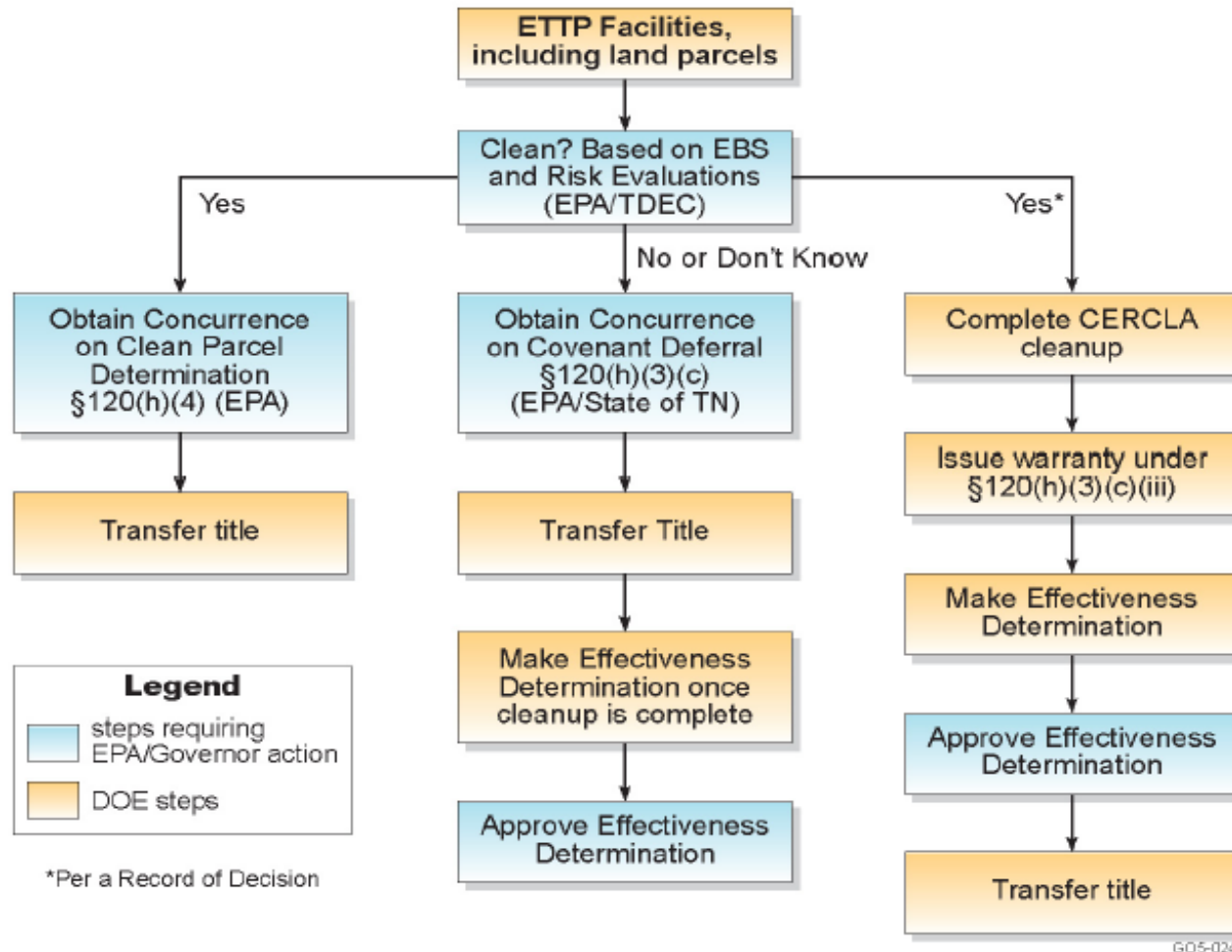
# Lease Activities

## High Level Lease Process

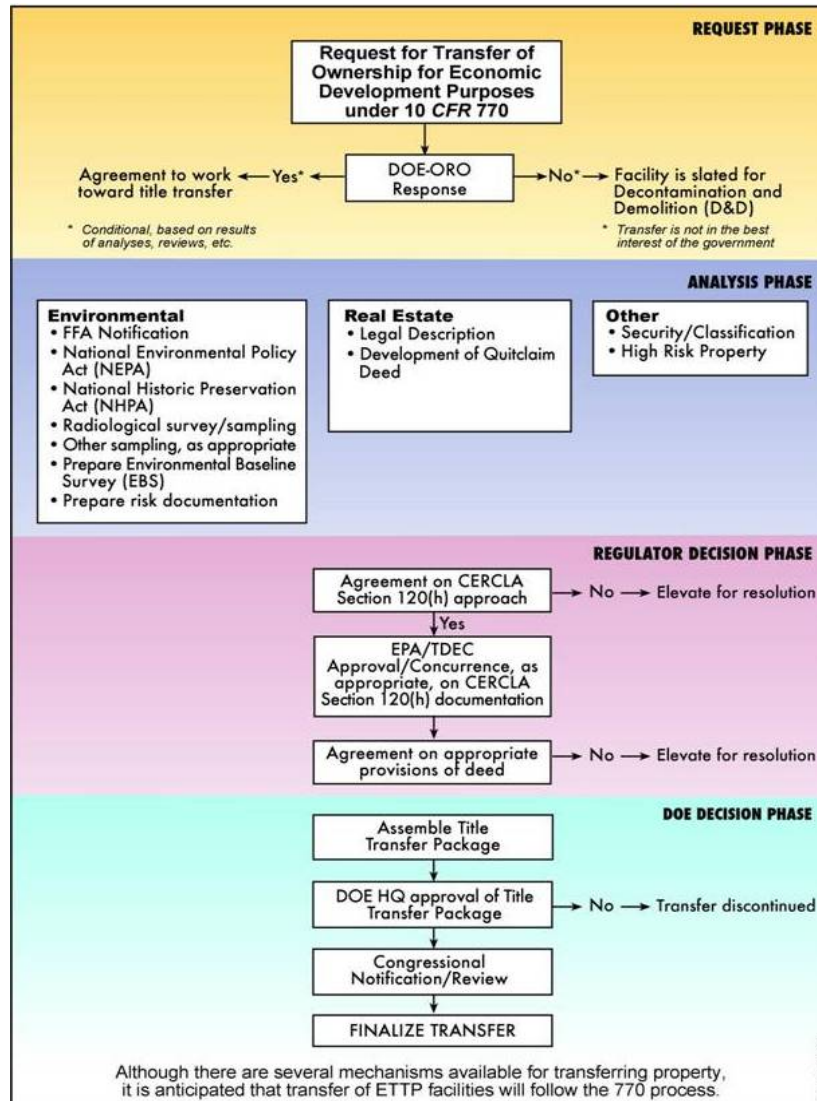
1. Receive Request for Lease
2. Establish a Footprint and a Target Lease Date
3. Lease Cycle Cost Analysis
4. Environmental Review Checklist and Hazardous Evaluation Worksheet
5. FFA and HQ Notification
6. Development of a Baseline Environmental Analysis Report (BEAR) - Draft BEAR is transmitted to regulators 30 days prior to lease
7. NEPA and NHPA Review
8. Determine Effects, if any, on DOE Permits
9. Realty Office develops lease agreement and executes



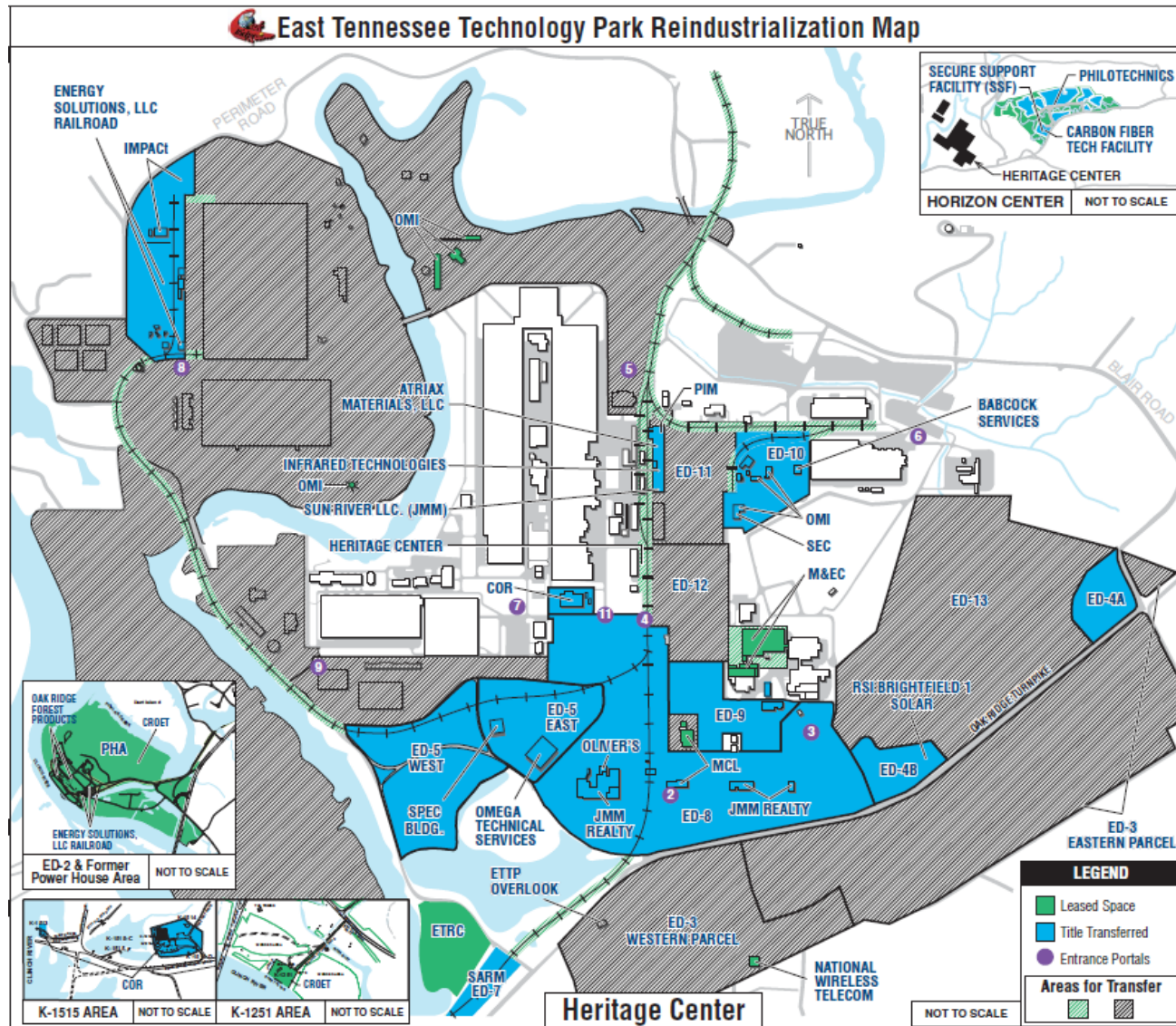
# CERCLA Transfer Approaches



# Phases of Transfer Process



# ETTP Lease/Transfer Map



MOVING TO THE FUTURE BY CLEANING UP THE PAST



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*Many Voices Working for the Community*



# Oak Ridge Site Specific Advisory Board

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## Unapproved February 13, 2013 Meeting Minutes

The Oak Ridge Site Specific Advisory Board (ORSSAB) held its monthly meeting on Wednesday, February 13, 2013, 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](http://www.youtube.com/user/ORSSAB/videos).

### Members Present

Jimmy Bell  
Lisa Hagy  
Janet Hart  
Bob Hatcher  
David Hemelright, Vice  
Chair

Bruce Hicks  
Chuck Jensen, Secretary  
Jennifer Kasten  
David Martin, Chair  
Fay Martin  
Scott McKinney

Donald Mei  
Greg Paulus  
Robert Stansfield  
Coralie Staley  
Scott Stout

### Members Absent

Alfreda Cook  
Howard Holmes  
Ross Landenberger<sup>1</sup>  
Jan Lyons  
Thomas Valunas  
Sam Yahr<sup>1,2</sup>

<sup>1</sup>Student Representative

<sup>2</sup>Second Consecutive Absence

### Liaisons and Federal Coordinator Present

Dave Adler, Liaison and Alternate Deputy Designated Federal Officer, Department of Energy-Oak Ridge Office (DOE-ORO)

Connie Jones, Environmental Protection Agency (EPA), Region 4

Melyssa Noe, ORSSAB Federal Coordinator, DOE-ORO

John Owsley, Tennessee Department of Environment and Conservation (TDEC)

### Others Present

Susan Gawarecki  
Spencer Gross, ORSSAB Support Office  
Pete Osborne, ORSSAB Support Office  
Alan Stokes, DOE

Nine members of the public were present.

**Liaison Comments**

Mr. Adler – Mr. Adler reported that demolition of the North Tower of the K-25 Building at East Tennessee Technology Park (ETTP) had been completed on January 23 and the remaining debris is being disposed at the waste disposal facility in Bear Creek Valley. All that remains of K-25 are five units that made up the lower east wing of the building that are contaminated with technetium-99. Mr. Adler said a report on the first six months of historic preservation efforts at ETTP will be issued soon. The report describes what has been done as part of a memorandum of agreement that was signed in the summer of 2012 among DOE and other interested parties. He said the report speaks primarily to procurement and design activities for a planned virtual museum and other historic interpretation features that will be added around ETTP.

Mr. Adler said DOE EM still does not have a complete funding profile for FY 2013 as the federal government is currently working under a continuing resolution using FY 2012 budget allocations.

Mr. Bell said there is interest by DOE in how to dispose of spent nuclear fuel from commercial reactors. He believes a good repository for such material would be in the remaining K-31 Building at ETTP. He said the advantage would be that much spent fuel from 15-20 reactors around the country could be shipped by water to the site, which would result in the creation of a number of jobs for the area. Mr. Bell wondered if this was an area that the board could provide input.

Mr. Adler said DOE has two separate programs for dealing with waste. EM is responsible for cleaning up sites and sending waste away for disposition. Another program is responsible for finding repositories for waste. What Mr. Bell mentioned would be out of the purview of EM. Mr. Adler said the board, if it so desired, could make a recommendation to DOE EM suggesting that ETTP be used for the purpose of a repository. He said, however, that would be a very controversial proposition.

Mr. Martin asked if this was a topic the board should follow up on in committee. There was no other suggestion to pursue the topic from board members.

Mr. Owsley – no comments

Ms. Jones – Ms. Jones said negotiations are ongoing between DOE-ORO EM and EPA regarding certain milestones. This is not regarding the uncertainties of budget but project priorities.

Ms. Jones said in addition to the demolition of the K-25 Building other remedial actions are underway at ETTP. She mentioned work being done around the closed Toxic Substances Control Act Incinerator and the Central Neutralization Facility.

**Public Comment**

None

**Presentation**

Mr. Stokes' presentation was on the FY 2015 DOE-Oak Ridge EM Program Budget and Prioritization. The main points of his presentation are in Attachment 1.

He began by saying his ability to answer questions board members may have about the budget are limited because of the uncertainties in the government's current budgeting process.

Mr. Stokes said the federal government operates on a fiscal year running from October 1 to September 30. He said this time last year DOE EM knew what the appropriation for FY 2012 was from Congress. For FY 2013 the budget has been appropriated only through March. He said there is much speculation about how much will be appropriated for the remainder of FY 2013.

Regarding development of the FY 2014 budget, Mr. Stokes said this time last year the President had presented to Congress his budget request. The President has not yet submitted a budget to Congress for FY 2014.

Mr. Stokes said normally guidance on preparing a budget request for FY 2015, which is developed two years ahead of time, would have been received from DOE Headquarters. Guidance has not been received yet. Mr. Stokes said it could be one to two months before guidance is received. Even though guidance has not been received, planning has been underway to develop an FY 2015 budget request.

Mr. Stokes showed a timeline explaining the budget process (Attachment 1, page 2). The process for developing an FY+2 budget request begins in January with budget guidance issued to sites. Using that guidance the sites begin developing their budget requests between January and the end of March. During this time input is provided to the sites from stakeholders. In the case of Oak Ridge that is EPA, TDEC, and ORSSAB. Budget requests are submitted between the end of March and about the middle of May. After requests are submitted they become embargoed and no information is available about deliberations among the sites, DOE Headquarters, and the Office of Management and Budget (OMB). Budget requests are submitted to OMB in the August/September timeframe. Negotiations go back and forth between OMB and all the other federal agencies until a budget is finalized the following January. The President will submit the proposed budget for FY 2015 to Congress in February 2014.

Mr. Stokes showed the budget request submitted to Congress for DOE-ORO EM for FY 2013 was \$421 million (Attachment 1, page 3). What has been appropriated thus far is \$198 million under Congress' continuing resolution. Mr. Stokes explained that a continuing resolution is what Congress appropriates for a portion of a fiscal year in which a full budget has not been approved. The continuing resolution is based on the previous fiscal year appropriation. He noted that the continuing resolution appropriation of \$198 million for the first half of FY 2013 is not quite half of the request of \$421 million. He said the \$421 million is what DOE-ORO EM had been planning for. That shortfall has had impacts on work at ETTP. Specifically some work planned for K-25 and K-27 has been slowed because of the lessened appropriation than what was expected. There is still about \$50 million of Recovery Act money left over that will be used this fiscal year.

Mr. Stokes showed a comparison of what was received by DOE-ORO EM in FY 2012 and what was requested for FY 2013 (Attachment 1, page 4). He said DOE-ORO gets two appropriations from Congress. The Defense EM appropriation is divided among all DOE sites. The D&D (decontamination and decommissioning) Fund is divided among DOE-ORO and the Lexington Office, which includes Portsmouth, Ohio, and Paducah, Ky.

In the Defense Funding are five separate accounts. Money may not be moved among accounts without permission.

Mr. Stokes noted that in FY 2012, \$37 million had been received for uranium-233 disposition. For FY 2013 \$30 million requested for U-233 disposition had been placed into the waste disposition account, which allows for more flexibility in moving money among projects if needed.

He noted that ORSSAB is funded out of the Stakeholder Support account along with grants to TDEC.

Mr. Stokes said it is not known how much DOE-ORO will receive for the second half of FY 2013. The worst case would be a 5 to 7.5 percent reduction in what was received in FY 2012, about \$394 million for the entire year.

Mr. Stokes said in developing budgets, work is broken down by work that needs to be done and the work is prioritized. He showed the guiding principles for project prioritization (Attachment 1, page 5).

Mr. Stokes showed DOE-ORO near term priorities for FY 2013-15 (Attachment 1, page 6). He said complete demolition of K-25 and removal of debris is expected to be completed by 2015, assuming there are no further funding cuts over the next two years.

Mr. Stokes said the planning for Y-12 Outfall 200 Mercury Treatment System is a new concept to capture mercury leaving the Y-12 National Security Complex. He said his estimate for that system is \$100-\$150 million and four to five years to implement.

He showed mid-term activities for FY 2016-26 and long-term activities for FY 2027-2043 (Attachment 1, page 7). He said complete closure of ETTP will free up much money that can be applied to cleanup work at Oak Ridge National Lab and Y-12.

Mr. Stokes showed the path forward for the FY 2013-15 budgets (Attachment 1, page 8). A public workshop on the budget development has not been scheduled yet, but probably in March. The submittal of the FY 2015 budget request to DOE Headquarters usually is scheduled for April, but he said it would probably be submitted in May.

After Mr. Stokes' presentation a number of questions were asked. Following are abridged questions and answers.

Mr. Hatcher – How do you make your projections for the rest of the fiscal year when you have nothing to work with? Do you model based on what you have on hand or on last year's budget? Mr. Stokes – We have work under contract that is already underway. If we continue that level of operations we know what our costs will be. We get some preliminary planning numbers from headquarters and we're running many planning scenarios based on best case/worst case appropriations. Right now we're planning toward the worst case.

Mr. Paulus – You really can't do the budget process until you find out what your 2013 budget is and find out what your target is in the 2014 budget. Does headquarters allow you to take your targets and milestones and move them to the left or to the right based on how delinquent they are in giving you information? You still have to meet your deadlines in having this done by mid-April. Mr. Stokes – Headquarters is trying to catch up as well. Once their process starts flowing again that will flow down to us. We'll have time. That doesn't stop us from planning in anticipation of getting a number. We're doing that so we don't have to start from scratch. It's just a matter of tweaking that planning based on what final numbers we get from headquarters.

Mr. Bell – What is being done at ETTP with safeguards and security that costs \$20 million (Attachment 1, page 4)? I don't believe there is anything out there that is confidential in terms of technology. Mr. Stokes – It consists of a variety of safeguards and security activities, but most of it is for the guard force. A vulnerability assessment is done as to what is a security risk that drives the number of guards needed. Our risk doesn't drop until K-25 and K-27 are demolished. It also funds security clearances for workers. It funds cyber security and counter intelligence. Mr. Adler – The reality is a lot of the technology at the site remains classified, even though that kind of technology to enrich uranium is no longer in wide use. There are also residues of enriched uranium in the systems at K-27 that have to be guarded.

Mr. Bell – Where is the uranium-233 being disposed? Mr. Adler – Any of the U-233 that can be used by some other program is provided. The balance is downblended and disposed at the Nevada National Security Site.

Mr. Bell – Regarding the mercury treatment system at Y-12, why treat the water leaving the system rather than attacking the source? Mr. Adler – The cost for a treatment system is in the range of \$100-\$150 million. The cost to get at the source is in the range of \$1-1.5 billion. We need to get to the sources eventually, but recent projects have indicated that when you go in and start tearing things down you tend to kick up some mercury that is then flushed out of the site. The treatment system should result in some relatively near term reductions of mercury discharges and setting up a capture system that will deal with fugitive releases as we D&D the facilities in the future. That has been a fundamental shift in approach to that problem. Mr. Stokes – And it will takes years to get to the sources and eliminate them.

Ms. Gawarecki – Where in the prioritization is the proposed second waste disposal facility on the reservation? Mr. Stokes – That’s in the mid-term activities (FY 2016-2027). We realize we’re going to need additional disposal capacity in the mid-term and long-term timeframes.

Ms. Gawarecki – Back in 2007 DOE agreed with TDEC that it would fund cleanup in the range of \$500-\$550 million a year. Has the state formally released DOE from that agreement? Mr. Owsley – Yes, the latest agreement we have establishes an expectation of \$420 million a year for the next five years and then a nominal escalation rate from 2018 through 2043.

Ms. Gawarecki – What is being done to raise Oak Ridge’s priority at the national level? Other sites have much higher budgets, yet we have higher population densities and more difficult cleanup problems. Mr. Stokes – Mark Whitney (DOE-ORO manager of EM) and Sue Cange (deputy manager of EM) continue to make the case to headquarters that Oak Ridge is investment worthy, that we do have serious priority needs, and we would be warranted in getting additional funding. In FY 2012 we did better in FY 2011 and some of that is fruit of their labors. Demolition is the lowest priority at DOE Headquarters. We realized at most sites their excess buildings are not nuclear category buildings like we have. We are not sure that point has been made to headquarters sufficiently that distinguishes us from other sites. We’re going to start making that point.

Ms. Gawarecki – Is there a disposal pathway for the technetium contaminated debris in the remaining sections of K-25? Mr. Adler – At one point the thinking was that most or all of the remaining tech-99 contaminated sections would have to be disposed out west at significant cost. A lot of work has been done to understand where the technetium is in those sections. We’re learning that significant portions of the sections may eligible for disposal in the Environmental Management Waste Management Facility near Y-12. The technetium is largely concentrated in a few areas. Of the five units that remain it appears the first two are in pretty good shape for disposal on site. In the remaining three if we can selectively remove portions where technetium is concentrated, what would be left appears to be eligible for local disposal. That’s not agreed upon yet. We’re working with EPA and TDEC on that. Mr. Owsley – When DOE, EPA, and TDEC come to an agreement on an appropriate level of characterization, the equipment that meets the onsite disposal criteria will be eligible for onsite disposal. But the state is not prepared to modify the technetium criteria to allow more waste to go in the onsite facility.

Ms. Gawarecki – I had heard that K-27 contains quite a bit more technetium than K-25. Ms. Jones That had been the theory that operations at K-27 had caused a lot more contamination in the building. We haven’t had the opportunity to characterize K-27 to the extent that we have K-25, so that’s still an unknown.

Mr. Paulus – You mentioned the problems of prioritization at headquarters for Oak Ridge. Are you comfortable that you have the support of the Tennessee senators and Congressional delegation from this area in making your case? Mr. Stokes – Yes.

## **Committee Reports**

**Board Finance & Process** – Mr. Paulus reported that the board's budget was in good shape.

He said the committee will meet to draft a recommendation on DOE-ORO EM's FY 2015 budget request. A date for that meeting has not been set. Mr. Adler said he thought he would be prepared to work with the committee on that topic at its next scheduled meeting date on March 5. Normally, the committee would meet on February 28, but because Mr. Adler will be out of town on that date, the committee moved its meeting date to March 5. Mr. Adler said the timing of March 5 is good, because DOE will be meeting with EPA and TDEC to get their input, and he said they would be interested in knowing what the committee's thoughts are.

Mr. Paulus said it is time to begin planning the board's annual meeting in August. He said that Mr. Hemelright had offered to work on planning, and other volunteers were needed to evaluate locations for an offsite meeting. He said a suggestion has been to look at locations on the Cumberland Plateau. Mr. McKinney, Ms. Staley, and Mr. Stout agreed to assist with planning.

**EM** – Mr. Hatcher reported the committee had a follow up presentation in January to the November board presentation on radioactive and hazardous waste in long-term storage on the Oak Ridge Reservation. Mr. Hemelright and Mr. Martin have drafted a recommendation on the topic that will be discussed at the February 20 meeting.

**Public Outreach** – Mr. McKinney said each member of the committee has been busy with various assignments. He said Alfreda Cook had spent time with a DOE representative touring the reservation looking at stream posting signs. His expectation is that something will be written describing what the various stream signs on the perimeter of the reservation mean.

The committee will also consider some updates to the board's exhibit at the American Museum of Science and Energy. Savings realized from reduced printing costs will be used to update the exhibit.

Mr. McKinney said volunteers are needed to staff the ORSSAB booth at the Earth Day observance on April 27 and the Secret City Festival June 21-22. Only two people (Mr. Hemelright and Mr. McKinney) have volunteered so far to staff the booth for Earth Day.

Efforts are still being made to invite governmental officials to board meetings.

Mr. McKinney said Jan Lyons is responsible for finding historical events to include in the Advocate newsletters.

**Stewardship** – Ms. Staley reported that the committee had an update on the National Priority List site boundary delineation process for the Oak Ridge Reservation. Adjustments would only indicate areas of the reservation that contain contamination.

At the February 19 meeting, Mr. Adler will be the guest of the committee and will address some reservation stewardship issues.

**Executive** – Mr. Martin said the committee discussed the January presentation to the board on the status of cleanup at ETP. He had asked about any decision regarding the K-25 slab. Mr. Adler said the decision to keep the slab or not will be based on environmental conditions around and beneath the slab. He said preliminary investigations indicate there is not much of a problem with most of the slab. Any problems found could be eliminated and the slab patched.

Mr. Martin said the discussion led to a conversation about slabs in general and if they should be removed or left in place. He wondered if this was a topic the EM Committee might consider. Mr. Hatcher said the topic would be placed on the committee's agenda in February for discussion. The Executive Committee's February meeting was also rescheduled to March 5.

#### **Announcements and Other Board Business**

ORSSAB will have its next meeting on Wednesday, March 13 at 6 p.m. at the DOE Information Center.

The minutes of the January 9, 2013, meeting were approved.

The first reading of a proposed amendment to the ORSSAB bylaws regarding the addition of a vision statement was read (Attachment 2).

The first reading of a proposed amendment to the ORSSAB bylaws to revise the board's mission statement was read (Attachment 3).

#### **Federal Coordinator Report**

Ms. Noe reminded the board that the new travel coordinator for the board is Donna Gilliard. Any members with travel plans already in the system will be handled by Judy Martin until that travel is completed. New travel plans will be handled by Ms. Gilliard.

Ms. Noe reported that appointment packages for two interim members have been sent to DOE Headquarters but are still pending. She said those packages have been included with two additional candidates for June appointments.

#### **Additions to the Agenda**

None.

#### **Motions**

##### **2/13/13.1**

Mr. Jensen moved to approve the minutes of the January 9, 2013 meeting. Mr. Paulus seconded and the motion passed **unanimously**.

##### **2/13/13.2**

During the reading of the proposed vision statement (Attachment 2) a suggestion was made by Ms. Gawarecki that the word 'effective' be inserted between the words 'helpful' and 'productive.' Requiring a motion from the board, Mr. Paulus so moved. Mr. Hatcher seconded. The motion failed with two voting 'yea' (Mr. Martin and Mr. Hatcher) and 13 voting 'nay.' Mr. Jensen was not present for this vote.

The meeting adjourned at 7:50 p.m.

#### **Action Items**

*Open*

*Closed*

1. Mr. Adler will determine if any properties have been sold by the Community Reuse Organization of East Tennessee (CROET) to companies leasing the facilities. **Complete.** Steve Cooke, DOE-ORO Office of Reservation Management reported on February 4 that out of the nine buildings that DOE has transferred to CROET, five have been sold by CROET to a private real estate business which now leases the buildings. The buildings that have been sold by CROET are: K-1036, K-1007, K-1580, K-1330, and K-1225. None of the buildings were purchased by an entity that had previously leased the building from CROET.

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 February 13, 2013, meeting of the Oak Ridge Site Specific Advisory Board.

Chuck Jensen, Secretary

David Martin, Chair                      DATE  
Oak Ridge Site Specific Advisory Board  
DM/rsg





## Checklist

### Recommendations and Comments Consideration for Board Approval

- I. **Title:** Recommendation on Remaining Legacy Materials on the Oak Ridge Reservation
- II. **In response to (why necessary):** To provide DOE Oak Ridge Environmental Management a recommendation regarding disposition of legacy materials on the Oak Ridge Reservation.
- III. **Committee:** Environmental Management
- IV. **Date submitted:** March 13, 2013
- V. **Date by which action is requested or required:** March 13, 2013
- VI. **Previous considerations:** none
- VII. **White Paper (if applicable):** none
- VIII. **References (if applicable):** Minutes of the November 14, 2012 ORSSAB meeting; minutes of the January 16, 2013, ORSSAB EM Committee meeting.



*Many Voices Working for the Community*

# Oak Ridge Site Specific Advisory Board

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Date

Susan Cange  
Deputy Manager for Environmental Management  
DOE-Oak Ridge Office  
P.O. Box 2001, EM-90  
Oak Ridge, TN 37831

Dear Ms. Cange:

## **Recommendation #: Recommendation on Remaining Legacy Materials on the Oak Ridge Reservation**

At our March 13, 2013, meeting the Oak Ridge Site Specific Advisory Board approved the enclosed recommendation on remaining legacy materials on the Oak Ridge Reservation.

The board recommends several points to consider concerning remaining legacy waste and materials, as well as several prioritized criteria concerning disposition of the waste.

Please see the enclosed recommendation for details. We look forward to your response by May 13, 2013, if at all possible.

Sincerely,

David Martin, Chair  
DM/rsg

Enclosure

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**Recommendation on Remaining Legacy Materials on the Oak Ridge Reservation**

cc/enc:

Dave Adler, DOE-ORO

Cate Alexander, DOE-HQ

Fred Butterfield, DOE-HQ

Terry Frank, Anderson County Mayor

Connie Jones, EPA Region 4

Melissa Nielson, DOE-HQ

Melyssa Noe, DOE-ORO

John Owsley, TDEC

Mark Watson, Oak Ridge City Manager

Ron Woody, Roane County Executive

File Code 140



## **Oak Ridge Site Specific Advisory Board Recommendation: Recommendation on Remaining Legacy Materials on the Oak Ridge Reservation**

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### **Background**

During the Oak Ridge Site Specific Advisory Board (ORSSAB) 2013 Planning Meeting, the Tennessee Department of Environment and Conservation asked the Board to consider alternatives for materials waiting for disposal. The Board agreed and asked the Department of Energy (DOE) to schedule a presentation during FY 2013. The DOE followed through with a presentation to the full board and a follow-up presentation to the Board's Environmental Management (EM) Committee.

At the November 14, 2012, ORSSAB meeting, DOE provided a presentation to the Board on the remaining legacy materials on the Oak Ridge Reservation, outlining what is considered remaining legacy material. Some of this material is considered waste and is best left for permanent disposal, while some is non-waste that has potential for re-use.

Most of the waste is under some type of regulatory requirement and must eventually be disposed. Until then, it can remain as is unless some overriding reason to act on it arises.

On January 16, 2013, DOE provided a follow-up to the ORSSAB EM Committee. The presentation went into more detail about several of the remaining waste and non-waste legacy materials such as, including but not limited to:

- Sodium shields stored at Building K-1313-F at East Tennessee Technology Park (ETTP)
- Sodium shields stored at Oak Ridge National Lab (ORNL).
- Shielded Transfer Tanks stored under a shed in Melton Valley
- Disposal Area Remedial Action soils stored under cover in Bear Creek Valley.
- 28 vaults of low-level waste stored on the concrete 7822-K Pad at ORNL

These legacy materials are considered to be in safe storage, have no future mission, and are a cost liability to keep. The following points were made about remaining legacy materials:

- Remaining legacy waste and material disposition represent a significant future cost, particularly for materials dependent on offsite disposal.
- In the interim, legacy waste and materials are being safely stored and monitored.
- Some materials present significant disposal or transportation challenges.
- Disposition efforts compete for funding with building demolition and environmental remediation efforts.
- An ORSSAB recommendation on criteria to use in setting disposition priorities is encouraged.
- ORSSAB input on potential near-term actions regarding legacy material disposition is also encouraged.

## **Recommendation**

Using the information provided at the November 2012 ORSSAB meeting and the January EM Committee meeting, the following recommendation is provided to the DOE Oak Ridge EM Program regarding remaining legacy materials.

For the near term:

- Maintain a chart that lists the legacy materials, location, possible waste stream(s).
- Where applicable evaluate declassification of material as a means of facilitating disposal or reuse.
- Consider moving waste stored outside to secure indoor areas. This could better limit access by humans and wildlife and reduce the chance of damage from the elements.
- Characterize the Disposal Area Remedial Action soils to see if some or all of it could be used now as filler in the onsite waste disposal sites.
- Investigate whether there are opportunities to process materials in the 28 vaults of waste at the 7822-K Pad at ORNL through the Transuranic Waste Processing Center.
- Begin the planning process for the disposition of the known cesium casks that were discovered during the cleanup of the K-770 area at ETTP.

The ORSSAB recommends the following prioritized criteria for the disposition of Remaining Legacy Materials on the Oak Ridge Reservation:

1. Dispose to mitigate pressing environmental hazards.
2. Dispose to avoid regulatory liabilities.
3. Dispose while disposal paths are present.
4. Dispose when there is a high cost of maintaining in place.
5. Dispose only when there is no cost effective option to reuse materials.

Current wording:

## **I. MISSION**

The mission of the Environmental Management (EM) Site Specific Advisory Board (the Board) at Oak Ridge, Tennessee is to provide meaningful opportunities for collaborative dialogue among the diverse multicultural communities surrounding the Oak Ridge Reservation, EM, and the U.S. Department of Energy (DOE) Oak Ridge Office (ORO). The Board is chartered under the EM Site Specific Advisory Board Charter. At the request of the Assistant Secretary, the ORO Manager, or the ORO Assistant Manager for EM, the Board may provide informed advice and recommendations concerning the following EM site-specific issues: cleanup standards and environmental restoration, waste management and disposition, stabilization and disposition of non-stockpile nuclear materials, excess facilities, future land use and long-term stewardship, risk assessment and management, and cleanup science and technology activities. The Board may also be asked to provide advice and recommendations on any other EM project or issue. The Board ensures early, ongoing community access to information (and its interpretation and implications) and dialogue that improves the quality of the decision-making process of EM and ORO.

Proposed revision:

## **I. MISSION**

The mission of the Oak Ridge Site Specific Advisory Board is to provide informed advice and recommendations concerning site specific issues related to the Department of Energy's Environmental Management 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.

## **VISION**

The ORSSAB's vision is to be the most helpful, productive, open Federal citizens advisory committee in America.

## Recommendation Response Tracking Chart for FY 2013

	Date	To	Recommendation	Originating Committee	Response Date	Response Status	Committee Review of Response
1.	10/10/12	Susan Cange	211: Recommendation on Availability of DOE Environmental Management Documents	EM	1/8/13	<b>Complete:</b> DOE is working with information technology to improve search capabilities. The 'search tip' function has been reactivated. On request, training can be provided to access information. DOE Information Center staff is always available to provide documents. DOE is working to ensure documents are available at the information center no later than the date when availability is announced.	<b>Complete:</b> EM Committee accepted recommendation response at its January 2013. It asks that DOE notify the board when upgrades to the system are complete.



## FY 2013 Travel Opportunities

Meeting/Event	Dates	Location	Reg. Cost	Website	Deadline to Submit Requests
<b>Fall Chairs Meeting</b> (Attendees: Hemelright, D. Martin, Paulus)	Oct. 2-3, 2012	Washington, D.C.	none	<a href="http://emssabchairsmeetingoctober2012.eventbrite.com/">http://emssabchairsmeetingoctober2012.eventbrite.com/</a>	Aug. 23, 2012
<b>Perma-Fix Mixed Nuclear Waste Management Forum</b> (Attendees: Hemelright, Holmes, Kasten)	Dec. 10-13, 2012	Nashville	\$500	none	Oct. 25, 2012
<b>Intergovernmental Meeting with DOE</b> (Attendees: None)	Dec. 12-14, 2012	New Orleans			Oct. 25, 2012
<b>Waste Management Symposium</b> (Attendees: Hemelright, F. Martin)	Feb. 24-28, 2013	Phoenix	\$995	<a href="http://www.wmsym.org">www.wmsym.org</a>	Closed Nov. 15, 2012
<b>Spring Chairs Meeting</b> (Attendees: Hatcher, Hemelright, D. Martin, Staley)	April 23-25, 2013	Richland, WA	none	none	Jan. 24, 2013
<b>15th National Brownfields Conference</b> (Attendees: None)	May 15-17, 2013	Atlanta	\$125	<a href="http://www.brownfieldsconference.org/en/home">www.brownfieldsconference.org/en/home</a>	Jan. 24, 2013
<b>National Environmental Justice Conference &amp; Training</b>	April 3-5, 2013	Washington, D.C.	none	<a href="http://thenejc.org/?conference=national-environmental-justice-conference-and-training-program">http://thenejc.org/?conference=national-environmental-justice-conference-and-training-program</a>	March 5, 2013
<b>2013 EPA Community Involvement Training Conference</b>	July 30-Aug. 1, 2013	Boston	none	<a href="http://www.epa.gov/ciconference/index.htm">www.epa.gov/ciconference/index.htm</a>	?
<b>RadWaste Summit</b> (Tentative requests: Cook, Hemelright)	Sept. 3-6, 2013 (tentative)	Las Vegas	?	?	?
<b>Western Waste Site Tour</b> (Tentative requests: Cook, Hatcher, Staley)	Fall 2013	Waste Isolation Pilot Plant, Nevada Nat'l Security Site	none	none	
<b>Fall Chairs Meeting</b> (Tentative requests: Cook, Hemelright)	?	Portsmouth, OH	none	none	

Shading indicates closed trips

## EM Project Update

ETTP	January	February
Zone 1 Final ROD	The D2 Final Zone 1 RI/FS was submitted to the regulators for review.	EPA and TDEC requested a 30-day extension to review the D2 Final Zone 1 RI/FS and notified DOE that additional time may also be requested to review the document.
Zone 2 ROD	The K-33 Slabs & Soils PCCR for EUs 4 & 5 was submitted to the regulators for review.	The K-33 Slabs & Soils PCCR for EUs 4 & 5 was approved by the regulators.
Groundwater Strategy	The first of four Oak Ridge Groundwater Strategy Workshops was held. The purpose was to start the process of developing an interagency strategic approach to identify, manage, and pursue any potential onsite and offsite groundwater public health threats and to protect and restore groundwater resources to beneficial use.	Two more groundwater strategy workshops have been added to the agenda (6 workshops in all) to comprehensively address groundwater contamination plumes on the ORR. Work continues on planning the second workshop for Y-12, Chestnut Ridge, and ETTP groundwater in March.
K-25/K-27 D&D	Demolition of the North Tower was completed marking the end of the third and final wing on the K-25 superstructure. A small portion of the East Wing (6 units) remains to be decommissioned and demolished.	Disposal of debris from the K-25 North Tower is 62 percent complete and disposal of converters from the North Tower is complete.
	Disposal of the debris from the North Tower is 25 percent complete. Disposal of compressors was completed, and convertor disposal was completed for two of the three North Tower units.	Mining of Surge Tanks continues. The last small diameter tank has been cut and mining has begun.
	Foaming of process pipe is 12 percent complete in the five remaining K-25 units requiring foaming.	Foaming of process pipe is 20 percent complete in the five remaining K-25 units requiring foaming.
	Completed the vent, purge, drain activities on all K-27 NaF traps and associated pipe and lines. Began the process gas and non-process gas piping interference removal activities.	Completed removal of six NaF traps from the K-27 Building. This resulted in overall risk reduction within the facility by removing the highest hazard components early.
	The WHP for the K-25 East Wing Units K-309-3 & K-310-1 Process Equipment & Piping was submitted to the regulators for review and approval.	The WHP for the K-25 East Wing Purge Cascade Process Equipment & Piping was submitted to the regulators for review.
	The D2 FY 2012 PCCR was submitted to the regulators for review and approval.	
Remaining Facilities	The PCCR for the Poplar Creek 4 Tielines was approved by the regulators.	The WHP Addendum II for the Poplar Creek High-Risk Facilities & Tielines was submitted to the regulators.
ORNL	January	February
BV Non-Reactor Facilities D&D	The WHP for Surveillance & Maintenance activities was approved by the regulators	
BV Soils & Sediments		The RA Work Plan Addendum for the Tank W-1A North Pipeline was approved by the regulators.

## EM Project Update

ORNL	January	February
SWSA 4 Down Gradient Trench		The down gradient trench cleanout project was completed. The rehabilitation of the collection system included pumping and surging of extraction wells in the trench and disposal of water and sediment. Demobilization from the site is complete.
SWSA 5 Buildout Project		Project received approval to proceed with early procurement for several long-lead items. Early procurement of this equipment is a critical path item toward meeting project milestones.
U-233 Project	An overview of the U-233 Disposition Project was provided at the quarterly DOE, State, and Local Emergency Management meeting.	
	A comment resolution meeting was held on the project's Vulnerability Assessment Report. Comments were incorporated and report was approved.	
Y-12	January	February
Y-12 D&D S&M	Completed the conceptual design and alternatives evaluation effort for a proposed mercury treatment facility at Y-12. The proposed facility will treat storm water effluent from Outfall 200, which, of the known inputs, is the most important source of mercury to UEFPC.	All significant fieldwork was completed on the Alpha 4 and Alpha 5 buildings for the secondary pathways (isolation & removal of mercury) project.
	Completed 99 percent of the scope on the south side of Alpha 5. Nine of 22 concrete slabs in the south alley of Alpha 4 were completed. The sampling of Alpha 4 soils and trench drain installations were also completed.	
Off-Site Cleanup/Waste Management	January	February
TRU Waste Processing Center	The project exceeded processing goals for Contact Handled and Remote Handled waste by 52 percent and 56 percent respectively.	
EMWMF	The D4 Remedial Design Report was approved by the regulators.	The FY 2012 CARAR was approved by the regulators.
		The draft FY 2013 EMWMF PCCR (containing the former CARAR) was prepared.
Water Quality Program	The draft FY 2013 Remediation Effectiveness Report was completed and the review period was initiated.	

## 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

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

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

LLW – low-level waste

MLLW – mixed low-level waste

MSRE – Molten Salt Reactor Experiment

MV – Melton Valley

NaF – sodium fluoride

NEPA – National Environmental Policy Act

NPL – National Priorities List

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

NTS – Nevada Test Site

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

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

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 waste  
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



## Oak Ridge Site Specific Advisory Board

### TRIP REPORT

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- I. Name of Traveler:** David Hemelright
- II. Date(s) of Travel:** 24 through 17 February 2013
- III. Location of Meeting:** Phoenix, AZ
- IV. Name of Meeting:** Waste Management Symposium 2013
- V. Purpose of Travel:** To attend the conference, partake of information pertaining to nuclear waste management on a local and international level, and network with professionals in the industry.
- VI. Discussion of Meeting:** Numerous topics ranging from lessons learned from Fukushima to transportation of waste, to value of SSABs, to site remediation, to effectively communicating with the general public and regulators, to disposal paths, to student posters and presentations of nuclear related topics and environment. If it concerned nuclear waste and remediation, then it was discussed in some form or manner.
- VII. Significance to ORSSAB:** To make me a better board member, broaden my knowledge in the nuclear clean-up and waste arena, see how other sites operate, and learn of specific needs of individual sites and the local community reactions to implemented plans.
- VIII. Names of Significant Contacts and Presenters:**  
David Huizenga, William Ostendorff, Peter Lyons, Christine Gelles, Cate Alexander, Sue Cange, Laura Wilkerson, David Adler, Jim Kopotic, Ralph Phelps, Ralph Young, Eric Roberts, John Wrapp, Elizabeth Schmidt, Kristen Ellis, Troy Monk, Steve Fielden, Mike Fielden, Gerald Boyd, Judy Herod, Betsy Child, Harry Boston, Ron Donahoo, Gary Urban
- IX. Action Items:** No action items required.

**X.** *David Hemelright*  
Signature: \_\_\_\_\_

5 March 2013

Date: \_\_\_\_\_



## TRIP REPORT

- I. Name of Traveler: Fay M. Martin
- II. Dates of Travel: February 24, 2013 to February 28, 2013.  
(Stayed with relative February 28-March 3, 2013)
- III. Location of Meeting: Phoenix, Arizona
- IV. Name of Meeting: Waste Management Symposium 2013
- V. Purpose of Travel: To represent ORSSAB and learn about waste management issues relevant to DOE-ORO EM
- VI. Discussion of Meeting

The meeting began on Monday morning with the Plenary Session, featuring three impressive speakers. The first speaker William C. Ostendorff, Commissioner, U.S. Nuclear Regulatory Commission, spoke on “Spent Nuclear Fuel Management- Where Are We?” He mentioned the Blue Ribbon Commission Recommendations, the time-line of actions on Yucca Mountain, and the Fukushima accident in Japan. He concluded that the keys to regulatory success were continued safe operations and proactive risk communication.

The next speaker was Dave Mc Cauley, Natural Resources Canada. His topic was “Nuclear Energy and Radioactive Waste Management in Canada- Policy, Plans and Priorities.” He mentioned that Canada was the biggest exporter of oil to the US, ahead of Saudi Arabia, and they were the second largest uranium producer. Canada has 19 reactors currently operating, and there are six research reactors. I was quite impressed by this since I had made use of the reactor at McMaster University in Hamilton, Ontario, when I did my Masters’ thesis, involving neutron irradiation of the pancreas of chicken and catfish. Mc Cauley also discussed the 2002 Nuclear Fuel Waste Act and stressed that continued international dialogue and collaboration is essential.

The third speaker was Dave Huizenga, Senior Advisor for Environmental Management. He spoke on TRU Waste Shipment at LANL, Defense Waste Processing Facility at SRS, K-25 in Oak Ridge, the plan to preserve some equipment and to form a Museum to show the significance of the Manhattan Project, Footprint Reduction at K-33 in Oak Ridge, the Waste Treatment Plant at Hanford, and the integrated Waste Treatment Unit at Idaho.

The Keynote speaker at the Monday Luncheon was Dr. Peter Lyons. He spoke about Fukushima Dai-ichi accident response and research, Recommendations of the Blue Ribbon Commission, Yucca Mountain, which he said was “unworkable”, and Sanmen in China.

Oak Ridge was very well represented at the Symposium. At one session, Sue Cange presented “The Oak Ridge Cleanup Vision. Moving to the Future by Cleaning up the Past” Among the work left to be done she mentioned: A New Water Treatment System at Y-12, Completion of the Mercury Treatment Plan, Completion of U-233 Material Processing and Disposition and Completion of TRU Waste Processing and Disposition.

At another session the Chairs were Jenny Freeman of Strata-G, and Catherine Alexander, US DOE. The topic of the Panel was “The Effectiveness of Advisory Boards- The US DOE-EM Experience”. Dave Adler presented “ US DOE Perspectives on Advisory Board Effectiveness”, mentioning that the ORSSAB was established in 1995 and since then there have been 186 recommendations.

At the Honors and Awards Banquet, Lance Mezga of Oak Ridge National Laboratory was presented with the WMS Program Advisory Committee Award . Mezgawa was also one of eight Fellow Award Recipients. The Award recognizes volunteers for distinguished contributions to the advancement of radioactive waste and radioactive material management.

Another interesting paper was presented by James Kopotic, US DOE Oak Ridge on “Lessons Learned from D&D Activities at the Five Gaseous Diffusion Buildings (K-25 K-27, K-29, K-31 and K-33) East Tennessee Technology Park Oak Ridge, TN”.

Sid Garland presented “A Land Use Manager Application Ensures Protectiveness Following Remediation on the Oak Ridge Reservation”. This paper was enthusiastically received and Sid invited people to Oak Ridge to see the Land Use Manager in operation.

Laura Wilkerson, US DOE presented a paper on “Progress and Future Plans for Mercury Remediation at the Y-12 National Security Complex, Oak Ridge, TN”.

Lilian Marrera (DOE Fellow) from Florida International University presented a paper on “Recent Approaches to Modeling Transport of Mercury in Surface Water and Groundwater- A Case Study in Upper East Fork Poplar Creek, Oak Ridge, TN”. She had models for soil type, geology, depth to ground water and topography. She also presented this topic in the Poster Session entitled “Student Posters: The Next Generation - Industry Leaders of Tomorrow”. There were some outstanding posters in this session.

Allen Schubert of UCOR/CH2M, Oak Ridge spoke on “Environmental Cleanup of the East Tennessee Technology Park- Year One- Execution with Certainty”. With great delight he told the audience of “The spectacular year in tearing down the building.” I mentioned in the Q&A period that some people in Oak Ridge were sentimental about the buildings and that the Oak Ridge Heritage and Preservation Association (ORHPA) was actively trying to preserve memories of the great days of Oak Ridge. (He thanked me for reminding him of the ORHPA).

One delight was listening to presentations from participants from all over the world. Some of these are mentioned below.

“Safety Assessment for the Kozloduy National Disposal Facility in Bulgaria” was presented by Bernt Haverkamp of Germany.

Doug Metcalfe gave an “overview of the Government of Canada Nuclear Liabilities Program”.

Marc Butez, Andra, presented “Industrial Program of Waste Management- Cigéo Project” in France .

Jörg Mönig represented Germany in his talk on “Preliminary Safety Analysis of the Gorleben Site: Safety Concept and Application to Scenario Development Based on a Site-Specific Features, Events and Processes (FEP) Database.

In the talk by Vassily Tinin of Russia “Radioactive Waste Management at the New Conversion Facility of “TVEL” Fuel Company” he had a female translator who was very efficient

The topic of Georgghe Barariu of Romania was “The Management of the Radioactive Waste Generated by Cernavoda NPP, Romania, an Example of International Cooperation”. He mentioned that there were two CANDU 600 units in Romania and that two others would be commissioned.

The concept of sub-seabed repository was interesting. Keith McAllister of the US Navy spoke on ‘Sub-Seabed Repository for Nuclear Waste- A Strategic Alternative’ . He mentioned islands such as Baker Island, Palmyra Atoll, Johnston Atoll and Kingman Reef.

#### VII. Significance to ORSSAB:

Attendance at this meeting opened up a whole new world. It was interesting to note that the concerns of waste management and cleanup were worldwide. It was invaluable for networking with professionals in the Waste-Management field and becoming a more informed SSAB member.

#### VIII. Names & Telephone Numbers of Significant Contacts:

Velimir V. Vesselinov (Los Alamos National Laboratory), 1-505 665 1458

Dr. J (Jaap) Hart, The Netherlands, +31 (0)224 56 4282

Mieke Roos (Belgium), +32(0)14 33 40 08

Harry Boston (Lenoir City), 866-7307353

Gail Mattson (Oak Ridge), 865 719 9127

Christopher Thomas (Summertown, TN), 931 964 3561

Judy Herod (Canada), 905-885-8830 ext 41144

Gerald Boyd (Oak Ridge), 865 272 3392

George Dials (Kentucky), 859 685 9272

Dr. Aruna Arakali (Hanford), 509 371 5297

Dr. Inèz Triay, 305 348 6622

Hubert Strobel (Germany), +49(0)8041/7877-30

Loong Yong, Ph.D. (Oak Ridge), 865 483 7210

Tjalle T. Vandergraaf (Manitoba, Canada), 204 433 7488

Gabriel Arsenault (Quebec, Canada), 418 693-0227

#### IX Action Items

Tjalle T. Vandergraaf, Ph.D.(Manitoba) promised to send me an email of his presentation “Distribution of Radioactive Materials in the Absheron Peninsula, Azerbaijan.

#### X. Traveler’s Signature & Date: Fay M. Martin, March 6, 2013