



PORTSMOUTH EM SITE SPECIFIC ADVISORY BOARD

• OSU Endeavor Center • 1862 Shyville Road • Piketon, Ohio 45661 • (740) 289-5249 •

Proposed Agenda for the March 3, 2011 Board Meeting

CHAIR Richard H. Snyder	6:00	
VICE CHAIR Larry A. Parker	Call to Order, Introductions	
	Review of Agenda	
	Approval of January Minutes	
BOARD MEMBERS Shirley A. Bandy	<i>DDFO Comments</i>	<i>-- 15 minutes</i>
L. Gene Brushart	<i>Federal Coordinator Comments</i>	<i>-- 10 minutes</i>
Lindy A. Coleman	<i>Liaison Comments</i>	<i>-- 10 minutes</i>
Martha A. Cosby	<i>Plant Tour Safety Procedures Dan Mosley</i>	<i>-- 15 minutes</i>
Ervin S. Craft	<i>Administrative Issues</i>	<i>-- 20 minutes</i>
Val E. Francis	Subcommittee Updates	<i>-- 5 minutes</i>
Franklin H. Halstead	Discussion on Top 3 Issues, 1 Accomplishment, and Major Activity	<i>-- 15 minutes</i>
William F. Henderson II	Discussion on Nevada CAB REC: <i>Using Rail Transport for Moving Waste</i>	<i>-- 10 minutes</i>
Brian F. Huber	<i>Public Comments</i>	<i>-- 15 minutes</i>
Michael J. Lilly	<i>Final Comments from the Board</i>	<i>-- 10 minutes</i>
Sharon E. Manson	Adjourn	
Daniel J. Minter		
R. Daniel Moore		
Michael E. Payton		
Cristy D. Renner		
Roger G. Scaggs		
Terri Ann Smith		
DEPUTY DESIGNATED FEDERAL OFFICIAL Joel Bradburne		
DOE FEDERAL COORDINATOR Greg Simonton		

SUPPORT SERVICES
ehi Consultants, Inc.
1862 Shyville Road
Piketon, OH 45661
Phone 740.289.5249
Fax 740.289.1578

Chartered as an EM Site Specific Advisory Board under the Federal Advisory Committee Act



PORTSMOUTH EM SITE SPECIFIC ADVISORY BOARD

Minutes of the March 3, 2011 SSAB Meeting • 6:00 p.m.

Location: The Ohio State University Endeavor Center, Room 160, Piketon, Ohio

Site Specific Advisory Board (SSAB) Members Present: Richard Snyder, Larry Parker, Gene Brushart, Lindy Coleman, Ervin Craft, Val Francis, Franklin Halstead, William Henderson, Brian Huber, Sharon Manson, Daniel Minter, Michael Payton, and Cristy Renner.

SSAB Members Absent: Shirley Bandy, Martha Cosby, Michael Lilly, Dan Moore, Roger Scaggs, and Terri Ann Smith

Board Liaisons and Related Regulatory Agency Employees: Maria Galanti, Ohio Environmental Protection Agency (Ohio EPA); Mike Rubadue, Ohio Dept of Health

U.S. Department of Energy (DOE) and Contractors: Joel Bradburne, Greg Simonton, and Judson Lilly, DOE; Julie Galloway and Cindy Lewis, EHI; Rick Greene and Janie Croswait, Restoration Services, Inc. (RSI); Sandy Childers, Lata/Parallax; Dan Mosley, USEC

Facilitator: Eric Roberts, EHI

Public: Stephanie Howe and Scott Miller, Ohio University; David Manuta, Mc2; Mark Johnson, TSBTC; Geoffrey Sea, SONG; J. Thompson, CDM;

Call to Order:

Snyder called the meeting to order.

Roberts welcomed everyone and stated he would be facilitating the meeting. There will be a public comment period after the administrative issues. The Board should stay within its defined Scope and follow the Meeting Ground Rules adopted.

January Minutes:

Roberts called for any modifications or proposed changes to the January Minutes.

- *Halstead* motioned to approve the January Minutes as presented, **Motion seconded.**
 - **Motion carried, Minutes approved**

DDFO Comments:

Bradburne gave a presentation on the following information:

- Transition Progress
- Budget Information
- ARRA Update
- Other Remediation Efforts
- SODI Update
- Public Outreach

A copy of the above-stated presentation can be viewed on the SSAB website.

Question/Comment:	Answer:
<i>Minter</i> asked are there any other transitions going on right now.	<i>Bradburne</i> stated there are 6 transition projects right now. This is an exciting time at the site.
<i>Francis</i> asked what happens when the X-701B is completed.	<i>Galanti</i> stated the soil data is 95% removal of TCE. The ground water has decreased in trend we put in various wells. We will monitor the water for a year.
<i>Snyder</i> asked does SODI have a contract to remove the switchyard materials.	<i>Galanti</i> stated yes they do, they were moving some of it out today. It has been sold to a contractor in Jackson. <i>Bradburne</i> stated it takes awhile to get things started. It has been an adventure all around.
<i>Halstead</i> asked has there been any action on the nickel.	<i>Bradburne</i> stated the nickel is going to take longer, there is interest in it, but no decision has been made.

Federal Coordinator Comments:

Simonton announced that DOE would be having a science day on May 3 & 4, 2011. High School Juniors from the surrounding counties were invited to attend. We have 700 students scheduled and waiting to hear from a few more schools. Plans are not finalized yet. Planning to have it from 9 to 1. We will have a driving tour around the site, tents with displays and lunch. It is exciting to have this interaction with the students. There is a lot of work to be done to get ready.

Question/Comment:	Answer:
<i>Minter</i> asks if the SSAB would have a station	<i>Simonton</i> stated yes we would like the SSAB Board to have a station.

Liaison Comments:

Ohio Environmental Protection Agency (Ohio EPA):

Galanti stated The ARRA projects are ending. There is a tremendous amount of paper going back and forth working on the D&D. Ohio EPA and DOE are looking at plans at the same time. The X-334 building has been removed, only the pad is left. The X-333 is in transition.

Rubadue stated Ohio Department of Health has been working closely with EPA.

Plant Tour Safety Procedures:

Mosley gave a presentation on the following information:

- Radiation Basics
- Background Radiation
- Exposure
- Portsmouth Comparisons
- Radiation Safety

A copy of the above-stated presentation can be viewed on the SSAB website.

Question/Comment:	Answer:
<i>Brushart</i> asked where will the students be going during the science day at the plant. What amount of radiation will they be exposed too.	<i>Simonton</i> stated we do not know all the details. DOE is working with the contractors to make plans. The students will not be in any buildings on-site. There will be guides for the tours. Safety will be a main concern when making plans for the day's activities.
<i>Snyder</i> asked would the students need to wear TLD's to monitor radiation.	<i>Mosley</i> stated that will be up to the RADCON manager.
<i>Parker</i> asked do some employees wear the TLD's all the time.	<i>Mosley</i> stated they do if they work in any buildings that are monitored all the time, which would be the process buildings.

Administrative Issues:

Community Involvement Subcommittee:

Brushart stated the Subcommittee's February meeting had the largest attendance than ever before. The subcommittee had some discussion on the development of the Speakers Bureau presentation. After some changes are made the subcommittee will present it to the full Board for approval. The subcommittee had a discussion of interrelationship of SODI activities related to the SSAB scope. SODI is trying to remove and sell metals from the site for recycling. Fifty percent of the proceeds go back into the community through SODI and the other fifty percent goes to the U.S. Treasury. The subcommittee will continue to dialogue with SODI. The subcommittee also had a discussion on trying to develop the science day with DOE that will allow students from the surrounding counties to visit the site.

Future D&D and Recycling Subcommittee:

Renner stated the Subcommittee had an overview with Kevin Ironside regarding the process building PER. Instead of taking forty-eight months to complete the D&D it is only going to take fourteen months.

Historical Preservation & Legacy Subcommittee:

Huber stated the presentation that Jack Williams gave the subcommittee on the USEC oral history project was very impressive and informative. The subcommittee had continued discussion on potential options for a convention center. The subcommittee decided that they needed to schedule a working session. Parker would redraft the recommendation before the working session.

Manson stated that the subcommittee hopes to have a Recommendation to submit to the Board soon.

Waste Disposition Subcommittee:

Minter stated that Ironside gave a presentation on the CERCLA cell siting alternatives. The subcommittee decided that the parameters from Recommendation 11-01 should be put on a poster board to have at every meeting. The subcommittee had a discussion on Northern New Mexico "Using Rail Transport for Moving Waste" Recommendation. The subcommittee thinks the recommendation needs to be changed because there is only one option to transport waste in the recommendation and that is by train. There needs to be other options to transport.

Executive Subcommittee:

Snyder stated the executive subcommittee discussed which events our Board members should attend. The subcommittee decided one staff and three board members should attend the Chairs meeting in Las Vegas. There will be a site round robin and the Board Chairs will have 5 minutes to present one to three slides on

the board's top three issues, one activity and an accomplishment. The subcommittee would like to have a member attend the Intergovernmental meeting. It has the most interest within the EM scope. The subcommittee talked a little about the upcoming science fun day for High School juniors.

Discussion on Top 3 Issues, 1 Accomplishment, and a Major Activity:

Snyder stated the chairs came up with two issues to present at the Las Vegas Chairs meeting in April.

- Issue #1 Waste Disposition
- Issue #2 Reuse of Real Property
- Accomplishment – Recommendation 10-1
- Major Board Activity – Developing a future for the plant site.

With some word smithing, no one was opposed to the Board Chairs presenting these items at the Chairs Meeting.

Discussion on Nevada CAB REC: Using Rail Transport for Moving Waste:

Snyder stated this recommendation has to pass at the Chairs meeting before it is brought back to our Board for approval.

Public Comment:

Sea stated Simonton's statement on the nuclear power plant proposal is not as he presented it. One partner dropped out and Duke the lead partner will put a nuclear power plant in the southwest. Do not mislead us on the future use of the site. I was surprised by the Historical Preservation subcommittee update. I was in that meeting and there was a consensus reached between everyone that there is additional steps that need to be made before anything is done. All the other Historical Preservation groups in the community need to be involved before any proposals are pushed thru.

Manuta stated Mosley had some wrong information in his presentation. I bring this up for him to avoid any embarrassment in the future.

Final Comments from the Board:

No comments

Snyder motioned to adjourn the meeting, *Motion seconded.*

- *Motion carried, Meeting adjourned*

Next Meeting Thursday, May 5, 2011, at 6:00 p.m.

ACTION ITEMS:

1. EHI to work on the PowerPoint slides for the Las Vegas Chairs meeting
2. DOE to add the DUF6 Conversion plant update to the DDFO presentation for all the board meetings.
3. SSAB to have a display/station at the DOE Science Days on May 3 & 4th at the plant.



DEPUTY DESIGNATED FEDERAL OFFICIAL PRESENTATION

JOEL BRADBURNE, PORTS SITE LEAD
U.S. DEPARTMENT OF ENERGY

**Portsmouth Site Specific Advisory Board
March 3, 2011**



AGENDA

- 1 Transition Progress
- 2 Budget Information
- 3 ARRA Update
- 4 Other Remediation Efforts
- 5 SODI Update
- 6 Public Outreach



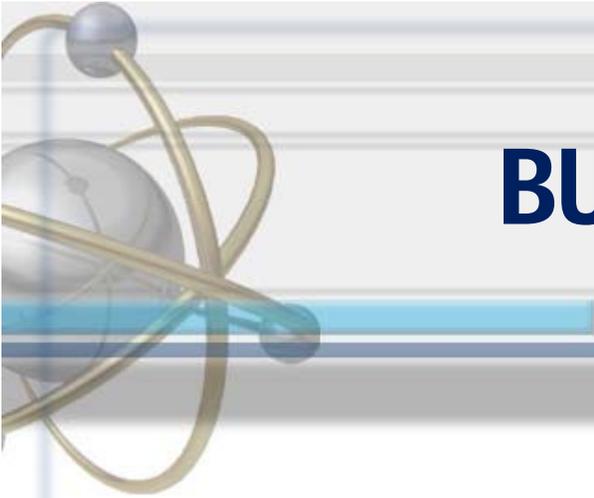


TRANSITION PROGRESS



- ❑ The transition period for the Decontamination and Decommissioning (D&D) contractor - Fluor-B&W Portsmouth, LLC (FBP) – is scheduled to end March 28, 2011.
- ❑ On January 24, 2011, FBP publicly announced it will hire about 1,600 employees – primarily from current site contractors LATA/Parallax Portsmouth, LLC (LPP) and the United States Enrichment Corporation (USEC) – as it prepares for D&D operations.
- ❑ FBP’s efforts to safely begin work and transition the workforce are ongoing.
 - ❑ Work plans and procedures are being developed.
 - ❑ Salaried workers are being hired and FBP is currently negotiating with the United Steel Workers and the building trades unions.





BUDGET INFORMATION

- ❑ On February 15, 2011, President Obama announced his \$29.5 billion budget request for 2012 for the U.S. Department of Energy.
- ❑ DOE's Office of Environmental Management's (EM) portion of the budget request is \$6.1 billion.
- ❑ The amount requested for the Portsmouth Gaseous Diffusion Plant is \$310 million.
- ❑ Secretary of Energy Steven Chu is scheduled to address Congress on March 15, 2011.
- ❑ Assistant Secretary for EM, Dr. Ines Triay, is scheduled to address Congress on March 30, 2011.

ARRA UPDATE

X-633

X-760

X-533

X-701B

UMC



COMPLETION PERCENTAGES



ARRA UPDATE

- ❑ Completed demolition of the control room and both the East and West switchhouses.
- ❑ All recyclable material has been staged for SODI.



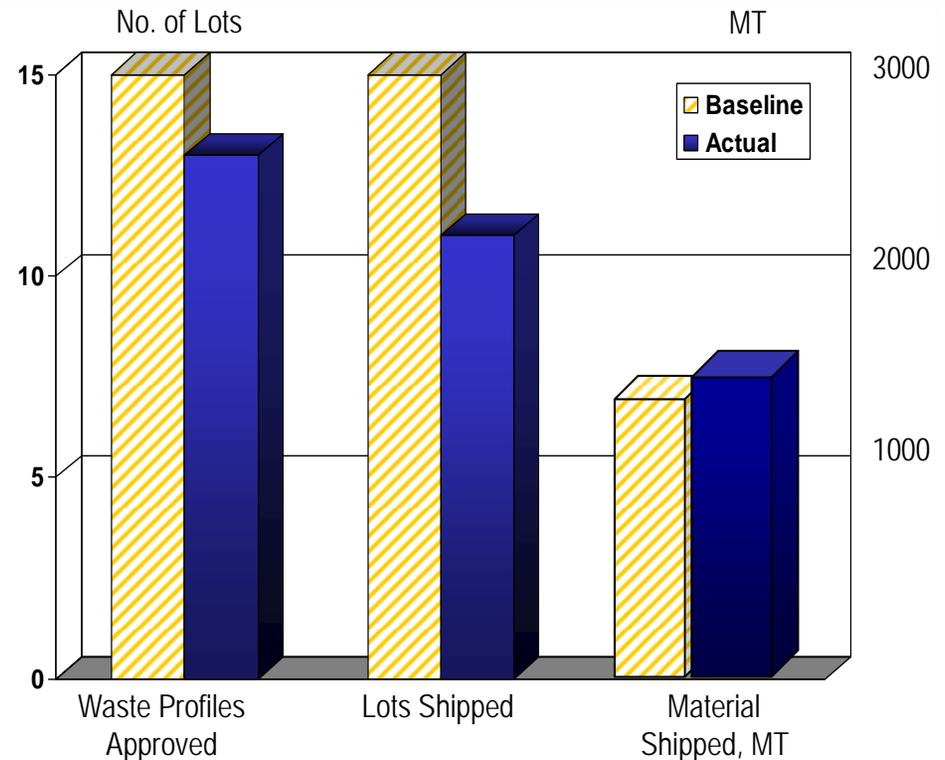
Large lumber ties are moved around a transformer base as workers continue to dismantle the large equipment pieces previously used in the X-533 Electrical Switchyard. A total of 18 transformers are being taken apart by workers from G&S Technologies under contract with SODI.

X-533 SWITCHYARD



ARRA UPDATE

- DOE has obligated \$8 million of ARRA funding to FBP and is finalizing the related work scope.
- 11 of 15 lots have been dispositioned and more than 1,500 MTUs have been shipped under ARRA.
- 95 percent of the ARRA work scope at the UMC has been completed and the project is scheduled for completion in mid-March.



URANIUM MANAGEMENT CENTER



ARRA UPDATE



81 of 81 cells completed



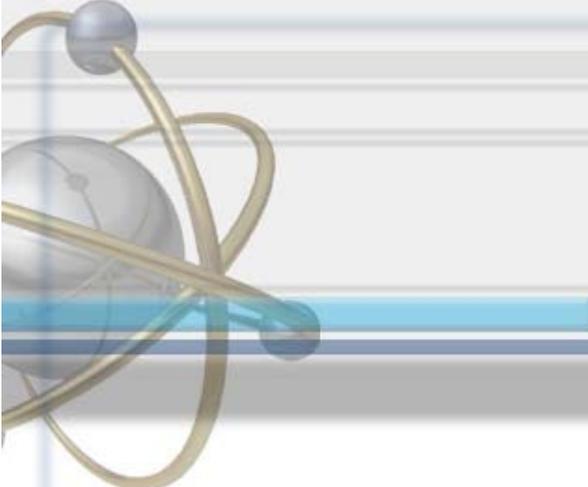
Phase I



Phase II

X-701B CONTAMINATION PLUME





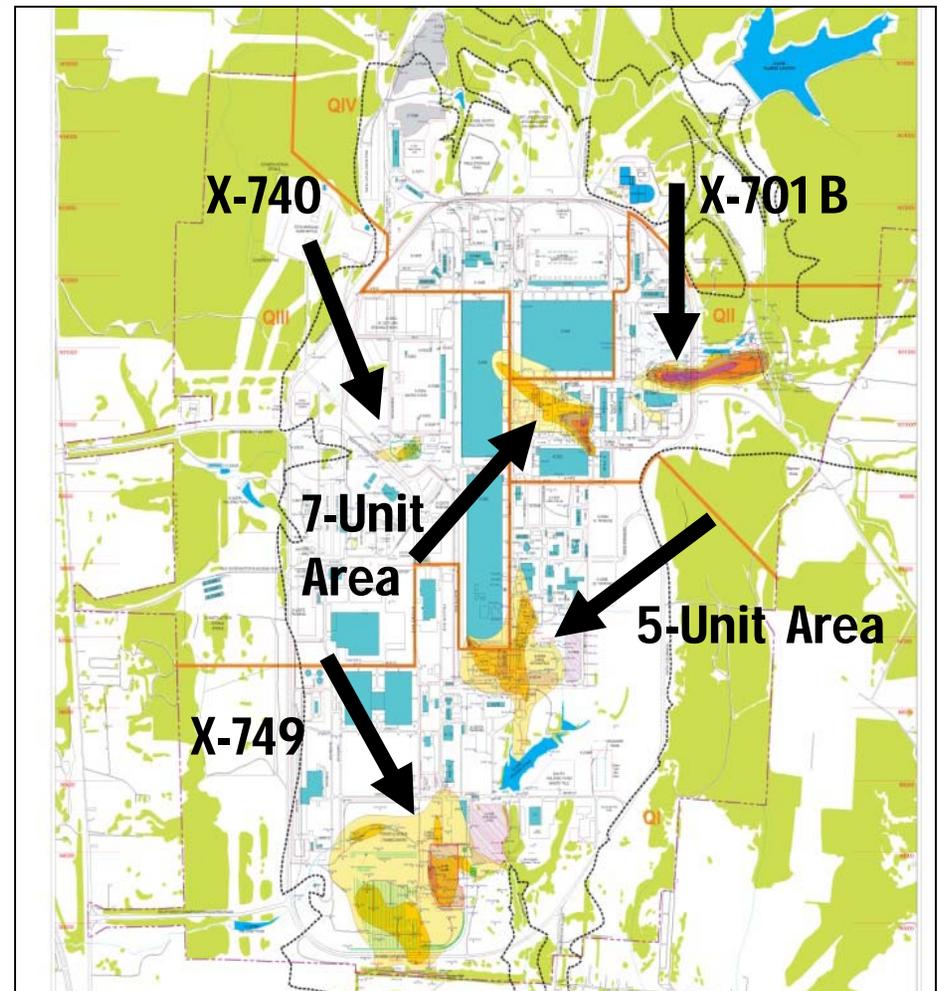
ARRA UPDATE

- ❑ To date, ARRA funding has supported completion of 12 facility demolitions, the disposition of 37,842 cubic meters of D&D waste, and the elimination of 288,489 square feet of facilities.
- ❑ ARRA funding has also supported the remediation of more than 75,000 cubic yards of contaminated soils, and the disposition of more than 1,500 MTUs.
- ❑ ARRA funding created/saved more than 450 jobs through its performance lifecycle at the Portsmouth Gaseous Diffusion Plant.

OTHER REMEDIATION EFFORTS

Enhanced Anaerobic Bioremediation (EAB)

- ❑ EAB is a remediation approach that uses naturally occurring microorganisms in the subsurface to degrade chloroethenes to harmless byproducts (i.e., ethene, ethane).
- ❑ During EAB, biological transformation of TCE occurs via the reductive dechlorination pathway (TCE to dichloroethene to vinyl chloride to ethene).
- ❑ EAB occurs through the addition of fermentable carbon compounds.
 - ❑ X-740 plume – emulsified soybean oil
 - ❑ 7-Unit plume – sodium lactate



OTHER REMEDIATION EFFORTS

X-740 Groundwater Enhanced Anaerobic Bioremediation (EAB) Pilot Study

- ❑ Installed 30 injection wells
- ❑ Completed baseline groundwater sampling December 16, 2010
- ❑ Began EAB injections December 16, 2010 and completed on January 19, 2011
- ❑ Quarterly groundwater monitoring for the next 18 months

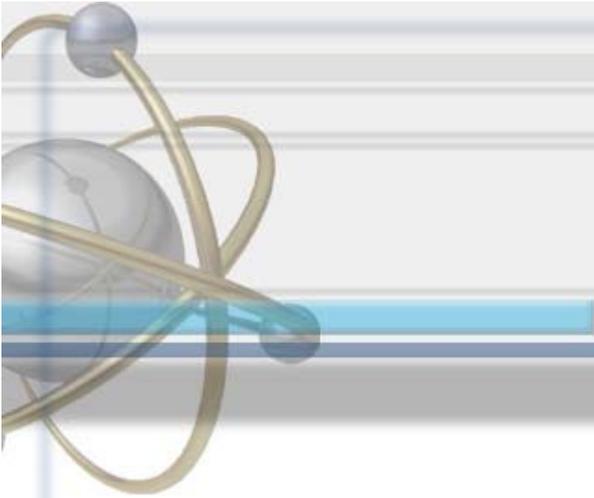


OTHER REMEDIATION EFFORTS

7-Unit Area Enhanced Anaerobic Bioremediation (EAB) Groundwater Interim Remedial Measure

- ❑ Installed 33 injection wells
- ❑ Completed baseline groundwater sampling January 26, 2011
- ❑ Began EAB injections January 31, 2011 planned to complete this round February 24, 2011
- ❑ Monthly groundwater monitoring with EAB injections every six weeks



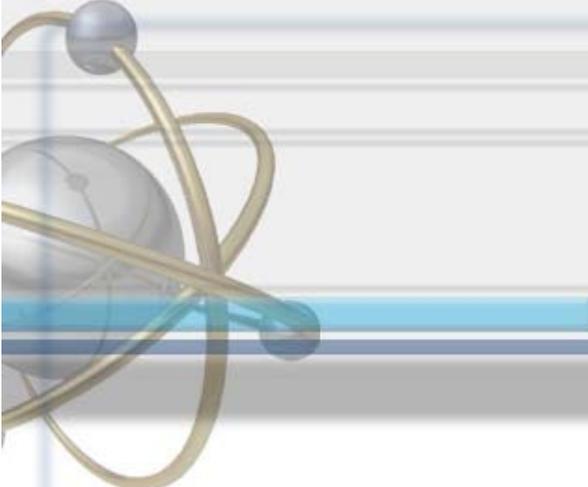


SODI AGREEMENT



- ❑ The Southern Ohio Diversification Initiative (SODI) has received \$944,444.44 from G&S Technologies as part of a contract to remove 18 power transformers from the recently decommissioned X-533 Switchyard.
- ❑ In addition, SODI has received \$89,635.55 for the removal of transformer oil.
- ❑ To date, eight transformers have been dismantled. Work continues on the remaining 10 transformers.
- ❑ A total of 25 shipments of mixed scrap metal have been removed from the site.
- ❑ SODI provided a list of potential local recyclers and partners for the removal of about eight million pounds of various material (i.e., steel, copper, aluminum, etc.).

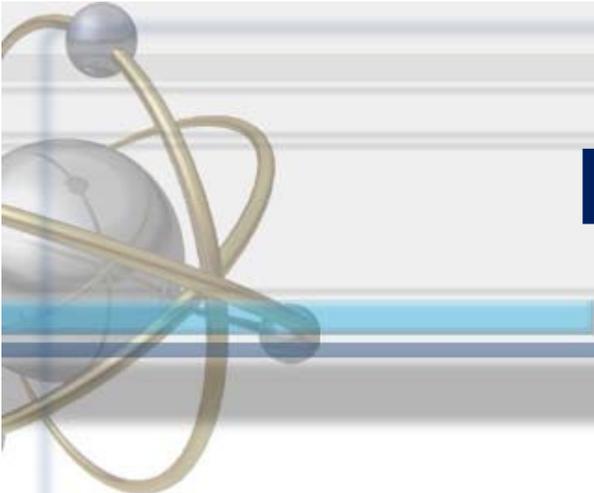




SODI AGREEMENT



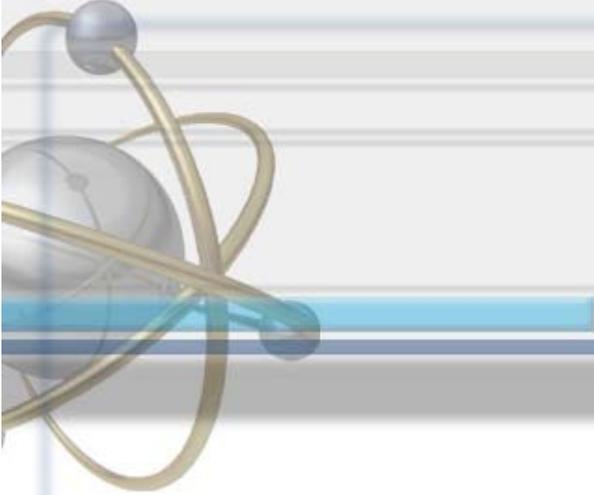
- ❑ DOE has made a commitment to Ohio EPA to begin removal of the scrap metal by April of 2011.
- ❑ On February 14, 2011, DOE invited the local recyclers recommended by SODI to the plant site. Bids were received the following day and – pending DOE approval and SODI acceptance – scrap metal will begin to be shipped off-site in early March.
- ❑ As a result of these efforts, SODI will receive \$158,000.



PUBLIC OUTREACH

- ❑ DOE has awarded a grant to the Ohio University Voinovich School of Leadership and Public Affairs to help gauge public opinion on topics related to the cleanup and future use of the plant site.
- ❑ Representatives from OU will discuss this in more detail at “Visioning Teams Kick Off Meetings” on March 15, 2011, in Chillicothe (PACCAR Medical Education Center) and March 17, 2011, in Portsmouth (Scioto County Welcome Center).
- ❑ Representatives from OU will also be addressing the SSAB Community Involvement Subcommittee at its meeting on Tuesday, March 8, 2011.
- ❑ For more information on other aspects of Ohio University’s work on this project, visit www.portsfuture.com.





CALENDAR

- SUBCOMMITTEE MEETINGS

- March 8, 2011

- Community Involvement – 4:30 p.m., Room 165

- Future D&D/Recycling – 4:30 p.m., Room 112

- Waste Disposition – 6:30 p.m., Room 165

- Historical Preservation – 6:30 p.m., Room 112

- EXECUTIVE COMMITTEE MEETING

- March 24, 2011

- NEXT FULL BOARD MEETING

- May 5, 2011

DRAFT

PORTS EM SSAB

Issue #1: Waste Disposition

- On-site disposal cell size and location
- Recycling
- Regulatory Issues
 - Speculative accumulation
 - Waste acceptance criteria



DRAFT

PORTS EM SSAB

Issue #2: Reuse of Real Property

- Guidance needed from HQ
- Asset Revitalization Initiative (ARI)
- New Task Force may allow for no-decision
 - Existing nuclear generating plant proposal
- Roles & responsibilities of SSAB, CRO, Local Govt. & other stakeholders



DRAFT

PORTS EM SSAB

- Accomplishment: RECOMMENDATION 10-01:
The PORTS SSAB recommended to DOE to go forward with a broad-based community wide end use study. DOE granted Ohio University Voinovich School to engage the community, establish methods and opportunities which allows collaboration within the development of the future use of the Portsmouth Site.



DRAFT

PORTS EM SSAB

Major Board Activity:

- Developing a future use for the plant site.



**NORTHERN NEW MEXICO CITIZENS' ADVISORY BOARD
Recommendation to the Department of Energy**

No. 2011-03

“Using Rail Transport for Moving Waste”

Drafted by the Environmental Monitoring, Surveillance and Remediation (EMSR) Committee

Background

As part of the cleanup process, some low-level radioactive and hazardous waste must be shipped from Los Alamos to disposal sites in other states—sites designed and regulated for final disposal. Until late 2009, all hazardous and low-level radioactive waste shipments from the Los Alamos National Laboratory (LANL) were transported by truck.

For example: LANL has 15,000 cubic yards of waste which they planned to move to approved disposal sites over four or five months. Additional legacy waste shipments are scheduled to continue through 2015. Shipment of newly generated waste will also be required.

A site in Utah receives much of this waste. The Nevada Test Site receives some Low-Level Radioactive Waste (LLW). Non-hazardous, non-radioactive waste has been shipped to facilities in Colorado and Texas. A facility in Texas called WCS Site, near Hobbs, New Mexico, is seeking the capability to accept LLW from DOE.

The 15,000 cu yards of waste was from excavation sites at LANL Technical Area 39 (TA-39) and Upper Los Alamos Canyon. Approximately 10,000 cubic yards was LLW and approximately 5,000 cubic yards was waste containing small amounts of Polychlorinated biphenyls (PCBs). Shipment of this waste is regulated as Class 9 material by the Department of Transportation (DOT) because of the presence of PCBs. Class 9 materials are the lowest hazard class of materials transported in the United States. IP-1 certified soft-sided containers are used. These containers are a double sided, flexible 242 cubic feet capacity (8.9 cubic yards) fabric bag, with a capacity of 24,000 pounds each. A small number of metal “intermodal” containers will be used for larger debris.

A rail head in Antonito, Colorado would have been used for shipping this waste to Utah. LANL prefers to use rail cars when shipping to the *Energy Solutions* (ES) licensed disposal facility in Utah. Using rail would eliminate as many as 765,000 highway miles, taking the equivalent of 850 truck trips off of roadways. Additionally, there are other rail heads in New Mexico which might be used by LANL.

These shipments would be comprised of debris such as soil, wood, concrete, asphalt, and metal, all of which can be easily retrieved by LANL, its subcontractors, or the rail carrier (with LANL technical support) in the event of an accident.

Comments and Observations

The Hazardous Materials Transportation Uniform Act of 1990 emphasized the need to assess the risks and benefits associated with the transportation of hazardous materials by truck and rail.

In general, the risk measures relating to routing of hazmat by rail or truck that are considered are:

1. potential for terrorists' acts
2. hazardous material release probabilities
3. impact on population and environment in the case of release
4. consequences to population from non-accident risks
5. length of route
6. track conditions

7. highway conditions
8. accident rates for each mode

Shipment by rail will ease truck traffic on highways. One intermodal train can haul the same amount as approximately 280 trucks.

Rail freight transportation incurs about 12 percent of the fatalities and 6 percent of the injuries that trucks do, per trillion ton-miles.

Railroads have an outstanding track record in safely delivering hazardous materials --99.998 percent of all rail cars containing hazardous materials arrived at destination safely, without any release due to an accident.

Recommendation

No. 1 DOE should identify movement of waste that could use rail rather than all waste being transported on roadways.

No. 2 Prior to any shipments, DOE should consult with all involved local communities where loading and unloading may occur, ~~providing information and education about all aspects of the shipments. Concurrence of local communities should be sought before any shipments begin.~~

No. 3 DOE should provide benefits to local communities involved – such as jobs, rental of facilities, improvement of transfer site, and improvement of local roads.

Intent

The intent of this NNM CAB recommendation is to see that the required cleanup at LANL is completed in the safest way, specifically relative to movement of waste.

References

1. H. Barry Spraggins, (University of Nevada, Reno) The case for rail transportation of hazardous materials, Journal of Management and Marketing Research
2. <http://www.aabri.com/manuscripts/09224.pdf>
3. LA-UR-10-00134 Enhancing Safety through Rail Shipments
4. Applicable regulations and official documents:
 - 49 CFR Parts 171-180
 - 49 CFR Subpart G – Emergency Response Information
 - Nuclear Regulatory Commission 540/541 Uniform Low Level Radioactive Waste Manifests
 - *Supplement Analysis for the Proposed Transport of Low Level Radioactive Waste by Truck and Rail from Los Alamos National Laboratory (LANL) for Disposal at Energy Solutions in Clive, Utah* (DOE/EIS-0380-SA-1)