



# PORTSMOUTH EM SITE SPECIFIC ADVISORY BOARD

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

## Proposed Agenda for the November 1, 2012 Board Meeting

|  |  |   |
|--|--|---|
| <b>Chair</b><br>William E. Henderson II  | <b>6 p.m.</b><br>Call to Order, Introductions<br>Review of Agenda<br>Approval of September Minutes   |   |
| <b>Vice Chair</b><br>Val E. Francis  | <b>DDFO Comments</b>   | <b>--15 minutes</b>   |
| <b>Board Members</b><br>Shirley A. Bandy<br>L. Gene Brushart<br>Al Don Cisco<br>Martha A. Cosby<br>Ervin S. Craft<br>Franklin H. Halstead<br>Adrian C. Harrison<br>Carl R. Hartley<br>Brian F. Huber<br>Sharon E. Manson<br>Daniel J. Minter<br>Michael E. Payton<br>Cristy D. Renner<br>Richard H. Snyder<br>Brandon K. Wooldridge<br>Connie E. Yeager<br>Kathy J. Zimmerman-Woodburn | <b>Federal Coordinator Comments</b><br><br><b>Liaison Comments</b><br><br><b>Administrative Issues</b><br><i>EM SSAB National Chairs Meeting Recap</i> <ul style="list-style-type: none"><li>• <b>Will Henderson, Board Chair; Val Francis, Board Vice Chair</b></li></ul> <i>EM SSAB National Chairs Recommendations</i> <ul style="list-style-type: none"><li>• <b>Eric Roberts, EHI Consultants, Inc.</b></li></ul> | <b>--10 minutes</b><br><br><b>--10 minutes</b><br><br><b>--25 minutes</b> |
| <b>Deputy Designated</b><br><b>Federal Official</b><br>Joel Bradburne  | <b>Subcommittee Updates</b>  | <b>-- 10 minutes</b>  |
| <b>DOE Federal Coordinator</b><br>Greg Simonton  | <b>Public Comments</b>   | <b>--15 minutes</b>   |
|  | <b>Final Comments from the Board</b>   | <b>--10 minutes</b>   |
|  | <b>Adjourn</b>   |   |

**Support Services**  
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## PORTSMOUTH EM SITE SPECIFIC ADVISORY BOARD

MINUTES OF THE THURSDAY, NOVEMBER 1, 2012, SSAB MEETING • 6:00 P.M.

**Location:** The Ohio State University Endeavor Center, Room 165, Piketon, Ohio

**Site Specific Advisory Board (SSAB) Members Present:** Chair Will Henderson; Vice Chair Val Francis; Shirley Bandy, Gene Brushart, Al Don Cisco, Martha Cosby, Ervin Craft, Frank Halstead, Carl Hartley, Adrian Harrison, Brian Huber, Sharon Manson, Dan Minter, Dick Snyder, Connie Yeager, Kathy Zimmerman-Woodburn

**SSAB Members Absent:** Michael Payton, Brandon Wooldridge

**U.S. Department of Energy (DOE) and Contractors:** Vince Adams, Joel Bradburne, Greg Simonton, DOE; Rick Greene, Restoration Services, Inc. (RSI); Julie Galloway, Cindy Lewis, EHI Consultants (EHI); Dennis Carr, J.D. Chiou, Deneen Revel, Karen Price, Fluor-B&W Portsmouth (FBP)

**Liaisons:** Maria Galanti, Ohio Environmental Protection Agency (EPA); Mike Rubadue, Ohio Department of Health (ODH)

**Facilitator:** Eric Roberts, EHI Consultants

**Public:** David Manuta, Manuta Chemical Consulting (MC2); Jim Thompson, Damon Detillion

Approved by Will Henderson, Board Chair

## Call to Order:

**Henderson:** I would like to call the meeting to order.

**Roberts:** I would like to welcome everyone, and I will be facilitating the meeting. There will be a public comment period after the presentations. The board should stay within its defined scope and follow the meeting ground rules adopted.

## November Agenda:

**Roberts:** Are there any modifications or proposed changes to the November agenda?

- **Halstead:** I make a motion to approve the November agenda, **Manson:** I second the motion
  - **Motion carried, agenda approved**

## September Minutes:

**Roberts:** Are there any modifications or proposed changes to the September minutes?

- **Minter:** I make a motion to approve the September minutes, **Halstead:** I second the motion
  - **Motion carried, minutes approved**

## DDFO comments provided by Joel Bradburne, Deputy Designated Federal Official (DDFO):

### Agenda

- Support Building D&D
  - X-100 Demolition
  - Successful demolition of the former X-100 Administration Building
  - X-326
- Waste Disposition
  - X-533 Synchronous Condenser Move Off Site
- Environmental Remediation
- Utilities Optimization
  - New Steam Plant
  - PORTS – Steam Distribution System
- DUF6 Conversion Plant
- Regulatory Progress:
  - Waste Disposition RI/FS 9 Sections & 13 Supporting Appendices
- Public Outreach
  - Science Alliance
  - Public Meeting
- Planning for the Future
- Upcoming Events

A copy of the DDFO presentation is available on the SSAB web site ([www.ports-ssab.energy.gov](http://www.ports-ssab.energy.gov))

| <b>Question/Comment:</b>   | <b>Answer:</b>  |
|--|---|
| <b>Snyder:</b> Where are the oxides that The Babcock & Wilcox Company (B&W) services is generating being stored? What is the disposition status? | <b>Bradburne:</b> They will go to Nevada, but they are working through the environmental assessment to support shipment and so in the interim the oxides are being stored in the yards. |

**Federal Project Coordinator comments provided by Greg Simonton, Federal Project Coordinator:** None at this time.

**Liaison comments provided by Maria Galanti, Ohio EPA**

**Galanti:** We did receive one of the appendices from the Remedial Investigation Feasibility Study (RI/FS). It is the Preliminary Design. It was submitted to us early October, and we turned it around quickly, with an 18-page letter that was sent back to DOE saying if you do an on-site disposal cell, these are some of the things we would like you to do.

| <b>Question/Comment:</b>  | <b>Answer:</b>   |
|---|--|
| <b>Francis:</b> Is that report something the SSAB should see?<br><br>Can you get a copy of the letter to EHI? | <b>Galanti:</b> You can look at our comment letter. It might be helpful.<br><br>It is a public document and it should be in the reading room.                    |
| <b>Snyder:</b> Can the Waste Disposition subcommittee have a short briefing from J.D. Chiou?                  | <b>Bradburne:</b> What you may want to do is wait until you see the RI/FS, that way you can see it all in context. J.D. Chiou has been going over this with you. |

**Liaison comments provided by Mike Rubadue, ODH**

**Rubadue:** We participated in the review of the Preliminary Design with EPA and we had some questions.

**Administrative Issues:**

**EM SSAB National Chairs Recommendations, Will Henderson, chair; Val Francis, vice chair**

**Roberts:** We will walk through each recommendation separately. These recommendations came out of the EM National Chairs meeting. We are allowed to vote yes or no for Will Henderson to add his signature to the recommendations as chair of the board. We cannot change them in any way.

|   |  |
|---|--|
| <b>Minter:</b> <i>I recuse myself from this first recommendation.</i>   |  |
| <b>Question/Comment:</b>  | <b>Answer:</b>   |
| <b>Henderson:</b> The first recommendation is to encourage DOE to evaluate additional storage and disposal options for DOE legacy waste that could result from an expansion of the Waste Isolation Pilot Plant (WIPP) disposal mission. | <b>Henderson:</b> This is just to move high-level waste to the WIPP in order to learn from it. |
| <b>Huber:</b> Does this program include converting fuel waste back into a usable form?  | <b>Henderson:</b> This is just to move high-level waste to the WIPP in order to learn from it. |
| <b>Francis:</b> Everyone at the meeting was very pro for this recommendation.   |  |
| <b>Brushart:</b> Where will it be, just one site? How will they ship it?  | <b>Roberts:</b> Yes, just one site. It will be shipped by truck.                               |
| <b>Galanti:</b> Did they go through a public comment period with this proposal?   | <b>Francis:</b> The way it was presented, it was.  |
| <b>Halstead:</b> I feel this is a very important first step.  |  |

**Snyder:** I make a motion to approve this recommendation. **Manson:** I second the motion.

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|--|--|
| <b>Question/Comment:</b>   | <b>Answer:</b>   |
| <b>Roberts:</b> Do we have any public comments on this recommendation? | <b>Manuta:</b> I have done some consulting in New Mexico. One of the things that I have noticed is in the work that I have done out there is that the community does embrace it. |

**Roberts:** We have a motion on the table to allow Will Henderson to sign this recommendation.

- o **Motion carried** (14 approved, 0 against, 0 abstained, 1 recused)

|   |                |
|---|----------------|
| <b>Minter:</b> <i>I recuse myself from the second recommendation.</i>   |                |
| <b>Question/Comment:</b>  | <b>Answer:</b> |
| <b>Francis:</b> The second recommendation is to recommend that DOE work with other national leaders to separate the disposition programs for the Defense Program high-level waste and the commercial nuclear industry high-level waste. |                |

**Manson:** I make a motion to approve this recommendation. **Halstead:** I second the motion.

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|--|----------------|
| <b>Question/Comment:</b>   | <b>Answer:</b> |
| <b>Roberts:</b> Do we have any public comments on this recommendation? | None           |

**Roberts:** We have a motion on the table to allow Will Henderson to sign this recommendation.

- **Motion carried** (14 approved, 0 against, 0 abstained, 1 recused)

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|--|----------------|
| <b>Minter:</b> I recuse myself from the third recommendation.  |                |
| <b>Question/Comment:</b>   | <b>Answer:</b> |
| <b>Henderson:</b> The third recommendation is to fund the development of new technology that will improve the productivity of cleanup projects across the complex. |                |

**Zimmerman-Woodburn:** I make a motion to approve this recommendation. **Cosby:** I second the motion.

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|--|--|
| <b>Question/Comment:</b>   | <b>Answer:</b>   |
| <b>Roberts:</b> Do we have any public comments on this recommendation? | <b>Manuta:</b> Basic research has been in the government since after World War II. This would be the logical place to do it. |

**Roberts:** We have a motion on the table to allow Will Henderson to sign this recommendation.

- **Motion carried** (14 approved, 0 against, 0 abstained, 1 recused)

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| <b>Minter:</b> I recuse myself from the fourth recommendation.   |  |
| <b>Question/Comment:</b>   | <b>Answer:</b>   |
| <b>Francis:</b> The fourth recommendation recommends that DOE place more emphasis and priority on evaluating technologies that could make recycling excess materials cost effective. | <b>Manson:</b> I am really proud of the members who pushed this forward.<br><br><b>Snyder:</b> Will Henderson really chaired this recommendation with help from Susan Leckband from Hanford. |

**Craft:** I make a motion to approve this recommendation. **Yeager:** I second the motion.

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| <b>Question/Comment:</b>   | <b>Answer:</b> |
| <b>Roberts:</b> Do we have any public comments on this recommendation? | None           |

**Roberts:** We have a motion on the table to allow Will Henderson to sign this recommendation.

- **Motion carried** (14 approved, 0 against, 0 abstained, 1 recused)

### **EM SSAB National Chairs meeting Recap**

**Henderson:** The Environmental Management (EM) National Chairs meeting will be held in Hanford next spring and PORTS will be hosting the meeting in the fall. They talk about the whole EM complex. They know that we are awake and actively engaged in the process.

### **Subcommittee Updates:**

#### **Budget and Funding Subcommittee Update by Subcommittee Chair Stan Craft.**

**Craft:** The Budget and Funding Subcommittee met on September 25, 2012. The subcommittee held elections for officers, Chair – Stan Craft, Vice Chair – Sharon Manson. Then we had a very interesting presentation on the Budgeting and Funding Process by Joel Bradburne.

#### **Community Engagement Subcommittee Update by Subcommittee Chair Gene Brushart.**

**Brushart:** The Community Engagement Subcommittee met on September 24, 2012. The subcommittee held elections for officers, Chair – Gene Brushart. We decided to vote on vice chair at the November meeting. Then we discussed a marketing strategy. On October 9, 2012, the subcommittee met again and held elections for vice chair and Michael Payton was elected vice chair. We also had a presentation by Karen Price, on the FBP Envoy Program. She did an excellent job on the presentation. We learned what the program has been doing.

#### **Site Legacy Subcommittee Update by Subcommittee Chair Sharon Manson.**

**Manson:** The Site Legacy Subcommittee met on September 24, 2012. The subcommittee held elections for officers, Chair – Sharon Manson, Vice Chair – Ervin Craft. Then we had a discussion on consulting parties' interaction.

#### **EM National Chairs Planning Subcommittee Update by Subcommittee Chair Martha Cosby.**

**Cosby:** The Chairs Planning Subcommittee met on September 25, 2012. The subcommittee held elections for officers, Chair – Martha Cosby, Vice Chair - Sharon Manson. Ohio will be hosting the 2013 Fall EM National Chairs Meeting. We discussed the agenda and a welcome video that would be shown at the 2013 Spring EM National Chairs Meeting. Our second meeting was on October 10, 2012. We discussed shooting footage for the video while the highlights of fall are still colorful. In addition, we discussed the creation of a logo for the 2013 fall meeting.

#### **Site Optimization and Future Land Use Subcommittee Update by Subcommittee Chair Brian Huber.**

**Huber:** The Site Optimization and Future Land Use Subcommittee met on September 24, 2012. The subcommittee held elections for officers, Chair – Brian Huber, Vice Chair – Brandon Wooldridge. The subcommittee had a presentation on Infrastructure Overview by Jeff Stone and Roger Steckel. Our second meeting was on October 9, 2012. We played an interactive game that informed us about regulatory complexities.

**Waste Disposition & Recycling Subcommittee Update by Chair Richard Snyder.**

**Snyder:** The Waste Disposition & Recycling Subcommittee met on September 24, 2012. The subcommittee held elections for officers, Chair – Richard Snyder, Vice Chair – Connie Yeager. Then we had a discussion on Waste Acceptance Criteria (WAC) recommendation. Our second meeting was on October 9, 2012. We had a background study overview with J.D. Chiou, FBP.

**Executive Subcommittee Update by Will Henderson.**

**Henderson:** The Executive subcommittee met on September 27, 2012. We discussed the annual planning session, what went well and where we can improve. Our second meeting was on October 25, 2012. We talked about board memberships, subcommittees and the national chairs draft recommendations. EHI ordered the board nametags so we can wear them during the public meeting, etc.

**Public Comment:**

**Manuta:** My name is David Manuta. The water wells that were transferred to Piketon. It will be helpful for economic development progress. If we do get some big companies at the site, can the water still be shared? That would make some impact on the development.

**Final Comments from the board:**

| <b>Question/Comment:</b>   | <b>Answer:</b>  |
|--|---|
| <b>Brushart:</b> In the Portsmouth Daily Times paper was a section titled “Editorials around Ohio.” They picked one from the Ironton Tribune. It is on the Ohio Environmental Protection Agency celebrating 40 years this month. | <b>Roberts:</b> Gene, if you let EHI make a copy of the article we can send it out to everyone.   |
| <b>Huber:</b> What role if any does footprint reduction play in DOE’s plan for the Piketon Site?<br><br>What plans for the site are being considered?  | <b>Brandburne:</b> It is a big role. One of the reasons we are here is to go with our environment legacy, risk reduction, safety of human health and the environment. The best way to do that is to reduce our footprint, which goes hand and hand with how well we have done in our impact of human health and safety of the environment. That is one of our core goals. It just takes time. Footprint reduction is what we are all about.<br><br>Long-term goals are to transition property over to some re-industrialization type or reuse organization, maybe even green space. SODI is our community reuse organization. The plan is still to focus on |



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|---|--|
|   | <p>what the end state will be. That is what the board has been working on, footprint reduction is what we are about.</p>   |
| <p><b>Snyder:</b> I read in the Chillicothe paper about a meeting with the Consulate general Japanese concerning industrial expansion into Ohio. The fact that Honda is doing an expansion. The one thing that caught my eye was he stated that there is nothing in the southeast Ohio area therefore southeast Ohio is wide open for expansion. It sounded interesting. I thought maybe someone went to the meeting.</p> |  |
| <p><b>Minter:</b> Didn't you receive some kind of Presidential award or something for the Science Alliance? Everyone who participated in the Science Alliance should be recognized.</p>   | <p><b>Simonton:</b> The Science Alliance did receive a Presidential award from the Ohio School Board Association. They recognized Vince Adams and the event. Many people put a lot of work into the Science Alliance, but I still remember how the SSAB board had some ideas about Public Outreach. I think it is one of the best public outreach events in the whole EM complex. It is a great opportunity to reach several people. Thanks for your support and helping to get it kicked off.</p> <p><b>Adams:</b> At the first Science Alliance, we could not imagine what kind of attendance we would have. The kids were excited. It was not just time off from school, they enjoyed the day. That attendance was good and encouraged us to continue. It gives the kids new opportunities. Thanks again to the SSAB and the community.</p> |
| <p><b>Simonton:</b> We have been designated to host a Regional Science Bowl. We already have 10 schools that expressed interest in putting a team together. We will have a science bowl for high schools in March or April. The winner of that goes to the national event in Washington, D.C. in late April.</p>  |  |

***Henderson adjourned the meeting.***

***Next Meeting Thursday, January 10, 2012, 6 p.m.***

***Action Items:***

- EHI to email the article from the Portsmouth Daily Times to the full board.
- EHI to e-mail the Ohio EPA final comments letter to the full board

# DEPUTY DESIGNATED FEDERAL OFFICIAL PRESENTATION

Joel Bradburne, Site Lead  
U.S. Department of Energy



**Portsmouth Site Specific Advisory Board  
November 1, 2012**

# Agenda

- ▶ Plant Updates
- ▶ Regulatory Progress
- ▶ Public Outreach
- ▶ Planning for the Future
- ▶ Upcoming Events





# Support Building D&D



**X-100 DEMOLITION**

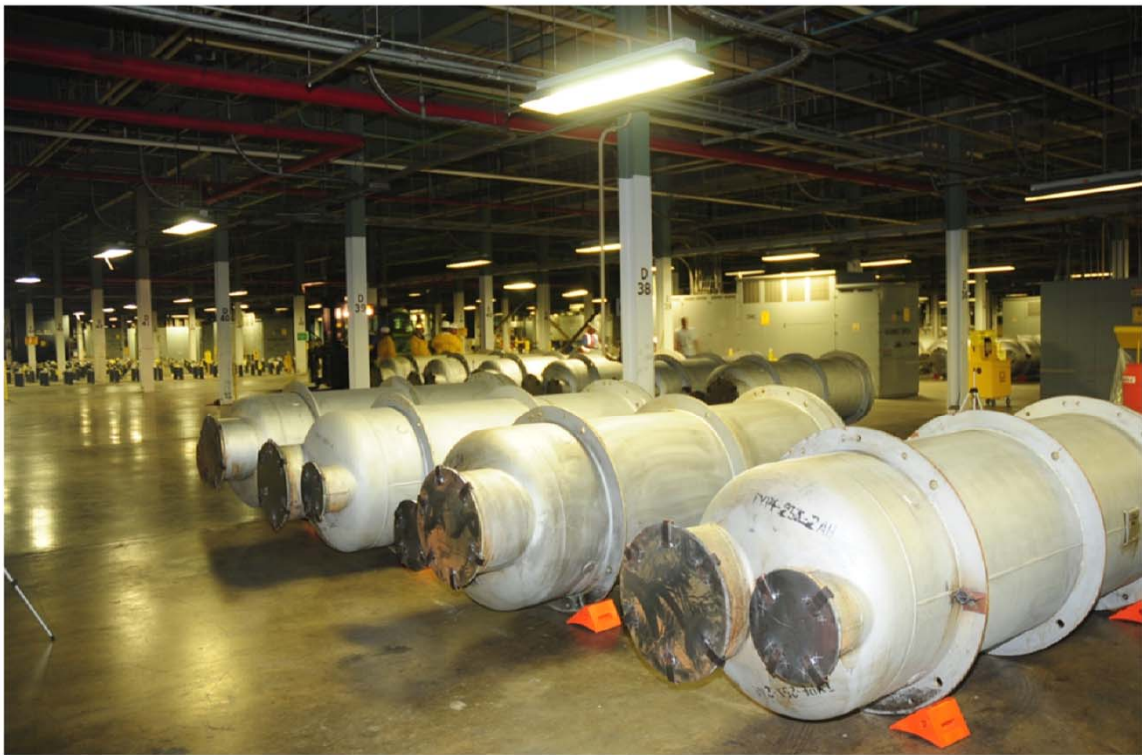


## Successful demolition of the former X-10 Administration Building





X-326





# Waste Disposition







# Waste Disposition



X-533 Synchronous  
Condenser Move Offsite



# Environmental Remediation



**Groundwater Treated :  
28.2 Million Gallons  
in FY2012**

**TCE Removed:  
332 Pounds  
in FY2012**

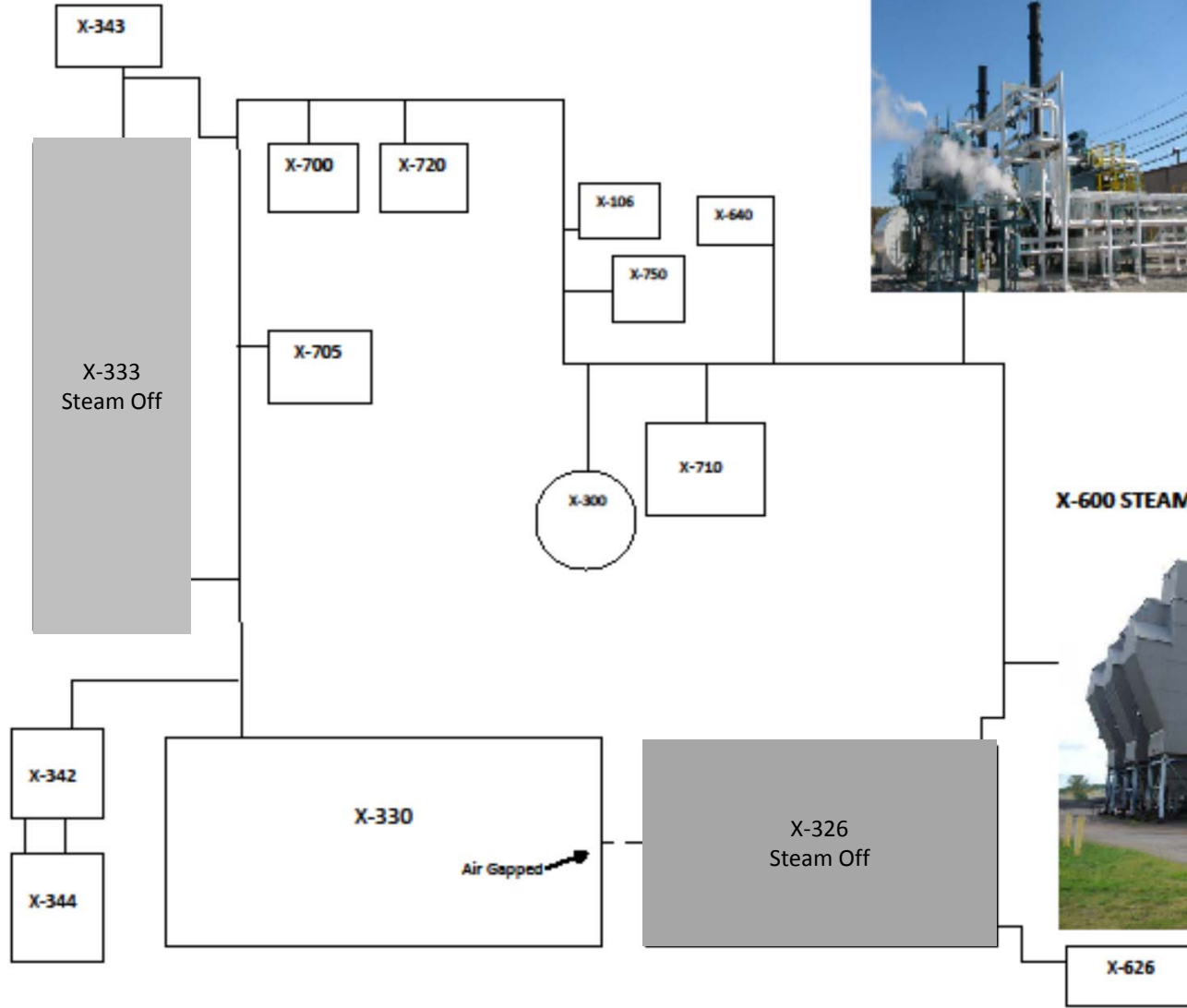


New Steam Plant

UTILITIES OPTIMIZATION

**PORTS – STEAM DISTRIBUTION SYSTEM**

**X-690 STEAM PLANT (FULL SERVICE 10/16/12)**



**X-600 STEAM PLANT (OFF LINE ON 10/16/12)**



**B&W Conversion Services (BWCS) has processed 3271 metric tons of DUF6 as of September 25.**

**BWCS has safely shipped over one half million gallons of HF during FY2012**

**At the end of FY2012 all three lines had been running for 47 days.**

**As of Monday, October 29, 2 lines were running and one is in a planned outage.**



**DUF6 Conversion Plant**



# Regulatory Progress: Waste Disposition RI/FS 9 Sections & 13 Supporting Appendices

| Sections  | Associated Appendices   |
|---|---|
| 1. Introduction   |   |
| 2. Study Area Investigation   | A. Analytical Sample Results<br>B. Boring and Well Installation Logs<br>C. Geotechnical and Geochemical Sample Results  |
| 3. Physical Characteristics of the Study Area                                 | D. Characteristics of Final Candidate Sites   |
| 4. Waste Streams and Volumes  | E. Waste Volumes  |
| 5. Potential Threat to Human Health, Safety, and the Environment              | F. Quantitative Human Health Risk Evaluation  |
| 6. Summary of Problem Statement   |   |
| 7. Preliminary Identification and Screening of Waste Disposition Alternatives | G. ARARs<br>H. Subsidence Avoidance Process Options<br>I. Evaluation of On-site Disposal Process Options<br>J. Draft Numerical WAC  |
| 8. Final Development of Alternatives  | K. On-site Disposal Cell Conceptual Design  |
| 9. Detailed Analysis of Alternatives  | L. Methods and Results to Support Individual Analyses of Alternatives<br>M. Cost Estimate<br>N. Sensitivity Analysis of On-site Disposal with Remedial Action of Plumes and Landfills |



# Public Outreach/Science Alliance





# Public Outreach/Public Meeting







# Planning for the Future

Wells needing power source 

Operating well 



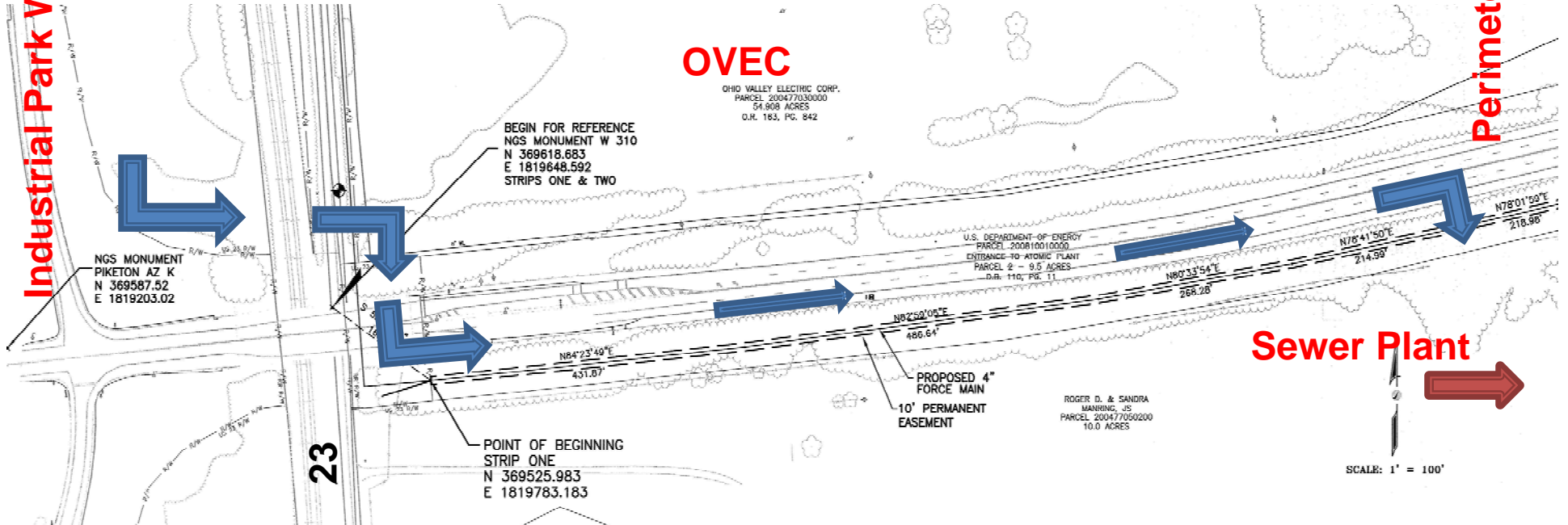
**Old Pump House**

**Piketon Water Supply**



# Planning for the Future

Industrial Park Water Line



Perimeter Rd

Sewer Plant



## Upcoming Events



### **SSAB Full Board Meeting Thursday, January 10**

**MARK YOUR  
CALENDAR!**

*For a full list of SSAB activities,  
check out the website at  
<http://www.ports-ssab.energy.gov>*

EM SSAB Chairs Meeting  
Washington, D.C.  
Draft Chairs' Recommendation  
October 3, 2012

The EM SSAB has noted with considerable interest and support that the Waste Isolation Pilot Plant (WIPP) has been remarkably successful in disposing of transuranic waste (TRU) throughout the DOE complex for approximately ten years. The success of the TRU waste program is among DOE's most notable achievements during this time frame.

The EM SSAB is also aware that the mission of the WIPP is being assessed for possible expansion to include disposal of some surplus plutonium from defense programs weapons production activities and certain other nuclear waste such as Greater-Than-Class-C Waste from NRC-related programs.

The success and activity of the WIPP program represents an opportunity for the DOE to make still further progress in addressing some of DOE's legacy waste streams.

The EM SSAB encourages the DOE to evaluate additional storage and disposal options for DOE legacy waste that could result from an expansion of the WIPP disposal mission.

For example, one specific test program that would support this concept involves shipment of a small number of SRS Defense Waste Processing Facility Canisters from SRS to WIPP for storage and evaluation for disposal. Such a test program would permit DOE to evaluate significant issues in DOE's complex-wide high-level waste disposition program such as:

- Shipment container development issues
- Packaging and shipment/receipt issues for both the shipper and the receiver
- Other transportation issues
- Dealing with consent-based approvals

It is the intent of this test program to provide valuable input and to serve as a precursor for the DOE program for the disposal of DOE's high-level waste.

EM SSAB Chairs Meeting  
Washington, D.C.  
Draft Chairs' Recommendation  
October 3, 2012

The EM SSAB would like to offer one recommendation that should increase the effectiveness and timeliness of addressing the disposal of DOE high-level waste.

It is recommended that DOE work with other national leaders to separate the disposition programs for the Defense Program high-level waste and the commercial nuclear industry high-level waste.

The DOE high-level waste program is at a more advanced stage relative to disposition than the commercial nuclear power industry waste-disposal program. For example, DOE presently has over 3,000 canisters at SRS awaiting the next step in the disposition process. Further, the waste form characterization and content is well known and understood. The same will be true for the waste forms in canisters that will be produced at Hanford and Idaho.

Also, the amount of DOE high-level waste is only 10% of the commercial nuclear volume. It is the intent of this recommendation to afford DOE an opportunity to address a much reduced quantity of high-level waste with well known forms. Disposition of the smaller volume in this manner could serve as an excellent learning tool for addressing the commercial high-level waste-disposition program.

EM SSAB Chairs Meeting  
Washington, D.C.  
Draft Chairs' Recommendation  
October 3, 2012

The EM budget is composed of several components, including costs to maintain the EM complex in a safe 'operations ready' state, out-year compliance costs to meet future regulatory milestones, current-year compliance costs to meet regulatory milestones in the current fiscal year and other costs not directly tied to regulatory milestones.

Included in these costs is funding for the development of new technology that will improve the productivity of cleanup projects across the complex. The enhanced solvent for the Salt Waste Processing Facility at SRS is an example of a successful R&D project.

As the current federal budgeting activities continue to constrain EM cleanup activities, the EM SSAB recommends that DOE not constrain funding in areas of technology research and development. The EM SSAB recognizes that without innovative solutions for the future, the cost and timing of cleanup projects could jeopardize compliance with regulatory milestones and extend cleanup costs beyond reasonable expectations.

PRE-DECISIONAL DRAFT

EM SSAB Chairs Meeting  
Washington, D.C.  
Draft Chairs' Recommendation  
October 3, 2012

The EM SSAB recommends that DOE place more emphasis and priority on evaluating technologies that could make recycling excess materials cost effective. Decontaminating these materials for resale can have many positive benefits:

- Saving space in onsite CERCLA disposal cells
- Adding more dollars for cleanup from the sale of excess
- Reducing cumulative environmental insult
- Reducing long-term monitoring and stewardship costs

To facilitate continuous cost-effective recycling, the EM SSAB recommends that DOE identify and establish a national recycling center of excellence, incentivize contractors to recycle and repurpose items, and add a recycling and repurposing element to future Requests for Proposals.

PRE-DECISIONAL DRAFT