



# PORTSMOUTH EM SITE SPECIFIC ADVISORY BOARD

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

## Proposed Agenda for the October 6, 2016 Board Meeting

### Chair

Robert L. Berry

### Co-Vice Chairs

Lisa Bennett

Carlton L. Cave

### Board Members

Eric A. Braun

Bradley Burns

Maddeline C. Caudill

Al Don Cisco

Dennis Foreman

Carl R. Hartley

Ronda J. Kinnamon

Neil Leist

Bernard S. Neal

Irma C. Payne

Cynthia Quillen

Jimmy E. Smalley

Gregory Stepp

Judy R. Vollrath

**6 p.m.**

Call to Order, Introductions

Review of Agenda

Approval of May Minutes

**DDFO Comments**

**--15 minutes**

**Federal Coordinator Comments**

**--10 minutes**

**Liaison Comments**

**-- 5 minutes**

**Presentation - Robotics Technology, Marty Reibold, Fluor-BWXT**

**--20 minutes**

**Administrative Issues**

**--20 minutes**

- **SSAB Draft Recommendation 16-02**
  - Public Comments on Recommendation
  - Board Comments on Recommendation
- **Annual Executive Planning and Leadership Training Session Update**

**EM SSAB National Chairs Meeting Update**

**--5 minutes**

**Bob Berry and Carlton Cave**

### Deputy Designated

### Federal Official

Joel Bradburne

**Election of Chair and Vice Chair**

**--10 minutes**

**Adoption of FY 2017 Work Plan**

**--10 minutes**

### DOE Federal Coordinator

Greg Simonton

**Subcommittee Updates**

**--5 minutes**

**Public Comments**

**--15 minutes**

**Final Comments from the Board**

**--15 minutes**

### Support Services

EHI Consultants, Inc.

1862 Shyville Road

Piketon, OH 45661

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Fax 740.289.1578

**Adjourn**



**PORTSMOUTH EM  
SITE SPECIFIC ADVISORY BOARD**

MINUTES OF THE THURSDAY, OCTOBER 6, 2016, SSAB MEETING • 6:00 P.M.

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

**Site Specific Advisory Board (SSAB) Members Present:** Chair Bob Berry, Lisa Bennett, Brad Burns, Carol Caudill, Carlton Cave, Al Don Cisco, Dennis Foreman, Ronda Kinnamon, Cynthia Quillen, Jimmy Smalley, Judy Vollrath

**SSAB Members Absent:** Eric Braun, Neal Leist, Carl Hartley, Bernie Neal, Charlene Payne, Greg Stepp

**U.S. Department of Energy (DOE) and Contractors:** Joel Bradburne, Greg Simonton, DOE; Rick Greene, Greg Wilkett, Restoration Services, Inc. (RSI); Julie Galloway, Cindy Lewis, EHI Consultants (EHI); Jeff Wagner, Jill Thomson, Eric Woods, Marty Reibold, Fluor-BWXT Portsmouth (FBP)

**Liaisons:** Shannon Dettmer, Ohio Department of Health (ODH); Dustin Tschudy Ohio Environmental Protection Agency (EPA)

**Facilitator:** Eric Roberts, EHI

**Public:** Damon Detillon, PMA; Lee Blackburn, Diana Cahall

Approved by Bob Berry, Board Chair

Bob Berry

## **Call to Order:**

**Berry:** 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 as adopted.

## **October Agenda:**

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

- **Cave:** I make a motion to approve the October agenda
- **Caudill:** I second the motion
  - **Motion carried, agenda approved**

## **May Minutes:**

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

- **Bennett:** I make a motion to approve the May minutes
- **Quillen:** I second the motion
  - **Motion carried, minutes approved**

## **DDFO comments provided by Joel Bradburne, Site Lead, DOE:**

- **D&D Safety Update**
- **PORTS Integrated Baseline**
- **Deactivation of X-326 & X-333**
- **Prepping the Old Range for OSWDF**
- **OSWDF Groundbreaking**
- **OSWDF Update**
- **X-120H Weather Tower Upgrades**
- **Deactivation of the X-626 Recirculating Colling Water Facility**
- **RCRA Waste Management at PORTS**
- **Major Sampling Effort Concluded**
- **Property Transfer**
- **Environmental Remediation**
- **Site Tours**
- **Mutual Aid**
- **Community Outreach**
- **Educational Outreach**
- **Community Outreach**
- **Upcoming Site Events**

<b>Question/Comment:</b>	<b>Answer:</b>
<b>Foreman:</b> How do you go about signing up for the public tours?	<b>Wagner:</b> I will get you Sandy Childers' contact information.

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

**Federal Project Coordinator comments provided by Greg Simonton, Federal Project Coordinator:**

- **Outreach Activities**
- **Science Alliance**
- **Employee Giving Campaign**

**Liaison comments provided by Shannon Dettmer, ODH:**

**Dettmer:** None

**Liaison comments provided by Dustin Tschudy, OEPA:**

**Tschudy:** Everything is going really well.

**Presentation-Robotics Technology- Marty Reibold, Fluor-BWXT:**

- **Science of Safety Initiative**
- **Science of Safety**
- **Robotic Technology Thrust**
- **What is a ROBOT?**
- **Robotic Technologies Test Bed**
- **"The Challenge"**
- **By the numbers...**
- **Collaborators**
- **Next-Generation PPE**
- **New Tools of the Trade**

<b>Question/Comment:</b>	<b>Answer:</b>
<b>Simonton:</b> Any opportunities for follow-up work with the robotics?	<b>Reibold:</b> Yes, we are looking at several. Working on freeing up some funding. Just making sure there is a need for the robotics.
<b>Roberts:</b> Do you see another event like this down the road with new technology as it becomes available?	<b>Reibold:</b> I think that is a real possibility. This is a great test bed. We have about everything you can imagine out there.

**Administrative Issues:**

**SSAB Draft Recommendation 16-02 discussion:**

<b>Question/Comment:</b>	<b>Answer:</b>
<b>Vollrath:</b> Joel, what is the downside of a becoming a closure site? What are the negatives?	<b>Bradburne:</b> You have to know exactly what you want. I do not see any negatives for us.
<b>Roberts:</b> Let us take a show of hands. Do you want to vote on this tonight or do you want to table it and discuss it at the subcommittee meetings next week?  I need a motion to table Recommendation 16-02 until the next meeting.	<b>Foreman:</b> Before I vote on something that will last 1000 years. I am new to all this and I want to learn. I would like time to do some research, and I would like to request a third party assessment.  <b>Burns:</b> I would recommend that we table this and look at it again.  <b>Berry:</b> I am fine if we want to table it for tonight.  <b>Cisco:</b> I make a motion to table the recommendation.  <b>Burns:</b> I seconded the motion.

**Motion tabled** (11 approved, 0 opposed, 0 abstained, 0 recused)

**Adoption of FY 2017 Work Plan, Eric Roberts, EHI:**

**Bennett:** I make a motion that we accept our work plan as presented.

**Burns:** I second the motion.

**Roberts:** There is a motion on the table to approve the FY 2017 work plan. All in favor raise your hand.

**Motion carried** (11 approved, 0 opposed, 0 abstained, 0 recused)

**EM SSAB National Chairs Meeting Recap-Bob Berry, Board Chair; Carlton Cave:**

**Berry:** The chairs meeting was held in Nevada at the end of August, first of September. There was a site tour on Tuesday. PORTS is their top shipper. Paducah brought up nickel and they said they do not have a buyer for that right now.

**Cave:** Very interesting meeting. After seeing the disposal cell there, I feel really confident with the new technology. PORTS does not have the same problems that the other sites have.

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

*2015 PIKE COUNTY CHAMBER OF COMMERCE ORGANIZATION OF THE YEAR*

**Roberts:** The next chairs meeting will be held May 9-11, 2016, in Paducah, Kentucky.

### **Election of Chair and Vice Chair, Eric Roberts, EHI:**

**Roberts:** Any other nominations for board chair?

- o **Bennett:** I nominate Bob Berry for board chair.

**Roberts:** Please show of hands, all in favor of Bob Berry serving as chair

*Nomination carried (11 approved, 0 opposed, 0 abstained, 0 recused)*

**Roberts:** We have had two folks interested in vice chair but there are some constraints on the time they can give, so we came up with co-vice chairs. Does this sound Ok to you?

- o **Caudill:** I would like to nominate Lisa Bennett and Carlton Cave as co-vice chairs.

**Roberts:** Please show of hands, all in favor of Lisa Bennett and Carlton Cave serving as co-vice chairs.

*Nomination carried (11 approved, 0 opposed, 0 abstained, 0 recused)*

### **Subcommittee Updates:**

#### **Budget and Lifecycle Planning Subcommittee Update by Judy Vollrath:**

**Vollrath:** The Budget and Lifecycle Planning Subcommittee met on May 10. The purpose of the meeting was to discuss Priorities for FY18 Budget request. The subcommittee met on June 14. The purpose of the meeting was to give a barter update. The subcommittee met on September 13. The purpose of this meeting was to hold election of subcommittee leadership and recap of the work plan and planning session.

#### **D&D/Remediation Subcommittee Update by Al Don Cisco:**

**Cisco:** The D&D/Remediation and Future Use Subcommittee met on May 10. The purpose of the meeting was to have an overview on pump and treat. The subcommittee met on September 13. The purpose of this meeting was to hold election of subcommittee leadership and recap of the work plan and planning session.

#### **Historic Legacy & Community Engagement Subcommittee Update by Carol Caudill:**

**Caudill:** The Historic Legacy & Community Engagement Subcommittee met on May 10. The purpose of the meeting was to present a recap on the National Science Bowl. The subcommittee met on June 14. The purpose of the meeting was to have an

overview of scholarships and internships. The subcommittee met on September 13. The purpose of this meeting was to hold election of subcommittee leadership and recap of the work plan and planning session.

**Future Use Subcommittee Update by Carlton Cave:**

**Cave:** The D&D/Remediation and Future Use Subcommittee met on May 10. The purpose of the meeting was to present on Ohio University Grant activities. The subcommittee met on June 14. The purpose of the meeting was to have a discussion on Waste Acceptance Criteria. The subcommittee met on September 13. The purpose of this meeting was to hold election of subcommittee leadership and recap of the work plan and planning session.

**Public Comment:**

**Blackburn:** I would like to take a minute and talk on establishing PORTS as a closure site. I was one of the original board members and I have been coming to these meetings for years. Every year there is a struggle to find the right amount of money to prevent layoffs. Last year I know Dennis Carr was looking at the possibility of laying off 200 to 250 people, so becoming a closure site would eliminate that and make it much more steady for those who are employed. They would know that they would continue to be employed. It would help with on-site personnel because they would know that each year they would have a job. Most important I am concerned about the site being reutilized. There is nothing more that businesses hate than not knowing when they can do something. They would be more likely to come if they knew a finalized date that they could come.

**Final Comments from the board:**

**Berry:** I would like to thank Dustin Tschudy. I know that he spent three days at the Science Alliance and is here at the meeting tonight.

**Roberts:** One thing I wanted to mention is that when we called headquarters to make sure that we were legal in voting in co-vice chairs since it is not in our by-laws, they said we really should look at our by-laws and streamline them. Therefore, I just want you to be aware that we will be working on those.

**Berry:** adjourned

**Next Meeting:** November 3, 2016

**Action Items:** None.

PREPARING THE FUTURE

# PORTS

D & D PROJECT

# DEPUTY DESIGNATED FEDERAL OFFICIAL PRESENTATION

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

**Portsmouth Site Specific Advisory Board  
October 6, 2016**





- Safety
- Plant Updates
  - X-326 & X-333 Deactivation
  - On-Site Waste Disposal Facility (OSWDF)
  - Land Transfer
- Community Outreach
- Upcoming Events



## D&D Safety Update

As of 9/25/16, worked 183 days without a lost time incident.

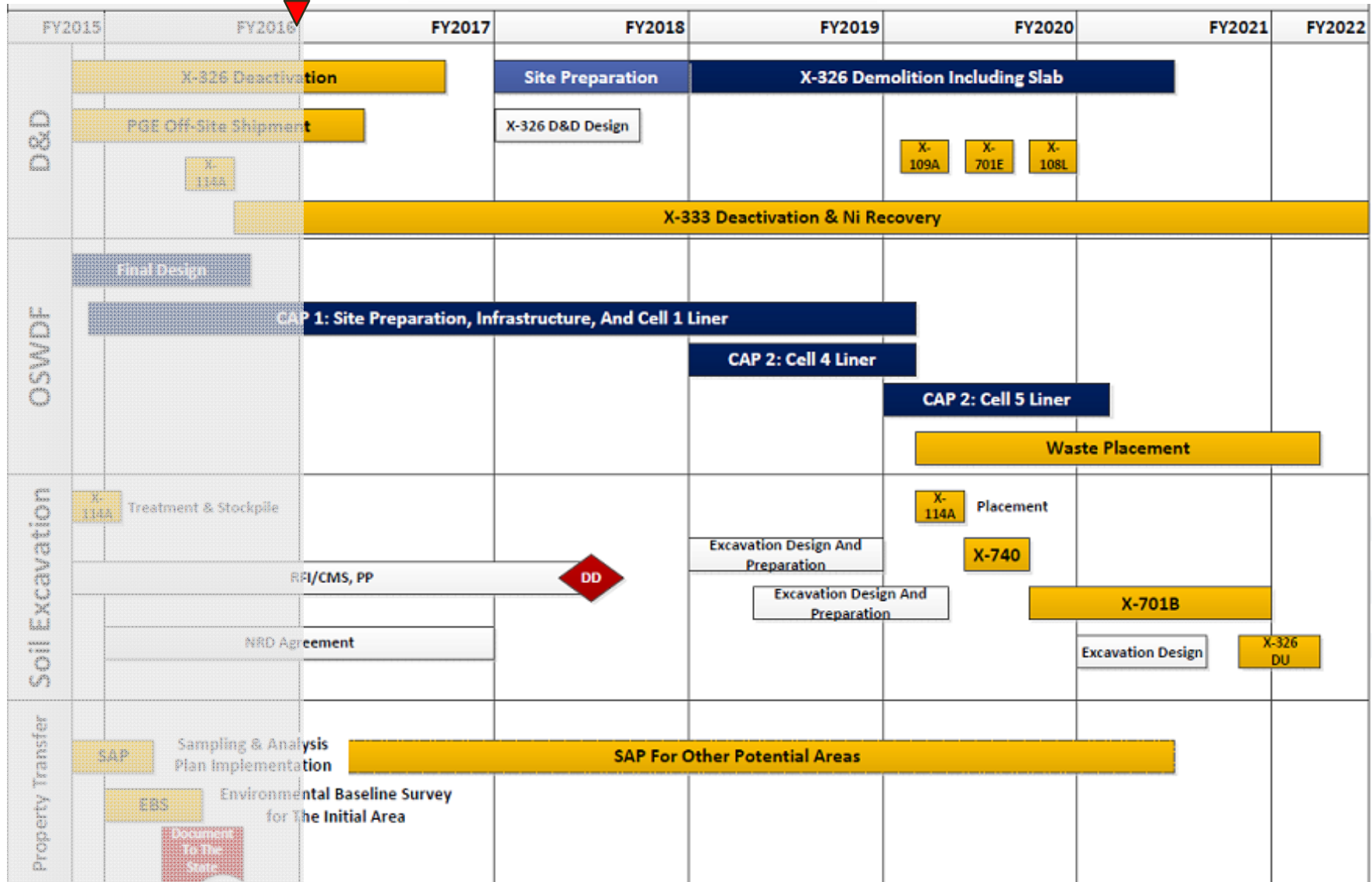
As of 9/25/16, five recordable injuries in CY 2016.

As of 9/25/16, eight recordable injuries in FY 2016.

**YOU are the KEY to SAFETY!**

# PORTS Integrated Baseline

Next 5 Years





# Deactivation of - X-326 & X-333



# Prepping the Old Range for OSWDF

142,540 lbs. of scrap metal  
sent to SODI to be recycled.





# OSWDF Groundbreaking



# OSWDF Update



**Sediment Pond as of 9-20-16**





# X-120H Weather Tower Upgrades

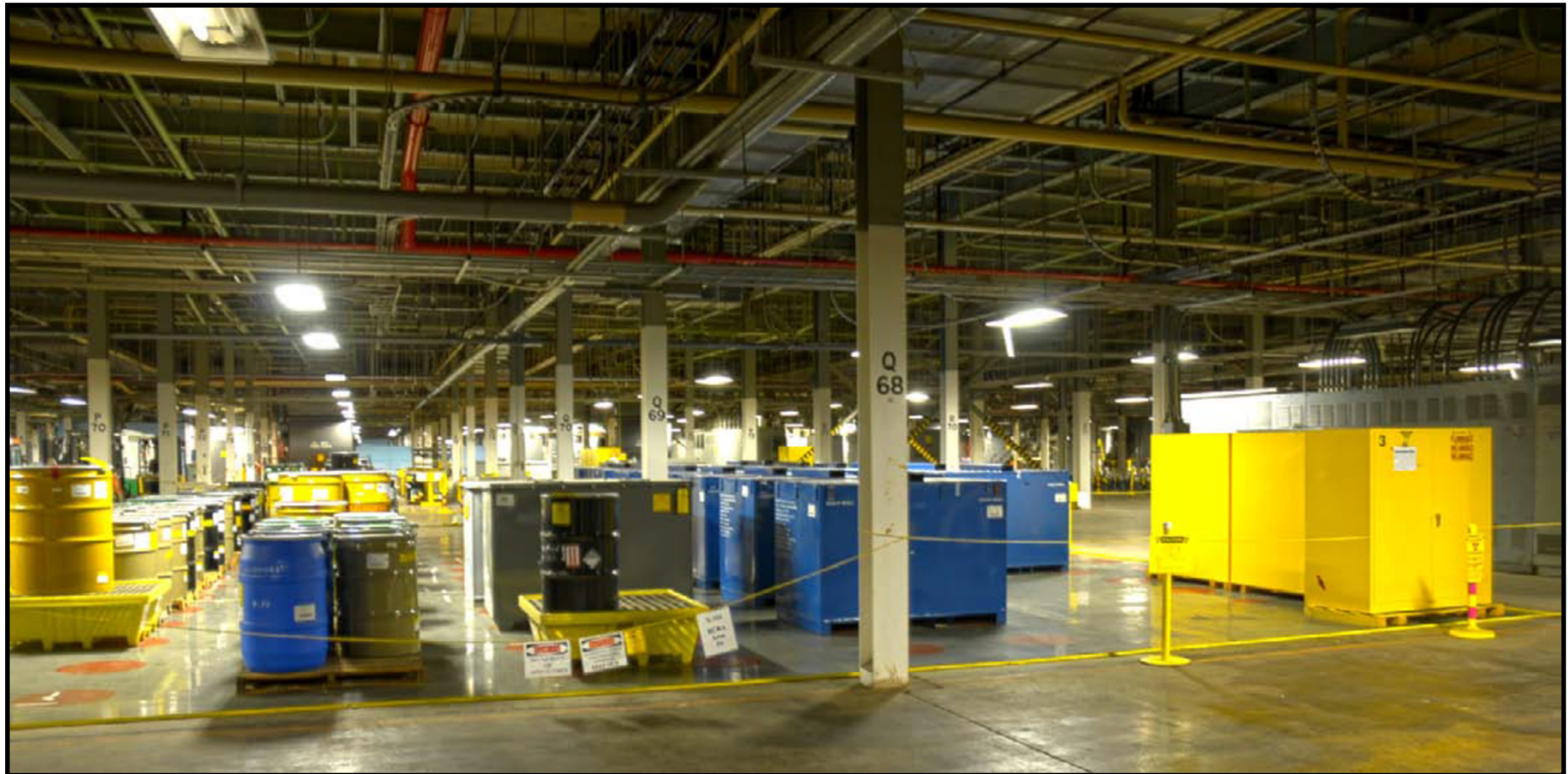




# Deactivation of the X-626 Recirculating Cooling Water Facility

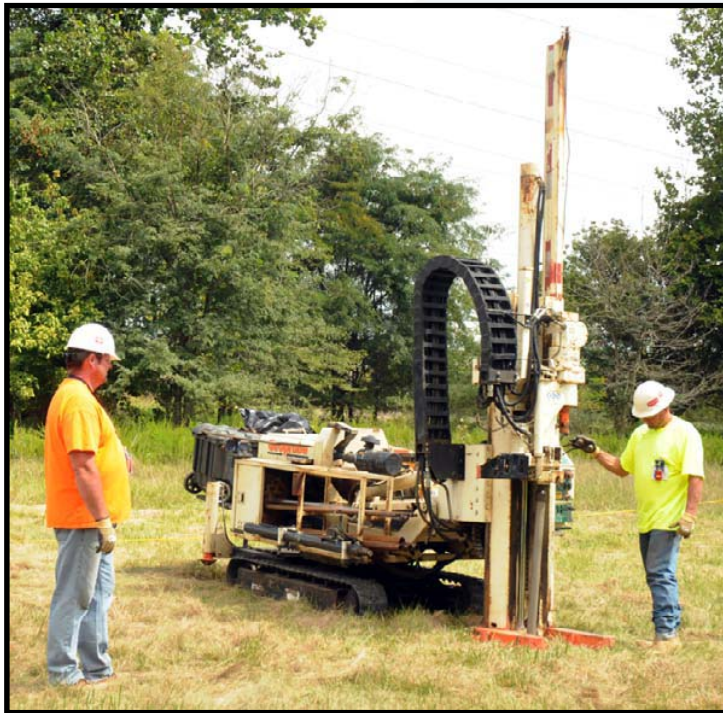


# RCRA Waste Management at PORTS



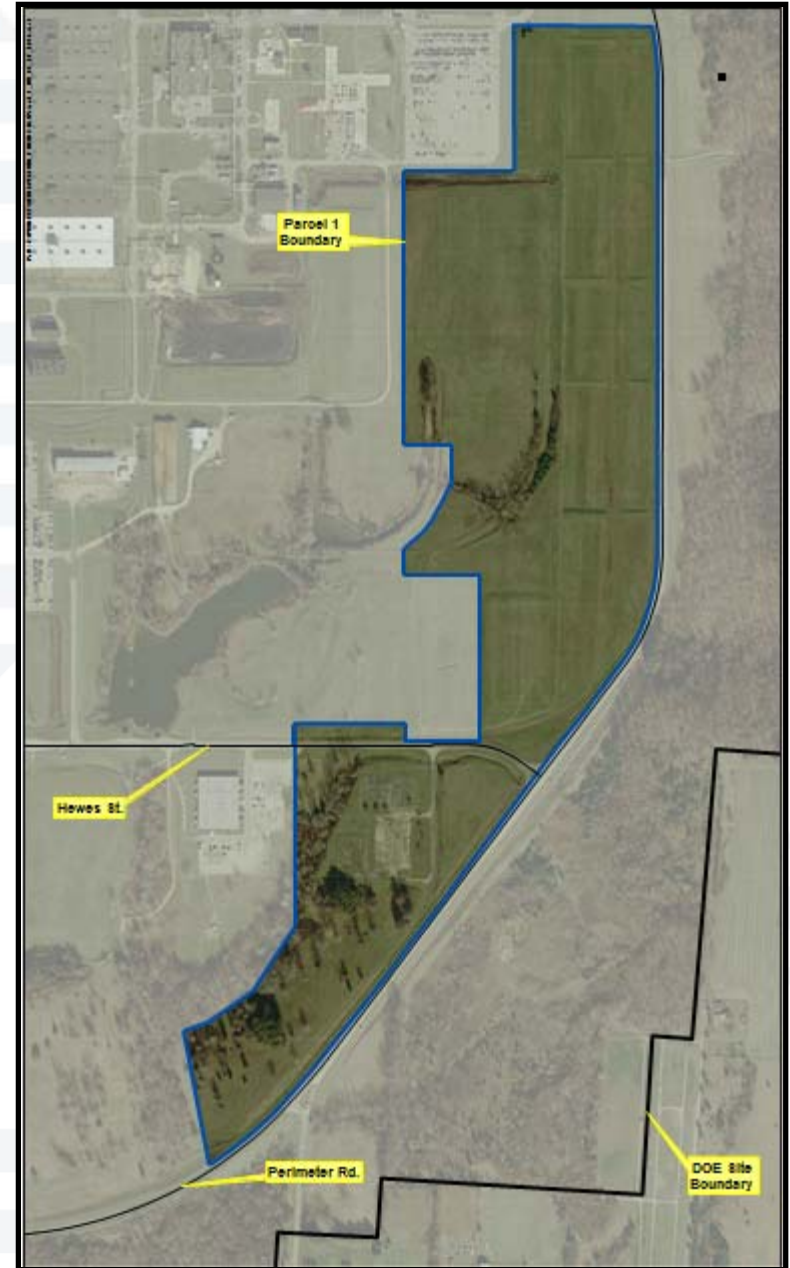


# Major Sampling Effort Concluded



# Property Transfer

- SODI has delivered a formal request for approximately 80 acres of property.
- DOE has formally agreed to pursue transfer
- Environmental baseline survey complete
- Transfer on schedule for spring 2017
- Property appraisal in development by EMCBC





# Environmental Remediation



Groundwater Treated FY2016	Groundwater Source	TCE Removed FY2016 lbs.
2,379,100 Gallons	X-701B Plume	92.49
46,905 Gallons	Misc. Site	0.13
10,183,730 Gallons	7-Unit Plume	123.87
17,801,400 Gallons	5-Unit & X-749/ X-120 Plumes & PK Drainage	19.23

The totals from March 29, 2011 (FBP Contract) through August 2016 are:

Treated 170 Million Gallons of groundwater  
 Removed 1872.3 pounds of Trichloroethylene (TCE)

# Site Tours



Local Educators



SSAB Tour



Jackson, Pike, Ross, Scioto Commissioners



SODI Board Members Tour



Village of Piketon Tour



Ohio EPA



Science of Safety  
Robotic Workshop

# Mutual Aid

Off-Site Request FY2016	
Vehicle Accidents	9
Structure Fires	5
Other Fires	4
HazMat Response	1
Medical	4
<b>Total</b>	<b>23</b>





# Community Outreach

Fluor-BWXT Grant Helps New Business in Jackson County Add Jobs

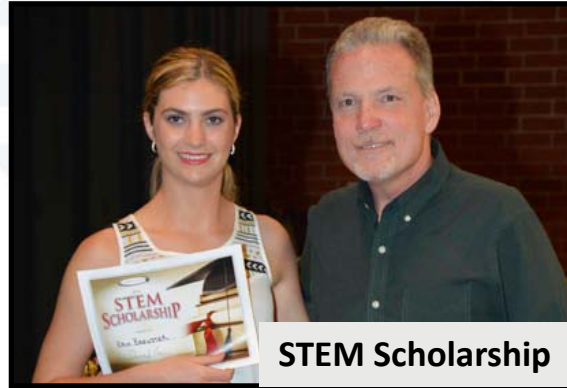




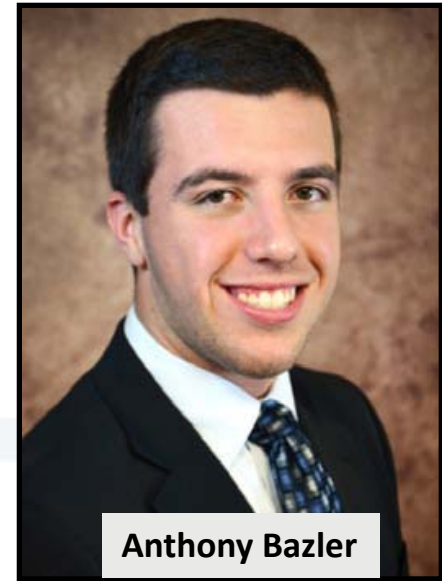
# Educational Outreach



Environment Data Base Online



STEM Scholarship



Anthony Bazler



ASER



Interns



Interns



# Community Outreach



Pike County Trade Show



Feds Feeds Families



Relay for Life



American Red Cross Power of the Purse



County Fairs



Scioto Co. Health Coalition



Comfort Bag Cookout



Blood Drive

# Upcoming Site Events



Public Tour  
Saturday, October 15, 2016



SSAB Full Board Meeting  
Thursday, November 3, 2016

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

PREPARING THE FUTURE

# PORTS

D & D PROJECT

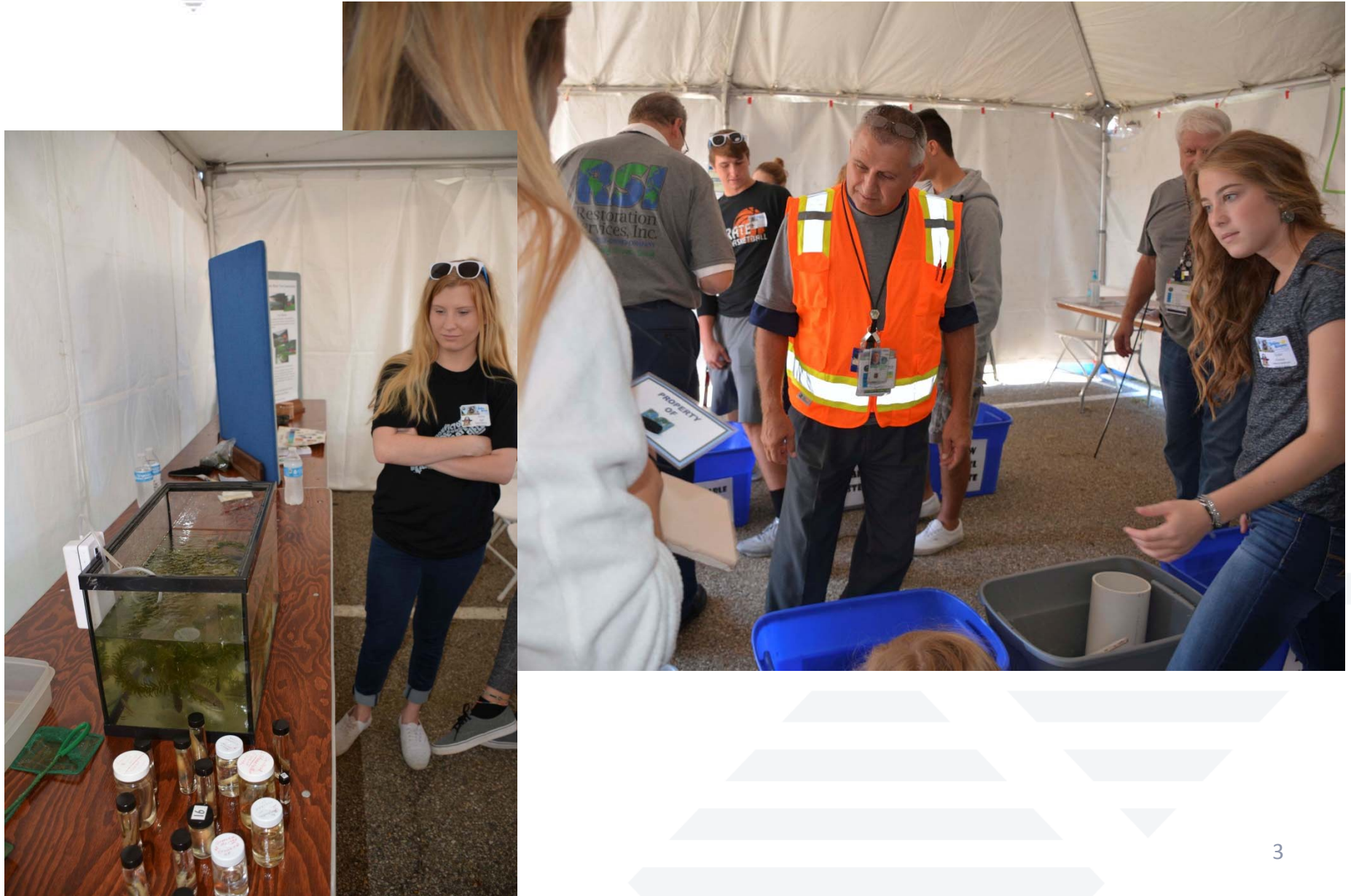
# Outreach Activities



# Science Alliance

- Oct. 4, 5 & 6
- Record Attendance!













1/18/2017

# Employee Giving Campaign

- September 6 – October 3





# Employee Giving Campaign



1/18/2017

# Employee Giving Campaign



PREPARING THE FUTURE

# PORTS

D & D PROJECT

## Robotics Technology Thrust

**Marty Reibold**

Director of Strategic Initiatives

Fluor-BWXT Portsmouth

October 2016



# Science of Safety Initiative

Robotic Technology Thrust  
Focus on the EM Workforce

# Science of Safety

**Infusing and integrating scientific and technological advancements into the routines of work planning and execution in a manner that**

- **improves safety and quality and**
- **reduces the government's liability for cleanup**



# Robotic Technology Thrust

EM is actively promoting the use of **advanced robotic technologies** as a key **mission-enabler**

Work

SAFER

Work

SMARTER

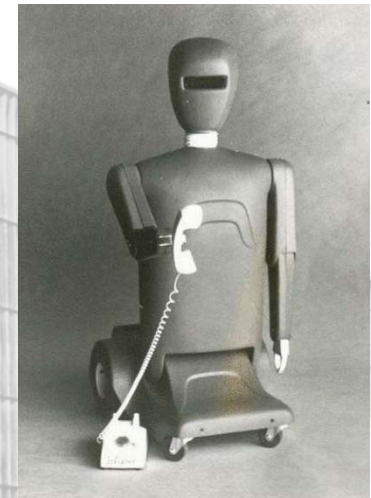
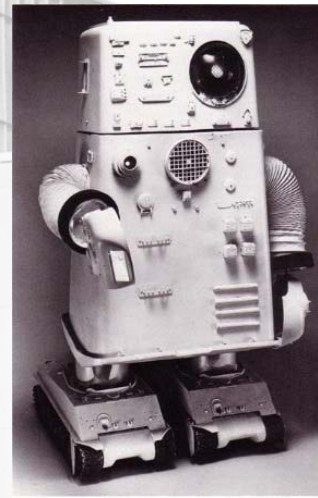




# What is a *ROBOT*?

A **reprogrammable, multifunctional manipulator** designed to move material, parts, tools, or specialized devices through various programmed motions for the **performance of a variety of tasks**

*Robot Institute of America, 1979*



# What is a *ROBOT*?

An **actuated mechanism** programmable in two or more axes with a degree of autonomy, moving within its environment, to **perform intended tasks**

service robot: a robot that **performs useful tasks** for humans or equipment

industrial robot: an automatically controlled, **reprogrammable, multipurpose manipulator** programmable in three or more axes, which may be either fixed in place or mobile for use in industrial automation applications

*International Organization for Standardization 8373,  
“Robots and robotic devices – Vocabulary,” 2012*

# What is a *ROBOT*?

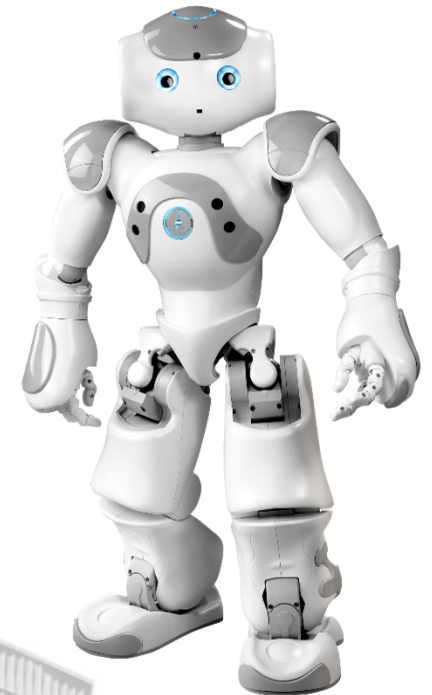
**1a:** a **machine** that looks like a human being and **performs various complex acts** of a human being;

also: a similar but fictional machine whose lack of capacity for human emotions is often emphasized

**1b:** an efficient insensitive person who functions automatically

**2:** a **device** that **automatically performs complicated often repetitive tasks**

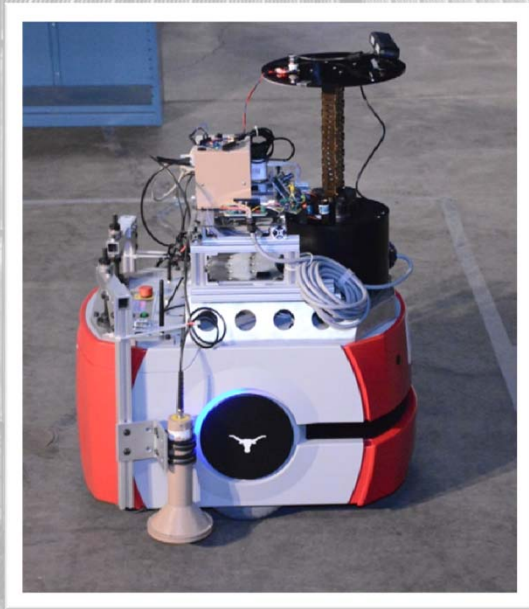
**3:** a **mechanism guided by automatic controls**



*Merriam-Webster Online*

# Robotic Technologies Test Bed

Portsmouth Deactivation and Decommissioning Project



# “The Challenge”

- Demonstrate relevancy and utility of robotic technologies to catalyze the Science of Safety initiative

- Key Features

- Worker safety
- Work performance
- Relevant technologies
- Field demonstrations
- Workforce engagement
- Utility
- Workers operation
- Complete by summer’s end



# By the numbers...

- 4 days
- 24 robots
- 30 USW/FBP workers
- 11 expert roboticists and technologists
  - 2 DOE national labs
  - 2 other federal labs
  - 2 not-for-profits
  - 5 universities





# Collaborators



# Next-Generation PPE



**Smart robotic PPE** will become as common as hard hats, safety glasses, ear plugs, high-visibility vests, filtered masks, steel-toed shoes, and gloves.





# New Tools of the Trade

**Robotic technologies** will become a common tool in the workers' toolbox.

