

Portsmouth EM Site Specific Advisory Board

Speakers Bureau Presentation



Background

The Portsmouth Gaseous Diffusion Plant was built from 1952-1956 as the last of three gaseous diffusion plants constructed to enrich uranium for the nation's nuclear weapons program and later for commercial nuclear reactors.

- ❑ First plant was the K-25 plant located in Oak Ridge, Tennessee, which ceased operations in 1985.
The site is undergoing D&D.
- ❑ Second plant, located in Paducah, Kentucky, is currently enriching uranium for commercial nuclear reactors and is operated by the United States Enrichment Corporation (USEC).
- ❑ Portsmouth facility ceased operation in May 2001.



Background



- ❑ In order to provide electrical power for the plant, the government contracted with 15 private utility companies, which formed two new companies to build and operate generating plants in Cheshire, Ohio, and Madison, Ind.
- ❑ They provided a whopping 2.2 million kilowatts around the clock, totaling 15 trillion kilowatts a year. That was more usage than the states of Kentucky and Indiana combined.
- ❑ The power utilized at the Portsmouth Gaseous Diffusion Plant accounted for 3 percent of the nation's total energy consumption and was more than the output of the Hoover Dam.

Background

- ❑ During peak production, a large amount of water was needed for daily operation.
- ❑ More than 500,000,000 gallons of water (enough to fill over 750 Olympic size swimming pools) circulated daily to cool the process equipment.
- ❑ About 20,000,000 gallons of water evaporated daily.
- ❑ Four million gallons of potable water were consumed daily.



Water vapor is discharged out of the cooling tower complex (top right). The water treatment plant is shown in the center.



WHO WE ARE. The Advisory Board is a sub-element of the Department of Energy's Environmental Management (EM) Advisory Board. The Board is chartered under the Federal Advisory Committee Act. The PORTS EM SSAB is a nonpartisan, broadly representative five surrounding counties, organization consisting of a balanced mix of diverse interests with concerns related to the Portsmouth Site EM activities.

HOW WE HELP. Ensure high quality, timely, meaningful, and effective public participation in decisions regarding environmental management and related DOE activities at the Portsmouth Site.

LOCATION. The Advisory Board office is located in the OSU Endeavor Center on Shyville Road in Piketon. You can also visit our website <http://www.ports-ssab.energy.gov>



SSAB Network



U.S. DEPARTMENT OF
ENERGY



Portsmouth/Paducah Project Office
William Murphie, Lexington, KY
Manager
Vince Adams, Portsmouth
Site Director
Joel Bradburne, Portsmouth
Deputy Designated Federal Official
Greg Simonton, Portsmouth
Federal Coordinator



The Portsmouth SSAB is a board that represents the public and assists DOE with key decisions related to the Portsmouth Gaseous Diffusion Plant.



Michael Logan
RSI Program Director
Rick Greene
Communications Specialist



Eric Roberts, *Project Director*
Julie Galloway, *Project Manager*
Cindy Lewis, *Administrative Assistant*



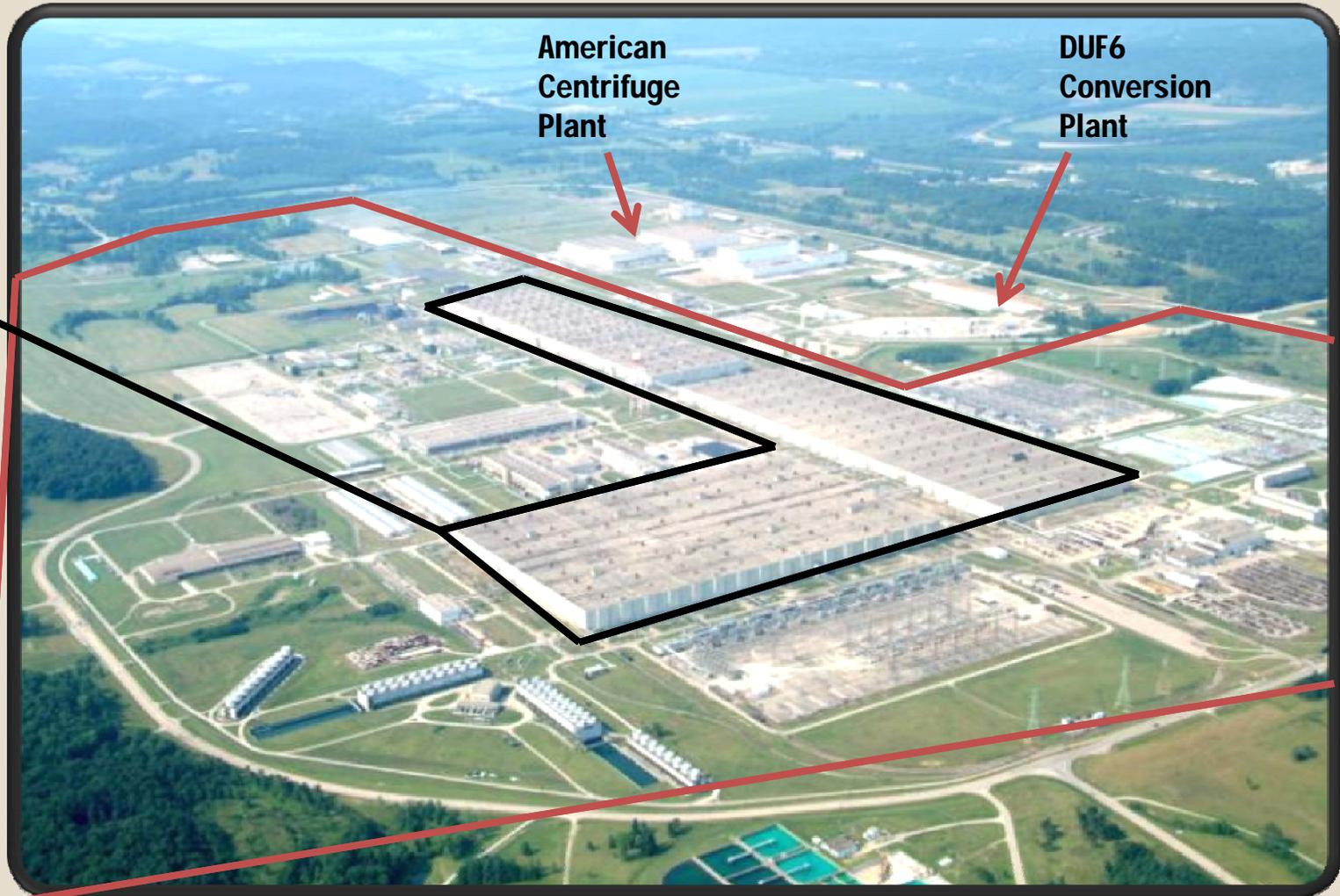
Citizens Advisory Board

The Federal Advisory Committee Act (FACA) became law in 1972 and is the legal foundation defining how federal advisory committees operate. Several such committees, like the Portsmouth SSAB, exist across the country.



LAND USE AT THE SITE. DOE shares industrial land use of the federal reservation with other private entities.

The Three Process Buildings have enough floor space to cover 316 football fields



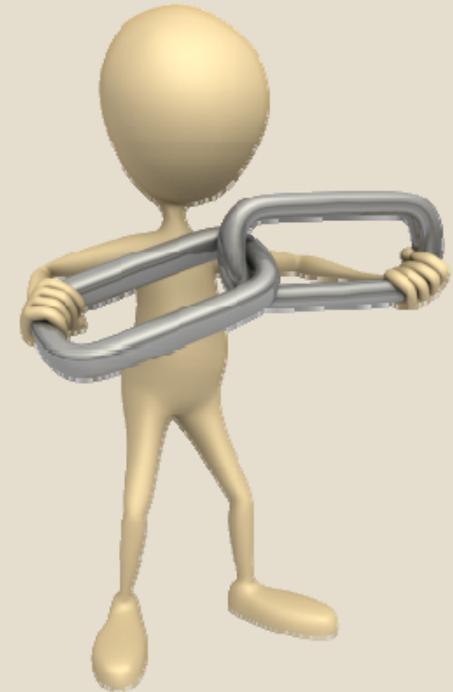
Gaseous Diffusion Plant



Mission

The Portsmouth SSAB mission is to provide advice and recommendations concerning the following EM site-specific issues:

- Environmental Restoration
- Waste Management (D&D)
- Recycling
- Future Land Use and Long Term Stewardship.
- The Board may also be asked to provide advice and recommendations on any other EM projects or issues.





The Board consists of the following community members who represent government, education, development, retirees and other aspects of the private sector:

Shirley Bandy-Pike County
Gene Brushart-Pike County
Lindy Coleman-Scioto County
Martha Cosby-Jackson County
Ervin Craft-Scioto County
Val Francis-Pike County
Frank Halstead-Scioto County
William Henderson-Pike County

Brian Huber- Pike County
Michael Lilly-Pike County
Sharon Manson-Pike County
Dan Minter-Pike County
Daniel Moore-Jackson County
Larry Parker-Pike County
Michael Payton-Scioto County
Cristy Renner-Ross County

Roger Scaggs-Pike County
Terri Smith-Cabell County
Richard Snyder-Ross County



Organizational Chart



DOE-EM DESIGNATED FEDERAL OFFICIAL – Catherine Brennan

DOE DEPUTY DESIGNATED FEDERAL OFFICIAL – Joel Bradburne

DOE FEDERAL OFFICER – Greg Simonton

SSAB LEADERSHIP
CHAIRMAN – Richard Snyder
VICE CHAIRMAN – Larry Parker

SUPPORT CONTRACTORS

REGULATORS



RESTORATION SERVICES, INC.

ED HOLMES, INC.

OHIO ENVIRONMENTAL PROTECTION AGENCY

OHIO DEPARTMENT OF HEALTH

SSAB SUBCOMMITTEES

COMMUNITY INVOLVEMENT

FUTURE D&D/ RECYCLING

HISTORICAL PRESERVATION

WASTE DISPOSITION



CHAIRMAN
Gene Brushart
VICE CHAIRMAN
Will Henderson
MEMBERS
Shirley Bandy
Michael Lilly
Michael Payton
Terri Ann Smith
Frank Halstead

CHAIRMAN
Roger Scaggs
VICE CHAIRMAN
Cristy Renner
MEMBERS
Lindy Coleman
Martha Cosby
Ervin Craft
Val Francis
Brian Huber
Sharon Manson
Daniel Moore

CHAIRMAN
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VICE CHAIRMAN
Brian Huber
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Will Henderson

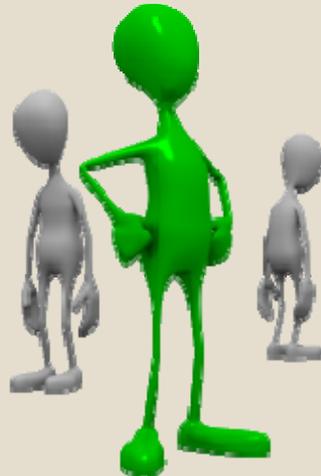
Regulatory Framework

The site is highly-regulated, where federal laws and regulations are strictly enforced. In addition, orders and policies from DOE, the Nuclear Regulatory Commission (NRC), the U.S. Environmental Protection Agency (EPA), the Ohio EPA (OEPA), and the Occupational Safety and Health Administration (OSHA) are also implemented. Among the laws are the:

- Energy Policy Act
- Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)
- Resource Conservation and Recovery Act (RCRA)
- Toxic Substances Control Act (TSCA)
- Hazardous and Solid Waste Amendments (HSWA)
- National Environmental Policy Act (NEPA)
- National Historic Preservation Act (NHPA)

OhioEPA

- In 1989, the U.S. EPA and the Ohio EPA entered into a Consent Agreement with DOE that outlined DOE's responsibilities for contamination cleanup.
- In 1997, an Administrative Order streamlined remediation efforts and established Ohio EPA as the regulator overseeing day-to-day remediation activities.
- In 2010, Ohio EPA issued the Director's Final Findings and Orders (DFF&O) that institute guidelines for the site D&D.



SSAB Format

FULL BOARD MEETINGS

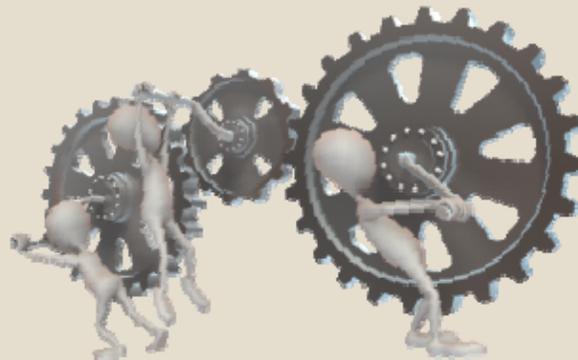
The Portsmouth SSAB has full board meetings the first Thursday of every other month. They are intended to communicate the business of the SSAB and discuss and vote on recommendations to be submitted to DOE.

SUBCOMMITTEE MEETINGS

The Portsmouth SSAB is comprised of four subcommittees, which meet the second Tuesday of every other month. Members focus on various topics related to site cleanup and prepare recommendations for the full board.

WORK SESSIONS

Subcommittee work sessions are scheduled on the second Tuesday of every other month opposite the full board and subcommittee meetings. Work sessions are designed to assist in the development of recommendations.



2011 Work Plan

The Portsmouth SSAB is comprised of four subcommittees – Community Involvement, Historical Preservation and Legacy, Future D&D/Recycling and Waste Disposition. Below are issues being address by each subcommittee.

Community Involvement

- DOE Site Tours*
- Speakers Bureau*
- Interaction with SODI and Ohio University*

Historical Preservation and Legacy

- Investigating museum/educational facilities*
- NHPA compliance*
- Oral history input*
- Future land use possibilities*

Future D&D/Recycling

- D&D sequencing*
- Regulatory requirements*
- Recycling opportunities*

Waste Disposition

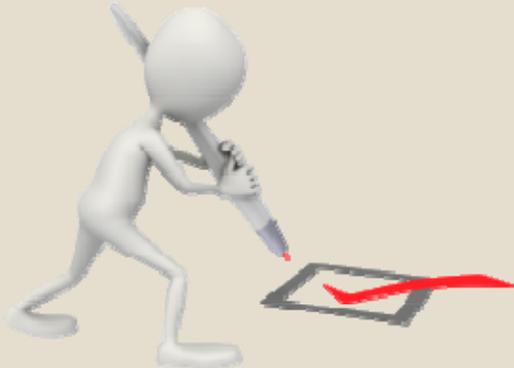
- Siting alternatives for potential on-site waste disposal facility*
- Waste acceptance criteria*
- RI/FS Work Plan input*



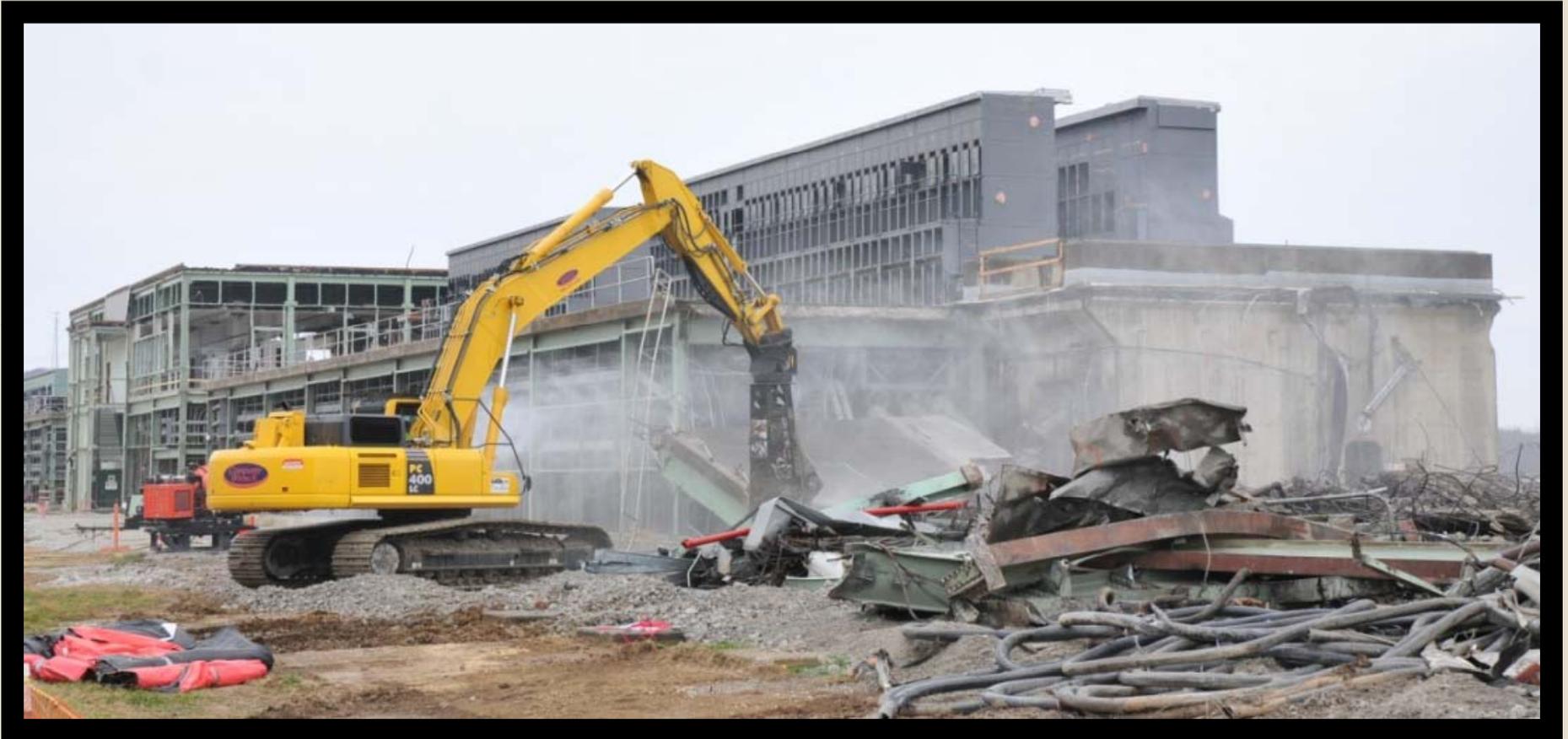
Recommendation/End Results

The primary mission of the Board is to provide recommendations on major issues regarding environmental restoration, waste disposition, and related clean-up activities to the DOE. The Board recommended that there be an Ohio based institution to conduct an extensive, community wide End Use Study for the site.

DOE hired the Voinovich School of Ohio University to conduct this study recommended by the Board. The study will integrate public, regulatory, and technical community visions for the future of the Portsmouth site.



D&D Achievements



A section of roofing from the X-533 East Switch House is removed by LPP personnel. A concrete structure that once supported a synchronous condenser is pictured in the foreground, while two of 13 switchgears are visible atop the switch house.

Contact List

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How to get Involved

For more information on how to become a member of the Portsmouth Site Specific Advisory Board, please contact the SSAB Office – located at The Ohio State University Endeavor Center in Piketon, Ohio.



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