Portsmouth Gaseous Diffusion Plant
National Historic Preservation Act Program Activities

U. S. DEPARTMENT OF ENERGY
PORTSMOUTH/PADUCAH PROJECT OFFICE

Status Update
November 17, 2011
Purpose of Meeting

- Review of DOE’s EM Undertakings at PORTS
  - Upcoming CERCLA Remedial Actions
  - Potential for future undertakings
- Discuss DOE’s potential site-wide approach to NHPA
  - Status of site surveys and investigations
- Outline DOE’s Commitment to ongoing public involvement
  - Hold quarterly public meetings, issue fact sheets, provide documents for review and comments, etc.
- Review of Earthworks and Mounds and Lidar Reports
- Discuss DOE’s Proposed NHPA Mitigation Strategy
- Questions and Answers
DOE is implementing a Comprehensive Strategy to address NHPA at the Portsmouth Site

DOE’s Strategy:

- Integrate NHPA responsibilities into all of our work
- Identify historic properties under NHPA
- Assess the effects of proposed actions (e.g., D&D and remedial actions) on the historic properties
- Avoid, minimize, or mitigate adverse affects to historic properties
- Provide multiple opportunities throughout project review phases for public, SSAB, and Consulting Parties input
Cultural Resource information is used for many activities at PORTS

- Property Transfer
- CERCLA Balance of Plant
- CERCLA Waste Disposition
- RCRA Corrective Measures
- Miscellaneous PORTS Activities

Archaeological Surveys – Phase I and II
Farmstead Surveys – Phase I and II
Architectural Survey
Historical Documentation of Buildings

CERCLA Process Buildings
<table>
<thead>
<tr>
<th>PORTS Proposed Undertakings</th>
<th>Planning Activities</th>
<th>Investigation &amp; Survey Phase</th>
<th>Documentation Phase</th>
<th>Public Review</th>
<th>Decision Phase</th>
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</thead>
<tbody>
<tr>
<td>CERCLA Balance of Plant Project</td>
<td>Ongoing</td>
<td>In process</td>
<td>In process</td>
<td>Ongoing</td>
<td>AM – Jan 2012</td>
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<tr>
<td>- EE/CA &amp; Action Memorandum</td>
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<td>CERCLA Process Buildings Project</td>
<td>Ongoing</td>
<td>In process</td>
<td>In process</td>
<td>PP – Summer 2012</td>
<td>ROD – Late 2012</td>
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<td>- RI/FS, Proposed Plan and ROD</td>
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<td>Site Reuse</td>
<td>Ongoing</td>
<td>NEPA &amp; NHPA reviews planned</td>
<td>Ongoing</td>
<td>Planned for 2013</td>
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<tr>
<td>RCRA Corrective Measures</td>
<td>Ongoing</td>
<td>NEPA &amp; NHPA reviews planned</td>
<td>Ongoing</td>
<td>Planned for 2014</td>
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<tr>
<td>Miscellaneous PORTS undertakings</td>
<td>Needs identified case-by-case</td>
<td>Ongoing</td>
<td>Ongoing</td>
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<td></td>
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</table>

EE/CA = Engineering Evaluation/Cost Analysis  
AM = Action Memorandum  
PP = Proposed Plan  
ROD = Record of Decision  
CX = Categorical Exclusion  
NEPA = National Environmental Policy Act  
NHPA = National Historic Preservation Act
Integration of NHPA and CERCLA

- **Proposed Mitigation for Support Buildings outlined in BOP EE/CA.**
  - Available for Public Review until November 23, 2011

- **Building and Waste Disposition RI/FS Work Plans will be available in late 2011.**
  - Proposed Mitigation Strategy is also presented in the Work Plans

- **Building and Waste Disposition RI/FS Reports/Proposed Plans available in summer 2012.**
  - Also include Proposed Mitigation Approach
  - To be refined based on public input on the Work Plans

- **NHPA Mitigation for CERCLA undertakings to be finalized in Records of Decision.**
  - Records of Decision to be finalized in late 2012
What Else is DOE Doing to Keep the Public Involved?

- Interaction with Consulting Parties and SSAB
  - Meetings will continue going forward

- NHPA Fact Sheet will be issued to the public in November 2011

- Quarterly Public Meetings on each of the projects
  - Will provide status of Regulatory Documents and Cleanup

- Providing notice for documents available for formal public reviews

- Making documents of archaeological interest available to the public
DOE’s Proposed Mitigation Strategy –
Process Buildings and Support Structures

DOE’s Proposed Mitigation Approach:

- A combination of documentation and interpretation methods as part of the efforts to help preserve the PORTS Site history, including:
  - Selected artifact salvage
  - Photographs (new and vintage) of interior and exterior of buildings to document key features
  - Panoramic photographs of the site as it undergoes D&D
  - Development of a “GIS Atlas” to support understanding of operations / processes

- Historic Context Report
  - Comprehensive report to document the history from 1952 (at acquisition) to 1992 (end of the Cold War)
  - Place the site in context with the DOE Complex

- Virtual Museum
  - Will serve as the centerpiece of the site’s historic preservation activities
  - Will provide ready access to all preserved documentation, oral histories, photographs
DOE’S Proposed Mitigation Strategy – Historic Farmsteads and Prehistoric Archaeological Sites

DOE’s Proposed Mitigation Approach:

- **DOE will work with OHPO, Consulting Parties, SSAB and Public to:**
  - Identify historic properties that could be impacted from DOE actions
  - Develop and refine appropriate mitigation for the effected property

- **The mitigation measures proposed would be comprehensive:**
  - Address effects from the full range of DOE actions
  - Broad interpretation of site over time (prehistoric, historic-era and DOE-era)
  - Avoid incremental and repetitive efforts.
Graded Way
Actual Location

Legend
- Graded Way-Fowke (1902)
- Other Embankments from Squier and Davis (1848)
- Mounds from Squier and Davis (1848)
- Large, Extant Mound
- Approx. Mound Location, Sassaman (1952)

Mound Cemetery

Mound Identified by Sassaman (1952)
<table>
<thead>
<tr>
<th>No.</th>
<th>Collector</th>
<th>Donor</th>
<th>Date of Presentation</th>
<th>Remarks</th>
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<tr>
<td>1</td>
<td>Daniel Byth</td>
<td>Clarence B. Moore</td>
<td>May 8, 1910</td>
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</tbody>
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**Burner Mound, near Wakefield, Pike Co., Ill.**

**Large Van Meter Mound, near Milton, Ill.**
Fabric from larger Van Meter Mound at the Smithsonian
LiDAR Mapping

LiDAR = Light Detection and Ranging
LiDAR Point Cloud
In 3D
Serpent Mound

LiDAR Topo Data
LiDAR Data
PORTS
Mound-Like Topographic Features

28 Identified
25 Inspected on Foot
1997 Archaeological Survey
2011 Comprehensive Survey for Additional Farmsteads & Other Historic Sites
Bamboo Farmstead
(33Pk211)

Shovel Test Area

Gravel Road

= Shovel test
South Shyville (33Pk185)
Sub-floor Pit Cellar

Sandstone

Feature Fill

NW 1/4 Excavated

north-south profile

I

V

VII

VIII