



U.S. DEPARTMENT OF  
**ENERGY**

A photograph of an electrical substation under construction or maintenance. Several large yellow and white excavators are positioned around the site, which is filled with tall metal transmission towers and power lines. The scene is overcast.

# DDFO Presentation Portsmouth EM Site-Specific Advisory Board March 4, 2010

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# Agenda

- American Recovery and Reinvestment Act (ARRA) Projects Update
- Other EM Base Program Activities
- Waste Disposition
- Procurement Status
- Forthcoming SSAB Discussions
- Upcoming Events



# ARRA Projects Update



- Significant progress on ARRA work:
  - Asbestos abatement activities more than 75% complete on X-633 cooling towers.
  - X-533 Switchyard Engineering Evaluation/Cost Analysis (EE/CA) public comment period ended December 4, 2009; D&D of switchyard towers began on February 11, 2010.
  - Night shift added to X-701B groundwater source removal project in December 2009. Project mixes sodium persulfate oxidant directly into 42,000 sq ft source area of TCE contaminated soils to 30 ft. depth. Initial test cells completed February 9, 2010.
  - Repackaging/disposition of ~1260 metric tons of surplus uranium underway. 5 of 15 lots shipped to Nevada Test Site to date.
  - X-760 Chemical Engineering Building EE/CA in public comment thru March 16, 2010.

**5 Projects Totaling \$118 Million in Funding**



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# X-533 Switchyard Demolition



*This series of photos shows the first cuts made by operators to the switchyard on February 11, 2010.*



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# *X-533 Switchyard Demolition*



- 18-acre Electrical Switchyard
  - Commenced field work on October 16, 2009
  - D&D of towers began on February 11, 2010
  - Completion planned for January 2011\*
- \* Contractor working to complete project ahead of schedule



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# *X-701B Groundwater TCE Source Removal*



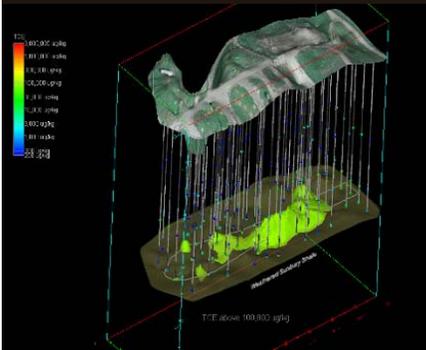
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# X-701B Groundwater TCE Source Removal

Trichloroethene (TCE)  
Concentrations > 100 PPM



- Project mixes sodium persulfate oxidant directly into 42,000 ft<sup>2</sup> source area of TCE contaminated soils
- Oxidant chemically breaks down contamination; application to depth of 30 ft
- Initial test cells completed February 9, 2010
- Overall project completion by September 2011\*
  - \* Contractor working to complete project ahead of schedule



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# *X-633 Cooling Tower Complex D&D*



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# X-633 Cooling Tower Complex D&D



- 21-acre Cooling Tower Complex D&D underway
- Asbestos paneling removal 75% complete
- Project completion scheduled for January 2011\*

\* Contractor working to complete project ahead of schedule



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# Disposition of Surplus Uranium Materials



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# Disposition of Surplus Uranium Materials



- Repackaging/disposition of surplus uranium material (~1260 metric tons)
- 5 of 15 lots shipped to Nevada Test Site to date
- Project completion scheduled for September 2010\*

\* Contractor working to complete project ahead of schedule



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# X-760 Chemical Engineering Building D&D



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# X-760 Chemical Engineering Building D&D



- X-760 EE/CA regulatory documentation in public review thru March 16, 2010
  - Initial removal of loose equipment underway
  - Proposed D&D of X-760 Building scheduled for completion in October 2010\*
- \* Contractor working to complete project ahead of schedule



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# Other EM Base Program Activities

- 20,000 ft<sup>2</sup> Shipping and Receiving Building demolished late 2009 and debris disposed – 17th inactive facility removed in 3 years



- Total of 4,400 cubic meters of low-level and mixed low-level waste shipped in FY 2009 – 30% more than projected
- 2,100 cubic meters of waste shipped for disposal in first two months of 2010
- Project to ship 325 large classified items of equipment for disposal at Nevada Test Site is over 60% complete and on schedule for late April finish



Equipment removal from DMSAs 11 & 12



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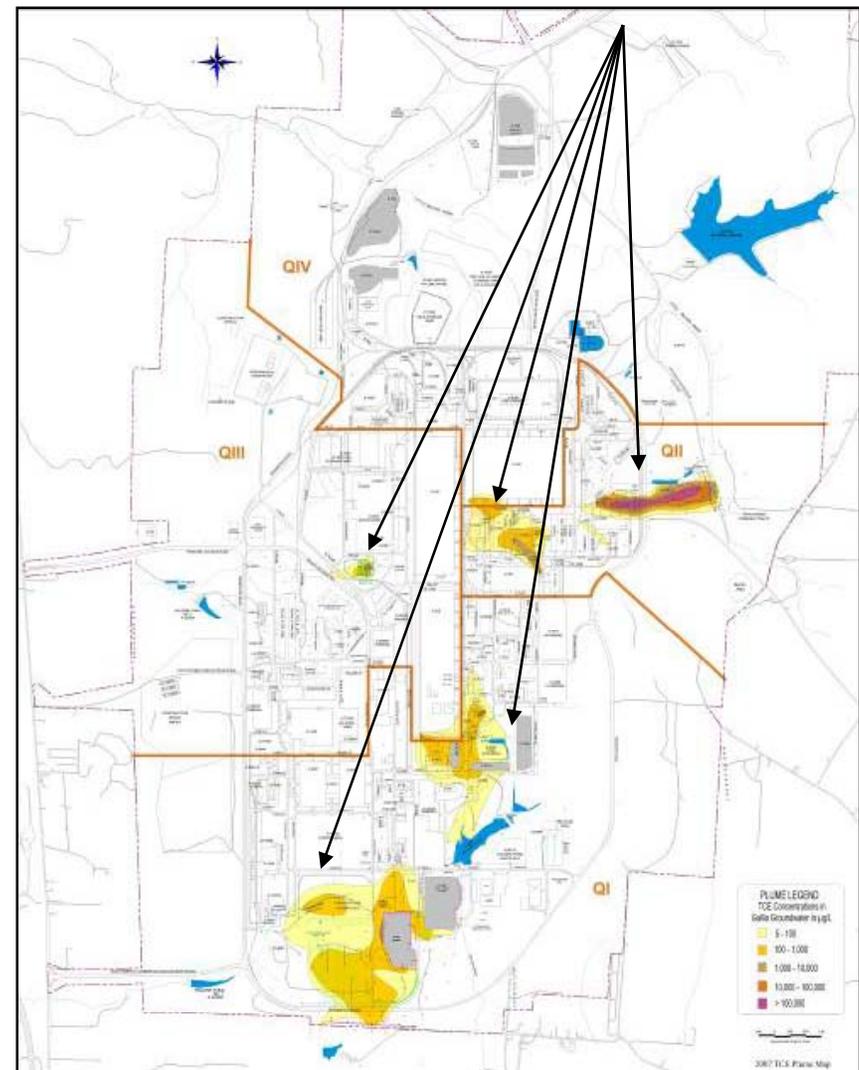
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# Other EM Base Program Activities

- Continued monitoring and treatment of groundwater from five plume areas
- In FY 2009, 30.8 million gallons of groundwater were treated through four treatment facilities, removing 53 gallons of trichloroethene (TCE)

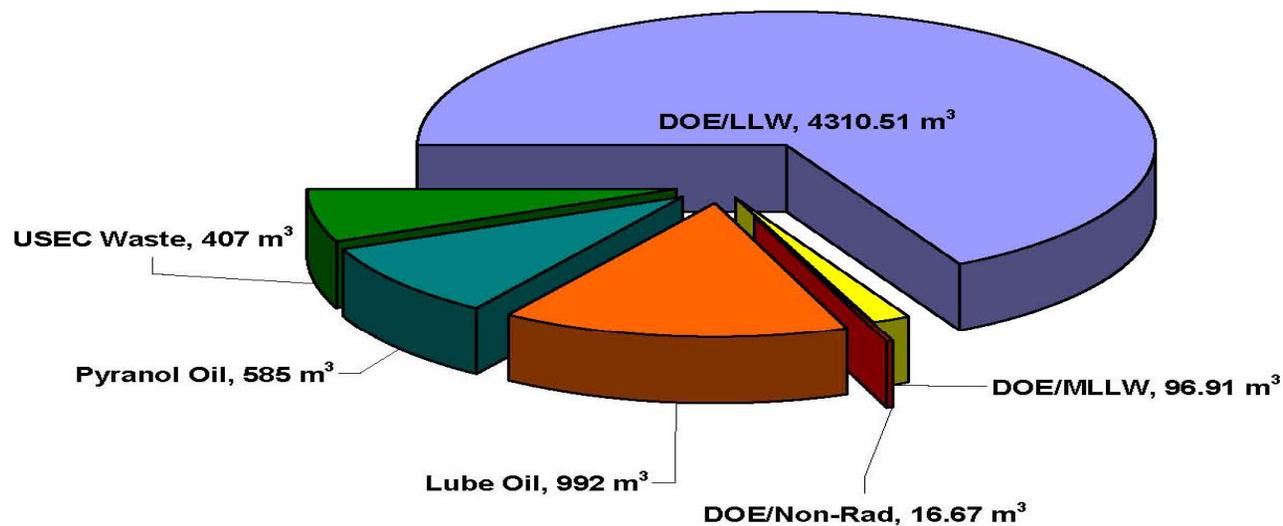
Note: TCE is an industrial solvent that was formerly used to degrease metal equipment

## 5 Groundwater Plume Areas



# FY 2009 Waste Disposition

FY 2009 Portsmouth Waste Shipped in Cubic Meters (m<sup>3</sup>)  
6408.09 m<sup>3</sup> Total



# Procurement Status

- On December 22, 2009, DOE awarded the Portsmouth Facility Support Services (FSS) Contract to Wastren-EnergX Mission Support (WEMS) of Piketon, Ohio.
  - 5 year, cost-plus award fee
  - Estimated value of \$52M
  - Facility Support Services include: roads and grounds maintenance, janitorial services, computer services, security, records management, etc.
- Bidders for the Portsmouth Gaseous Diffusion Plant D&D contract submitted proposals by November 13, 2009. The proposals are being reviewed. The D&D contract is scheduled to be awarded in first quarter of FY 2011.



# *Forthcoming SSAB Discussions*

- Waste disposition, specifically focusing on the upcoming waste disposition options under the Remedial Investigation/Feasibility Study (RI/FS) for the D&D of the gaseous diffusion plant
- Potential for asset recovery of D&D materials
- Future Land Use study



# Upcoming Events

- Next SSAB subcommittee meetings are Tuesday evening, March 9, 2010 (FLU), and Tuesday evening, March 23, 2010 (D&D)
- X-760 Chemical Engineering Building Engineering Evaluation/Cost Analysis (EE/CA) public comment period ends March 16, 2010; document available online for review at: [www.pppo.energy.gov](http://www.pppo.energy.gov)
- Next public update meeting being scheduled for late April 2010
- Next SSAB Board Meeting – May 6, 2010



# Funding for Portsmouth Cleanup

Note: Funding in Thousands of Dollars	FY2008 Actual Appropriations	FY2009 Actual Appropriations	FY2010 Appropriations	FY2011 Congressional Request
Portsmouth Gaseous Diffusion Plant	\$224,260	\$240,715	\$301.5 M	\$479.0 M
American Recovery & Reinvestment Act		FY2009/11 - Total: \$118,200		



# FY 2011 Funding Breakout

## •Portsmouth Site Environmental Management Program

•Project Scope	•FY 2010 Appropriations	•FY 2011 Budget Request
•Uranium Programs	•\$8.4M	•\$0.0M
•DUF6 Operations	•\$43.9M	•\$47M
• Waste Stabilization & Disposition	•\$14.8M	•\$41.1M
• Safeguards and Security	•\$17.3M	•\$15.9M
•Environmental Remediation/Cold Storage	•\$215.9M	•\$373.5M
•Litigation/Asbestos/Retirement	•\$0.61M	•\$0.77M
•Life/Medical	•\$0.63M	•\$0.72M
•Community/Regulatory Support	•\$0.63M	•\$0.72M
•Appropriated Totals	• \$301.5M*	•\$479.0M

•\* Does not include non-appropriated funds under uranium transfer



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