

OVERVIEW

Environmental Remediation at the Portsmouth Gaseous Diffusion Plant in Southern Ohio



Portsmouth Site Facts

- **Portsmouth Major Components**

- Department of Energy (DOE): Environmental Management [including cold shutdown, environmental remediation, and decontamination and decommissioning (D&D) of the gaseous diffusion plant buildings/facilities]
- DOE: Depleted Uranium Hexafluoride (DUF6) Conversion Plant
- USEC Inc.: Commercial American Centrifuge Plant

- **Portsmouth Site Demographics**

- 3,777 acres
- ~2,300 workers (as of early 2010)

LATA/Parallax employs approximately 450 workers, including subcontractors, at Portsmouth Site



From the early 1950s until production ended in 2001, the Portsmouth plant enriched uranium for defense purposes and commercial nuclear power plants.

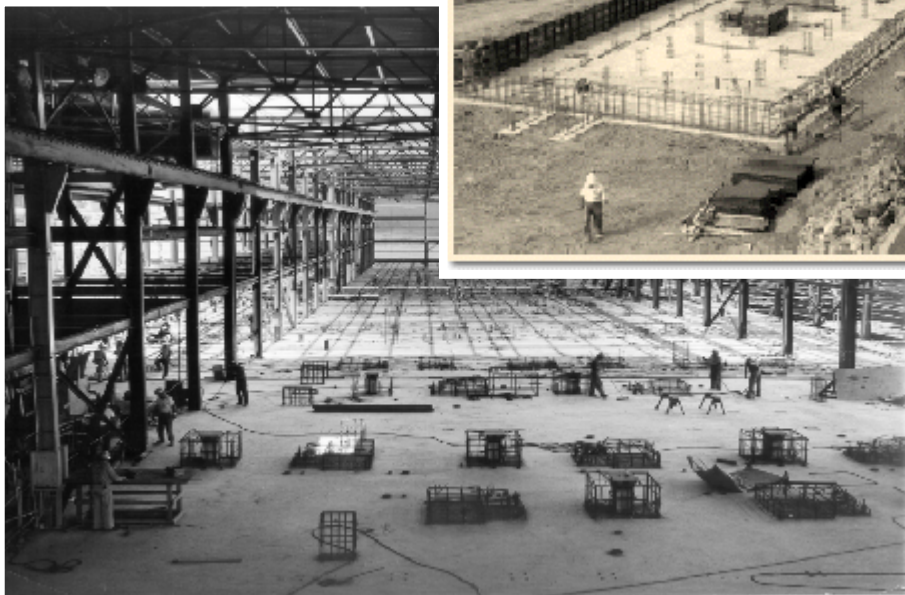
Site History / Purpose



The Portsmouth Gaseous Diffusion Plant (GDP) was built in 1952-1956 as the last of three GDPs constructed to enrich uranium for the nation's nuclear weapons program and later for commercial nuclear reactors



- The Portsmouth facility ceased production in May 2001; currently in Cold Shutdown to deactivate equipment, remove uranium deposit hold-ups in process lines, and prepare for future D&D.



DOE Roles and Responsibilities

Today, DOE's roles at Portsmouth include:

- Owner/landlord
- Environmental cleanup
- Disposal of wastes and surplus uranium materials
- Removal of inactive facilities
- Storage/conversion of depleted uranium hexafluoride (DUF₆)
- Preparing for D&D of diffusion plant



From 2006-2009, 17 inactive, surplus facilities were removed by LATA/Parallax

LATA/Parallax provides majority of cleanup for DOE through environmental remediation services contract, awarded in 2005.

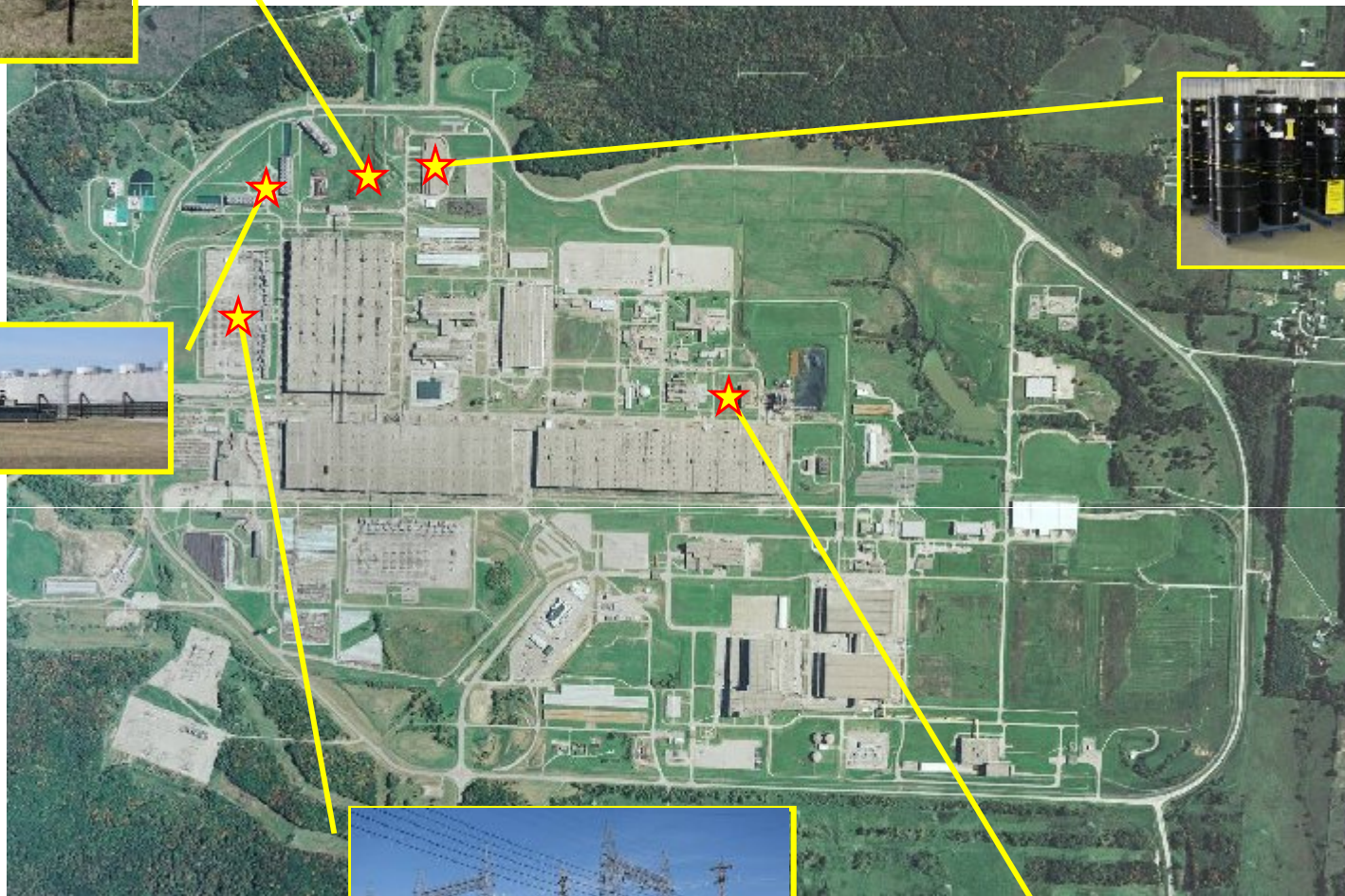
American Recovery and Reinvestment Act Projects Underway at Portsmouth Site - \$118.2 Million - above the base EM FY 2010 funding level of ~\$300 Million



**X-701B
Groundwater
Plume Source
Removal Project**



**D&D of the X-633
Recirculating
Cooling Tower
Complex**



**Repackaging
& Disposition
of Excess
Uranium
Materials**



**D&D of the X-533
Electrical
Switchyard Complex**



**D&D of the X-760
Chemical Engineering
Building**



D&D = Decontamination and Decommissioning Being Conducted under CERCLA Non-Time Critical Removal Action Process

X-633 Cooling Tower D&D Progress

*Progress shown on north side of "D" Tower
on January 13, 2010*



X-701B Groundwater Plume TCE Source Removal



*Direct oxidant
delivery at
X-701B
groundwater
plume source
area – January
13, 2010*

Partnering with the Southern Ohio Community



- LATA/Parallax has provided more than \$75,000 to nonprofit organizations in southern Ohio
- Provided nearly \$15,000 to United Way agencies
- LATA/Parallax is coordinating with DOE transfers of non-radioactively contaminated equipment to Community Reuse Organization, Southern Ohio Diversification Initiative (SODI) for reuse or recycling



Excess transformers (left) and condensers (right) from an inactive electrical switchyard are being prepared for transfer to SODI for reuse or recycling.



Emerging Issues

The overarching issue at Portsmouth is the upcoming transition to D&D of the Gaseous Diffusion Plant

- DOE is evaluating proposals
- Disposition of waste is key
- Site reuse is an important community issue