



# TIMELINE

## PORTSMOUTH GASEOUS DIFFUSION PLANT 1952 - 2009



**1955** Generating stations at Kyger Creek in Gallipolis, Ohio and Clifty Creek in Madison, Indiana were built to provide power to the Portsmouth plant.



**1956** Construction contractor Peter Kiewit and Sons completed construction six months ahead of schedule. Full production begins in 1956.

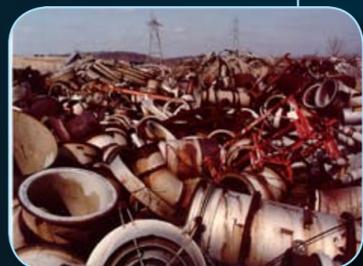


**1952** Atomic Energy Commission selects the Ohio River Valley for the last of three uranium enrichment plants in the country.



**1960s & 1970s** Operations result in groundwater and soil contamination, primarily from extensive use of an industrial degreaser, trichloroethene (TCE).

**1964** Production of weapons grade uranium ceases.



**Early 1970s** Enrichment Plant upgrades result in 7,000 tons of scrap metal and old process converter shell equipment.



**1978** A 14-ton UF6 cylinder rupture results in implementation of a public warning system.



**Early 1980s** DOE constructs a \$3 billion Gas Centrifuge Enrichment Plant onsite. The project was canceled in 1985 before becoming operational.



**1989** DOE signs consent agreements with State of Ohio and US EPA to conduct environmental cleanup. DOE establishes the Office of Environmental Management to address Cold War environmental legacy.



**1991** An 1100-ft trench system and groundwater treatment facility was built to prevent migration of contaminated groundwater into Little Beaver Creek.



**1992** The 11.5-acre X-749 Contaminated Materials Disposal Facility was closed and capped on the south end of the plant.



**1993** In-situ soil mixing technology was demonstrated at the X-231B Oil Biodegradation Plot.

The United States Enrichment Corporation assumes uranium enrichment enterprise under lease agreement with DOE.



**1994** A 6-acre Classified Materials Landfill is capped. A 1,077 ft subsurface clay mortar barrier wall was installed as an interim action at the southern boundary to mitigate contaminated groundwater migration.



Before



After

**1996** First Decontamination and Decommissioning (D&D) project completed to remove incinerator.



**1997** An 18-acre lime sludge lagoon was converted to a prairie.



**2003** More than 3,000 hybrid poplars planted at south end of plant for phytoremediation treatment of groundwater.



**2000** Project begins to size-reduce, containerize and remove 8,000 tons of contaminated scrap metal.



**2001** USEC terminates enrichment production at Portsmouth. Plant placed in Cold Standby mode by DOE.



**2004** Groundbreaking for new depleted uranium hexafluoride (DUF6) conversion plant to convert more than 22,000 cylinders of DUF6 to a more stable form. USEC announces Portsmouth as site for commercial American Centrifuge Plant.



**2005** Cleanup of a 7-acre scrap metal storage yard, disposing of more than 8,000 tons of radioactively contaminated material.



**2006** Began accelerated removal of inactive facilities with no potential for future use.



**2007** More than 49,000 waste containers were shipped off-site from the Waste Storage Facility so building could be reused by the American Centrifuge Plant.



Before



After

**2009** Continued removal of inactive facilities such as the former Shipping and Receiving building shown.



**2008** Physical construction completion on DUF6 conversion plant. More than 430 pieces of process equipment converter shells, weighing 20 tons apiece, removed from site.



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