PORTSMOUTH/PADUCAH PROJECT OFFICE (PPPO)

"With the successful X-326 process building demolition at Portsmouth this year, we are on a path to even greater cleanup achievements at both the Portsmouth and Paducah Sites. The site leadership and workforce are dedicated to strengthening a collaborative Gaseous Diffusion Plant cleanup that will drive us towards the next chapter in EM's cleanup mission."

- Joel Bradburne, Manager, Portsmouth/Paducah Project Office

HIGHLIGHTS

- **Completed demolition of the 2.6 million-square-foot X-326 process building at Portsmouth—an EM 2022 priority.**
- Transferred 200 acres of land from the Portsmouth Site to the Southern Ohio Diversification Initiative, reducing the federal footprint and expanding opportunities for reindustrialization.
- Completed excavation of the X-231B biodegradation landfill for use at the Onsite Waste Disposal Facility.
- **Completed the disposition of an additional one million pounds of refrigerant currently stored at the Paducah Site—an EM 2022 priority.**
- Completed the successful restart of the Depleted Uranium Hexafluoride plants at Portsmouth and Paducah Sites.

Demolition of the X-326 Process Building at the Portsmouth Site.

PORTSMOUTH
DEMOLITION SUCCESS LEADS TO NEXT STAGE OF PORTSMOUTH CLEANUP

In July, PPPO celebrated the most significant cleanup project to date with the completion of demolition of the former X-326 enrichment process building.

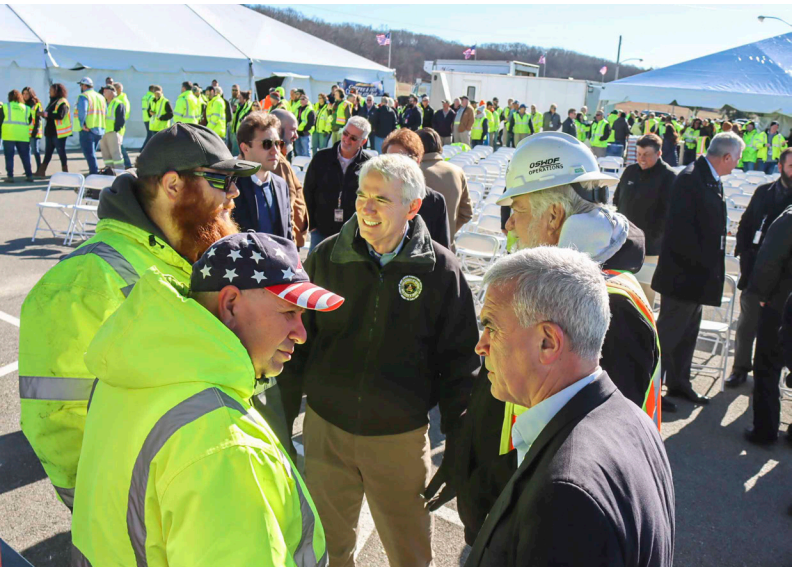
This building measured 30 acres under roof and represents the first significant step towards final cleanup at the site.

After demolition completion, focus shifted to the disposal of more than 135,000 cubic yards of generated debris to wrap up the X-326 process building deactivation and decommissioning project.

In addition, crews continued preparation of X-333, the next process building slated for demolition. The X-333 process building, measuring 33 acres under roof, is currently being deactivated with demolition anticipated in the next five years.

PORTSMOUTH LANDFILL AND PLUME EXCAVATION PROVIDES FILL FOR DISPOSAL FACILITY

A unique regulatory agreement with the state of Ohio allows for the excavation of previously closed landfills and plumes within the site's Perimeter Road to provide necessary fill for the Portsmouth Onsite Waste Disposal Facility (OSWDF). This year, crews completed excavation of the X-231B landfill, generating 195,000 cubic yards of fill for the OSWDF. This long-term strategy will leave up to 1,000 contiguous acres available for community reuse.



Senator Rob Portman (center) and Representative Brad Wenstrup (bottom right) speak to site employees following the recent Past, Present, Future Celebration at the Portsmouth Site.

PADUCAH GROUNDWATER CLEANUP CONTINUES TO MAKE STRIDES

At Paducah, groundwater contamination remains the largest environmental concern at the site. Since the 1990s, a number of remedies have been successfully implemented to decrease the reach of the contamination, including the 2021 implementation of a bioremediation action to remove approximately 95 percent of the contaminant mass in the southwest area of the site. The site moved towards elimination of the largest source of groundwater contamination with the ongoing C-400 city block project.

Wells are installed and grouted on the Solid Waste Management Unit 211-A Bioremediation project at the Paducah Site.

DUF6 CONVERSION PLANT OPERATIONS RESTART

After a two-year pause due to the COVID-19 pandemic, operations resumed at both the Portsmouth and Paducah depleted uranium hexafluoride (DUF6) conversion plants. The plants recycle DUF6 to safer and more beneficial products. Using a gradual and rigorous process to ensure maximum safety, both plants have resumed cylinder conversion with plans to initiate a sustained offsite oxide shipping program over the next year.

Crews load a non-standard CV-12 cylinder into the Cylinder Transfer System autoclave.