



DEPARTMENT OF ENERGY
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RICHLAND
OPERATIONS OFFICE
United States Department of Energy



Hanford Waste Storage Tunnel Stabilized

Grouting Placement Complete on PUREX Tunnel 1

RICHLAND, Wash. – Hanford workers have finished stabilizing a waste storage tunnel with engineered grout, after it partially collapsed earlier this year.

Since early October, crews worked mostly at night to place several thousand cubic yards of engineered grout into Tunnel 1 near the Plutonium Uranium Extraction (PUREX) Facility. Grouting reduces the risk of further collapse and increases the protection for workers, the public, and the environment from radiological hazards, while not precluding future remedial actions or final closure decisions.

Department of Energy contractor CH2M HILL Plateau Remediation Company (CH2M) began grouting Oct. 3 and placed the last truckload of grout Nov. 11, without any injuries.

“Stabilizing Tunnel 1 was achieved safely and quickly, due to our skilled workers, solid planning, and extensive coordination,” said Doug Shoop, manager, DOE Richland Operations Office. “Our

contractor not only completed this work safely, but also ahead of the Department's projected completion timeframe of late December."

"The team did an amazing job," said Ty Blackford, president and chief executive officer, CH2M HILL Plateau Remediation Company. "I couldn't be more proud of the crew, and all those who supported planning and preparations."

Approximately 521 truckloads (4,434 cubic yards) of grout were placed in the tunnel. Cameras in the tunnel ensured the grout flowed the length of the tunnel and around the contaminated equipment inside. The grout was injected in several lifts, or layers, and each lift was allowed to set up before the next began. Approximately a foot of space was left between the topmost layer and the ceiling of the tunnel.

"Now that Tunnel 1 is secure, we can focus on our evaluation and determining the appropriate course of action for stabilizing Tunnel 2," Shoop said.

An integrity analysis completed earlier this year showed nearby Tunnel 2 does not meet current codes for structural integrity, and it may not be able to bear the weight of the soil above the tunnel. Like Tunnel 1, Tunnel 2 contains railcars with contaminated pieces of plutonium processing equipment. Enhanced surveillance is in place to detect any changes to the structural integrity of the 1960s-era waste tunnel. Plans to stabilize Tunnel 2 are under evaluation and should be finalized in the coming weeks.

For more information:

- [PUREX Tunnels continuing response information webpage](#)
- Engineering evaluations for [PUREX Tunnel 1](#) and [Tunnel 2](#) submitted to Ecology as part of Administrative Order corrective action 1
- [PUREX Tunnels draft report on corrective actions to ensure safe storage of waste in PUREX Tunnels 1 and 2](#) submitted to Ecology as part of Administrative Order corrective action 2

The Department of Energy (DOE) is responsible for the federal government's cleanup of the legacy of more than 40 years of plutonium production at the Hanford Site near Richland, Wash. Except for a tank waste mission managed by the DOE Office of River Protection, the DOE Richland Operations Office is responsible for all remaining Hanford cleanup and is currently focused on cleaning out and demolishing the high-hazard Plutonium Finishing Plant, excavating and disposing of contaminated soil and waste, treating contaminated groundwater, moving radioactive sludge out of the K West Basin and away from the Columbia River, and configuring Hanford Site infrastructure for the future. The office oversees Hanford Site work that is conducted by a federal and contractor workforce of approximately 4,000 personnel. Visit www.hanford.gov.

CH2M leads the professional services industry delivering sustainable solutions benefiting societal, environmental and economic outcomes with the development of infrastructure and industry. In this way, CH2Mers make a positive difference providing consulting, design, engineering and management services for clients in water; environment and nuclear; transportation; energy and industrial markets, from iconic infrastructure to global programs like the Olympic Games. Ranked among the World's Most Ethical Companies and top firms in environmental consulting and program management, CH2M in 2016 became the first professional services firm honored with the World

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