



U.S. DEPARTMENT OF
ENERGY

OFFICE OF
ENVIRONMENTAL
MANAGEMENT

Hanford Tank Waste Evaporator Gets New Transfer Lines

September 6, 2022



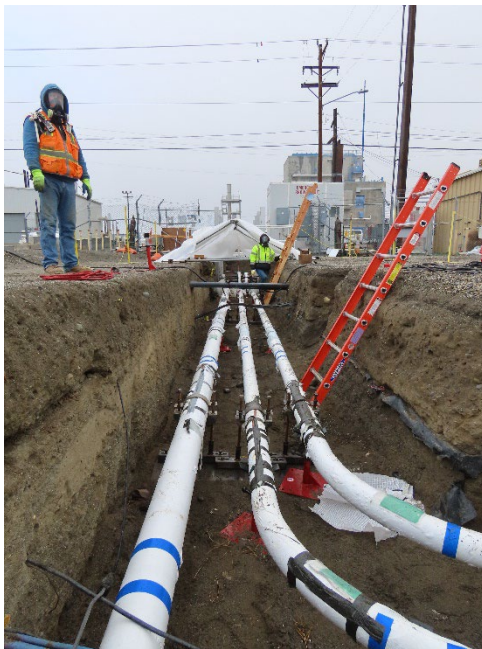
This aerial photo shows trenches dug for the replacement of approximately 1,300 feet of piping between the 242-A Evaporator and an adjacent tank waste storage area near the center of the Hanford Site.

RICHLAND, Wash. – As the [Hanford Site](#) gears up to treat tank waste for disposal through the Direct-Feed Low-Activity Waste ([DFLAW](#)) Program, workers are upgrading many site facilities to support 24/7 operations. One of those facilities is the [242-A Evaporator](#).

Field crews with **EM** Office of River Protection (**ORP**) tank operations contractor Washington River Protection Solutions (WRPS) recently finished installing about 1,300 feet of new waste transfer lines between the evaporator and a nearby tank storage area, called a tank farm.

Waste is pumped from the tank farm to the evaporator, which removes water to create more storage space in the site's double-shell tanks. EM and WRPS manage that capacity for retrieving waste from older single-shell tanks, another important component of the tank waste mission.

"These new transfer lines allow us to continue using the evaporator to strategically stage waste for treatment through DFLAW," said Ricky Bang, ORP **Tank Farms** Program Division director.



Crews installed double-walled pipes on the Hanford Site as part of the project to replace older transfer lines between waste storage tanks and the 242-A Evaporator.

Design of the transfer line replacement

project started in December 2018, but work stopped when COVID-19 hit in early 2020.

Fieldwork began in October 2020 with the removal of older contaminated equipment at the tank farm that feeds chemical and radiological waste to the evaporator.



Washington River Protection Solutions workers install three new wall nozzles connecting new transfer lines to the 242-A Evaporator pump room on the Hanford Site.

Turnover of the new waste transfer lines to operations is scheduled to be complete by early December, before the evaporator begins a series of tests using noncontaminated liquids, called "cold runs," over several months.

"We have a hardworking and dedicated team that has tackled the challenges of this project, knowing the critical roles the transfer lines and the evaporator play in the tank waste mission," said Dustin May, WRPS project manager.

The evaporator has also undergone a series of repairs and upgrades since June 2019. This includes a safety system upgrade to increase the efficiency of equipment testing required prior to an evaporator campaign.

The evaporator has removed more than 81 million gallons of liquid from the site's tank waste volume over the past four decades. With these upgrades, the next campaign is scheduled to begin next year.