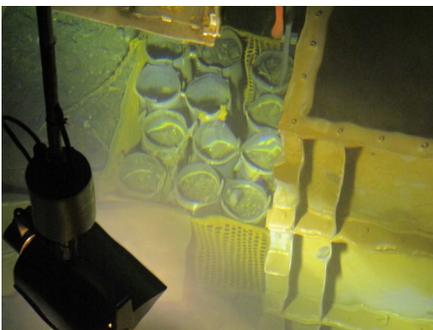




Removing the sludge is one of the last major steps needed to finish cleaning up the 100 K Reactor Area.



A truck and trailer hauled sludge containers from 100-K to T Plant for storage in T Plant's canyon.



The removal of sludge allows crews to remove the remaining legacy debris and water from the K West Basin.

For more information:
Destry Henderson, CHPRC
(509) 376-8644, Destry_J_Henderson@rl.gov

Mark Heeter, U.S. Department of Energy
Richland Operations Office
(509) 373-1970, Mark.Heeter@rl.doe.gov

Or visit us on the web at:
www.hanford.gov
www.plateauremediation.hanford.gov

Sludge Removal Project

The U.S. Department of Energy and contractor CH2M HILL Plateau Remediation Company transferred radioactive sludge from a facility near the Columbia River to safer storage in the center of the Hanford Site in southeast Washington state.

Background

Approximately 35 cubic yards (27 cubic meters) of radioactive sludge was stored under 17 feet (5 meters) of water in a concrete basin adjacent to Hanford's K West Reactor, one of nine former plutonium production reactors at the Hanford Site. Sludge was created when irradiated reactor fuel rods stored in the basin began to deteriorate years after production activities stopped in the 1980s. For 20 years, work has been underway to remove and package the material, eliminating a significant threat to the nearby Columbia River.

Mission

After using a mock-up facility to test the equipment and train workers, CH2M HILL Plateau Remediation Company (CHPRC) began transferring sludge in June 2018. By September 2019, crews safely removed all of the sludge and packaged it into 20 large containers. The containers were shipped to T Plant in the center of the Hanford Site for safe interim storage.



A sludge container leaves 100-K on its way to T Plant for safe storage away from the Columbia River.

Future

Removing the sludge is a critical step in moving forward with other work near the K Reactors to reduce Hanford's annual operating costs. The next major steps in cleanup will include removing debris from the basin, filling the basin with grout and removing the basin to allow for placement of the last two Hanford reactors into Interim Safe Storage.



Crews at 100-K celebrated the first sludge shipment in 2018.

