



The U.S. Department of Energy and contractor Central Plateau Cleanup Company are preparing the Integrated Disposal Facility at the Hanford Site in southeastern Washington state to receive vitrified (immobilized in glass) low-activity tank waste and mixed low-level waste from Hanford Site operations.

Background

The Integrated Disposal Facility (IDF) is a federal *Resource Conservation and Recovery Act* (RCRA) disposal facility constructed in 2006 and located near the center of the Hanford Site. Ongoing permitting activities with the Washington State Department of Ecology will allow for the disposal of low-activity and mixed low-activity waste in two IDF disposal cells, and the construction of a storage and treatment pad. The IDF's two disposal cells include an engineered double-lined system to collect and treat leachate (water from precipitation and dust suppression that filters through the landfill). Waste received at the IDF must meet the waste acceptance criteria for disposal and will be containerized, stored on special pallets, and treated and/or stabilized before final disposition. Efforts have been underway to upgrade the facilities, utilities, leachate systems, and overall operational footprint to align with Hanford's Waste Treatment and Immobilization Plant (WTP) startup by the end of 2023.

Mission

The IDF mission is to support Hanford's Direct-Feed Low-Activity Waste Program through the safe disposal of vitrified (immobilized in glass) low-activity waste from the WTP and containerized other waste from Hanford operations.

Progress

- RCRA permitting for the leachate system, disposal cells, storage, and treatment pads is expected to be complete by October 2022.
- Facility upgrades and utility installs are complete
- Site footprint preparation is complete
- Pallet transporter inspection and field testing are complete
- Leachate system connection piping is installed



Pallet and immobilized low-activity waste transporter inspection buildings.



Leachate system upgrades to include dome covers, piping and structural supports.



Waste transporter with pallet system.

