THE HANFORD SITE

Integrated Disposal Facility

Fact Sheet – September 2022

The U.S. Department of Energy and contractor Central Plateau Cleanup Company are preparing the Integrated Disposal Facility to receive vitrified low-activity tank waste.

Background

The Integrated Disposal Facility (IDF) is an engineered disposal site at the center of the Hanford Site. It is designed to receive immobilized low-activity waste from the Waste Treatment and Immobilization Plant and other low-level waste from Hanford Site operations.

IDF is designed similar to Hanford's Environmental Restoration Disposal Facility. It currently includes two disposal areas called cells, but can be expanded as needed to a total capacity of six cells. The cells are engineered to protect the groundwater. Workers will monitor, collect and treat leachate (water from rain, snow and dust suppression) that reaches the liner at the bottom of the facility.

Mission

By the end of 2023, the U.S. Department of Energy will begin treating low-activity waste from Hanford's waste tanks. Through a process called vitrification, the waste will be blended with glass-forming materials, heated to 2,100 F and poured it into stainless steel containers to cool and solidify. In this glass form, the waste is stable. The vitrified waste containers will then be transported to IDF for permanent disposition, where the radioactivity will safely decay over hundreds to thousands of years.

Future

Permitting and construction activities are ongoing to support receipt of vitrified low-activity tank waste.

Domes will be installed on IDF's two large leachate tanks.

Workers will monitor, collect and treat leachate in two large tanks.

Vitrified waste containers are four feet in diameter, seven feet tall and weigh more than seven tons.

For more information:
www.hanford.gov
cpcco.hanford.gov

U.S. DEPARTMENT OF ENERGY

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