



Aerial view of the Integrated Disposal Facility at the Hanford Site, November 2023.

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 waste and mixed low-level waste from Hanford Site cleanup operations.

Background

The Integrated Disposal Facility (IDF) is a federal *Resource Conservation and Recovery Act* disposal facility that will accept low-level radioactive, chemical and mixed wastes. It is in the central part of the Hanford Site. The IDF is an engineered landfill consisting of two large, double-lined disposal cells with a drainage system that collects potentially contaminated water from rain and dust-suppression activities, which has come in contact with the waste.

The IDF is approximately 1,500 feet wide, 765 feet long and 45 feet deep. The facility was designed to be expanded as needed. Waste will be containerized and treated or stabilized before disposal. Construction activities at IDF were completed in late 2023 and startup of IDF operations will align with the start of operations at Hanford’s Waste Treatment and Immobilization Plant in 2025.

Mission

The IDF primary mission is to support 24/7 operations of Hanford’s Direct-Feed Low-Activity Waste Program. The program will treat millions of gallons of low-activity radioactive and chemical waste from Hanford’s large underground tanks using vitrification (immobilization in glass) for safe disposal, and treat secondary waste from the Waste Treatment and Immobilization Plant. The IDF will receive more than 200,000 containers over its operational life. The IDF can be viewed using the self-guided [Hanford Virtual Tour](#).



This 80-by-80-foot concrete pad at the Integrated Disposal Facility will be used to stage some waste prior to encasing it in a special cement-like substance.



The Integrated Disposal Facility includes two 400,000-gallon tanks to collect potentially contaminated water from rain and dust-suppression activities.



A special transporter will carry containers of vitrified waste to the Integrated Disposal Facility during direct-feed low-activity waste operations.

