THE HANFORD SITE

Proposed Class 3 Permit Modification for the Integrated Disposal Facility

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Direct-Feed Low-Activity Waste Configuration

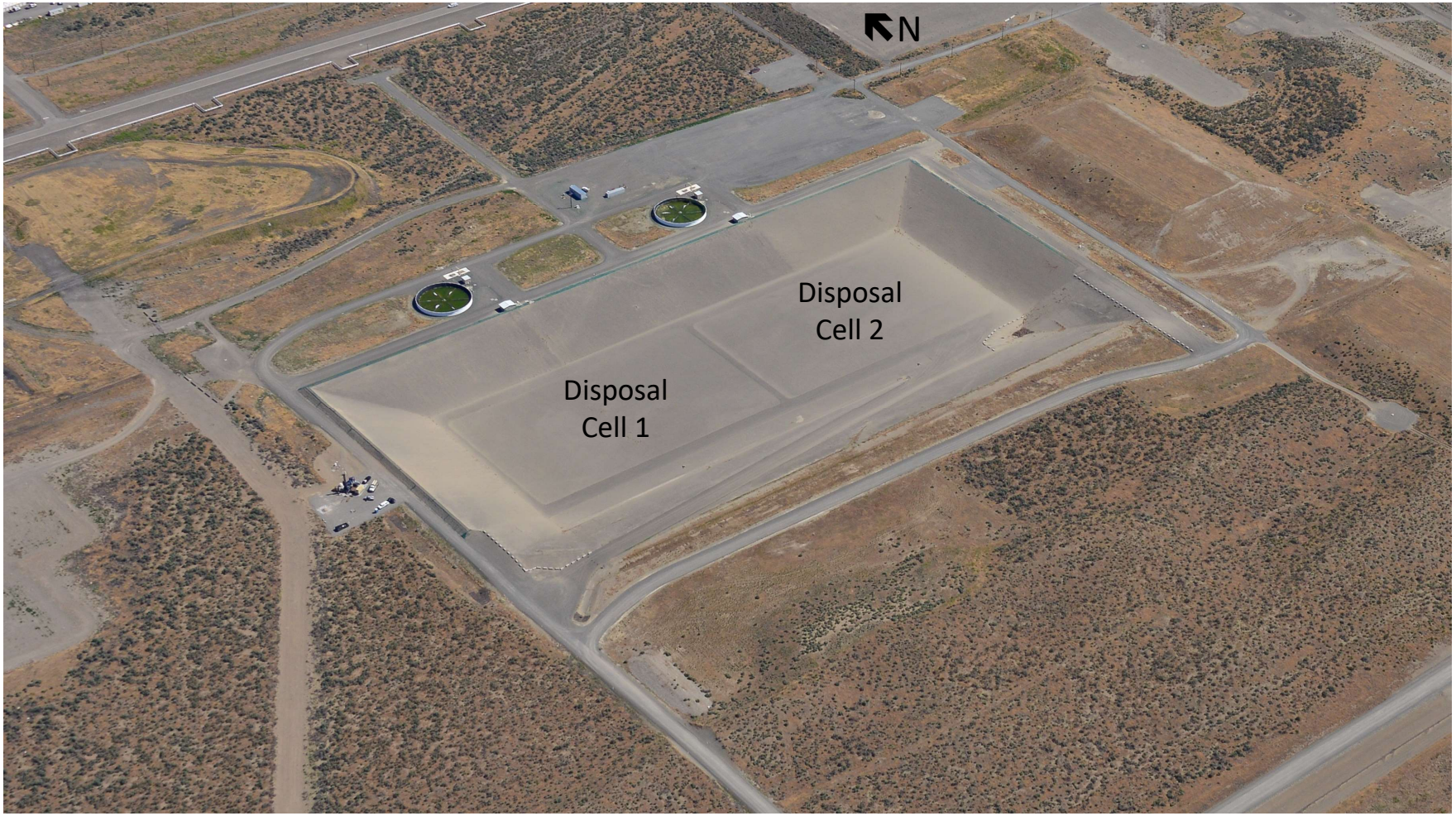
U.S. DEPARTMENT OF ENERGY

History

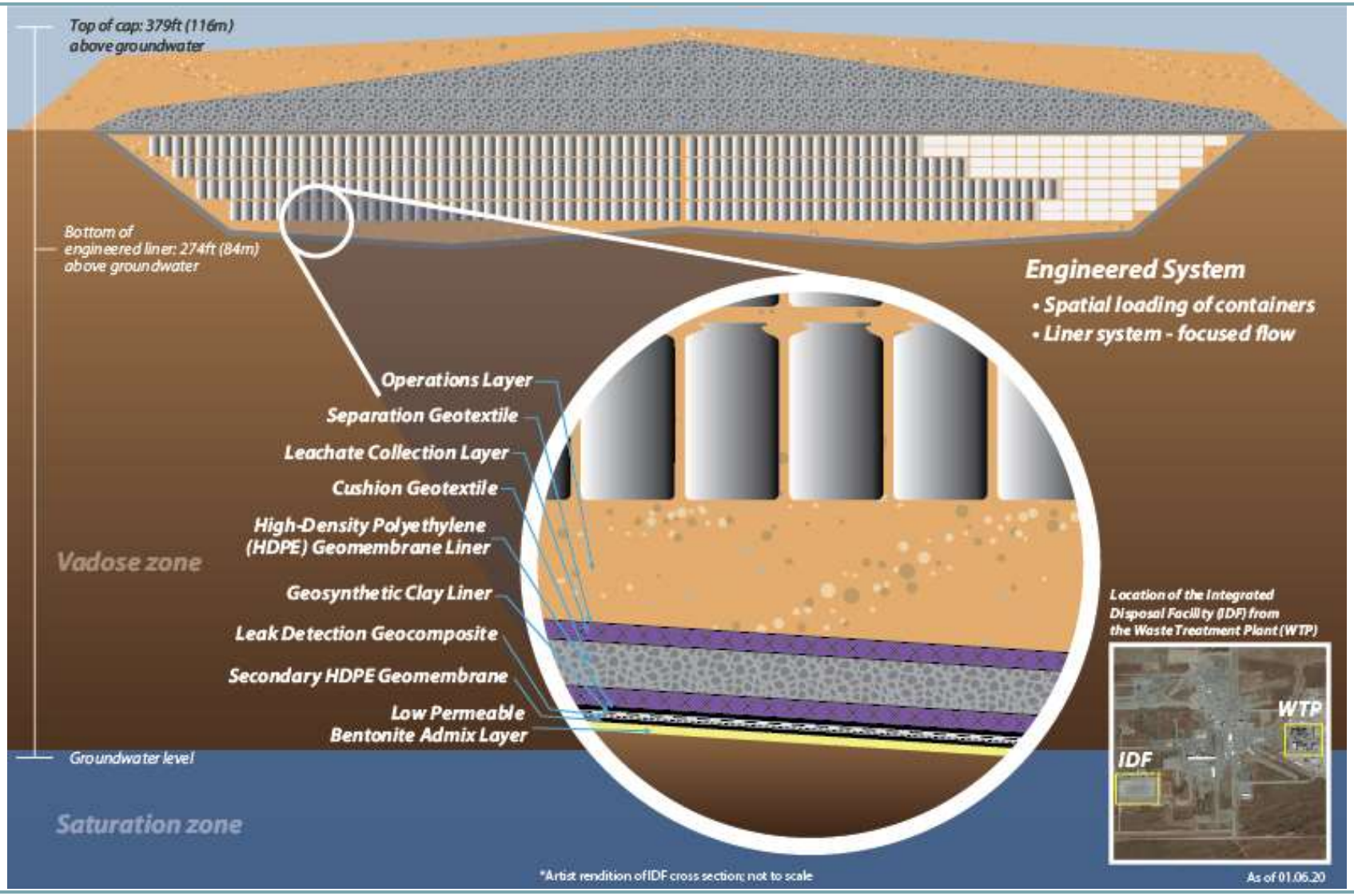
- Integrated Disposal Facility (IDF) is a near-surface double-lined landfill consisting of two disposal cells and a leachate management system
- Initial (Phase I) construction started in September 2004 and completed in June 2006
- Dangerous Waste Permit for IDF issued in April 2006
- Only Disposal Cell 1 is permitted for disposal of mixed low-level waste (MLLW)
- Permitted to accept immobilized low-activity waste (ILAW) from the Waste Treatment and Immobilization Plant (WTP), Demonstration Bulk Vitrification System waste, and IDF operational waste
- Waste has not been disposed of at IDF to date

Photos (Location within Hanford Site)

Photos (Current Configuration)



Photos (Current Configuration)



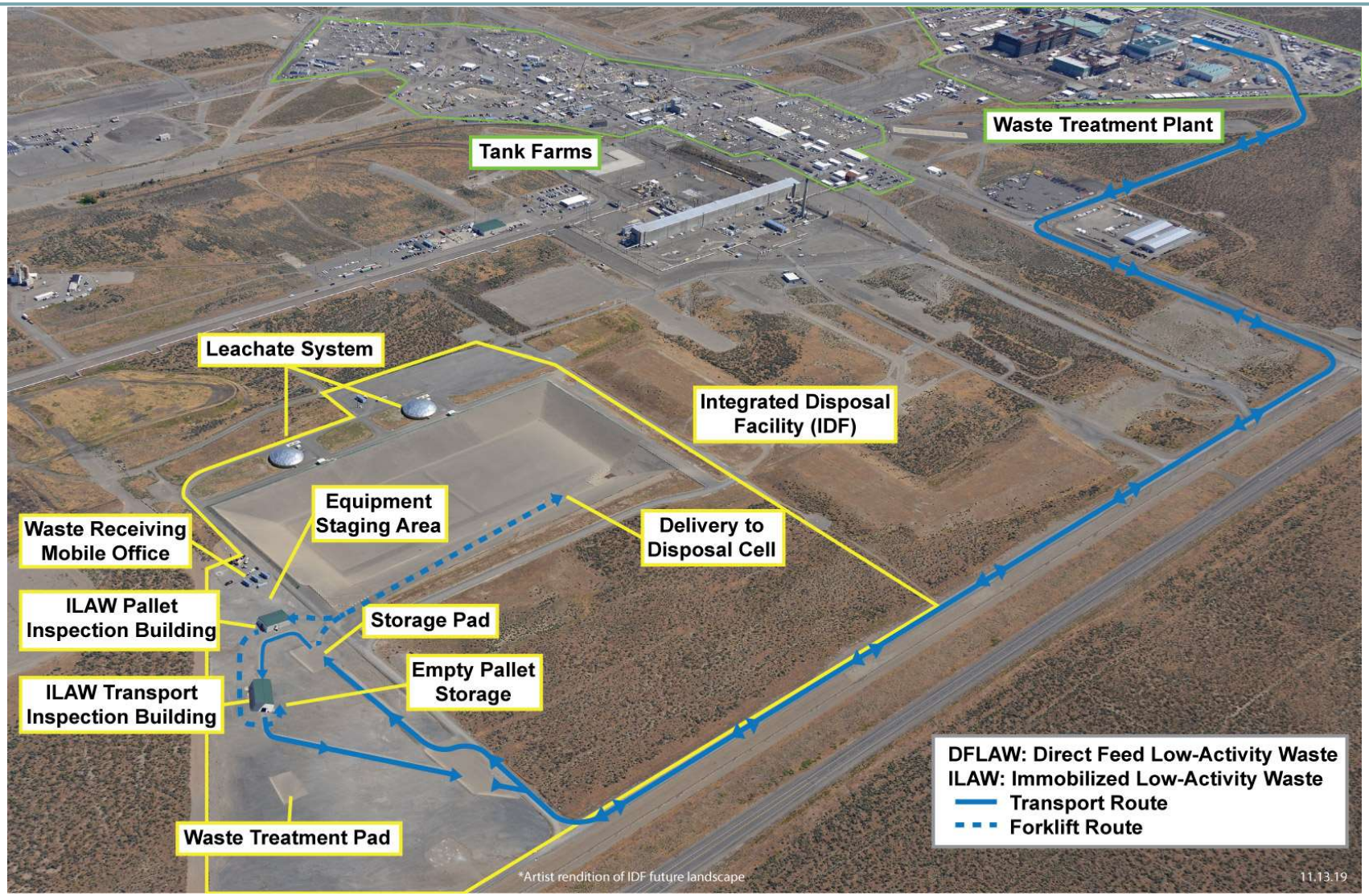
Proposed Permit Modification Overview

- Washington State Department of Ecology (Ecology) and the Department of Energy (DOE) participated in a series of facilitated workshops to determine the content and format of the new IDF addenda
- The workshops resulted in replacement of the IDF chapters with new addenda
- DOE is seeking approval from Ecology to replace the existing IDF permit chapter with the proposed operating permit chapter to receive ILAW and secondary wastes from the WTP and other waste generated at Hanford

Proposed Modifications

- The proposed Class 3 Permit Modification for the IDF chapter of the Hanford Dangerous Waste Permit, includes the following:
  - Adds storage and treatment unit information
  - Allows disposal of MLLW in both disposal cells concurrent with projected waste streams
  - Expands disposal operations information
  - Adds acceptance of MLLW from Hanford Site operations
  - Refines acceptance of ILAW glass from the WTP
- This proposed Class 3 permit modification, if issued, would replace the existing IDF chapter of the permit

Photos (Planned Configuration)



Regulatory Framework for Permitting Action

- *Resource Conservation and Recovery Act* (RCRA) applies to hazardous waste management at Hanford
- Ecology administers the state's RCRA program
- Ecology is the regulatory authority for the Hanford Site permit, which includes IDF
- The permittees (the DOE Richland Operations Office and contractor CH2M HILL Plateau Remediation Company) and Ecology determined that the existing IDF chapters need to be modified

Permit Modification Public Process

- What is the public being asked to comment on?
- Comment period open through Feb. 14, 2020
- Submit comments via mail or electronically (preferred) to the Washington State Department of Ecology:

Daina McFadden
Washington State Department of Ecology
3100 Port of Benton Boulevard
Richland, WA 99354
Electronically: http://nw.ecology.commentinput.com/?id=ubNZC

In compliance with Washington Administrative Code 173-303-803(3)(c)(vi), following the 60-day public comment period, Ecology will hold a 45-day comment period on its permitting decisions.

Questions?

The Hanford Reach
White Bluffs Overlooking the Columbia River