

Purpose: The U.S. Department of Energy (DOE) will provide the latest Hanford Site 5-Year Plan, highlighting cleanup priorities. Regulatory perspective will be provided by the U.S. Environmental Protection Agency and Washington State Department of Ecology.

5:30 – 5:35 p.m.	Welcome	Dana Cowley – Hanford Mission Integration Solutions
5:35 – 6:15 p.m.	Overview of Hanford Projects and Priorities	Delmar Noyes – DOE, Tank Waste Operations Mat Irwin – DOE, Waste Treatment and Immobilization Plant Heather Dale – DOE, Assistant Manager for River and Plateau Brian Harkins – DOE, Assistant Manager for Mission Support
6:15 – 6:25 p.m.	Regulatory Perspective	Edward Holbrook – Washington State Department of Ecology David Einan – U.S. Environmental Protection Agency
6:25 – 7 p.m.	Q&A	Public
7 p.m.	Adjourn	



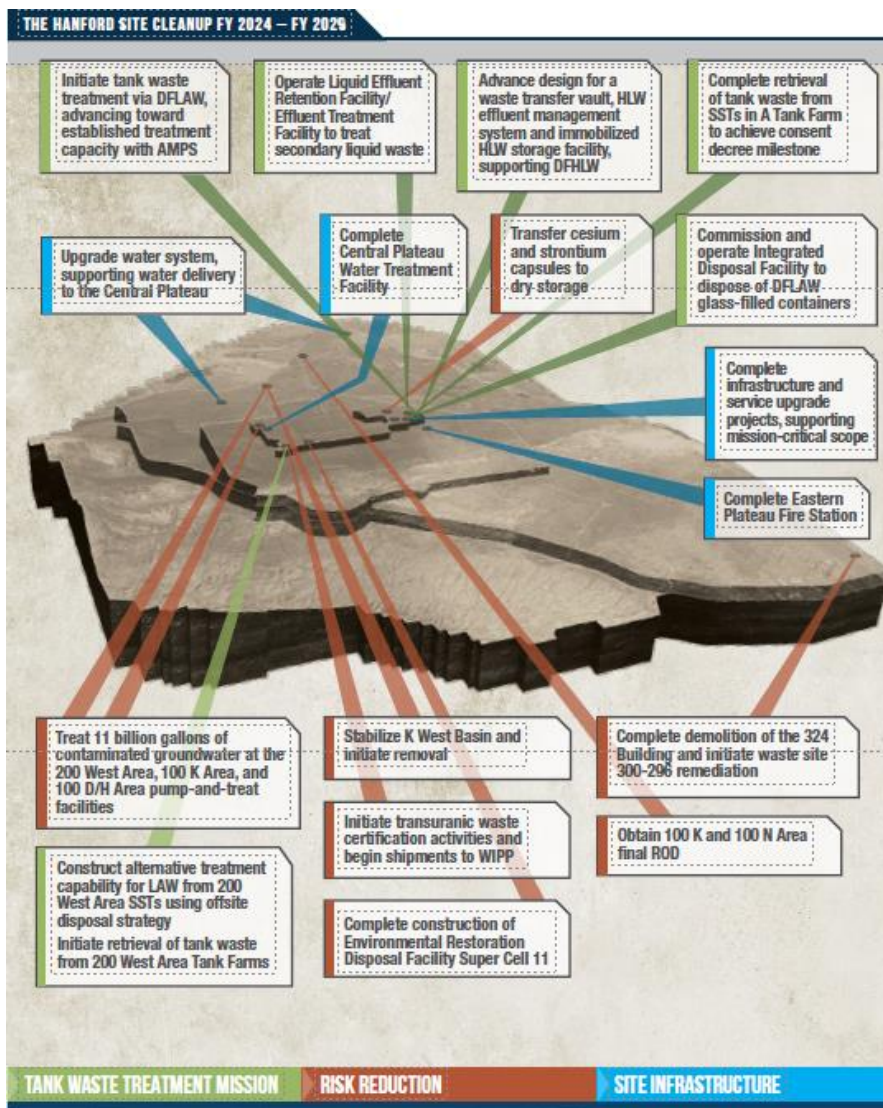
THE HANFORD SITE

Hanford Site 5-Year Plan

October 9, 2024

Objective

- Provide an overview of the updated Hanford Site 5-Year Plan, including planned accomplishments
- Discuss current Hanford Site goals and objectives for three major cleanup components:
 - Tank waste treatment
 - Risk reduction
 - Site infrastructure



Abbreviations and Acronyms

AMPS = Advanced Modular Pretreatment System

DFLAW = direct-feed low-activity waste

DFHLW = direct-feed high-level waste

LAW = low-activity waste

SST = single-shell tank

WIPP = Waste Isolation Pilot Plant (New Mexico)

Introduction

- Identifies Hanford Site's key planned accomplishments
- Informs and integrates with DOE's annual Key Performance Goals, the Hanford Integrated Priority List and budget formulation processes
- Provides focus on mission objectives and the near-term strategy for cleanup

TANK WASTE TREATMENT

- > Complete cold commissioning (operations with simulated waste) at Low-Activity Waste Facility
 - ✓ Initiate design of Advanced Modular Pretreatment System
 - ✓ Complete waste retrieval from AX Tank Farm and initiate waste retrieval from A Tank Farm
 - ✓ Complete construction of U Tank Farm surface barrier
 - ✓ Complete 222-S Laboratory 11A hot cell window replacement
- ✓ Complete in fiscal year 2024
- > Carryover to fiscal year 2025 or beyond

RISK REDUCTION

- ✓ Complete characterization, dewatering and grouting at K West Basin
- > Complete demolition preparation activities at select Central Plateau facilities
- > Complete removal of Reduction Oxidation Plant plutonium recovery hood
- > Obtain 100 K Area record of decision

SITE INFRASTRUCTURE

- ✓ Initiate 100 Area mission-critical electrical distribution feeders

Fiscal Year 2025

- Complete operational readiness review to authorize hot commissioning (operations with radioactive waste) at Low-Activity Waste Facility
- Complete contractual hot commissioning of Low-Activity Waste Facility and Effluent Management Facility
- Complete waste feed qualification process for the next direct-feed low-activity waste campaigns
- Extend useful life of hose-in-hose transfer lines supporting the Tank-Side Cesium Removal System
- Complete alternative selection for the West Area Risk Management Project
- Complete shipments for the 2,000-gallon Test Bed Initiative demonstration project

Fiscal Year 2025

- Advance design of Waste Treatment and Immobilization Plant High-Level Waste Facility



Construction activities at the High-Level Waste Facility continue to focus on installing equipment with the use of a crane and preparing to install the roof of the facility.

Fiscal Year 2026

- Optimize direct-feed low-activity waste operations through hot commissioning
- Initiate construction of the Advanced Modular Pretreatment System
- Initiate infrastructure upgrades supporting 200 West Area single-shell tank waste retrievals
- Initiate design of tank farm upgrades to support future high-level waste treatment
- Complete construction of T Tank Farm interim surface barrier

Fiscal Year 2027

- Initiate construction for the West Area Risk Management Project
- Complete 90% design for the High-Level Waste Facility
- Complete design for the cross-site waste transfer line
- Complete construction of B Tank Farm interim surface barrier



Construction scheduled to begin on the West Area Risk Management Project in 2027.

Fiscal Year 2028

- Complete waste retrieval from A Tank Farm to achieve consent decree milestone
- Ramp up construction at High-Level Waste Facility
- Complete design of waste transfer vault for direct feed of waste managed as direct-feed high-level waste
- Complete design of interim Hanford storage facility for canisters of immobilized high-level waste

Fiscal Year 2029

- Complete construction and initiate operations of West Area Risk Management System
- Complete construction and initiate operations of Advanced Modular Pretreatment System
- Complete construction and turnover to operations of SY Tank Farm infrastructure upgrades

Fiscal Year 2025

- Advance deactivation and cold and dark activities at 324 Building
- Complete 200 West Area Pump and Treat Facility air stripper installation for groundwater remediation

Fiscal Year 2026

- Initiate transfer of cesium and strontium capsules from the Waste Encapsulation and Storage Facility to dry storage at the capsule storage area
- Initiate certification for contact-handled transuranic waste by processing a container
- Obtain 100 N Area Record of Decision



Workers are preparing to move 1,936 radioactive capsules from the Waste Encapsulation and Storage Facility to safer, dry storage.

Fiscal Year 2027

- Complete construction of Environmental Restoration Disposal Facility Super Cell 11

Fiscal Year 2028

- Complete transfer of cesium and strontium capsules to dry storage
- Initiate shipments of transuranic waste to Waste Isolation Pilot Plant in New Mexico



Workers are scheduled to construct a new disposal cell at the Environmental Restoration Disposal Facility to support ongoing cleanup activities across the Hanford Site.

Fiscal Year 2029

- Complete demolition of 324 Building and initiate waste site 300-296 remediation
- Initiate demolition of K West Basin
- Initiate deactivation of the Waste Encapsulation and Storage Facility

Fiscal Year 2025

- Initiate construction of the Eastern Plateau Fire Station
- Complete 200 West Area potable water tank
- Complete reconditioning of 230-kV electrical transmission system
- Initiate replacement of single-circuit distribution poles
- Initiate zero-emission-vehicle infrastructure installations

Fiscal Year 2026

- Central Plateau Water Treatment Facility operational
- Initiate Central Plateau electric capacity upgrade
- Initiate 200 East Area potable water tank replacement
- Complete fire protection infrastructure for Central Plateau raw water system

Fiscal Year 2027

- Initiate crosstie of sanitary water system between 200 East and 200 West Areas
- Complete initial zero-emission-vehicle infrastructure installations

Fiscal Year 2028

- Complete Eastern Plateau Fire Station
- Complete construction of new water feed lines to 200 West Area mission-critical facilities
- Initiate replacement of export water line from pump house to Central Plateau

Fiscal Year 2029

- Complete reconfiguration and upgrades for the export water system
- Complete 200 East Area potable water tank



Hanford's pump stations date back to the 1940s. Work is underway to upgrade the export water system.

DOE is soliciting feedback through Oct. 31, 2024

More information, including the Hanford Site 5-Year Plan, is available on the Hanford.gov website

Questions? Please email 5YearPlan@rl.gov

[Public Involvement Opportunities](#)



Questions?

The Hanford Reach
White Bluffs Overlooking the Columbia River