



U.S. DEPARTMENT *of* ENERGY

Office of Environmental Management

Hanford Field Office

Hanford Field Office Presents to Oregon Hanford Cleanup Board

Ray Geimer, Hanford Site Manager

Mat Irwin, Assistant Manager – Waste Treatment and Immobilization Plant Project

U.S. Department of Energy, Hanford Field Office

November 13, 2025



U.S. DEPARTMENT
of **ENERGY**

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Hanford Speaker Bio



Ray Geimer, Manager – Hanford Field Office

Ray Geimer is the manager of the U.S. Department of Energy (DOE), Hanford Field Office (HFO).

In this role he is responsible for overseeing daily operations, program planning, project execution, budgeting, complying with the Tri-Party Agreement and consent decree, and managing the Hanford Site in a safe, environmentally acceptable and efficient manner.

In this role he is responsible for overseeing daily operations, program planning, project execution, budgeting, complying with the Tri-Party Agreement and consent decree, and managing the Hanford Site in a safe, environmentally acceptable and efficient manner.

Ray has more than 40 years of experience in the DOE Office of Environmental Management complex. His experience includes nuclear facility construction and operations, large-scale project management, and deactivation and demolition activities.

Prior to being named HFO manager and since May 2022, Ray was the general manager of Navarro-ATL — the contractor that manages the Hanford Site's 222-S Laboratory. As vice president for Hanford Site's 100 K Closure Project, Ray managed an \$80-million annual budget and a \$311-million construction project for a nuclear-waste packaging and transport facility.

Ray was also the chief engineer and deputy project manager for the Integrated Waste Treatment Unit in Idaho, a \$680-million nuclear facility project. At the Rocky Flats site in Colorado, he managed a \$200-million waste-disposition program, creating cost-saving initiatives that revolutionized project operations. As the office manager for Science Applications International Corporation, Ray oversaw the Waste Management Technology Division, managing a team of 50 with profit-and-loss accountability.

Ray holds a bachelor's degree in chemical engineering from Clarkson University and a Master of Engineering in chemical engineering from the University of Idaho. He is a previously registered professional engineer in Idaho and holds a U.S. patent for high-temperature waste treatment.

Hanford Speaker Bio



Mat Irwin,
Assistant Manager – Waste Treatment and Immobilization Plant Project

Mat is the assistant manager for the Waste Treatment and Immobilization Plant (WTP) Project supporting the completion of construction, startup testing, and transitioning to operations of the plant's Low-Activity Waste Facility and design of the High-Level Waste Facility. He began his WTP Project career as the deputy assistant manager in 2018.

Mat was instrumental in shifting the culture of the WTP Project from construction through startup, commissioning, and operations. His more than 34 years of operational experience at a naval shipyard and DOE has ideally positioned him to lead Hanford's Direct-Feed Low-Activity Waste Program from startup through operations.

During his career, Mat has been directly involved in performance improvement of Hanford Project Management, oversight, readiness, and operations processes. He has worked as a senior technical safety manager since 2013 and is a recognized leader in the Hanford Tank Waste Treatment mission.

Mat has a working-level knowledge of operations, project controls; risk management; and environmental, safety, health and quality. He has led multiple readiness reviews, integrated safety management system verification reviews, assisted the DOE Office of Environmental Management with technical support, and continues to support ongoing project peer reviews (e.g., Waste Isolation Pilot Plant, Idaho National Laboratory sample preparation laboratory).

Beginning in 1998 and prior to his work with the WTP Project, Mat supported the Hanford Site as a facility representative, Tank Operations Division director, and deputy Assistant Manager for Technical and Regulatory Support.

Mat holds a bachelor's degree in nuclear engineering from Arizona State University and is a certified DOE Federal Project Director.

Hanford Site Mission

Mission:

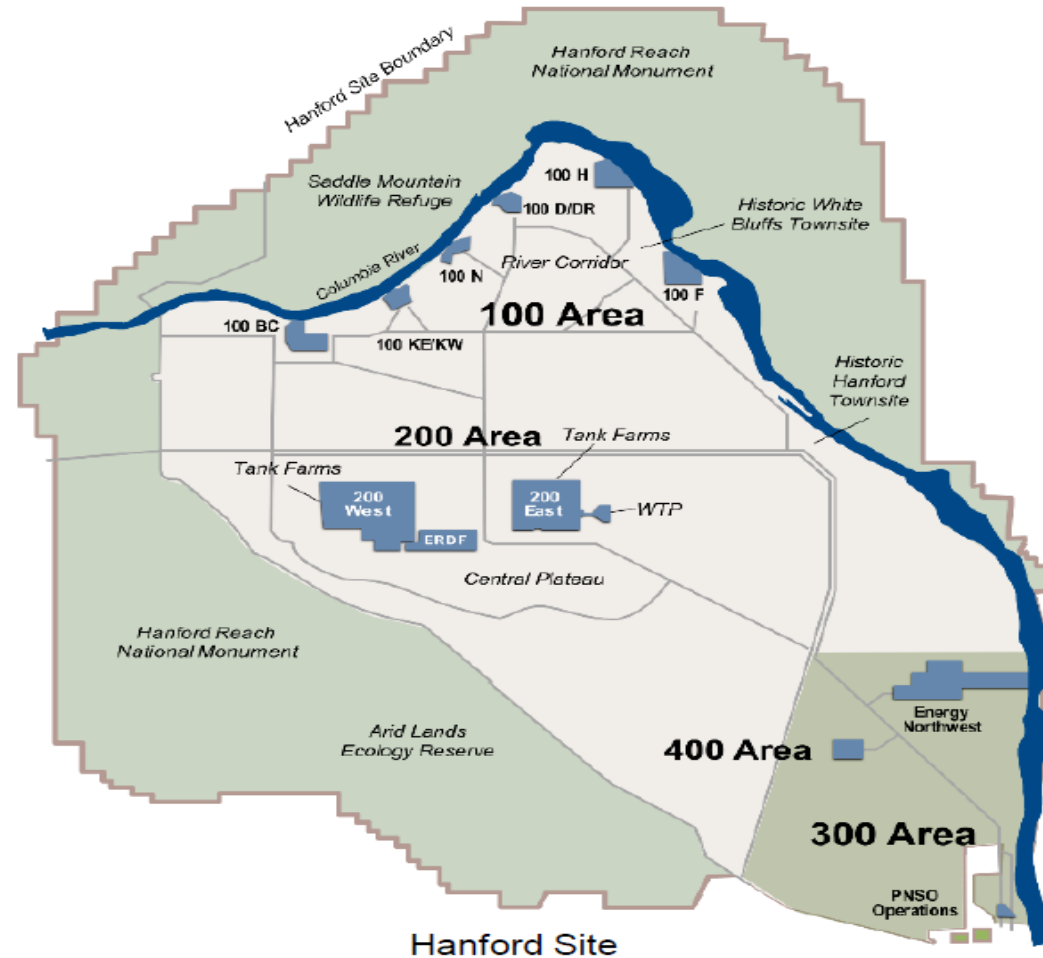
Safely and effectively treating tank waste and delivering environmental remediation

Key Site Activities:

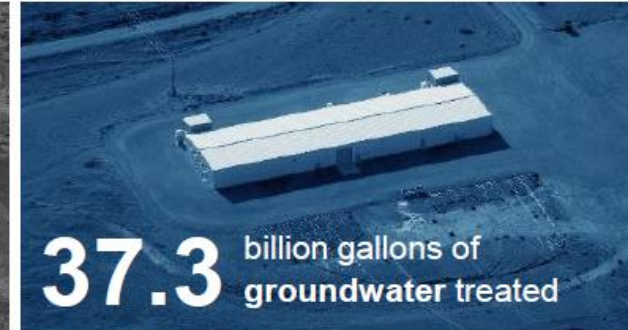
- Deliver safe and secure operations
- Manage, treat and disposition tank waste
- Stabilize aging structures
- Demolish retired facilities
- Remediate waste sites
- Treat contaminated groundwater
- Right-size infrastructure

DOE Leadership Team Focus Areas:

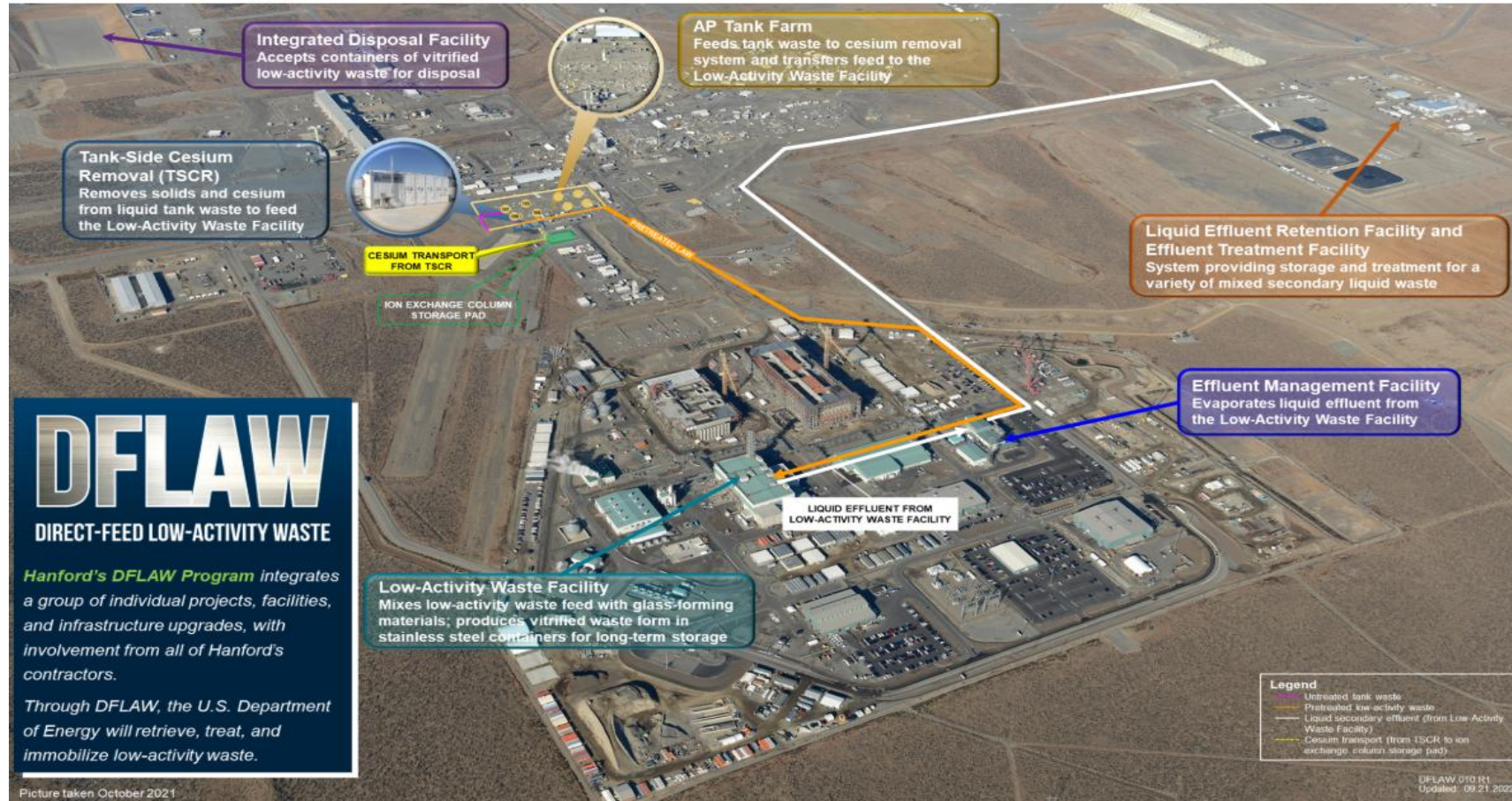
- Health and safety of the workforce
- Strengthen operations-based culture
- Serve as a fair and demanding customer
- Strive for constructive stakeholder/tribal relationships
- Enhance DOE/contractor teamwork



Hanford By The Numbers



Direct-Feed Low-Activity Waste (DFLAW)



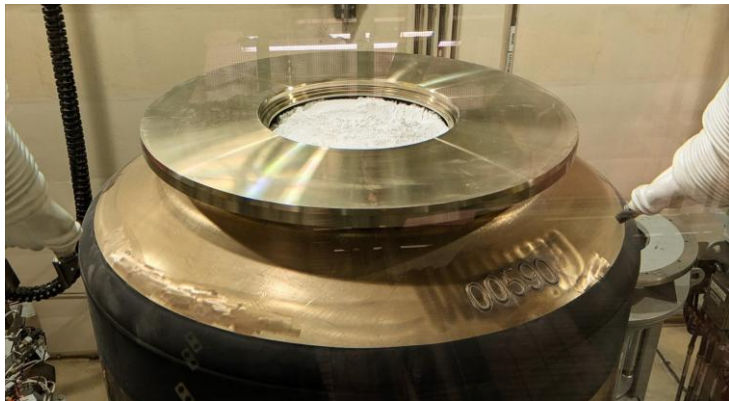
DFLAW is an assembly of highly interdependent projects and infrastructure improvements, managed as a program, that is operating together to vitrify and dispose of low-activity waste.

DFLAW Status

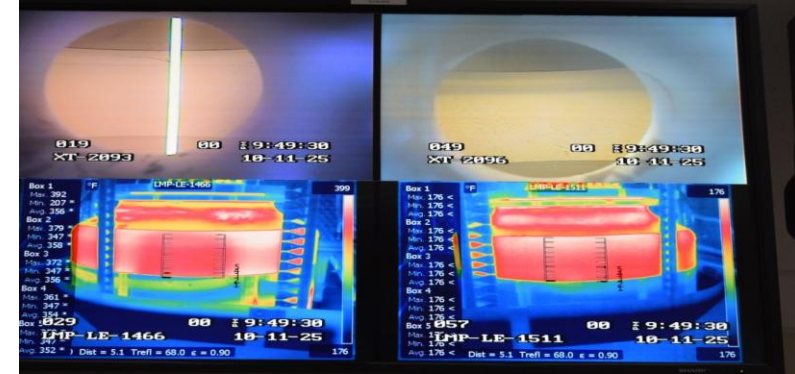
AP-106: Crews installed the jumper pipe from AP-106 to the Waste Treatment and Immobilization Plant



Waste Vitrification Began on Oct. 11, 2025: More than 10,000 gallons of tank waste from tank A-101 is vitrified



Melter 1 & 2 Operations: Hot Commissioning testing demonstrates readiness



Vitrified Waste Disposed of: The first containers were transported to Hanford's Integrated Disposal Facility



Tank-Side Cesium Removal

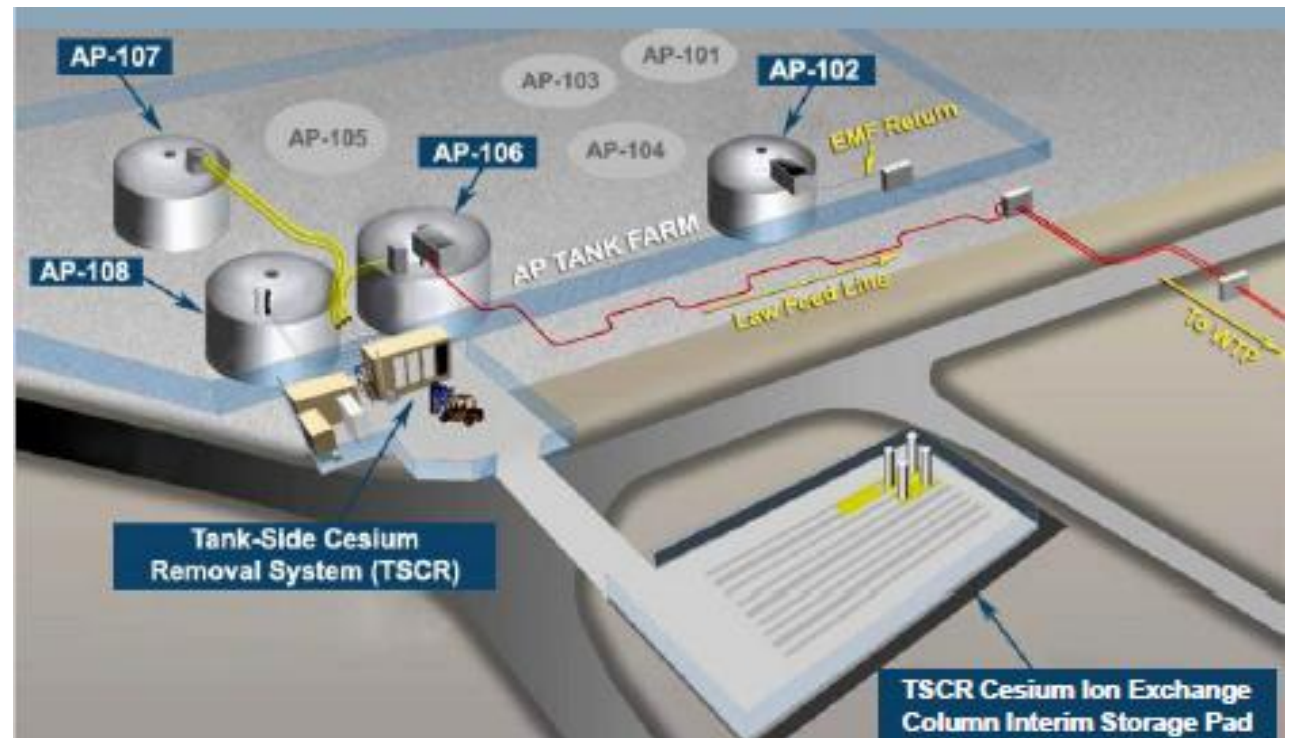
Background:

The Tank-Side Cesium Removal (TSCR) System filters undissolved solid material and removes cesium from liquid waste. These materials account for 99.9% of the radioactivity in the waste stream.

The system provides a low-activity waste stream that can be sent to Hanford's Waste Treatment and Immobilization Plant's (WTP) Low-Activity Waste Facility for vitrification (immobilization in glass). The system is located just outside Hanford's AP Tank Farm, which stores the waste before and after TSCR treatment.

Tank Retrieval Progress:

- **A-101:** Complete and awaiting Ecology regulatory approval
- **A-102:** In progress. Estimated completion by mid 2026



Questions?

