



U.S. DEPARTMENT *of* ENERGY

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Office of Environmental Management

*Hanford Field Office*

# Tank Waste Operations

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Presented to: Oregon Hanford Cleanup Board

Presented by:

Ricky Bang, Deputy Assistant Manager for Tank Waste Operations

U.S. Department of Energy, Hanford Field Office

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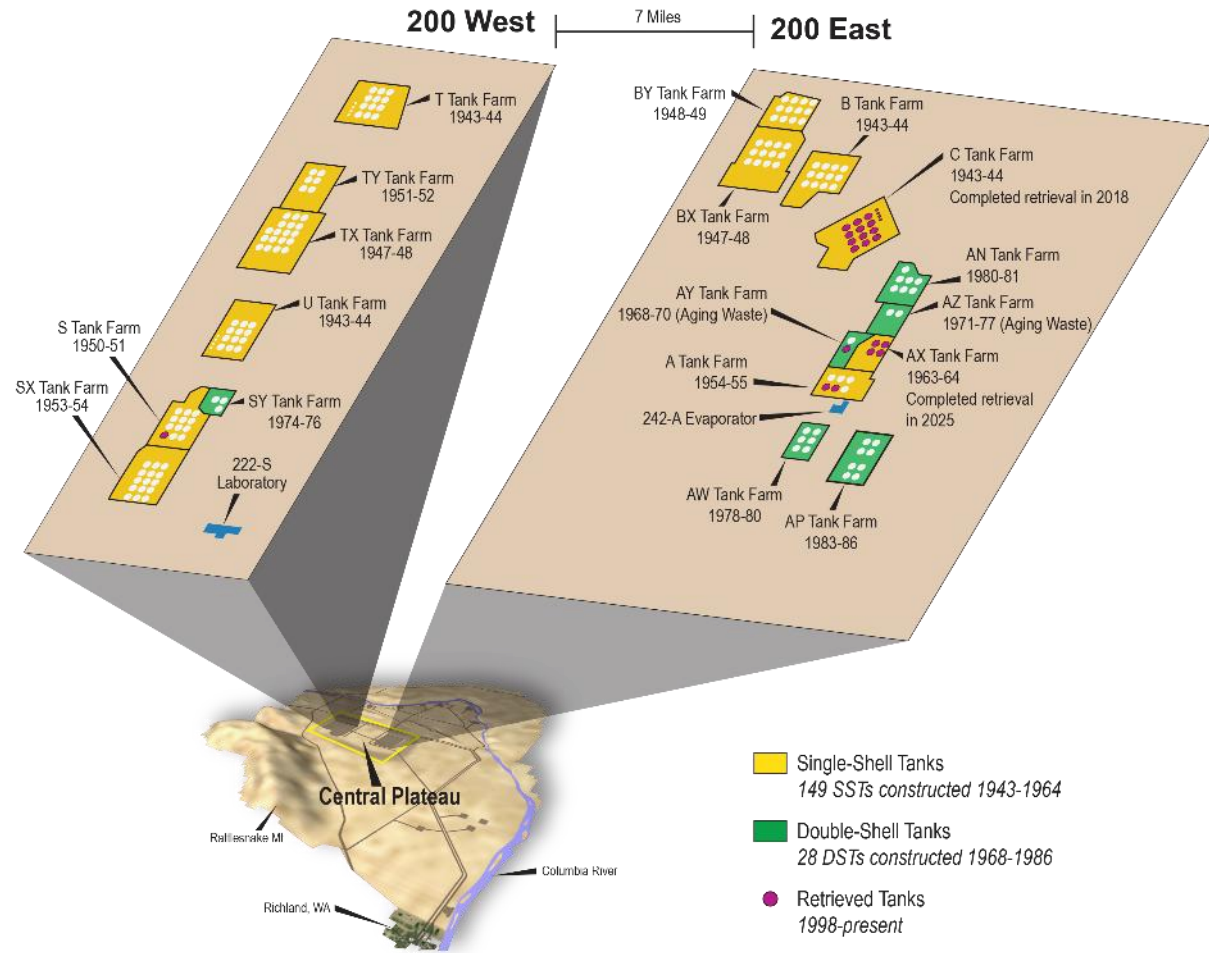


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# Tank Farms Overview



- 2 SST farms retrieved
- 22 SSTs retrieved
- No. 23 complete May 2026 (A-102)
- No. 24 complete August 2026 (A-106)
- No. 25 starts November 2026 (A-103)

## Single-Shell Tank A-101



H2C2503-15

# TSCR is Currently Paused

## Efforts to Create Processing Space

- WTP has vitrified over 100,000 gallons.
- Tank AP-106 remains near capacity.
- Space for TSCR processing and single-shell tank retrievals is minimal.
- Multiple DOE efforts to create Double-Shell Tank Space:
  - Glass former powder to melter feed prep
  - AW-102 level rise
  - 14-day flush
  - Effluent Management Facility Concentrate



# Effluent Management Facility (EMF) Concentrate

## What Is EMF concentrate?

EMF concentrate is a secondary liquid byproduct created during the vitrification process at the Waste Treatment and Immobilization Plant (WTP). As tank waste is turned into glass, the off-gas treatment system produces a small amount of concentrated liquid.

This is not primary tank waste.

## Why a New Approach?

Today, EMF concentrate is recycled back into the melter feed, which adds complexity and slows down the amount of real tank waste that can be processed.

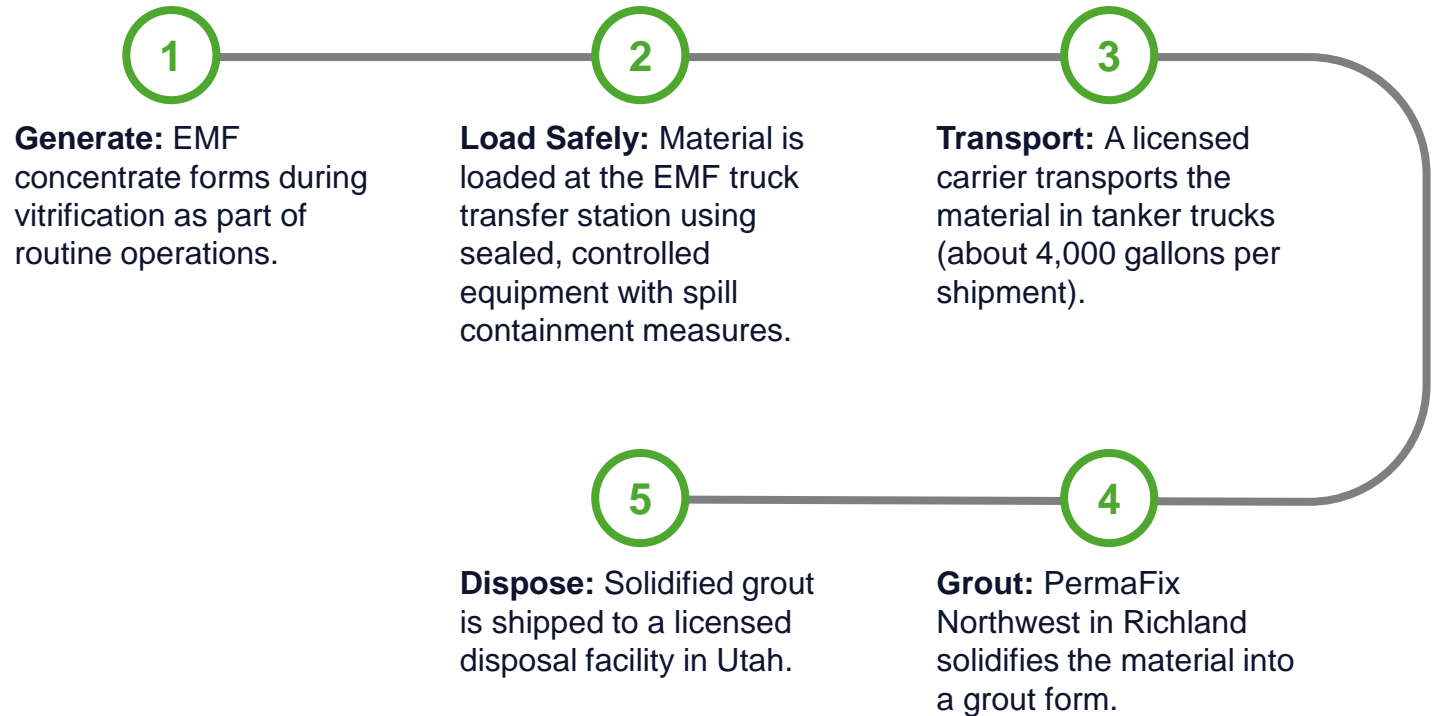
By grouting (solidifying) a defined portion of this secondary waste offsite, WTP can:

Increase tank waste throughput by ~20%

Shorten the overall cleanup mission

Improve operational stability

## How the Process Works



# Effluent Management Facility (EMF) Concentrate

## How Much Will Be Disposed Offsite?

The current permit sets an initial limit of 87,000 gallons per year, with any expansion requiring further technical analysis and public review.

## Safety and Oversight

The process is designed with multiple layers of safety and regulatory control:

- DOT Class 7 shipments of the lowest radiological category, with only trace levels of radionuclides.
- Performed by trained, qualified subcontractors following federal DOE, DOT and applicable state requirements.
- DOE retains ownership of the waste until transferred to PermaFix.
- Built in safeguards prevent “orphaned waste,” requiring recycleback options if a disposal facility is unavailable.



Representative truck, trailer, and container

# Hanford Waste Dual-Path Approach

