



# THE HANFORD SITE

## Proposed Permit Modification for the 242-A Evaporator Operating Unit

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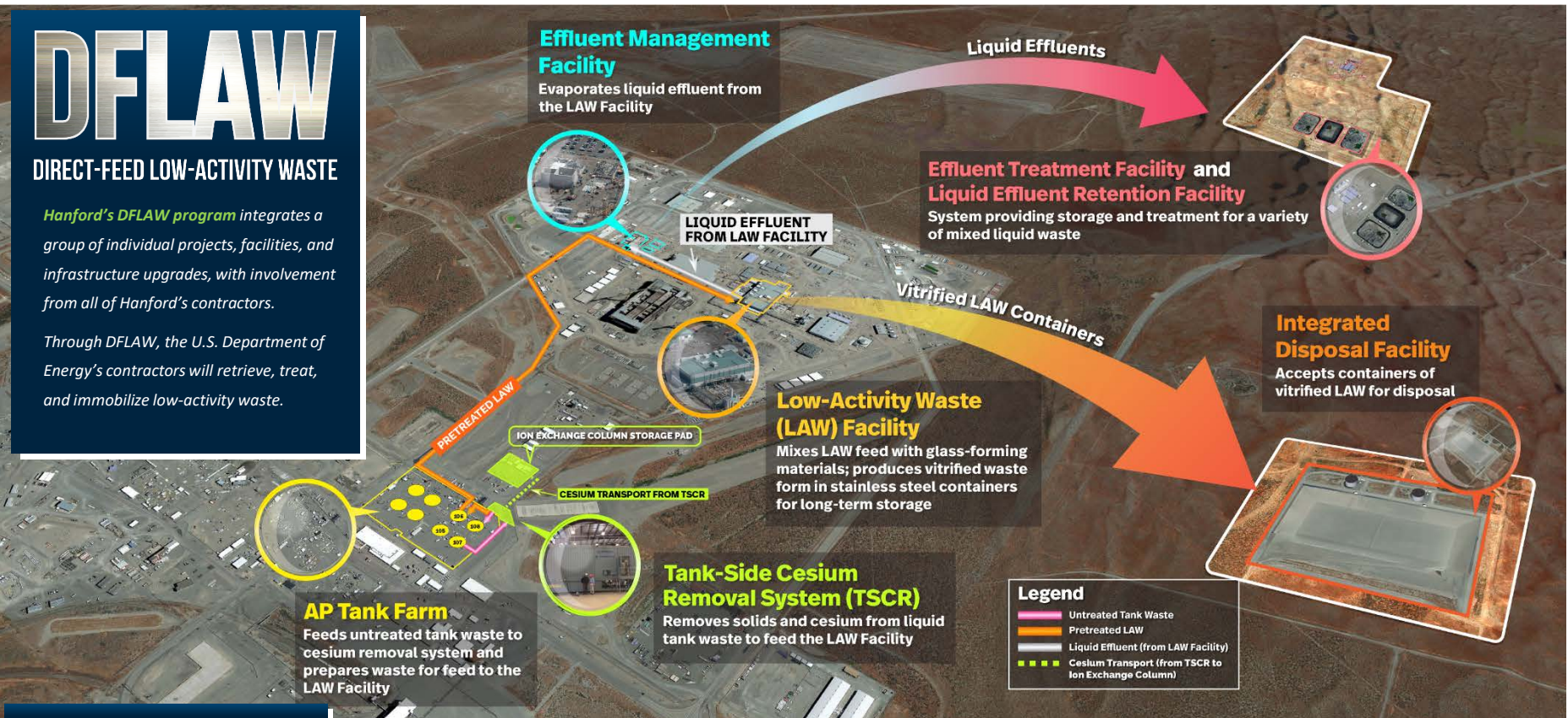
# Direct-Feed Low Activity Waste Configuration

## DFLAW

### DIRECT-FEED LOW-ACTIVITY WASTE

Hanford's DFLAW program integrates a group of individual projects, facilities, and infrastructure upgrades, with involvement from all of Hanford's contractors.

Through DFLAW, the U.S. Department of Energy's contractors will retrieve, treat, and immobilize low-activity waste.



## INFRASTRUCTURE

ELECTRICAL

WATER/SEWER

ROADS

SECURITY

INFORMATION TECHNOLOGY

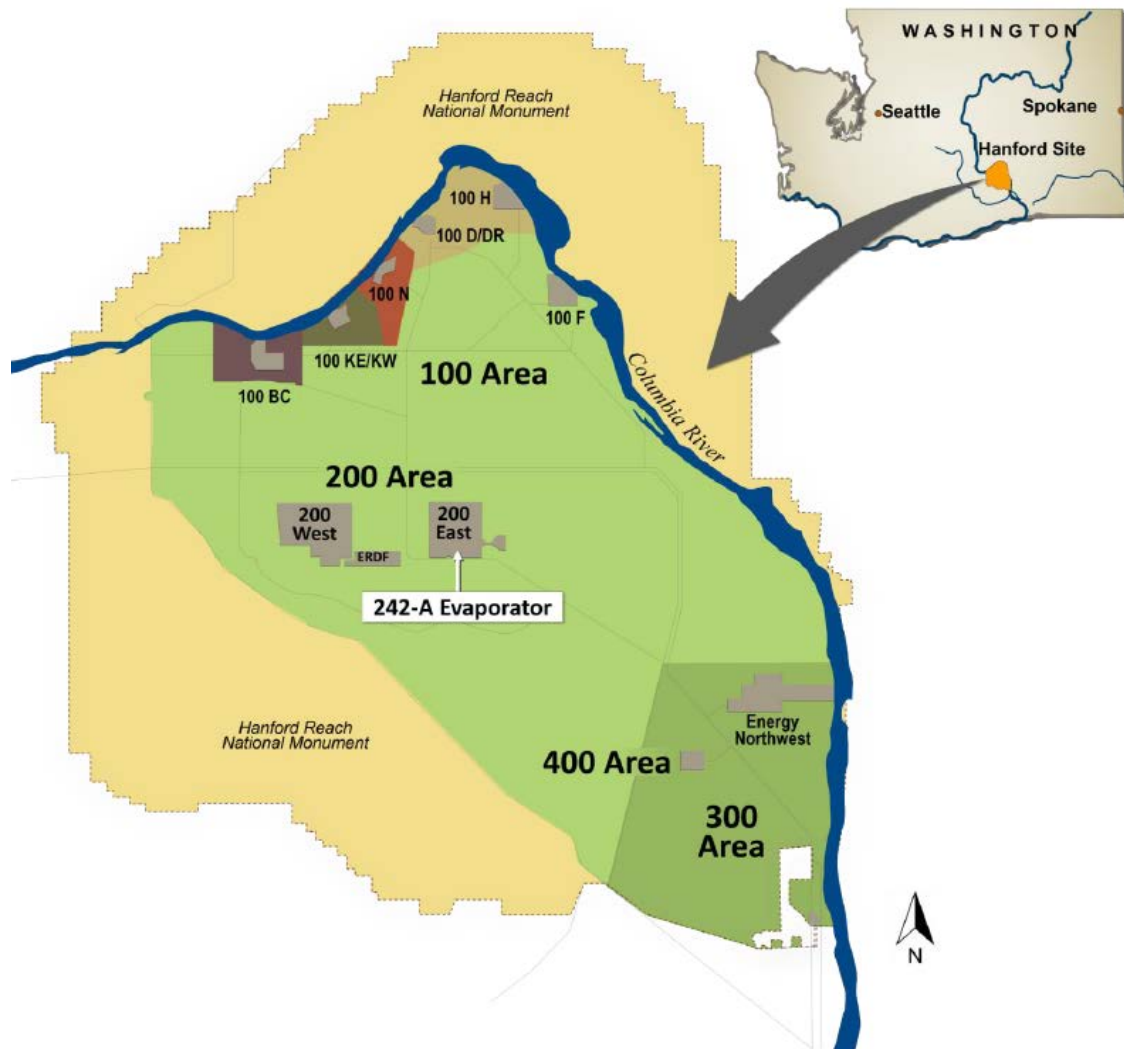
EMERGENCY PREPAREDNESS

# Regulatory Framework for Permitting Action

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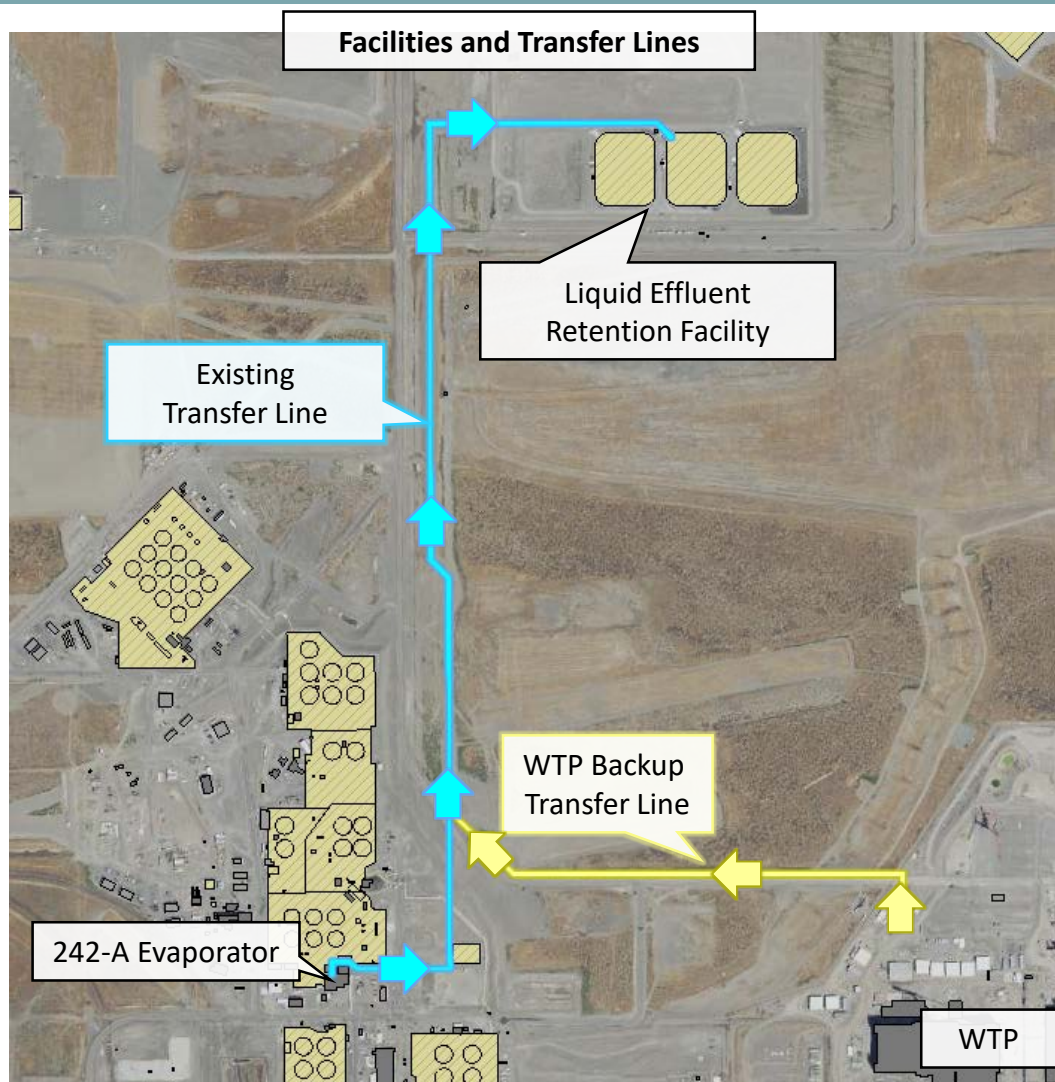
- A permit issued under the Resource Conservation and Recovery Act (RCRA) provides the regulatory framework for management of hazardous waste at Hanford
- Washington State Department of Ecology is the regulatory authority for the Hanford Dangerous Waste Permit (Revision 8C), which includes DOE's Hanford tank waste treatment, storage, and disposal activities
- The permittees (the Department of Energy's Office of River Protection and contractor Washington River Protection Solutions) are requesting a Class 2 permit modification to the 242-A Evaporator operating unit

# Where is the 242-A Evaporator?



# Proposed Permit Modification Overview

- Connect a backup transfer line from the Waste Treatment and Immobilization Plant (WTP) to an existing transfer line between the 242-A Evaporator and the Liquid Effluent Retention Facility (LERF)
- Upgrade an electronic leak detection system on the transfer lines that will move process condensate to the LERF
- Revise information describing the 242-A Evaporator boundary, leak detection and leak/spill response



# Proposed Modification for Transfer Line Leak/Spill Detection

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- Electronic leak detection alarms are monitored by control rooms in the 242-A Evaporator and Effluent Treatment Facility
- Visual leak detection can be performed at the Liquid Effluent Retention Facility
- Proposed permit modifications would ensure that:
  - Ecology is notified if the leak detection system is out of service under specific conditions
  - Effectiveness of the leak detection system will be demonstrated prior to use
    - Leak detectors will be functionally tested every year
    - Integrity of the transfer lines will be assessed every 10 years

- What is the public being asked to comment on?
- The 60-day public comment period is open through Sept. 16, 2019
- 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

<http://wt.ecology.commentinput.com/?id=GU4pS>

# Questions?

The Hanford Reach  
White Bluffs Overlooking the Columbia River