



THE HANFORD SITE

Update: Waste Treatment and Immobilization Plant, Direct-Feed Low-Activity Waste Program, and Melter 1 Heatup

Mat Irwin

Deputy Manager

Waste Treatment and Immobilization Plant

Office of River Protection

October 3, 2022

Waste Treatment and Immobilization Plant Complex

June 2022



Waste Treatment and Immobilization Plant complex



June 2022

Waste Treatment and Immobilization Plant exhaust treatment system testing



June 2022

Plant cooling water modification

Direct-Feed Low-Activity Waste (cont.)



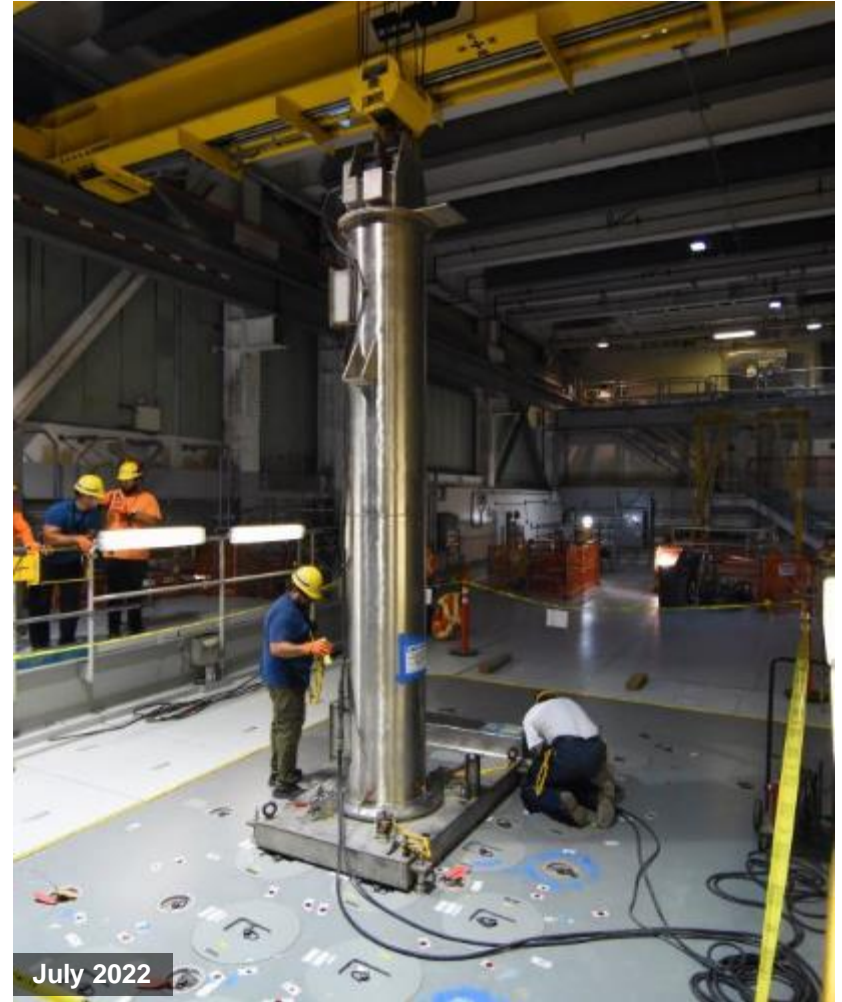
July 2022

Training crews at the Low-Activity Waste Facility



July 2022

Installing temporary heaters for the startup of Melter 1



July 2022

Testing bubblers that will be installed in melters

Direct-Feed Low-Activity Waste (cont.)



New Effluent Treatment Facility steam stripper



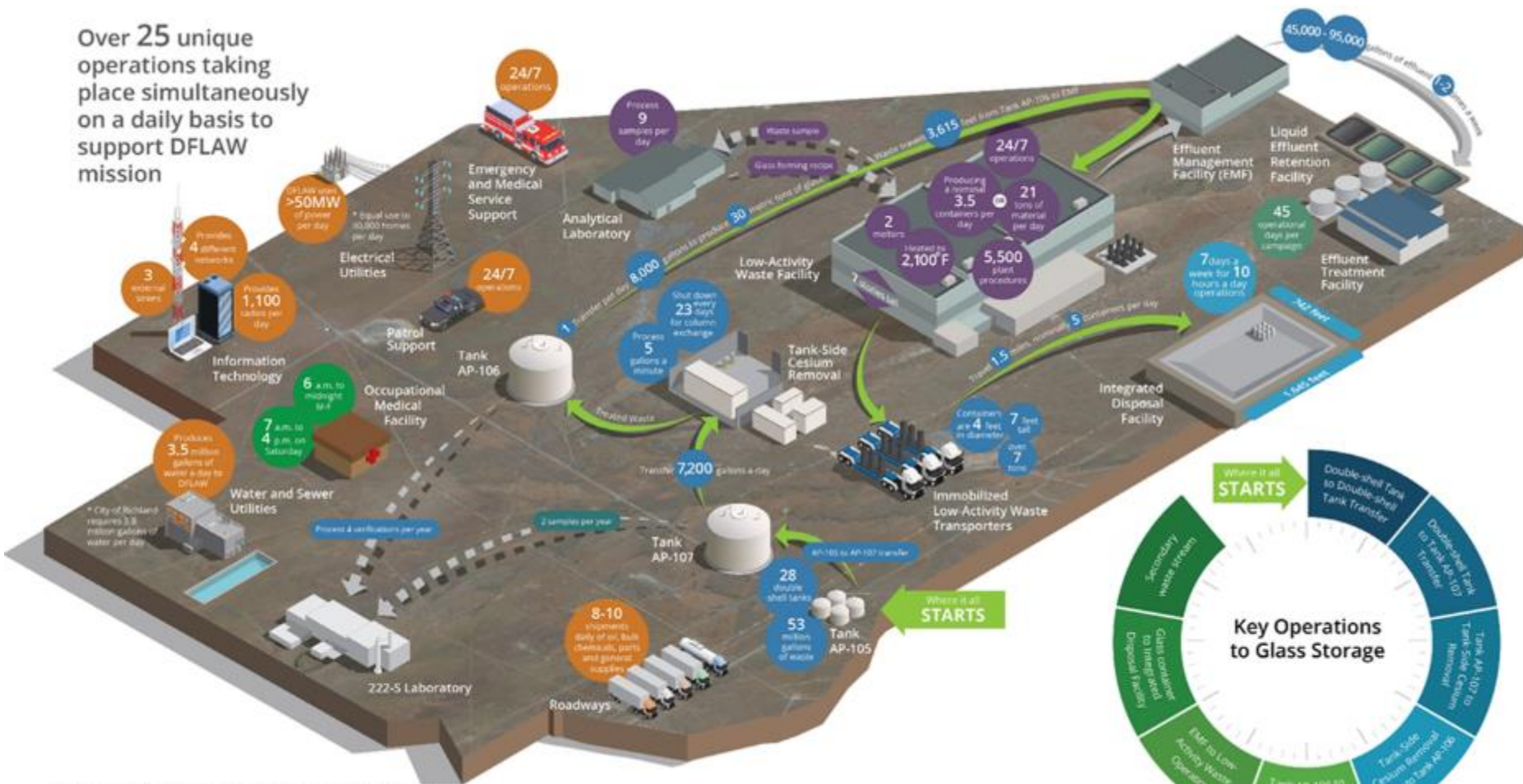
Work progresses at Liquid Effluent Retention Facility Basin 41



Integrated Disposal Facility

Direct-Feed Low-Activity Waste (cont.)

Over 25 unique operations taking place simultaneously on a daily basis to support DFLAW mission



NOTE: Nominal values are depicted and will fluctuate throughout operations

■ Tank Farms ■ 222-S Laboratory ■ Waste Treatment and Immobilization Plant ■ Effluent Treatment Facility ■ Disposal Operations ■ Infrastructure Services ■ Occupational Medicine



19F-07171 Rev 1



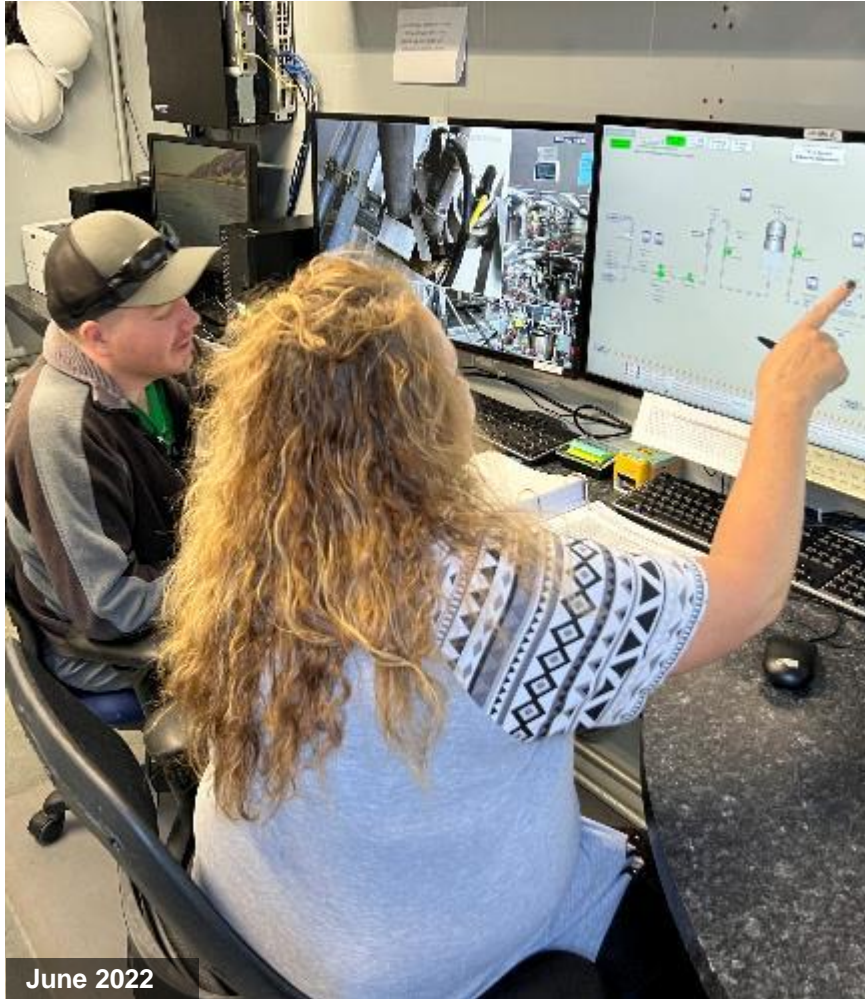


THE HANFORD SITE

Update: Tank Farms, Tank-Side Cesium Removal System, and Agreed Order

Delmar Noyes
Assistant Manager for Tank Farms Project
Office of River Protection

October 3, 2022



June 2022

Tank-Side Cesium Removal System batch 2 operations



July 2022

System planned maintenance

Tank AX-101 Retrieval



September 2022

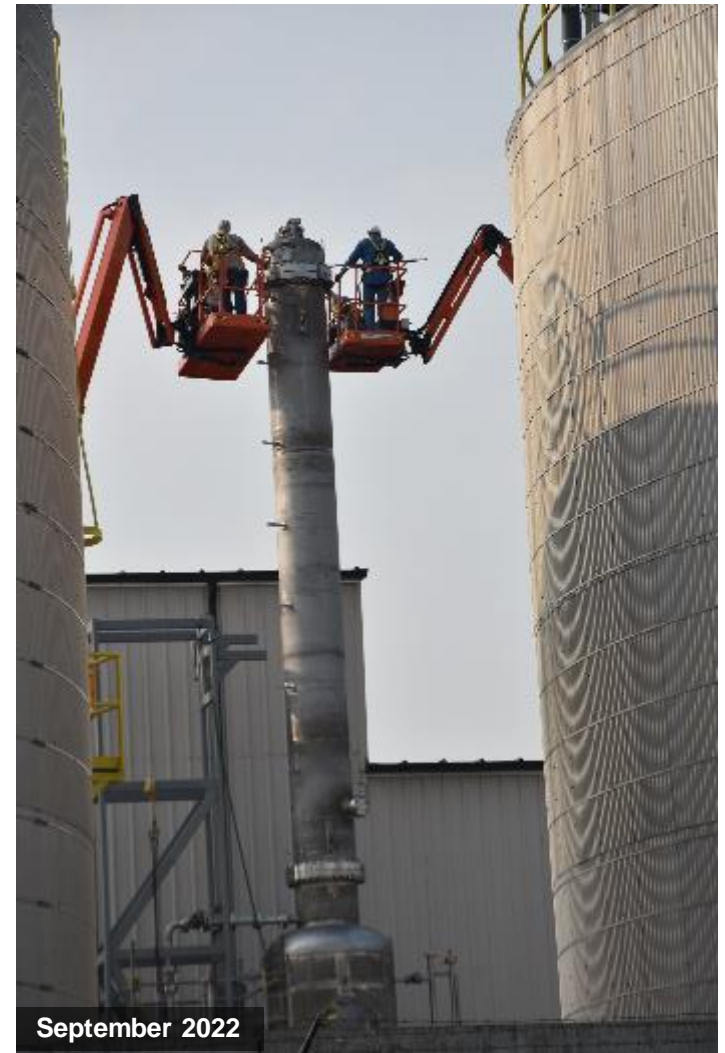
Tank AX-101 A-Pit Riser 5B slurry pump installation

Effluent Treatment Facility to Support Direct-Feed Low-Activity Waste Program



September 2022

Floating cover installation on wastewater storage basin at the facility

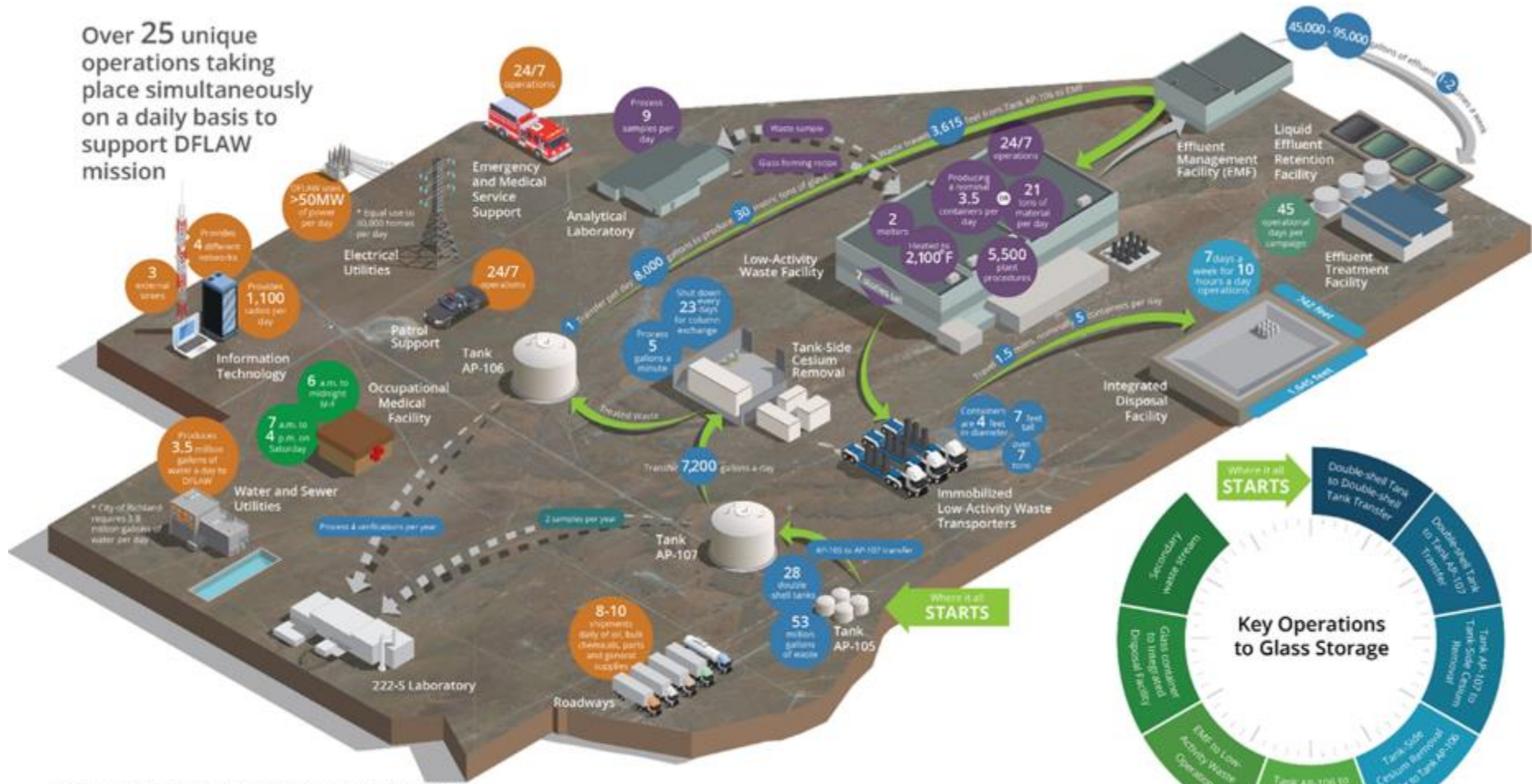


September 2022

Replacing gasket on steam stripper

Direct-Feed Low-Activity Waste

Over 25 unique operations taking place simultaneously on a daily basis to support DFLAW mission



NOTE: Nominal values are depicted and will fluctuate throughout operations

- Tank Farms
- 722-S Laboratory
- Waste Treatment and Immobilization Plant
- Effluent Treatment Facility
- Disposal Operations
- Infrastructure Services
- Occupational Medicine



19F-07171 Rev 1





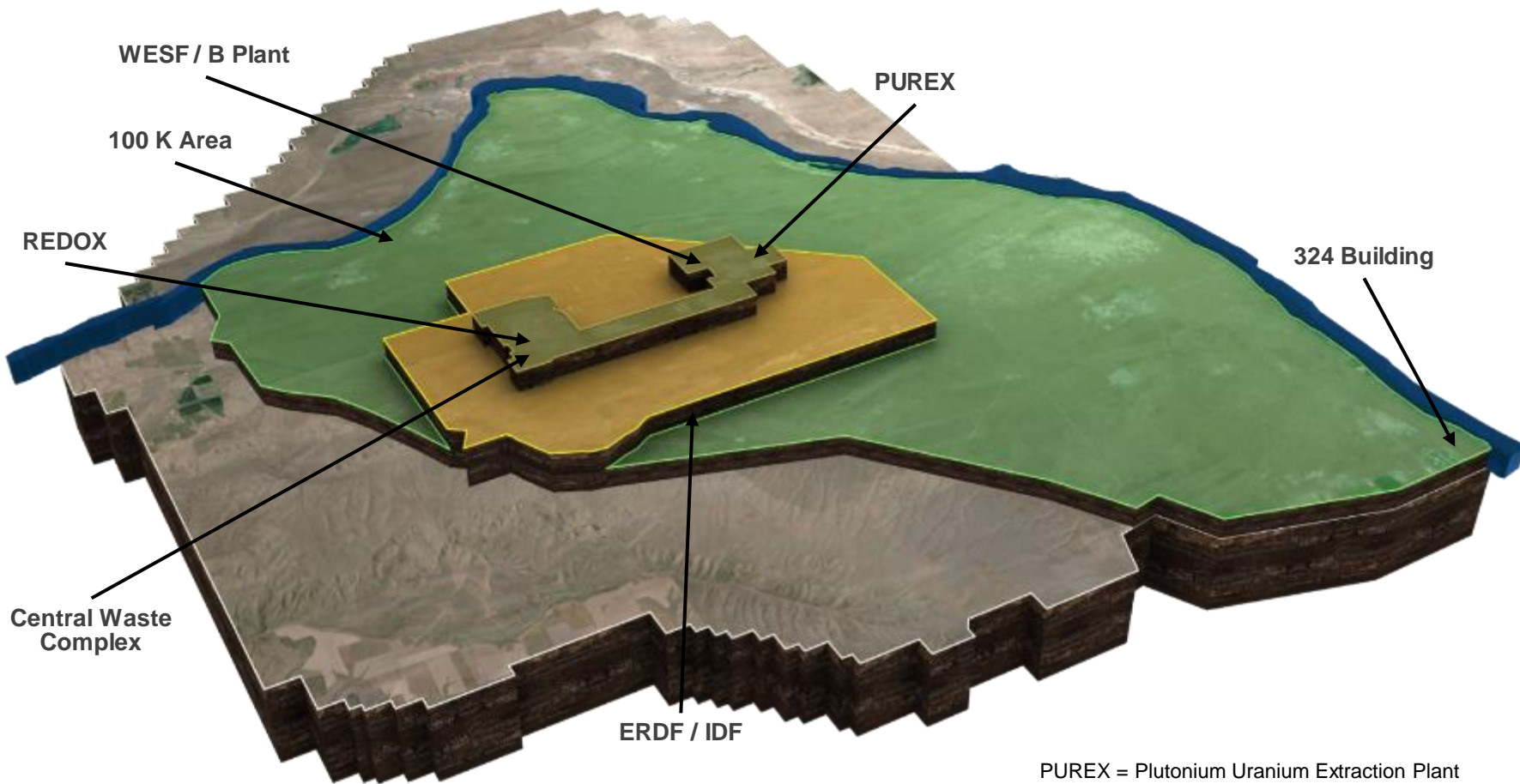
THE HANFORD SITE

Hanford Risk Reduction

Tom Teynor
Deputy Manager
Assistant Manager for River and Plateau
Richland Operations Office

October 3, 2022

Key Risk-Reduction Projects and Facilities Across Hanford



PUREX = Plutonium Uranium Extraction Plant
REDOX = Reduction-Oxidation Plant
WESF = Waste Encapsulation and Storage Facility
ERDF = Environmental Restoration Disposal Facility
IDF = Integrated Disposal Facility



August 2022

Groundwater treatment equipment upgrades



August 2022

Waste Encapsulation and Storage Facility equipment install



June 2022

224-B hot cell entrance



June 2022

324 Building stabilization



August 2022

K East "cocooning"



June 2022

Demolition of K West fuel storage bunker

Risk Reduction (cont.)



Plutonium Finishing Plant before demolition



Plutonium Finishing Plant after demolition

