THE HANFORD SITE CLEANUP FY 2023 – FY 2027

**WASTE TREATMENT**

- Treat 5 billion gallons of contaminated groundwater at the 200 West Area pump and treat facility
- Obtain 100-K Area final ROD
- Complete waste site 300-296 excavation and initiate 324 building deactivation
- Obtain 100-H Area final ROD
- Treat 2.3 billion gallons of contaminated groundwater at 100-D/H Areas pump and treat facilities
- Complete LEVF / ETF DFLAW upgrades and facility operations, treating up to 30 million gallons of secondary liquid waste
- Complete nearly 200 infrastructure and service upgrade projects, supporting increased pace of operations
- Complete retrieval of six SSTs from A and AX Farms
- Complete ancillary facility demolitions to support risk reduction and PUREX and REDOX canyon cleanout activities

**MINIMUM SAFE OPERATIONS**

Safety, security, and compliance MANAGE Hanford’s critical resources efficiently, enabling improving infrastructure to reliably sustain the Hanford cleanup mission. MAINTAIN safeguards and security for Hanford Site.

**MISSION AND SITE INFRASTRUCTURE**

- Progress groundwater remediation, including pump and treat operations, to remove contaminants
- Focused projects in water systems, electrical utilities, facilities, network and information technology, and transportation
- Obtaining 100-K Area final ROD
- Completing 400 Area Fire Station
- Complete Central Plateau Water Treatment Facility
- Transfer cesium and strontium capsules to dry storage
- Commission IDF and operate to dispose of LAW glass-filled containers supporting the DFLAW program

**RISK REDUCTION**

- Resuming WTP High-Level Waste (HLW) facility design and construction
- Remediating contaminated waste sites and demolishing facilities
- Operating on-site waste disposal facilities
- Transitioning remediated geographic areas to the Long-Term Stewardship program
- Comprised of 35 soil, 6 legacy processing facilities and 10 groundwater operable units (grouping of similar scope for decision-making) that require remediation
- Progressing groundwater remediation, including pump and treat operations, to remove contaminants
- Completing 400 Area Fire Station
- Transfer cesium and strontium capsules to dry storage
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**WASTE DISPOSITION**

- Manage the interim storage of 156 Basins sludge, cesium and strontium capsules, loaded ion exchange columns, spent nuclear fuel and transuranic wastes until final decisions regarding their treatment and/or disposition are established while overseeing disposal facilities operations.
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**RISK REDUCTION**

- Clean up Central Plateau and Columbia River Corridor waste sites and demolish facilities supporting ongoing groundwater remediation actions.
- Minimizing the footprint requiring extensive surveillance and maintenance activities.
- Safely store tank waste until it can be transferred to treatment facilities and close facility operations.
- Completing nearly 200 infrastructure and service upgrade projects, supporting increased pace of operations
- Progressing toward completing 400 Area Fire Station

**GOALS: SAFELY DRIVING RISK REDUCTION WITHIN FUNDING ALLOCATION**

**TANK WASTE TREATMENT**

- Safely managing tank waste, contained in 177 underground storage tanks within 12 single-shell tank (SST) farms and 6 double-shell tank (DST) farms, until it is treated
- Initiating and optimizing tank waste treatment via DFLAW

**MISSION AND SITE INFRASTRUCTURE**

- Maintaining and improving critical infrastructure to sustain the Hanford cleanup mission for decades of operations
- Obtaining 100-K Area final ROD
- Completing 400 Area Fire Station
- Transfer cesium and strontium capsules to dry storage
- Commission IDF and operate to dispose of LAW glass-filled containers supporting the DFLAW program

**ENABLING ASSUMPTIONS**

- Annual funding of approximately $2.7 billion
- COVID-19 effects not fully incorporated

**LONG-TERM STEWARDSHIP**

Transition geographic areas where facility demolition and waste site remediation activities are complete to a surveillance-and-maintenance program, ensuring long-term protection of human health and safety and environmental resources. PERFORM institutional controls monitoring and reporting in support of federal Comprehensive Environmental Response, Compensation and Liability Act five-year reviews.

**MAJOR COMPONENTS OF THE HANFORD SITE CLEANUP MISSION**

**WASTE TREATMENT**

- Continue treatment of tank waste, operating the Waste Treatment and Immobilization Plant (WTIP) via the Direct-Feed Low-Activity Waste (DFLAW) program to stabilize (immobilize in glass) tank waste for disposal. Manage secondary liquid waste and solid wastes generated in the treatment processes. Characterize waste generated from remedial actions for treatment and disposal. EXPLORE and IMPLEMENT opportunities for alternate treatment and disposition pathways.

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**PACE of OPERATIONS**

Direct-feed low-activity waste

The DFLAW program at the WTP is the first of many long-term cleanup activities that will be employed at Hanford. Hot commissioning will begin as early as December 2023, initiating an exciting new phase of the Hanford cleanup mission.

**ONE HANFORD TRANSITION**

**MISCELLANEOUS**

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**CRITICAL ACTIVITIES:**

**PACE 2022**

Complete AX-102 and AX-104 SST retrievals (current due rate milestone B-3)

Initiate Tank-Side Cesium Removal (TSCR) system operations [new]

Complete WTP loss-of-power testing

Complete WTP water run

Complete first Low-Activity Waste (LAW) facility motor heatup

Initiate LAW facility cold commissioning with simulated tank waste

Initiate second LAW facility motor heatup

Initiate Tank-Side Cesium Removal (TSCR) system operations [new]

Complete WTP loss-of-power testing

Complete WTP water run

Complete first Low-Activity Waste (LAW) facility motor heatup

**CRITICAL ACTIVITIES:**

**TF-POWER**

Commissioning will begin as early as the first of many long-term cleanup activities. This will affect how essential services efficiently and effectively reduces risk and will continue to be safely and flexibly delivered with the right level of rigor and robustness. Today, nearly 10 billion gallons of groundwater. Mission and site infrastructure will construct and operate the Central Plateau Water Treatment Facility, export water system upgrades at 100-B Area pump houses, and 400 Area Fire Station. This scope safely, effectively and efficiently reduces risk and advances the Hanford Site cleanup mission.

**ESSENTIAL SERVICES**

The Hanford Site is transitioning to decades of 24/7 operations. This will affect how essential services will continue to be safely and flexibly delivered with the right level of rigor and robustness. Today, nearly 10 billion gallons of groundwater. Mission and site infrastructure will construct and operate the Central Plateau Water Treatment Facility, export water system upgrades at 100-B Area pump houses, and 400 Area Fire Station. This scope safely, effectively and efficiently reduces risk and advances the Hanford Site cleanup mission.

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