

Richland Operations Office Update

Hanford Advisory Board

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Richland Operations Office Vision

Continuing Our Legacy of Success: Cleanup and Protection for the Future



2016 - 2028



K Basin Sludge Transfer

- Complete transfer of K West Basin sludge to the Central Plateau

Complete Remaining River Corridor Cleanup

- Complete dewatering, demolition and removal of K West Basin
- Complete the remainder of K Area facility D4 and waste site remediation
- Complete K Area Reactors Interim Safe Storage
- Complete 618-10 and 316-4 remediation
- Complete 300-296 waste site remediation and 324 Building D4
- Conduct any additional soil remediation required by the final CERCLA RODs
- Complete 618-11 remediation

Complete Capsule Transfer from the WESF to Dry Storage

- Complete design and construction of a transfer and storage facility
- Transfer 1,936 cesium/strontium capsules (~100 million curies) to dry storage

Complete Infrastructure Upgrades to Accomplish the Site Mission

- Upgrade critical site infrastructure
- Support startup of the Waste Treatment Plant and Tank Farm operations

Expand Groundwater Cleanup

- Complete 300 Area uranium sequestration
- Conduct any additional groundwater remediation required by the final River Corridor CERCLA RODs
- Obtain 200 East CERCLA RODs
- Implement 200 East (BP-5/PO-1) remedies
- Implement additional remedies required by the 200 West UP-1 CERCLA ROD
- Conduct well decommissioning

Mission:
Protect the workers, public and environment by further risk reduction, provide necessary infrastructure for continued safe and effective cleanup operations, and restore Hanford lands for access and use.

Infrastructure and Facility Base Operations

- Operate key waste management facilities
- Maintain safe operations for Hanford nuclear and nonnuclear facilities
- Provide occupational medicine, laundry and other essential site-wide services
- Provide safeguards and security
- Maintain infrastructure

Groundwater Base Operations

- Contain key contaminants and treat contaminated groundwater
- Maintain RCRA compliance
- Implement RCRA groundwater monitoring requirements

Retrieve, Treat, and Enable Shipping of Transuranic Waste to WIPP

- Retrieve and treat "contact-handled" TRU waste
- Retrieve and treat "remote-handled" TRU waste
- Develop and implement new TRU waste disposition capabilities
- Certify and ship TRU waste to WIPP
- Treat K Basin sludge

Continue Cleanup of the Central Plateau

- Complete waste site characterization and treatability tests
- Complete RI/FS and obtain RODs
- Remediate waste sites
- Demolish facilities
- Conduct RCRA TSD closures

Initiate Canyon Disposition

- Conduct demolition preparation and hazard reduction
- Complete canyon characterization (B Plant, PUREX, REDOX)
- Complete above grade demolition of U Plant canyon, remediate adjacent waste sites and install protective barrier

Restore Hanford Land for Access and Use

- Manage and operate the Manhattan Project National Historical Park in partnership with the National Park Service
- Increase controlled Tribal and public access and use
- Protect cultural resources and restore natural resources
- Work closely with our partners to enable reuse of Hanford land consistent with the Comprehensive Land-Use Plan



Continue Cleanup of the Central Plateau

- Plutonium Finishing Plant (PFP)
 - Completed last glove box (HA-9A)
 - Re-sequenced high-hazard work at PFP to focus on one project at a time using “Level B” suits
 - Grouted Plutonium Reclamation Facility canyon floor, began decontaminating walls



Glove box HA-9A before (left) and after (right)

Vacuuming “strongbacks” (left) and painting canyon floor (right)



K Basin Sludge Transfer

- All production equipment installed for testing at Maintenance and Storage Facility (MASF); cold commissioning started
- Installed lids in K West Reactor Basin to support sludge removal



100 K West Reactor Basin workers positioning a new lid for placement on an engineered container that holds sludge stored underwater in the basin



First production sludge transport and storage container arriving at MASF



Complete Remaining River Corridor Cleanup

- 618-10 Burial Ground
 - Continuing augering of vertical pipe units (VPUs)
 - Began removing augered material in March
 - Continuing drum processing and disposal
- Completed remediation and re-vegetation campaign in 100 Areas



Augering VPUs at the 618-10 Burial Ground



H Reactor Area



D and DR Reactor Area



Complete Remaining River Corridor Cleanup

- Transitioning work from Washington Closure Hanford to CH2M Plateau Remediation Company
 - 324 Building and 300-296 (waste site beneath the building)
 - 618-10 and 618-11 Burial Grounds
 - Environmental Restoration Disposal Facility



618-10 Burial Ground



Environmental Restoration Disposal Facility on Hanford's Central Plateau



Infrastructure and Facility Base Operations

- High-voltage distribution line supporting Tank Farms
- 230kV North Loop high-voltage electrical transmission system
- Site road repair and maintenance



*Double circuit (Expressway Poles & Vaults)
13.8kV Distribution*



North Loop tower and 230kV line



*Excavation to support electrical
distribution system*



*New Electrical Distribution System
Road Crossing*



Groundwater Base Operations

- Started treating of perched water near B, BX, BY Tank Farms at 200 West Pump-and-Treat Facility
- Started drilling groundwater monitoring wells at 200-UP-1 Operable Unit (southern portion of 200 West Area) to support characterization of chromium contamination
- Anticipating report on Stage A uranium sequestration installation in 300 Area (May)



Monitoring well drilling in Hanford's 200 Area



Workers receiving first batch of perched water at 200 West Pump-and-Treat Facility



Restore Hanford Land for Access and Use

Hanford Site Public Cleanup Tours

- Added 10 more tours due to demand during registration
- 25 tours scheduled May 3 – Sept. 8
- Stops include HAMMER Training Center, Plutonium Finishing Plant, Environmental Restoration and Disposal Facility, Waste Treatment Plant
- Register online at:
www.Hanford.gov/page.cfm/HanfordSiteTours





Restore Hanford Land for Access and Use



Manhattan Project National Historical Park Tours

- Tour season expanded to run from April 18 through November 19, Monday through Saturday
- National Park Service (NPS) provided training to local tour presenters
- Two tours available through NPS:
 - B Reactor National Historic Landmark
 - Pre-War Historic Sites
- Both tours open to people of all ages and from all countries; cameras welcome
- Bring your NPS passport and get your Manhattan Project park stamp!



Tri-Party Agreement Milestones

- Proposed changes to Central Plateau cleanup milestones
 - Comments received from eight stakeholder groups and the general public
 - Comments were evaluated and binned into approximately 13 categories
 - Comments ranged from milestone extensions and prioritization of milestones, to aggressive funding and public involvement opportunities
 - Comments and the Response-to-Comment document will be available in the Administrative Record once complete