



Richland Operations Office Agency Update *Hanford Advisory Board*

Stacy Charboneau, Manager
November 2015

RICHLAND
OPERATIONS OFFICE
United States Department of Energy



The 2015 Vision

Hanford Site Cleanup

Safe and Effective Cleanup that Protects the Columbia River

- > Reduces the Active Site Footprint of Cleanup to 75 Square Miles (586 → 75)
- > Significantly Reduces Long-Term Mortgage Costs
- > At Completion, Shifts Emphasis and Resources to Full Scale Cleanup of the Central Plateau (75 square miles)
- > Reduces Costs by "Right Sizing" Hanford's Infrastructure via a Mission Support Contract
- > Minimizes Injury to Natural Resources

Richland Operations Office

B & C Area

- ✓ Interim Safe Storage of C Reactor Complete
- ✓ B Reactor Designated as a Museum or Interim Safe Storage Complete
- ✓ All B & C Area Final ROD Remedial Actions Complete
- ✓ All B & C Area Groundwater Remedies Implemented
- ✓ 6 Facilities Demolished

N Area

- ✓ Interim Safe Storage of N Reactor Complete
- ✓ All N Area Final ROD Remedial Actions Complete and TSD Units Closed
- ✓ All N Area Groundwater Remedies Implemented
- ✓ 108 Facilities Demolished
- ✓ 61 Waste Sites Remediated
- ✓ ~157,000 Tons of Soil Removed

D & H Area

- ✓ Interim Safe Storage of D, DR, and H Reactors Complete
- ✓ All D & H Area Final ROD Remedial Actions Complete
- ✓ All D & H Area Groundwater Remedies Implemented
- ✓ 16 Facilities Demolished
- ✓ 56 Waste Sites Remediated

JOB WELL DONE!

All K Area Groundwater Remedies Implemented

- ✓ 2300 Tons of Scrap Nuclear Fuel Removed
- ✓ 109 Facilities Demolished
- ✓ 2 Waste Sites Remediated
- ✓ ~361,000 Tons of Soil Removed

Central Plateau

Central Plateau Cleanup

- ✓ All 200 West Carbon Tetrachloride, Uranium and Technetium 99 Groundwater Remedies Implemented
- ✓ Conduct Additional Cleanup as Funds Become Available

Plutonium Finishing Plant Complex

- ✓ All Special Nuclear Material Shipped Off-site
- ✓ Slightly Irradiated Fuel Shipped to the Canister Storage Building for Safe Guarding
- ✓ PFP Complex Reduced to Slab on Grade
- ✓ 18 Facilities Demolished

400 Area

- ✓ Fast Flux Test Facility in Surveillance and Maintenance

300 Area

- ✓ All 300 Area Final ROD Remedial Actions Complete and TSD Units Closed
- ✓ All 300 Area Groundwater Remedies Implemented
- ✓ 186 Facilities Demolished
- ✓ 95 Waste Sites Remediated
- ✓ ~923,000 Tons of Soil Removed
- ✓ Final Remediation of 61S-10 & 61S-11 Burial Grounds Complete

IU = Isolated Unit
 ROD = Record of Decision
 TSD = Treatment, Storage, Disposal

* Does not reflect all work



River Corridor Highlights



Above: Entry into H Reactor in April 2015 for a five-year inspection



Above: Workers excavated 35 feet in some areas of the 618-10 burial ground to remove drums and contaminated soil. The burial ground is expected to contain about 1,700 drums.

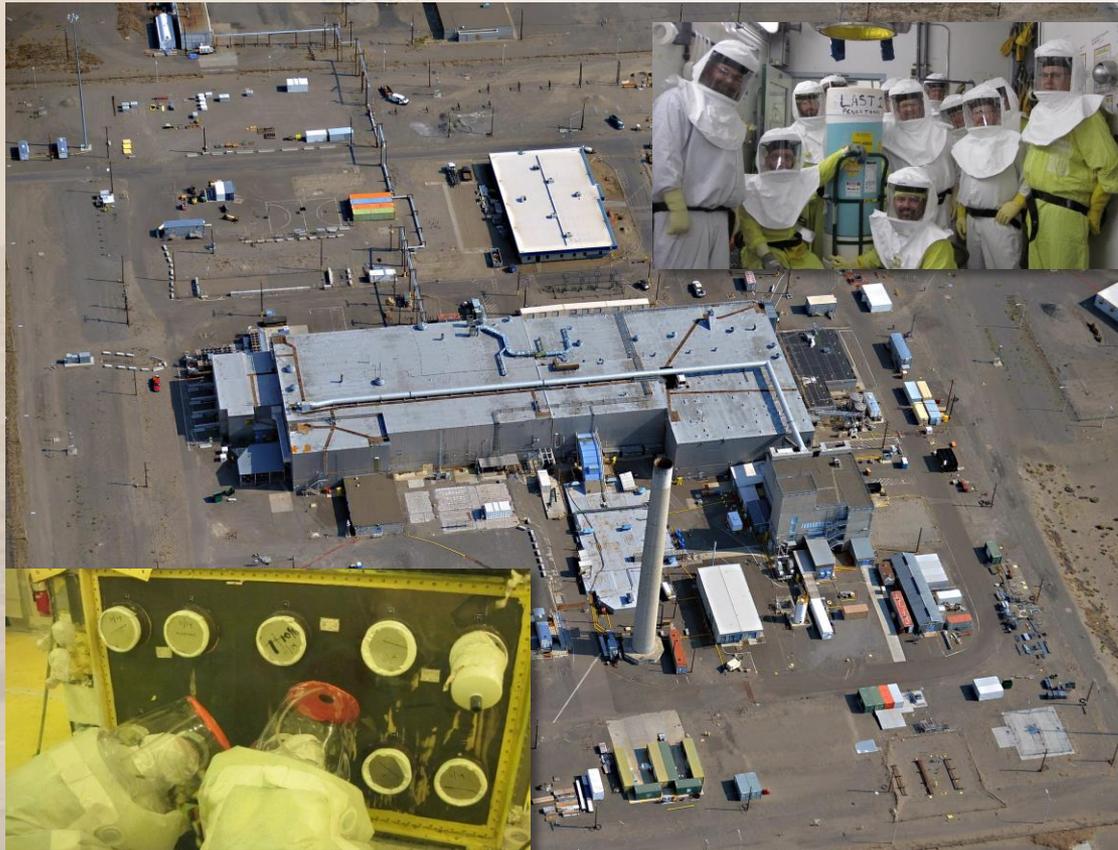


Left: Exterior of annex that will house equipment for transferring sludge from engineered containers in the K West Basin into transport containers (for transport to T Plant)



Above: Workers are using augering equipment to grind up vertical pipe units and waste inside steel casings that were driven around the waste pipe units.

Central Plateau Highlights



Aerial of Plutonium Finishing Plant (above); cleanup work to remove highly contaminated equipment from the “McCluskey Room” in the plant’s Americium Recovery Facility (bottom left), and pencil-shaped tanks (top right).



DOE exceeded the goal to treat 2.1 (2.4) billion gallons of contaminated groundwater six weeks early.



Uranium treatment capability was added at the 200 West Pump and Treat facility.



Budget Funding Profile

Richland Operations Office FY 2015 Appropriation and FY 2016 President's Budget

- Continuing Resolution until Dec. 11
- House and Senate Markups

PBS	PBS Title	FY 2014 Omnibus (Enacted)	FY 2015 President's Budget	FY 2015 Omnibus Allocation	FY 2016 President's Budget
RL-0011	NM Stabilization and Disposition - PFP	142,670	168,228	137,130	148,661
RL-0012	SNF Stabilization and Disposition	98,369	76,777	67,746	81,192
RL-0012	15-D-401 Containerized Sludge Line Item		26,290	46,055	77,016
RL-0013	Solid Waste Stabilization and Disposition		112,371	107,651	150,691
RL-0030	Soil and Water Remediation - 200 Area		116,916	184,929	174,619
Subtotal	Central Plateau Remediation		500,582	543,511	632,179
RL-0040	Nuclear Facility D&D - Remainder of Hanford	130,126	65,922	65,922	88,874
RL-0041	Nuclear Facility D&D - River Corridor Closure Project	141,500	266,866	311,866	108,083
Subtotal	River Corridor and Other Cleanup Operations	512,665	332,788	377,788	196,957
RL-0020	Safeguards and Security	70,992			
RL-0042	Nuclear Facility D&D - Fast Flux Test Facility Project	337,642	63,668	63,668	67,601
RL-0100	Richland Community and Regulatory Support	408,634	2,562	2,562	2,562
RL-TD-0100	Technology Development	69,078	14,701	19,701	14,701
Total - RL	Richland Field Office Funding Summary	1,012,620	914,301	1,007,230	914,000



Tri-Party Agreement Milestones

- Sludge and K Area Milestones
- M-91 Milestones: Milestones for transuranic waste retrieval, repackaging
 - Proposed changes emphasize treating and repackaging waste already retrieved over retrieving more waste, for the next few years
- Agencies have issued proposed changes to milestones for (non-tank) Central Plateau cleanup milestones to public for comment from Oct. 26 to Dec. 11
 - Proposed changes to numerous milestones for decision documents, non-tank cleanup, canyon cleanup
 - Regional public meetings: Nov. 17 in Seattle, Nov. 18 in Portland, and Nov. 19 in Hood River

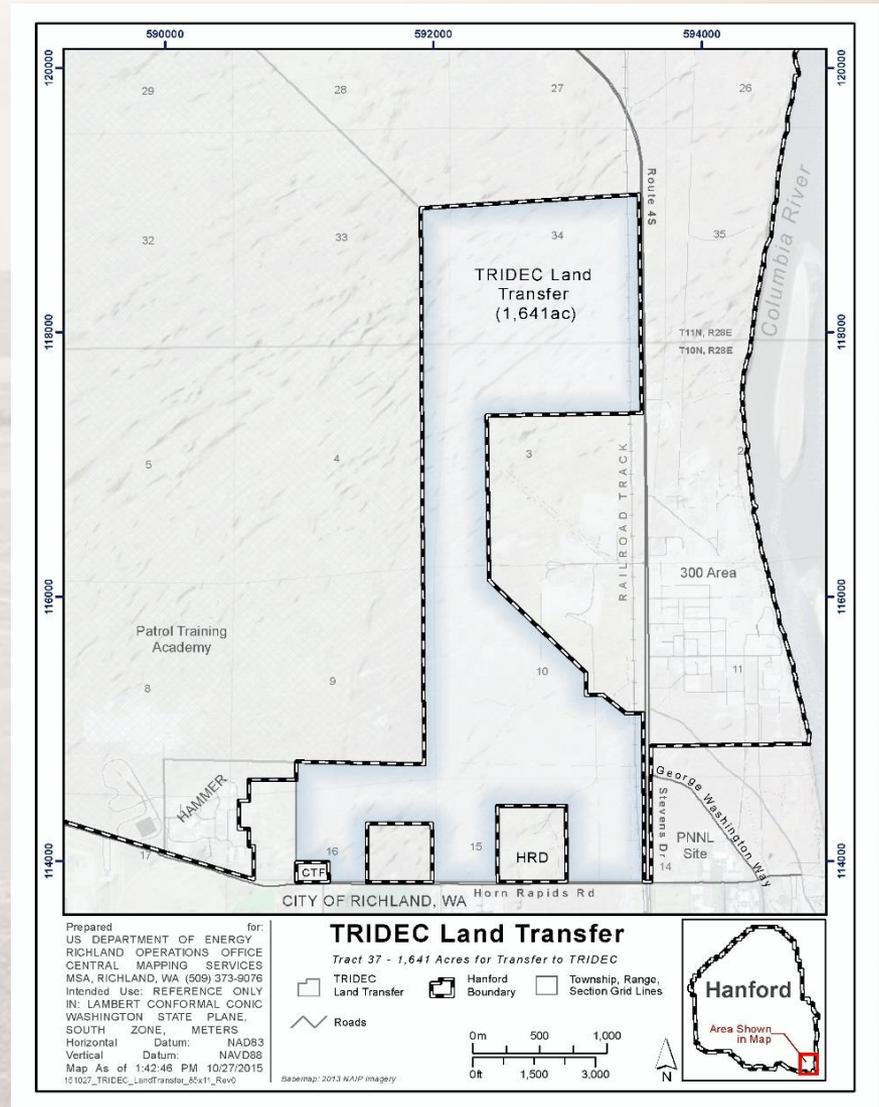


Land Conveyance

Land transferred to Community Reuse Organization on Sept. 30, 2015.



DOE's Boyd Hathaway and Gary Petersen sign deed





Manhattan Project National Historical Park



NNSA Administrator Frank Klotz explains his organization's role in the Park at the NPS open house held in Richland



White Bluffs Bank

- DOE and National Park Service (NPS) on track for signing a Memorandum of Agreement for joint management of the new park
- DOE will continue ownership of park facilities and will focus on preservation and safe public access
- NPS will interpret the Manhattan Project story for the public and run visitor services



B Reactor



White Bluffs bank vault



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



Clean Up Nuclear facilities and waste sites



Protect Groundwater and the Columbia River



Provide Infrastructure to support Hanford Cleanup



Restore Lands for access and use

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 M-91 TPA milestone waste disposition capability
- 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



Return Hanford Land to Beneficial Uses

- 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



Planning for Future Richland Operations Contracts

- Multiple contracts for cleanup and infrastructure will expire in 2018 and 2019
- The Office of Hanford Acquisitions was created to develop the next set of contracts
- Gathering input on ideas for future contracts through meetings with interested parties
- Holding an industry day and site tours for interested companies in Nov. 17 – 20



Hanford Visits



Dr. Monica Regalbuto, Assistant Secretary for Environmental Management visits the Hanford Advisory Board

- Dr. Elizabeth Sherwood-Randall, Deputy Secretary of Energy
- Dr. Monica Regalbuto, Assistant Secretary for EM
- John MacWilliams, Associate Deputy Secretary of Energy, and Paul Bosco, DOE Director of Project Management Oversight and Assessment
- HAB members



Members of the HAB's River and Plateau Committee visit the K West Basin Annex



Public Information Activities

Updated Website!

www.hanford.gov

Social Media

“Hanford Site” on
Facebook, Twitter or
YouTube

We'll come to you!

Book a speaker

