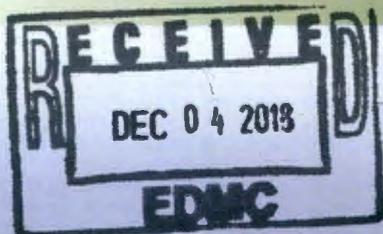


Richland Operations Office Briefing for EPA and Ecology

**FY 2018 Year End
FY 2019 Appropriations**



Bill Hamel and Mark Coronado, Richland Operations Office

Nov. 14, 2018

1250714
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Hanford Cleanup Overview

Three components

- Tank Waste
- Central Plateau
- River Corridor



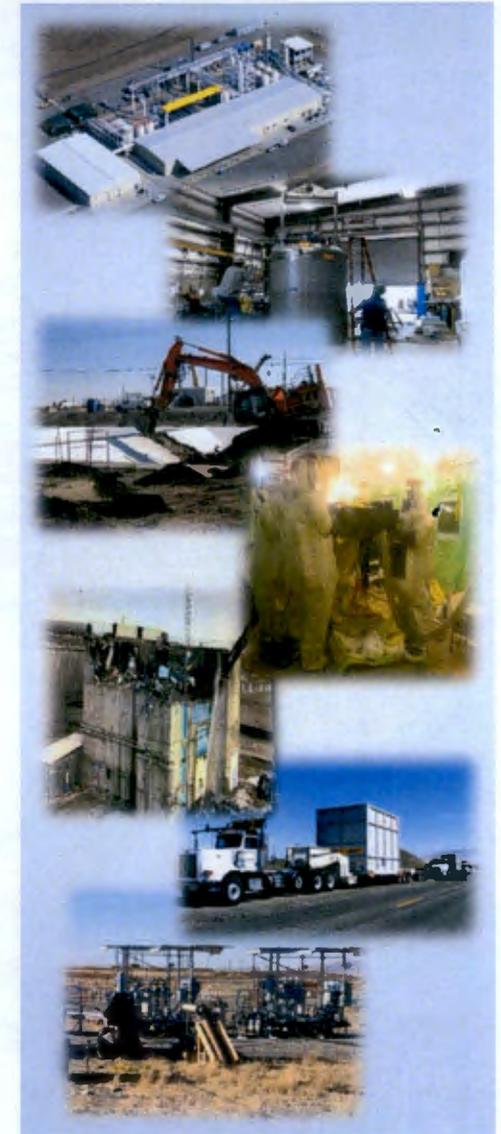
Cleanup work

- Retrieve waste from underground tanks
- Treat waste for safe disposal
- Treat contaminated groundwater
- Demolish facilities
- Remove buried waste and contaminated soil from near Columbia River for safe disposal away from river



Major Cleanup Activities

- Maintain safe, secure, and compliant activities, facilities and operations
- Continue stabilization and demolition of Plutonium Finishing Plant (PFP)
- Continue groundwater pump-and-treat operations and implement additional groundwater remedies
- Continue River Corridor cleanup
- Continue design for transferring cesium and strontium (Cs/Sr) capsules to dry storage
- Support repackaging of large transuranic containers and waste drums
- Continue to maintain and upgrade Hanford Site infrastructure
- Complete Plutonium Uranium Extraction Plant (PUREX) Tunnel 2 stabilization
- Continue aging facility risk mitigation activities



Richland Prime Contracts

Plateau Remediation Contract **PRC**



Facility and waste site cleanup, groundwater remediation, waste management

Awarded in 2008 for five years, with one 5-year option period

Total Contract Value: \$5.8 billion

Cost-plus award-fee contract

Contract extended for one additional year through Sept. 30, 2019

Mission Support Contract **MSC**



Infrastructure and site services to support the cleanup mission

Awarded in 2009 for five years with two- and three-year option years

Total Contract Value: \$3.8 billion

Cost-plus award-fee contract

HPM Corporation provides occupational medical services to DOE and Hanford contractors.

Awarded in 2012 for two years with four one-year option periods, a hybrid contract that includes firm-fixed price with award fee, cost reimbursement, and indefinite delivery indefinite quantity components.

Total Contract Value: \$103.8 million. Contract period extended through Dec. 31, 2018.

RL Profile by Congressional Control Point

(\$ in Thousands)

PBS	PBS Title	FY 2018 Omnibus	FY 2019 Minibus
RL-0011	Nuclear Material Stabilization and Disposition - PFP	26,067	46,200
RL-0012	Spent Nuclear Fuel Stabilization and Disposition	42,610	13,900
RL-0013C	Solid Waste Stabilization and Disposition - 200 Area	145,006	159,900
RL-0030	Soil and Water Remediation - Groundwater/Vadose Zone	132,363	132,158
RL-0201	Hanford Site Wide Services*	316,833	308,200
Central Plateau Remediation		662,879	660,358
RL-0040	Nuclear Facility D&D - Remainder of Hanford**	68,042	89,792
RL-0041	Nuclear Facility D&D - River Corridor Closure Project***	115,650	103,900
River Corridor and Other Cleanup Operations		183,692	193,692
RL-0013C	18-D-404 WESF Modifications and Capsule Storage	6,500	1,000
RL-0020	Safeguards and Security	81,990	86,686
RL-0042	Nuclear Facility D&D - Fast Flux Test Facility Project	2,240	2,240
RL-0100	Richland Community and Regulatory Support	10,121	10,121
Total	Richland Field Office Funding Summary	947,422	954,097

D&D = Deactivation and Decommissioning, WESF = Waste Encapsulation Storage Facility

- * These costs were distributed among several PBSs before FY 2017
- ** HAMMER (RL-0040) costs transferred to RL-0201 in FY 2019
- *** B Reactor (RL-0041) costs transferred to RL-0201 in FY 2018

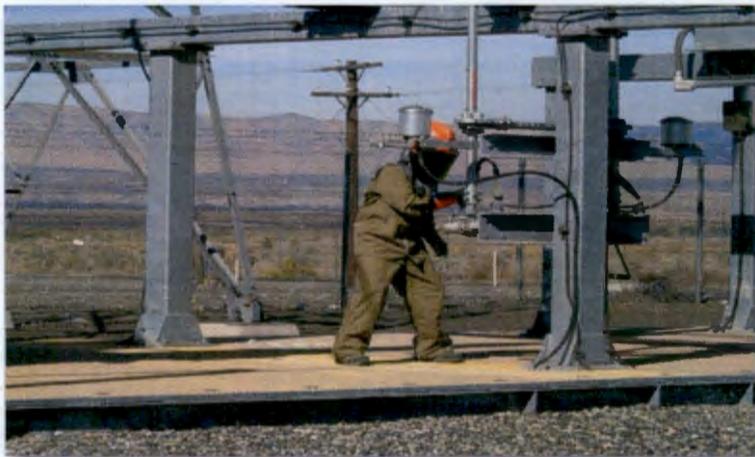
Safety and Health



- Stabilization of PFP site following 2017 spread of contamination
- Resumption of lower-risk demolition at PFP, implementing numerous safety improvements
- Voluntary Protection Program: Star status for all contractors
- PUREX Tunnel 2 stabilization underway
- Initiated Comprehensive Traffic Safety Initiative across Hanford Site

Site-wide Services

Prior to FY 2017, site-wide services were prorated across the Project Baseline Summaries (PBS). Starting in FY 2017, RL funded these services entirely from a dedicated PBS (RL-0201)



Provide site-wide services for day-to-day operations, to include general utilities and fire department

Reconfigure, Rejuvenate, & Right-size Mission Essential Hanford Infrastructure

Between FY18-FY21, projects and other investments are required to provide necessary infrastructure and support for Direct Feed Low Activity Waste (DFLAW) and reconfigure, right-size, and rejuvenate the site infrastructure

Water/Sewer

Roads

Special Vehicles

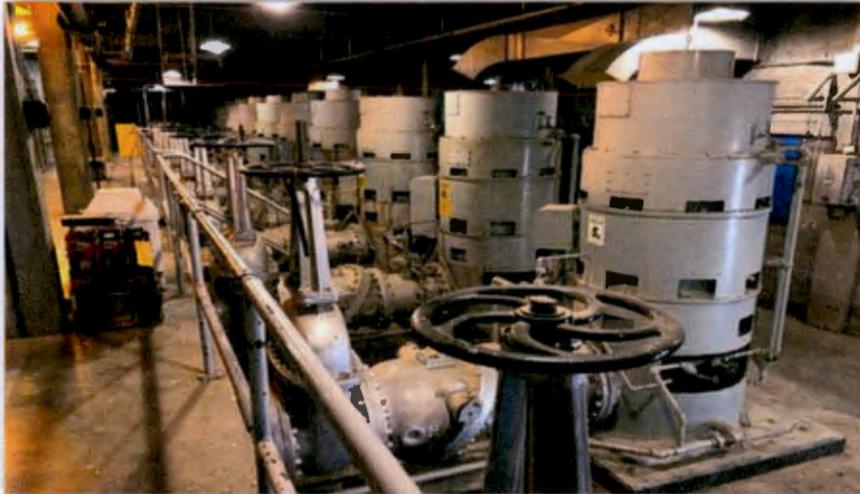
Electrical

Fleet Facilities

IT Systems



Infrastructure Specifics



Water Systems

- Over 100 miles of buried pipe
- Over 900 million gallons of water used annually

Electrical Utilities

- 200+ miles of transmission and distribution lines
- 6,000+ power poles

Emergency Services and Immobilization Systems

- Radio Fire Alarm Reporting is essential to safety and security of facilities and employee welfare

Information Technology

- Legacy applications to be updated
- Cybersecurity improvements

Roads

- Over 7,600 passenger vehicles (daily average)
- 350+ lane miles of roads
- 900 trips by heavy trucks (daily average)

RL Budget Overview

PROJECT WORK – RIVER CORRIDOR



U.S. DEPARTMENT OF
ENERGY

River Corridor – PBS RL-0012

Accomplishments in FY 2018

K West Reactor Basin Closure, PBS RL-0012

- Initiated sludge removal operations on June 12, 2018, and moved the first Sludge Transport and Storage Containers (STSC) to T Plant on June 25, 2018
- Completed transfer of four STSCs from K West Reactor Basin to T Plant
- Continued to operate and maintain K West Reactor Basin, a Category 2 nuclear facility, and associated structures in a safe and compliant manner, and support required surveillance and maintenance activities

Sludge Removal Project Line Item, PBS RL-0012

Completed the Sludge Removal Project and turned over to operations



Shipment of first STSC passing K West Reactor

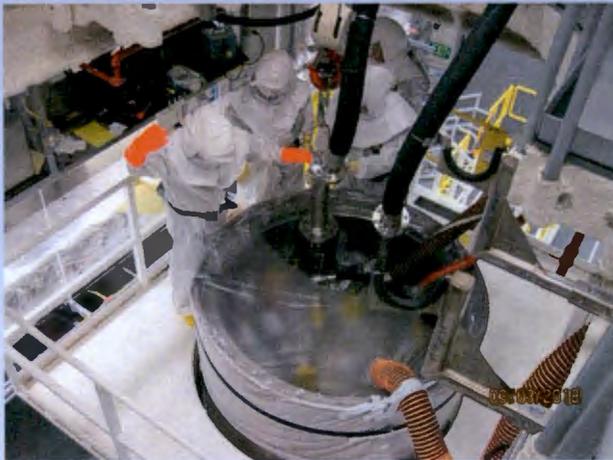
PBS	TPA Milestone	Title	Status	Due Date
RL-0012	M-016-176	Complete Sludge Removal from 105-KW Fuel Storage Basin	On Schedule	12/31/2019

River Corridor – PBS RL-0012

Planned Accomplishments in FY 2019

K West Reactor Basin Closure, PBS RL-0012

Complete removal of sludge from K West Reactor Basin



Disconnecting process lines following transfer / decant / final fill operations



Backing STSC trailer into K West Annex



Sludge removal operations in K West Basin

River Corridor – PBS RL-0041

Accomplishments in FY 2018

Nuclear Facility D&D – River Corridor Closure Project, PBS RL-0041

- Completed TPA Milestone M-016-00B (complete all 300 Area remedial actions, including the 618-10 burial ground but not the 618-11 burial ground, 300-296 waste site (under 324 building), and sites associated with retained 300 Area facilities and utility corridors)
- Completed installation of the through support for the first remote excavation arm in 324 Building
- Completed debris removal and cleanout from 324 Building C- and D-Cells
- Completed closure of four 100 K Area waste sites
- Completed 165-KE Power House asbestos abatement
- Completed integrated testing of the process equipment for the Garnet Filter Media Removal System (GFMRS) in support of the K West Basin deactivation; GFMRS will follow completion of sludge removal operations
- Continued to characterize the debris in K West Basin



618-10 Burial Ground



165-KE asbestos abatement



Installing the remote excavation arm support in 324 Building

River Corridor – PBS RL-0041 Milestones

PBS	TPA Milestone	Title	Status	Due Date
RL-0041	M-016-85A	Complete Remote Excavation of 300-296 Waste Site	At Risk	9/30/2019
RL-0041	M-016-178	Initiate Deactivation of 105-KW Fuel Storage Basin	On Schedule	12/31/2019
RL-0041	M-093-28	Submit Change Package for Proposed Interim Milestones for 105-KE/KW Reactor Interim Safe Storage	On Schedule	12/31/2019
RL-0041	M-016-85	Complete Remedial Actions for 300-296 and Disposition for 324 Bldg and Ancillary Bldgs	At Risk	9/30/2021
RL-0041	M-016-86	Complete Remedial Actions for 618-11 Burial Ground in accordance with DOE/RL-2014-13-ADD1	At Risk	9/30/2021
RL-0041	M-016-181	Complete Deactivation, Demolition & Removal of 105-KW FSB	On Schedule	9/30/2023
RL-0041	M-016-186	Initiate Soil Remediation Under 105-KW Fuel Storage Basin	On Schedule	12/31/2023
RL-0041	M-093-27	Complete 105-KE & 105-KW Reactor ISS in Accordance with Removal Action Work Plan	On Schedule	9/30/2024
RL-0041	M-016-00C	Complete All Response Actions In The 100 K Area	On Schedule	9/30/2024
RL-0041	M-016-143	Complete the Interim Response Actions for the 100K Area Phase 2	On Schedule	9/30/2024

River Corridor – PBS RL-0041

Planned Accomplishments in FY 2019

Nuclear Facility D&D – River Corridor Closure Project, PBS RL-0041

- Continue testing of soil removal equipment at 324 Building mock-up
- Complete debris removal and cleanout from 324 Building cells A and B
- Complete 324 Building micropile placement
- Complete 324 Building floor saw installation and initiate B-Cell floor scoring
- Continue 100 K Area waste site remediation
- Continue characterization of the debris in K West Basin in preparation for basin deactivation after sludge removal



Debris in the K West Basin



Micropile testing/demonstration



Integrated testing at the 324 Building mock-up

RL Budget Overview

PROJECT WORK – CENTRAL PLATEAU



Plutonium Finishing Plant – PBS RL-0011

Accomplishments in FY 2018

Plutonium Finishing Plant, PBS RL-0011

- Completed several assessments in order to resume demolition at PFP, including a DOE External Expert Panel review and an Independent Management Assessment with oversight by RL, DOE-HQ, DNFSB, Ecology, and WDOH
- Completed implementation of prestart corrective actions to lift the RL, CHPRC, and Ecology/EPA demolition stop work orders
- Expanded radiological boundaries to mitigate the risk of contamination releases
- Resumed lower risk debris size reduction and loadout activities in September 2018



PFP current status (September 2018)

PBS	TPA Milestone	Title	Status	Due Date
PBS-0011	M-083-00A	Complete PFP Facility Transition & Selected Disposition Activities	Missed	9/30/2017

Plutonium Finishing Plant – PBS RL-0011

Planned Accomplishments in FY 2019

Plutonium Finishing Plant, PBS RL-0011

- Complete demolition of main processing facility (234-5Z)
- Complete demolition of Plutonium Reclamation Facility (236-Z) wall stubs and debris loadout
- Sample/characterize 236-Z and 242-Z (American Recovery Facility/McCluskey Room) building slabs in preparation for removal
- Transition PFP site to surveillance and maintenance mode



PFP prior to the start of demolition



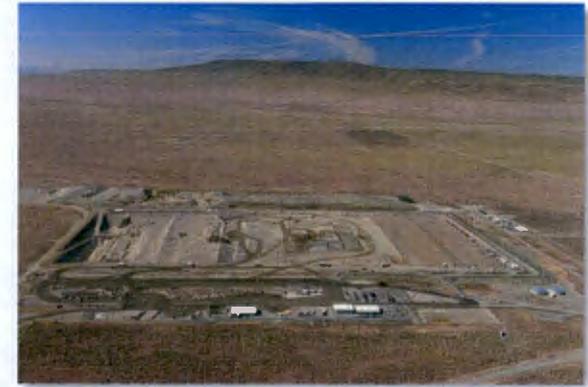
Demolition complete footprint

Solid and Liquid Waste Management – PBS RL-0013

Accomplishments in FY 2018

Solid Waste Stabilization and Disposition, PBS RL-0013

- Provided operations to support safe and compliant storage of special nuclear material and Cesium/Strontium capsules
- Completed final design report for Capsule Storage Area
- Began design of Waste Encapsulation Storage Facility (WESF) modifications needed to remove capsules from WESF
- Operated waste treatment and storage facilities (Central Waste Complex, solid waste operations, mixed waste disposal trenches, T Plant, ERDF, and WESF)
- Began upgrades to Integrated Disposal Facility to support ORP needs
- Continued to repackage drums of radioactive/hazardous waste and large boxes at Perma-Fix Northwest (completed 280 cubic meters for TPA Milestone M-091-47D and removed five outside waste boxes for M-091-52-T01)
- Received four sludge containers from K West Basin at T Plant



Environmental Restoration Disposal Facility (ERDF)



T Plant worker preparing the facility to receive radioactive sludge from K West Basin

Solid and Liquid Waste Management – PBS RL-0013 Milestones

PBS	Milestone	Title	Due	Status
RL-0013	M-016-173	Select K Basin Sludge Treatment/Packaging Technology and Propose new Milestones	9/30/2022	On Schedule
RL-0013	M-026-01A	Submit annual Hanford Land Disposal Restrictions Summary Report, Recurring	4/30/2019	On Schedule
RL-0013	M-026-01AD	Submit annual Hanford Land Disposal Restrictions Report, Recurring	4/30/2020	On Schedule
RL-0013	M-026-07D	Submit and evaluation of development status of tritium treatment technology, Recurring	3/31/2019	On Schedule
RL-0013	M-091-00	Complete Treatment to LDR Standards for All RCRA MLLW & TRUM Waste	TBD	On Schedule
RL-0013	M-091-03M	Submit Revision of TRUM Waste and MLLW PMP to Ecology, Recurring	6/30/2019	On Schedule
RL-0013	M-091-44T	Submit Change Package to Complete Disposition of CH TRUM & RH TRUM	9/30/2020	On Schedule
RL-0013	M-091-47D	Certify or Treat 280 Cubic Meters of TRUM/MLLW Waste	9/30/2018	In Abeyance
RL-0013	M-091-48	Complete the Offsite Shipment of All TRUM Waste	9/30/2030	On Schedule
RL-0013	M-091-49	Complete Retrieval and Designation of RH and CH RSW	9/30/2028	On Schedule
RL-0013	M-091-49A	Submit a Change Request to Establish a Schedule for Achieving the Retrieval of RSW	9/30/2020	On Schedule
RL-0013	M-091-52-T01B	Remove 10 Additional Mixed Waste Containers from Outside Storage Area A and/or B	11/30/2019	On Schedule
RL-0013	M-091-52-T01C	Remove 20 Additional Mixed Waste Containers from Outside Storage Area A and/or B	11/30/2020	On Schedule
RL-0013	M-091-52-T02	Submit to Ecology, an Interim Response Action to Resume Waste Retrieval	9/30/2021	On Schedule
RL-0013	M-091-52-T03	Submit to Ecology, a CDR for the Facility/Capability for Contact Handled Waste Containers	9/30/2022	On Schedule
RL-0013	M-091-52-T04	Remove All Mixed Waste Containers from Outside Storage Areas A and B	9/30/2026	On Schedule
RL-0013	M-091-53	Submit Milestone Change Request to Replace Target Dates for Capabilities to Process TRUM Waste	9/30/2018	In Abeyance
RL-0013	M-092-00	Acquire Facilities for Cs/Sr, & Na	12/31/2047	On Schedule
RL-0013	M-092-09	Submit to Ecology a Conceptual Design Report Package (30% Design) for the Sodium Reaction Facility	12/31/2026	On Schedule
RL-0013	M-092-09-T01	Submit to Ecology a Preliminary Design Report Package (60% Design) for the Sodium Reaction Facility	6/30/2028	On Schedule
RL-0013	M-092-09-T02	Submit to Ecology a Final Design Report (90%-100% Design) for the Sodium Reaction Facility	9/30/2029	On Schedule
RL-0013	M-092-20	Submit to Ecology a Disposition Pathways Evaluation for the Cesium and Strontium Capsules, Recurring	3/31/2022	On Schedule
RL-0013	M-092-21	Complete the Transfer of the Cesium and Strontium Capsules from WESF	8/31/2025	On Schedule
RL-0013	M-092-21-T01	Submit to Ecology a Conceptual Design Report Package (30% Design) to Dispose of Cs/Sr Capsules	12/30/2040	On Schedule
RL-0013	M-092-21-T02	Submit to Ecology a Preliminary Design Report Package (60% Design) to Dispose of Cs/Sr Capsules	6/30/2042	On Schedule
RL-0013	M-092-21-T03	Submit to Ecology a Final Design Report Package (90%-100% Design) to Dispose of Cs/Sr Capsules	9/30/2043	On Schedule

Solid and Liquid Waste Management – PBS RL-0013

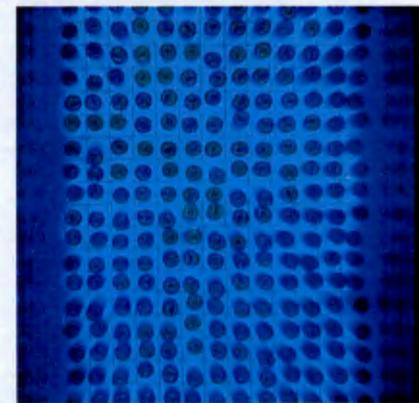
Planned Accomplishments in FY 2019

Solid Waste Stabilization and Disposition, PBS RL-0013

- Provide operations to support safe and compliant storage of special nuclear material and Cesium/Strontium (Cs/Sr) capsules
- Operate waste treatment and storage facilities (Central Waste Complex, solid waste operations, mixed waste disposal trenches, T Plant, ERDF, and WESF)
- Receive remaining sludge containers from K West Basin at T Plant
- Continue to repackage drums of radioactive/hazardous waste and large boxes at Perma-Fix Northwest and remove outside waste boxes
- Continue design work for transferring Cs/Sr capsules to dry storage
- Continue upgrade work for the Integrated Disposal Facility



Waste Encapsulation Storage Facility (WESF)



Cesium/strontium capsules in storage basin in Waste Encapsulation Storage Facility (WESF)

Groundwater – PBS RL-0030

Accomplishments in FY 2018

Soil and Groundwater Remediation, PBS RL-0030

- Continued integration of site-wide groundwater and vadose zone cleanup activities; groundwater contamination monitoring; and operations, maintenance and modifications of existing remediation systems
- Continued operation of River Corridor and Central Plateau pump-and-treat facilities with treatment of over 2.5 billion gallons of contaminated groundwater (removing uranium, carbon tetrachloride, nitrates, hexavalent chromium and technetium-99)
- Continued to meet well-drilling commitments in TPA Milestone M-024



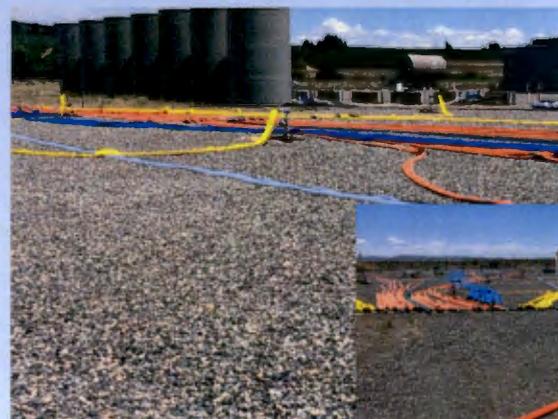
200 West Pump and Treat Facility

Groundwater – PBS RL-0030

Accomplishments in FY 2018

Soil and Groundwater Remediation, PBS RL-0030

- Continued progress towards obtaining records of decision (ROD) for River Corridor and Central Plateau
 - Obtained final ROD for D and H Reactor Areas
 - Completed characterization activities associated with deep vadose zone
 - Submitted the RCRA Facility Investigation / Corrective Measures Study and the Remedial Investigation / Feasibility Study Work Plan, Draft A for the waste sites located in the 200 East Area (200-EA-1) of the Central Plateau
- Reduced groundwater uranium plume in the southern portion of 200 East Area (200-BP-5) by 60 percent
- Completed polyphosphate injections for the final stage of the uranium sequestration effort in the 300 Area in support of the final ROD



300 Area Uranium Sequestration



Groundwater – PBS RL-0030 Milestones

PBS	TPA Milestone	Title	Status	Due Date
RL-0030	M-015-93C	Initiate Characterization Field Work for 200-SW-2 Operable Unit Landfills	In Dispute	9/30/2018
RL-0030	M-015-96	Submit 100-OL-1 RI Report and a CR to Establish a Date for the FS Report	On Schedule	2/28/2019
RL-0030	M-015-21A	Submit 200-BP-5 and 200-PO-1 OU FS Report & PP(s) for an Interim Action to Ecology	On Schedule	3/31/2019
RL-0030	M-24 series	Well Commitments - recurring annually	On Schedule	6/1/2018
RL-0030	M-015-98	Complete Remedial Investigation of U Plant Related Waste Sites Located in 200-WA-1	At Risk	6/30/2019
RL-0030	M-085-70	Submit to Ecology a Remedial Investigation/Feasibility Study Work Plan for 200-CB-1	At Risk	9/30/2019
RL-0030	M-015-99	Complete Remedial Investigation of PFP Related Waste Sites Located in 200-WA-1	At Risk	12/31/2019
RL-0030	M-085-80	Submit Remedial Investigation/Feasibility Study Work Plan for 200-CP-1 to Ecology	On Schedule	9/30/2020
RL-0030	M-015-112	Submit Draft B 200-IS-1 RFI/CMS/RI/FS Work Plan to Ecology with Schedule Dates	On Schedule	11/30/2020
RL-0030	M-085-90	Submit Remedial Investigation/Feasibility Study Work Plan for 200-CR-1 to EPA	On Schedule	9/30/2021
RL-0030	M-015-84	Complete RI of 200-WA-1 and 200-BC-1 Waste Sites in Accordance with RI/FS Work Plan	At Risk	12/31/2021
RL-0030	M-015-92B	Submit RCRA FI/CMS & RI/FS Report & PP for 200-EA-1 OU to Ecology	On Schedule	11/30/2022
RL-0030	M-015-93B	Submit RCRA FI/CMS & RI/FS Report & Proposed CA Decision/PP for 200-SW-2 OU	On Schedule	1/31/2023
RL-0030	M-015-92C	Submit RCRA FI/CMS and RI/FS Report and Proposed Corrective Action Decision/PP for 200-IS-1 to ECY	On Schedule	3/31/2023
RL-0030	M-015-91B	Submit FS Report & Proposed Plan for the 200-BC-1/200-WA-1 OU	At Risk	7/31/2023
RL-0030	M-015-38B	Submit a FS Report & PP for CW-1, CW-3 & OA-1 OUs to EPA	On Schedule	7/31/2023
RL-0030	M-015-110B	Submit CMS & FS & Proposed Plan/CA Decision for 200-DV-1 OU to Ecology	On Schedule	9/30/2023

Groundwater – PBS RL-0030

Planned Accomplishments in FY 2019

Soil and Groundwater Remediation, PBS RL-0030

- Continue integration of site-wide groundwater and vadose zone cleanup activities; groundwater contamination monitoring; and operations, maintenance and modifications of existing remediation systems
- Continue operation of River Corridor and Central Plateau pump-and-treat facilities for treatment of at least 1.8 billion gallons of contaminated groundwater (removing uranium, carbon tetrachloride, nitrates, hexavalent chromium and technetium-99)
- Continue to meet well-drilling commitments in TPA Milestone M-024



*Pump-and-treat
facilities in
100 Area near
Columbia River*



Groundwater – PBS RL-0030

Planned Accomplishments in FY 2019

Soil and Groundwater Remediation, PBS RL-0030

- Continue progress towards obtaining RODs for the River Corridor and Central Plateau
 - Continue development of the models to support the Cumulative Impact Evaluation
 - Submit Remedial Investigation / Feasibility Study Report, Draft B for groundwater in the 100-NR-2 Area
 - Initiate the 100 KW Area Soil Flushing
- Submit the 100 D and H Reactor Areas Remedial Design / Remedial Action Work Plan, Rev. 0
- Reduce groundwater chromium plumes in the 100-HR-3 Area by 10 percent
- Install a pipeline from the Modular Storage Units to the 200 West Pump and Treat Facility to support more efficient operations
- Obtain the ROD for the B and C Reactor Areas (100-BC-5)

Deactivation and Demolition – PBS RL-0040

Accomplishments in FY 2018

Nuclear Facility D&D for the Remainder of Hanford, PBS RL-0040

- Continued surveillance and maintenance activities to ensure safety for inactive waste sites and surplus facilities on Central Plateau
- Completed stabilization of PUREX Tunnel 1 with engineered grout
- Replaced PUREX stack monitoring system
- Initiated stabilization of PUREX Tunnel 2 with engineered grout
- Continued canyon facility risk mitigation activities
 - Continued cleanout of Reduction-Oxidation (REDOX) facility north sample gallery and silo
 - Continued development of required CERCLA documentation



Onsite grout batch plant supporting of PUREX Tunnel 2 stabilization



Placement of the last grout insertion device for PUREX Tunnel 2



222 B during demolition

Deactivation and Demolition – PBS RL-0040 Milestones

PBS	TPA Milestone	Title	Status	Due Date
RL-0040	M-016-255	Complete Removal of All Waste Sites for FY18	In Dispute	9/30/2018
RL-0040	M-016-250D	Submit to ECY a 3-year rolling prioritized schedule to implement waste site removal actions	On Schedule	3/30/2019
RL-0040	M-016-256	Complete Removal of All Waste Sites for FY19	In Dispute	9/30/2019
RL-0040	M-037-10	Complete Closure for 6 Specified TSD Units	On Schedule	9/30/2020
RL-0040	M-085-72	Submit to Ecology a Removal Action Work Plan for 224-B (DOE/RL-2004-36)	On Schedule	9/30/2020
RL-0040	M-085-100	Submit Removal Action Work Plan for 224-T to EPA	On Schedule	9/30/2020
RL-0040	M-037-13	Complete Closure for the 241-CX Tank System	On Schedule	9/30/2022
RL-0040	M-016-200A	Complete U Plant Canyon (221 U Facility) Demolition	On Schedule	9/30/2024
RL-0040	M-037-11	Complete Closure Requirements for 216-B-3 & 216-S-10	On Schedule	9/30/2024
RL-0040	M-085-76	Initiate Response Actions for B Plant Remedial/Removal Action Work Plan	On Schedule	9/30/2025
RL-0040	M-085-84	Initiate Response Actions for PUREX in accordance with Schedule in Approved Remedial/RAWP	On Schedule	9/30/2025
RL-0040	M-085-01	Submit a change package to Establish a date for Major Milestones M-085-00	On Schedule	6/30/2026
RL-0040	M-016-200B	Complete U Plant (221 U Facility) Barrier Construction	On Schedule	9/30/2027
RL-0040	M-016-00	Complete remediation of all Non-tank farm Operable Units	On Schedule	9/30/2042

Deactivation and Demolition – PBS RL-0040

Planned Accomplishments in FY 2019

Nuclear Facility D&D for the Remainder of Hanford, PBS RL-0040

- Continue surveillance and maintenance activities to ensure safety for inactive waste sites and surplus facilities on Central Plateau
- Complete stabilization of PUREX Tunnel 2
- Continue canyon facility risk mitigation activities
 - Continue progress on REDOX cleanup, including cold and dark planning and ventilation modifications
 - Asbestos steam line removal in 200 West area
 - Risk reduction activities
 - Deactivate 242 B/BL, a high-risk structure near B Tank Farm

Fast Flux Test Facility – PBS RL-0042

Accomplishments in FY 2018

Nuclear Facility D&D Fast Flux Test Facility, PBS RL-0042

Supported long-term safe and compliant surveillance and maintenance for Fast Flux Test Facility and support facilities

Support is required until residual and bulk sodium is dispositioned and facility deactivation and decommissioning resumes

Planned Accomplishments in FY 2019

Nuclear Facility D&D Fast Flux Test Facility, PBS RL-0042

Continue to support long-term safe and compliant surveillance and maintenance for Fast Flux Test Facility and support facilities

Support is required until residual and bulk sodium is dispositioned and facility deactivation and decommissioning resumes

PBS	TPA Milestone	Title	Status	Due Date
RL-0042	M-092-09	Submit to Ecology a CDR Package (30% Design) for the Sodium Reaction Facility	On Schedule	12/31/2026



Fast Flux Test Facility in Hanford's 400 Area

Safeguards and Security – RL-0020

Safeguards and security (SAS) programs serve both RL and ORP with protection program management, physical security, information protection, protective force, personnel security, cybersecurity, and nuclear material control and accountability

Accomplishments in FY 2018

Safeguards and Security, PBS RL-0020

- Launched initiatives to eliminate or reduce several previously identified cybersecurity vulnerabilities, and respond to pop-up Department of Homeland Security binding operational directives
- Indexed Hanford Site industrial control systems to address emerging threats as part of a long-term plan to reduce risk
- Maintained appropriate and compliant SAS programs, including protection program management, physical security, information protection, protective force, personnel security, cybersecurity, and nuclear materials control and accountability for RL and ORP

Planned Accomplishments in FY 2019

Safeguards and Security, PBS RL-0020

- Maintain appropriate and compliant SAS programs at the Hanford Site to meet protection requirements based on approved vulnerability and risk assessments, including protection of Category 1 special nuclear material
- Bolster the Hanford network security posture by addressing known critical capability gaps, and continue modernization of the cybersecurity program elements to defend against increasingly adaptive threats

Hanford Site Support – PBS RL-0100

Accomplishments in FY 2018 and Planned Accomplishments in FY 2019

Community and Regulatory Support, PBS RL-0100

- Support Washington and Oregon emergency preparedness programs, Washington State Department of Health oversight, and other activities related to Hanford cleanup
- Support payment in lieu of taxes for Benton, Franklin and Grant Counties, and support the Hanford Advisory Board

Site-wide Services – PBS RL-0201

FY 2018 and FY 2019 Planned Accomplishments

- Provide site-wide services for day-to-day operations and cleanup support
- Fund RL-direct services, including site integration, tribal commitments and emergency preparedness
- Support infrastructure upgrades and site maintenance



River Corridor Remaining Work Scope

