



THE HANFORD SITE

Budget Overview for Fiscal Year 2023

Tri-Party Agreement Commitment 149.F

March 8, 2023

- U.S. Department of Energy (DOE) fiscal year (FY) 2023 enacted/planned work
 - DOE Office of River Protection
 - DOE Richland Operations Office
- Questions



- Risk reduction objectives in major site areas:
 - Tank waste treatment
 - Central Plateau and River Corridor Risk Reduction
 - Infrastructure

- Deliver safe and secure operations
- Manage, treat, and disposition tank waste
- Stabilize aging structures
- Demolish retired facilities
- Remediate waste sites
- Treat contaminated groundwater
- Manage infrastructure to support the cleanup mission

Office of River Protection Budget Profile

(\$ in Thousands)

PBS	PBS Title	FY 2023 Enacted
ORP-0014	Radioactive Liquid Tank Waste Stabilization and Disposition	851,100
ORP-0014A	Low-Level Waste Offsite Disposal	0
ORP-0014	23-D-403 200 West Area Tank Farms Risk Management Project	4,408
Tank Farms		855,508
ORP-0060	Low-Activity Waste (LAW) Facility, Balance of Facilities and Laboratory/Direct-Feed LAW	412,700
ORP-0060	High-Level Waste Facility	392,200
ORP-0060	Pretreatment Facility	20,000
Waste Treatment and Immobilization Plant (WTP)		824,900
ORP-0070	WTP Commissioning	50,000
Total	Office of River Protection Funding Summary	1,730,408

Office of River Protection (\$1,730 million)

- Direct-Feed Low-Activity Waste (DFLAW)
 - Perform Melter 1 and 2 heatup
 - Continue Tank-Side Cesium Removal operations
 - Complete Effluent Treatment Facility (ETF) upgrades
 - Completed construction of the Liquid Effluent Retention Facility (LERF) Basin 41
- High-Level Waste Facility
 - Continue 60% and 90% design reviews on process and utility systems
 - Award equipment procurements to support design completion and construction
 - Initiate low risk of rework construction to support High-Level Waste Facility

Office of River Protection (\$1,730 million) (Cont.)

- Tank Farms
 - Initiated Tank AX-101 retrieval
 - Complete A Tank Farm retrieval preparations
 - Continue tank integrity program activities
 - Perform vadose zone direct-push characterization for Waste Management Area A/AX
 - Obtain permit and perform 2,000-gallon test bed initiative demonstration
 - Complete installation of the 241-U Tank Farm interim surface barrier
 - Complete the 222-S Laboratory office

Office of River Protection

Enforceable Tri-Party Agreement

Milestones FY 2023 Status

PBS Risk	Milestone Number	Title	Due Date	Status
ORP-0014	M-045-92Y	Complete Construction of Barrier 3 in 241-TX Farm	10/31/2022	Completed
ORP-0014	M-045-92AF	Submit Yearly Reports Summarizing the Results of Maintenance and Performance Monitoring Activities	10/31/2022	Completed
ORP-0014	M-062-40I	Select a Minimum of 3 Scenarios	12/31/2022	Completed
ORP-0014	M-062-54B	Achieve Substantial Completion of LAW Pretreatment Capability Construction for DFLAW Initial Ops	12/31/2022	Completed
ORP-0014	M-062-01AT	Submit Semi-Annual Project Compliance Report to Ecology	01/31/2023	Completed
ORP-0014	M-062-51	Achieve Substantial Completion of LERF/ETF Construction Upgrades Necessary for LAW Hot Commissioning	04/15/2023	On Schedule
ORP-0060	M-062-54	Low Activity Waste Pretreatment Capability; Cold Commissioning Complete	04/30/2023	Completed
ORP-0014	M-062-52	Achieve Substantial Completion of Secondary Waste Construction Necessary for LAW Hot Commissioning	06/30/2023	On Schedule
ORP-0014	M-045-56S	Ecology and DOE Agree, at a Minimum, to Meet Yearly (by July 2023)	07/31/2023	On Schedule
ORP-0014	M-062-01AU	Submit Semi-Annual Project Compliance Report to Ecology	07/31/2023	On Schedule

Office of River Protection

Tri-Party Agreement Milestones

FY 2023 Status (cont.)

PBS Risk	Milestone Number	Title	Due Date	Status
ORP-0014	M-062-53	Effluent Management Facility (EMF) Cold Commissioning Start	08/15/2023	On Schedule
ORP-0014	M-062-55	LAWP Capability Necessary to Feed DFLAW; Hot Commissioning Complete	08/15/2023	Completed
ORP-0014	M-062-21	Annually Submit Data Which Demonstrates Operation of WTP at a Rate Sufficient to Meet M-062-00	08/31/2023	At Risk
ORP-0014	M-045-86L	Submit Retrieval Data Report (RDR) to Ecology for Tank AX-104	09/29/2023	On Schedule
ORP-0014	M-045-91E5	Provide Single-Shell Tank Farms Dome Deflection Surveys Every 2 Years to Ecology	09/30/2023	On Schedule
ORP-0014	M-045-91K	Complete Initial Baseline Visual Inspections of All SSTs	09/30/2023	Completed

Discussions regarding these milestones have been ongoing in mediated, confidential holistic negotiations between DOE, the state of Washington, and the U.S. Environmental Protection Agency.

Richland Operations Office Budget Profile

(\$ in Thousands)

PBS	PBS Title	FY 2023 Enacted
RL-0013C	Solid Waste Stabilization and Disposition	183,600
RL-0030	Soil and Water Remediation – Groundwater / Vadose Zone	152,700
RL-0201	Hanford Sitewide Services	358,771
Central Plateau Remediation		695,071
RL-0040	Nuclear Facility D&D – Reminder of Hanford	107,606
RL-0041	Nuclear Facility D&D – River Corridor Closure Project	171,479
River Corridor and Other Cleanup Operations		279,085
RL-0013C	18-D-404 Waste Encapsulation and Storage Facility Modifications and Capsule Storage	3,100
RL-0201	22-D-401 400 Area Fire Station	3,100
RL-0201	22-D-402 200 Area Water Treatment Facility	8,900
RL-0201	23-D-404 181D Export Water System Reconfiguration and Upgrade	6,770
RL-0201	23-D-405 181B Export Water System Reconfiguration and Upgrade	480
RL-0020	Safeguards and Security	103,950
RL-0042	Nuclear Facility D&D – Fast Flux Test Facility	3,200
RL-0100	Richland Community and Regulatory Support	10,013
Total	Richland Operations Office Funding Summary	1,113,669

Richland Operations Office (\$1,114 million)

- Readiness of Integrated Disposal Facility to support DFLAW operations
- Complete construction of K East Reactor safe secure enclosure
- Stabilize high-dose debris in K West vertical pipe casings
- Treat 2.2 billion gallons of groundwater
- Complete Waste Encapsulation and Storage Facility modifications to support capsule dry storage
- Continue canyon risk mitigation activities (Plutonium Uranium Extraction/Reduction-Oxidation Plant)
- Repackage mixed low-level / transuranic waste at Perma-Fix Northwest

Richland (\$1,114 million) (Cont.)

- Complete well drilling in support of the M-024 Milestone series
- Continue River Corridor decision documentation
- Begin implementation of the 200-BP-5/PO-1 Interim Record of Decision
- Continue Central Plateau source area decision documentation (200-IA-1, 200-EA-1, and 200-WA-1)
- Continue support Hanford Sitewide Services
- Complete design for the 181B/181D export water system upgrade
- Continue construction of Central Plateau Water Treatment Facility

Richland Operations Office Enforceable Tri-Party Agreement Milestones FY 2023 Status

PBS	Milestone Number	Title	Due Date	Status
RL-0030	M-015-92B	Submit RFI/CMS & RI/FS Report & PCAD/PP for 200-EA-1 OU to Ecology	11/30/2022	In Abeyance
RL-0013C	M-091-53B	Remove 10 Additional Mixed Waste Containers from OSA A and/or OSA B	11/30/2022	Completed
RL-0030	M-024-73	Complete the Construction of All Wells Listed for Calendar Year 2022 and Before	12/31/2022	Completed
RL-0030	M-015-93B	Submit RCRA FI/CMS & RI/FS Report & Proposed CA Decision/PP for 200-SW-2 OU	01/31/2023	In Abeyance
RL-0013C	M-026-01AF	Submit Hanford Land Disposal Restrictions Summary Report (for 2020)	01/31/2023	On Schedule
RL-0030	M-015-92C	Submit RFI/CMS and RI/FS Report and PCAD/PP for 200-IS-1 OU to Ecology	03/31/2023	In Abeyance
RL-0013C	M-026-01AF	Submit Hanford Land Disposal Restrictions Summary Report (for 2021)	04/30/2023	On Schedule
RL-0030	M-024-58P	Initiate Discussions of Well Commitments	06/01/2023	On Schedule
RL-0013C	M-091-03Q	Submit Revision of Transuranic Mixed Waste and Mixed Low-Level Waste PMP to Ecology	06/30/2023	On Schedule
RL-0030	M-015-38B	Submit a FS Report & PP for 200-CW-1, 200-CW-3 & 200-OA-1 OUs to EPA	07/31/2023	In Abeyance
RL-0030	M-015-91B	Submit FS Report & Proposed Plan for the 200-BC-1/200-WA-1 OUs to EPA	07/31/2023	In Abeyance

Richland Operations Office Enforceable Tri-Party Agreement Milestones FY 2023 Status (cont.)

PBS	Milestone Number	Title	Due Date	Status
RL-0013C	M-026-01AG	Submit Hanford Land Disposal Restrictions Summary Report (for 2022)	08/31/2023	On Schedule
RL-0030	M-015-110B	Submit CMS & FS & Proposed Plan/CA Decision for 200-DV-1 OU to Ecology	09/30/2023	In Abeyance
RL-0041	M-016-181	Complete Deactivation, Demolition & Removal of 105-KW FSB	09/30/2023	At Risk ^a
RL-0013C	M-062-57	Integrated Disposal Facility (IDF) Operational	09/30/2023	On Schedule
RL-0040	M-085-84B	Complete Demolition of PUREX Ancillary Facilities 203A Building/Tank Yard and 205A Building	09/30/2023	On Schedule

^a Milestone under negotiation due to delayed sludge removal and COVID-19 impacts.

Questions?



ATTENDEES
Budget Overview for Fiscal Year 2023
**(TPA Commitment 149.F, Fiscal Year 2023 Congressional Budget
Appropriation Briefing to Regulators, C-149-09F)**

March 8, 2023

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