

Nuclear Facility Deactivation and Decommissioning (D&D), Remainder of Hanford (RL-0040); and River Corridor Closure Project (RL-0041)

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Uranium shipments to Mixed Waste Trenches

Overview

This section addresses Project Baseline Summary (PBS) RL-0040, *Nuclear Facility Deactivation and Decommissioning (D&D), Remainder of Hanford*. There are three major components to this work scope:

- Deactivation and Decommissioning (M. B. Lackey);
- Waste Site Remediation (M. B. Lackey); and
- Reliability Projects (M. M. Belles).

This section also includes PBS RL-0041, *Nuclear Facility D&D, River Corridor Closure Project*, until this work scope transitions to the River Corridor Contractor.

NOTE: Unless otherwise noted, all information contained herein is as of the end of November 2004.

Notable Accomplishments

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

Deactivation and Decommissioning:

U Plant Demolition Project: The public comment period on the Proposed Plan for Remediation of the 221 U Facility Canyon Disposition Initiative started on December 13, 2004, and will continue through January 31, 2005.

The U Plant Ancillary Facilities Action Memorandum, Removal Action Work Plan, Waste Management Plan, and Sampling and Analysis Plan were approved by RL and the United States Environmental Protection Agency (EPA) allowing the removal action to proceed. Structure demolition is forecast to start in January 2005.

FH continues demolition preparation and asbestos abatement activities on several U Plant Ancillary structures.

Central Plateau Closure Project: The publicly releasable version of the Plan for Central Plateau Closure was issued on November 18, 2004. FH briefed the State of Washington Department of Ecology and the EPA on the plan.

Waste Site Remediation:

U Plant Regional Closure: FH provided Draft C of the 200-UW-1 Focused Feasibility Study and Proposed Plan to regulators in late November. Regulator comments are due on December 30, 2004.

BC Cribs and Trenches: The final report for the High Resolution Resistivity Characterization was received November 24, 2004. This study provides preliminary data defining lateral contamination spread and includes additional data relating soil contamination concentrations to soil conductivity.

200 Area Remedial Investigation/Feasibility Study Work: FH submitted the 200-CS-1 Remedial Investigation Report for DOE review on November 16, 2004.

Notable Accomplishments, continued

Reliability Projects:

300 Area Access Portals: The design kick-off meeting for Project L-577, "300 Area Access Portals," was held on November 9, 2004. The purpose of this project is to enhance personnel safety on the Hanford Site by installing control devices and signs at the portals in the perimeter fence of the 300 Area. The safety perimeter will be established using existing security fences and selected vehicle and personnel access portals.

Export Water System Isolation Valves: The notice to proceed on Project L-334, "Export Water System Isolation Valves," was issued on November 2, 2004. This project designs and constructs remote-operated isolation valves and pressure transmitters in existing export water lines. Remote isolation will provide monitoring and control capabilities from the water plant control room located in the 200 West Area and will allow timely isolation of water line ruptures.

Capital Equipment: A Wildland Pumper Truck, 50- and 70-ton hydraulic Rough Terrain Cranes, and a Compactor Truck were received in November.

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

Uranium Disposition: Initiated fuel shipments for burial at the Mixed Waste Trenches four-and-a-half-months ahead of schedule by successfully completing two fuel shipments of 20 boxes each in November.

D&D 300 Area Treated Effluent Disposal Facility (TEDF): Completed the transfer of six tankers from 207-S Basins to the 307 Basins. This transfer of wastewater was necessary for the continued operations of the 222-S laboratory by allowing the 222-S laboratory to bring building steam into the facility. This wastewater is normally discharged to the 200 Area TEDF; however, contaminate levels were too high to allow the discharge to proceed. It took an outstanding team approach between CH2M Hill Hanford Group, Incorporated, and FH personnel to develop and implement a treatment alternative for this wastewater. The team was able to develop an alternative and implement it without impacting the mission of the 222-S laboratory.

300 Area D&D: Demolished five structures (3707E, 3229, 3704, MO557 and MO558) in November and four structures are on schedule for demolition in December (MO103, MO105, MO830 and 305A).

Anticipated FY 2005 Funds (\$M)

	FY 2005 Anticipated Funding w/Carryover
RL-0040 Nuclear Facility D&D, Remainder of Hanford	\$ 89.9
RL-0041 Nuclear Facility D&D, River Corridor Closure	\$ 19.2
Total	\$ 109.1

FY 2005 Schedule/Cost Performance (\$M)

	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance \$	Schedule Variance %	Cost Variance \$	Cost Variance %	Budget At Completion
RL-0040 Nuclear Facility D&D, Remainder of Hanford	\$9.9	\$10.2	\$9.5	\$0.3	2.8%	\$0.6	6.3%	\$78.8
RL-0041 Nuclear Facility D&D, River Corridor Closure	\$2.3	\$2.5	\$2.1	\$0.1	6.0%	\$0.4	14.8%	\$18.6
Total	\$12.2	\$12.7	\$11.6	\$0.4	3.3%	\$1.0	7.9%	\$97.4

Numbers are rounded to the nearest \$M.

Schedule Performance (+\$0.4M/+3.3%): The favorable schedule variance (+\$0.3M) for Central Plateau D&D, and surveillance and maintenance (S&M) is within established thresholds.

The Waste Site Cleanup unfavorable schedule variance (-\$0.5M) is primarily due to a late start for planning/mobilization for the 200-PW-1 A-8 investigation and delays to beginning the 200-PW-2 S-7 borehole construction because of resource availability and training. There have also been delays in completing the U Plant Regional Closure Focused Feasibility Study/Proposed Plan and Record of Decision support because of additional, extended regulator reviews.

The favorable schedule variance in Reliability Projects is due to progress in completing FY 2004 carryover work scope (+\$2.1M) offset by delays in initiating new starts due to continuing resolution and pending funding decisions related to the Integrated Priority List (-\$1.6M).

The favorable schedule variance (+\$.1M) for River Corridor Closure Project (PBS RL-0041) is within established thresholds.

Cost Performance (+\$1.0M/+7.9%): The favorable cost variance (+\$1.3M) for Central Plateau D&D and S&M is due to the efficiencies in the performance of the U Plant characterization and demolition preparation activities. In addition, performance was earned for the demolition of additional buildings that were demolished during with the B Laydown Area (2255EA, 2242B and 2249B) and three buildings (604G, 621A and 621B) which were demolished as part of Project L-403, "Install Generators and Lighting for Vehicle Inspection Rattlesnake/Wye/Yakima Barricades."

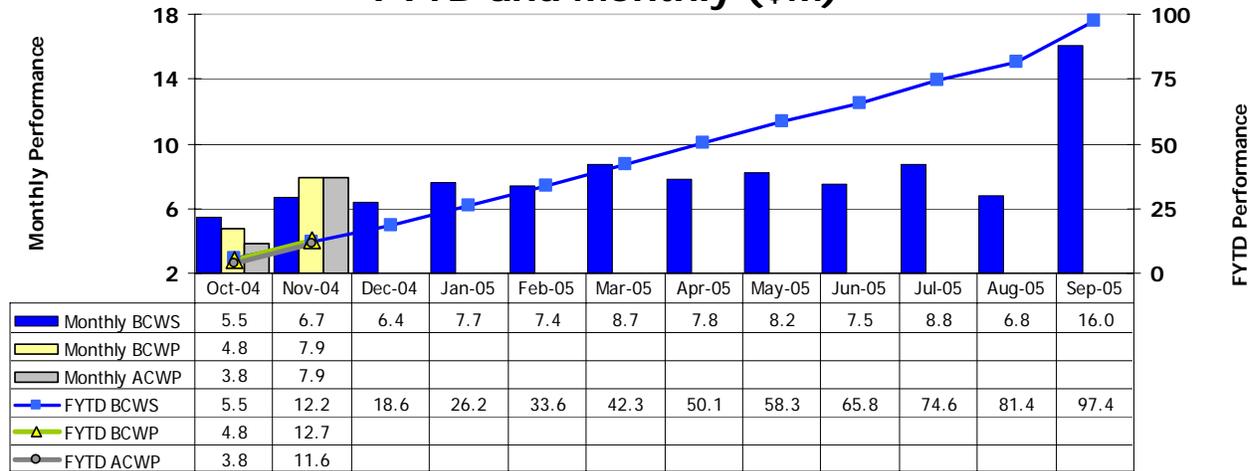
The Waste Site Cleanup unfavorable cost variance (-\$0.6M) is the result of additional subcontractor costs to support the U Plant Regional Closure Record of Decision process, decision documents, and barrier design. Unplanned labor for planning/mobilization and materials/equipment replacement for S-7 borehole construction have also increased costs.

The unfavorable cost variance (-\$0.1M) in Reliability Projects is within established thresholds.

The favorable cost variance (+\$0.4M) for River Corridor Closure Project (PBS RL-0041) is the result of efficiencies realized in the Uranium Disposition Project by changing the disposition path from the Environmental Restoration Disposal Facility to the Mixed Waste Trench. Contributing to the favorable condition are the underruns occurring in the 300 Area Liquid Effluent Facilities materials and contracts as a result of integration with the Waste Encapsulation and Storage Facility, and 200 Area Liquid Effluent Facilities.

FY 2005 Schedule/Cost Performance, continued

Performance Analysis FYTD and Monthly (\$M)



Milestones

PBS	MSN	Title	Type	Due Date	Actual Date	Forecast Date	Status / Comments
RL-0040	TRP-03-242 M-015-40C	Submit 200-CW-5 U Pond/Z Ditches Cooling Water Group FS & Submit	HQ	10/31/04	10/29/04		Completed ahead of schedule
RL-0040	WMG-05-001 M-091-40L-004	M-91-40L.1.D Submit Quarterly Burial Ground Vent and substrate Sample	HQ	12/01/04			On schedule
RL-0040	TRP-03-139 M-013-00O	Submit 1 200 NPL RI/FS (RFI/CMS) Work Plan	HQ	12/31/04			On schedule
RL-0040	WMG-04-009 M-091-40K	M-91-40K Update 218-E-12B SAP	HQ	01/15/05	08/24/04		Completed ahead of schedule
RL-0040	WMG-05-010 M-091-40J	M-91-40J UPDATE 218-W-3A SAP	HQ	03/01/05			On schedule
RL-0040	WMG-05-005 M-091-40L-005	M-91-40L.2.A Submit Quarterly Burial Ground Vent and substrate Sample	HQ	03/01/05			On schedule
RL-0040	WMG-05-009 M-091-40I	M-91-40I Update 218-W-4B SAP	HQ	03/01/05			On schedule
RL-0040	WMG-05-006 M-091-40L-006	M-91-40L.2.B Submit Quarterly Burial Ground Vent and substrate Sample	HQ	06/01/05			On schedule
RL-0040	WMG-05-007 M-091-40L-007	M-91-40L.2.C Submit Quarterly Burial Ground Vent and substrate Sample	HQ	09/01/05			On schedule
RL-0040	TRP-03-260 M-015-46A	200 Area Chemical Lab Waste OUs Remedial Investigation Report.	HQ	10/31/05			On schedule
RL-0040	TRP-03-248 M-020-39	Submit 216 S-10 Pond and Ditch Closure Plan to Ecology	HQ	11/30/05			On schedule

Milestones, continued

PBS	MSN	Title	Type	Due Date	Actual Date	Forecast Date	Status / Comments
RL-0040	TRP-03-245 M-015-39C	Submit 200-CS-1 Chemical Sewer Group FS and Submit PP/Proposed	HQ	11/30/05			On schedule
RL-0040	WMG-06-001 M-091-40L-008	M-91-40L.2.D Submit Quarterly Burial Ground Vent and substrate Sample	HQ	12/01/05			On schedule
RL-0040	TRP-04-324	Issue Action Memorandum for U Plant Ancillary Facilities	RL	12/31/05	01/23/04		Completed ahead of schedule
RL-0040	TRP-04-323	Issue Record-of-Decision for Canyon Disposition Initiative	RL	12/31/05			On schedule
RL-0040	TRP-03-257 M-020-33	Submit Closure/Post Closure Plans for 216-A-10 Crib, Etc.	HQ	12/31/05			On schedule
RL-0040	TRP-03-263 M-015-44A	200-MW-1 OU Remedial Investigation Report	HQ	12/31/05			On schedule
RL-0040	TRP-03-254 M-015-43C	Submit 200-PW-2 OU FS & Proposed Plan/Proposed RCRA Permit Mod	HQ	12/31/05			On schedule
RL-0040	WMG-06-005 M-091-40L-009	M-91-40L.3.A Submit Quarterly Burial Ground Vent and substrate Sample	HQ	03/01/06			On schedule
RL-0040	TRP-04-320	Demolish Ten U Plant Ancillary Facility Structures	RL	03/31/06	09/14/04		Completed ahead of schedule
RL-0040	TRP-04-321	Demolish 10 B Plant Structures	RL	03/31/06	09/14/04		Completed ahead of schedule
RL-0041	TRP-04-325	Package, Ship and Dispose of Remaining N Reactor Fuel	RL	03/31/06			On schedule
RL-0040	WMG-06-006 M-091-40L-010	M-91-40L.3.B Submit Quarterly Burial Ground Vent and substrate Sample	HQ	06/01/06			On schedule
RL-0040	WMG-06-007 M-091-40L-011	M-91-40L.3.C Submit Quarterly Burial Ground Vent and substrate Sample	HQ	09/01/06			On schedule
RL-0040	TRP-03-266 M-015-46B	200 Area Chemical Laboratory Waste OUs Feasibility Study	HQ	09/30/06			On schedule
RL-0040	WDG-06-402	Remediate BC Cribs and Trenches	RL	09/30/06			On schedule
RL-0040	WDG-06-401	Remediation of U Plant Area Waste Sites	RL	09/30/06			On schedule
RL-0040	TRP-04-322	Demolish 12 additional B Plant Structures	RL	09/30/06			On schedule
RL-0041	TRP-04-326 M-092-06-T02	Complete the Disposal/Disposition of Un-Irradiated Metal Fuel	RL	09/30/06			On schedule