

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

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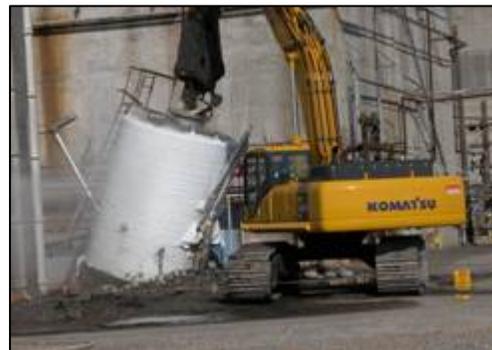
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3764 Building Demolition



222U Building Demolition



203U Building Demolition

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 (M. B. Lackey).

NOTE: Unless otherwise noted, all information contained herein is as of the end of June 2005.

Notable Accomplishments

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

Deactivation and Decommissioning:

U Plant Demolition Project:

During this reporting period, demolition of 222U is continuing. Size reduction of the 203U uranyl nitrate hexahydrate (UNH) tanks is on going and debris removal is in process. Seven of ten structures have been completed to date. Completion of the U Plant Ancillary Facility demolition is forecast in August 2005, seven months ahead of schedule and \$5.5M under budget.

Waste Site Remediation:

200 Area Remedial Investigation/Feasibility Study (RI/FS) Work:

Drilling activities were initiated at the 216-A-8 Crib in 200-PW-1/200-PW-3/200-PW-6 (Plutonium/Organic-Rich Waste Operable Unit Group) on June 2, 2005; drilling activities were completed July 30, 2005, at a total depth of 265 ft. The RI/FS Work Plan revision schedule for 200-IS-1/200-ST-1 Tanks/Lines/Pits/Boxes/Septic Tanks Operable Units was submitted to RL on May 27, 2005, and to Ecology on May 31, 2005. The RI/FS Work Plan revision schedule was submitted to RL for 200-SW-1/200-SW-2 Nonradioactive and Radioactive Landfills Waste Group Operable Units on June 1, 2005, and to Ecology on June 7, 2005. Ecological Risk Assessment submitted the Phase I Sampling and Analysis Plan to RL on June 10, 2005.

U Plant Zone Closure:

Meetings were held in June and early July with RL, Environmental Protection Agency (EPA), and Ecology to identify and resolve comments on the draft of the U Plant Canyon Disposition Initiative (CDI) Record of Decision (ROD) issued by the EPA. The EPA has initiated internal legal reviews and expects the ROD to be issued in August.

The U Waste Sites Proposed Plan (PP) public comment period ended June 30, 2005, and the ROD is being drafted by Ecology, targeting approval by September 2005.

Notable Accomplishments, continued

Waste Site Remediation (continued):

BC Cribs and Trenches:

The EPA review of Draft A of the BC Cribs and Trenches Proposed Plan (PP) continued with responses expected August 4, 2005. The Data Quality Objective/Sampling Analysis Plan (DQO/SAP) for confirmatory/design characterization is in Fluor Hanford (FH) review. The DQO/SAP includes deep sampling in an area west of the cribs indicated during High Resolution Resistivity (HRR) scans completed April 25, 2005.

Reliability Projects:

Facilities and Land Management completed activities and documentation for transferring the DOE 700 Area land to the General Services Administration. This culminates a year-long effort that began in May 2004.

The construction contract was awarded for Route 4S road refurbishment on June 28, 2005, and the construction is scheduled to be complete by August 2005.

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

Special Case Waste (SWC):

Two lead lined drums will be shipped July 27, 2005. The last drum of four drums will undergo Non-Destructive Assay (NDA) on July 22, 2005. The final SCW drum shipment will complete no later than August 26, 2005.

The Safety Review Board (SRB) for the Justification for Continued Operation (JCO) for the venting of the Ion Exchange Column met on July 19, 2005.

300 Area D&D:

Demolition of structures 3764, 3506A, 3506B, and MO337 were completed during this reporting period. All remaining 300 Area D&D work (3701U, 3701D, and 3763 buildings) are scheduled to be completed by mid-September.

FY 2005 Funds vs. Spend Forecast (\$M)

	Projected FY 2005 Funding	FY 2005 Fiscal Year Spend Forecast	Variance
RL-0040 Nuclear Facility D&D, Remainder of Hanford	\$ 84.3	\$ 71.2	\$ 13.1
RL-0041 Nuclear Facility D&D, River Corridor Closure	\$ 15.5	\$ 15.0	\$ 0.4
Total	\$ 99.8	\$ 86.3	\$ 13.5

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	\$46.8	\$51.3	\$45.5	\$4.5	9.6%	\$5.8	11.3%	\$68.2
RL-0041 Nuclear Facility D&D, River Corridor Closure	\$13.2	\$14.6	\$11.8	\$1.4	10.4%	\$2.9	19.5%	\$20.1
Total	\$60.1	\$65.9	\$57.3	\$5.9	8.9%	\$8.7	13.1%	\$88.3

Numbers are rounded to the nearest \$0.1M.

Schedule Performance (+\$5.9M/+8.9%):

RL-40 – The favorable SV (+\$1.2M) is due to favorable progress on D&D activities (+\$4.7M). This is offset by an unfavorable SV for Waste Site Remediation (-\$3.0M) due to delays to 200-PW-1 Plutonium/Organic-Rich Process Waste Group A-8 borehole and Step 2 field investigations. The A-8 Borehole and Step 2 field investigations are expected to be completed during FY 2005. Additionally, Record of Decision (ROD) delays have caused delays to confirmatory sampling, remedial design, and planning for barrier construction at U Plant Waste Sites. Delays to U Plant will continue to grow in FY 2005, but will be recovered during FY 2006 by performing Remedial Design Report/Remedial Action Work Plan reviews concurrently, and completing construction in a shorter period of time. The Surveillance and Maintenance (S&M) unfavorable SV (-\$0.5M) is due to delays for ventilation system shutdown, and PUREX NESHAPs inspection activities.

Reliability Projects favorable SV (+\$3.2M) is due to progress in completing FY 2004 carryover work scope and ahead of schedule FY 2005 projects (+\$7.8M), and offset by delays in initiating new starts due to continuing resolution and pending funding decisions (-\$4.6M).

The favorable schedule variance in PBS RL-0041 (+\$1.4M) is primarily due to early completion of Uranium Disposition project work scope.

Cost Performance (+\$8.7M/+13.1%):

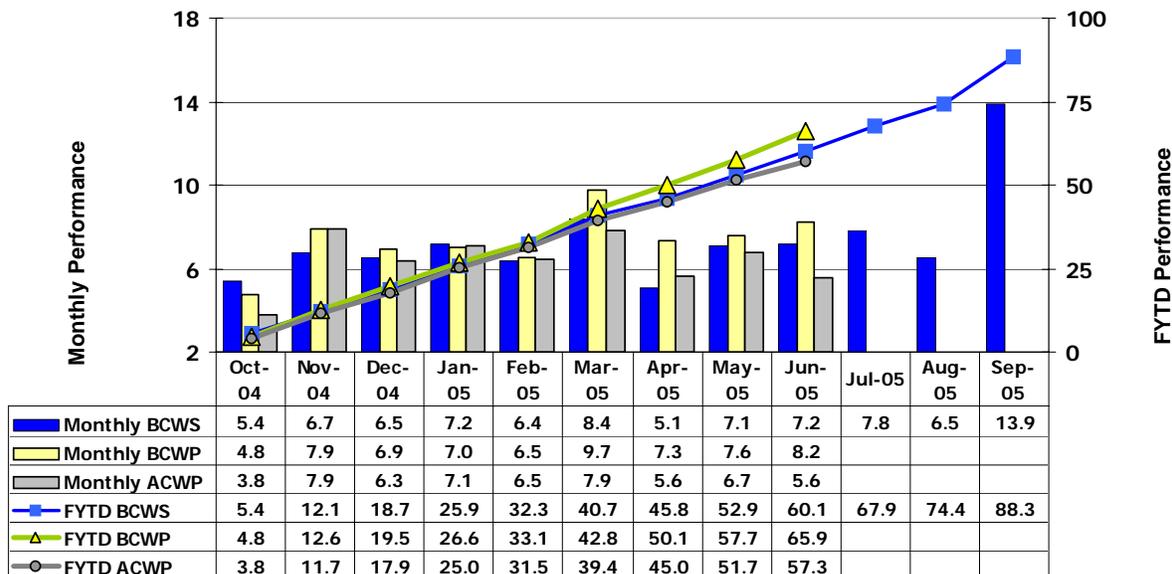
RL-40 – The favorable CV (\$5.8M) is primarily the result of efficiencies in demolition activities (+\$6.3M), Project Management and Support (PM&S) (+\$1.3M), and controlling S&M cost (+\$0.3M). This is offset by the Wastes Sites' (-\$2.2M) additional costs to support the U Plant ROD process, decision documents, and barrier design planning. The U Plant Waste Sites' overrun will be recovered during barrier construction. The S-7 (200-PW-2 Uranium Rich Process Waste Group) T-28 and Z-7 boreholes (200-LW-1, 200 Area Chemical Lab Waste Group) cost more than planned due to the unexpected levels of contamination. The 200-LW-1 and 200-PW-2 overruns are not recoverable.

In Reliability Projects, the unfavorable cost variance (-\$0.4M) is a result of cost increase due to a nationwide increase in cost of steel and large fabricated parts for Project L-334, Minimize Potential Environmental Impacts from Export Water System Ruptures, and L-376, Facility Safety and Efficiency Renovations.

The favorable cost variance in PBS RL-0041 (+\$2.8M) is largely due to lower cost for Uranium Fuel Shipments, and efficiencies at the 300 Area Treated Effluent Disposal Facility (TEDF) operations.

FY 2005 Schedule/Cost Performance (\$M), continued

Performance Analysis FYTD and Monthly (\$M)



Milestone Achievement

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	11/12/04		Completed ahead of schedule
RL-0040	TRP-03-139 M-013-000	Submit 1 200 NPL RI/FS (RFI/CMS) Work Plan	HQ	12/31/04	12/20/04		Completed ahead of 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-05-005 M-091-40L-005	M-91-40L.2.A Submit Quarterly Burial Ground Vent and substrate Sample	HQ	03/01/05	02/17/05		Completed ahead of schedule
RL-0040	WMG-05-010 M-091-40J	M-91-40J Update 218-W-3A SAP	HQ	45 day before field work begins			On schedule
RL-0040	WMG-05-009 M-091-40I	M-91-40I Update 218-W-4B SAP	HQ	45 day before field work begins			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	05/12/05		Completed ahead of 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

Milestone Achievement, continued

PBS	MSN	Title	Type	Due Date	Actual Date	Forecast Date	Status / Comments
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 *
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		TBD	In jeopardy due to unanticipated contamination conditions at 216-A-4 Crib
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		08/26/05	Forecast 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	05/17/05		Completed ahead of 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	Remediate U Plant Area High RiskWaste Sites	RL	09/30/06			On schedule
RL-0040	TRP-04-322	Demolish 12 additional B Plant Structures	RL	09/30/06	09/14/04		Completed ahead of schedule
RL-0041	TRP-04-326 M-092-06-T02	Complete the Disposal/Disposition of Un-Irradiated Metal Fuel	RL	09/30/06	05/17/05		Completed ahead of schedule

* TPA change package is in process to "pause" these milestones for 120 days so that resources can be focused on a modified approach for descions.