

Nuclear Facility Deactivation and Decommissioning (D&D), Remainder of Hanford (RL-0040)

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One of three old diesel pumps to be replaced by Project L-626, 100B Export Water System Reliability Enhancements



Dose rate collection at 241-U-361



A-4 Borehole Worksite

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:

- Central Plateau Remediation (CPR) (M. B. Lackey),
- Waste Site RI/FS Process (B.H. Ford), and
- Reliability Projects (R. G. Slocum).

NOTE: Unless otherwise noted, all information contained herein is as of the end of November 2006.

Notable Accomplishments

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

External Independent Review (EIR)

- Completed the on-site review and provided supplemental data requested by the team
- RL briefed Fluor Hanford (FH) on the EIR team report

D&D Remediation Project

200-UW-1 U Plant Zone Waste Site Remediation

- Phase I video of the U-361 tank was completed four months ahead of schedule on December 5, 2006

200 North Sites – Remove, Treat and Dispose (RTD)

- Sampling and Analysis Plan (SAP) transmitted to RL for approval November 22, 2006
- Remedial Action Work Plan in development
- Cultural Resource Review – approval to proceed was granted November 21, 2006

Central Plateau Surveillance & Maintenance

212-N Facility

- Initiated removal of insulation surrounding 15 large crates of Plutonium contaminated equipment stored for more than 40 years in the facility
- Continued preparations to perform a non-destructive analysis (NDS) on the crates before placing them into larger IP-2 containers, so they can be moved to a radiological waste storage facility

Reliability Projects:

- Completed L-598, *Near Term Repairs – Repeater Facilities*, lightning protection upgrades on November 9, 2006
- Transmitted vacate alternatives and cost estimates for the 3790 Building, 300 Area telecommunication facilities, and 100-N Sewer Lagoon to RL on November 30, 2006
- Completed L-626, *100B Area Export Water System Reliability Enhancements*, definitive design on November 30, 2006

Closure Projects:

M-15 Milestones

- Completed the public comment period for the Proposed Tri-Party Agreement Modifications for Central Plateau and Groundwater Remediation

BC Cribs, Trenches & Control Area

- Transmitted the TW-1/2 Work Plan Addendum to RL December 18, 2006

200-MW-1, Miscellaneous Waste Group

- Completed drilling the high risk portion of the A-4 borehole

FY 2007 Funds vs. Spend Forecast (\$M)

		Projected FY 2007 Funding	FY 2007 Fiscal Year Spend Forecast	Variance
RL-0040	Nuclear Facility D&D, Remainder of Hanford	\$ 78.1	\$ 67.3	\$ 10.8

FY 2007 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	\$8.3	\$6.1	\$6.2	-\$2.2	-26.6%	-\$0.1	-1.8%	\$67.6
Total		\$8.3	\$6.1	\$6.2	-\$2.2	-26.6%	-\$0.1	-1.8%	\$67.6

Numbers are rounded to the nearest \$0.1M.

Schedule Performance (-\$2.2M/-26.6%):

The unfavorable schedule variance (SV) for Central Plateau D&D Project (CP D&D) (-\$0.8) is due to not performing U8/U12 Barrier work scope due to delays in approval of the Record of Decision (-\$0.3); delays in approval of the Contaminated Equipment-Special Packaging Authorization (CE-SPA) for the 212N Inventory Reduction work scope (-\$0.2); delays in demolition of 10 facilities resulting from loss of D&D workers, and delays in U-Canyon Studies due to additional/new information which has increased the duration of assembling background data (-\$0.2).

The unfavorable schedule variance in Closure Projects (-\$1.4) is due to the following: (1) delays in Ecological sampling resulting from delays in SAP approval and lack of sampling resources (-\$0.3), (2) BC Cribs work completed in prior years (-\$0.1), (3) late start performing A-4 borehole drilling resulting from delays in SAP approval (-\$0.2), (4) delays in SW-2 field work and studies resulting from resources being utilized to perform a full Data Quality Objective (DQO), which is taking longer than planned due to large number of regulatory participants (-\$0.2), (5) delays in IS-1 pipeline mapping due to lack of resources, (-\$0.1), (6) not taking credit for the M-15 Remedial Investigation Work Plan and Model Group DQO (replanned in BCR RL40-2007-002, "Replan the DQO/SAP Model Group Scope of Work,") due to the modified performance incentive (PI), which is currently awaiting approval (-\$0.3), and (7) delays in engineering studies/miscellaneous (-\$0.2).

The unfavorable SV for Reliability Projects is within established thresholds.

Cost Performance (-0.1M/-1.8%):

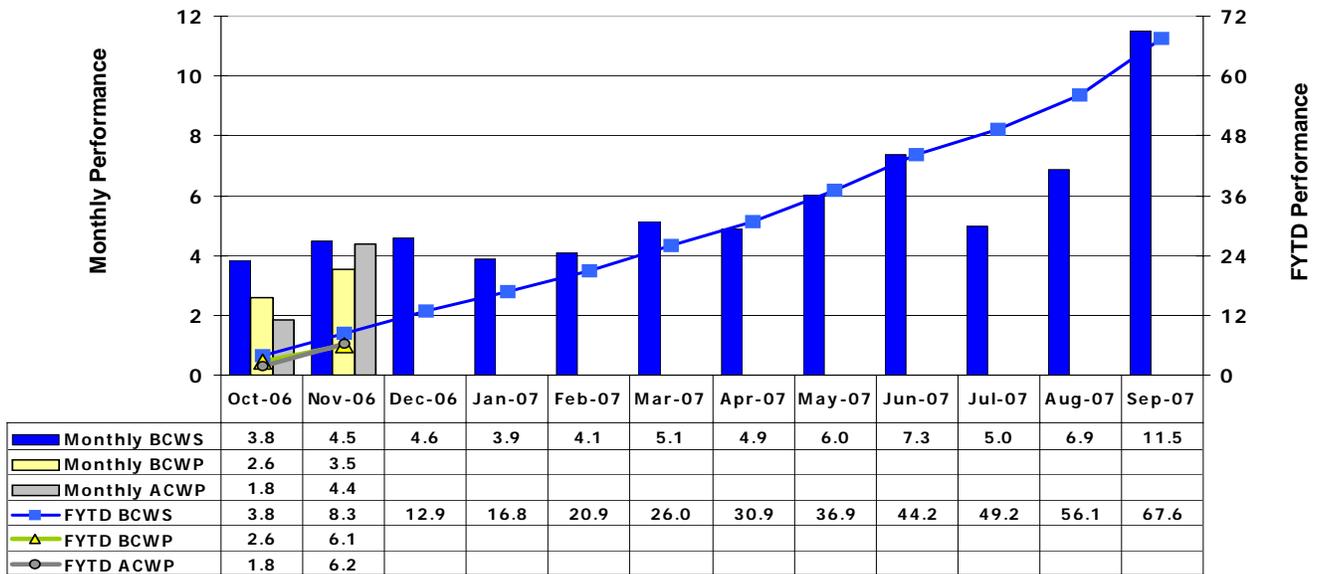
The favorable cost variance (CV) for CP D&D (+\$0.3M) is due to the correction of contract accruals for Environmental Restoration Disposal Facility (ERDF) 200-W-42 Pipeline removal (+\$0.3M), efficiencies from using Surveillance and Maintenance (S&M) staff on level of effort work as well as discrete work scope (+\$0.3M), offset by continued project costs associated with demolition of 10 structures while actual demolition activities are on hold due to lack of D&D resources (-\$0.1), and lagging relocation costs from FY 2006, and additional costs associated with the EIR preparations (-\$0.2M).

The unfavorable CV for Closure Projects is due to collection of Model Group DQO actual costs without claiming earned value as noted under the SV explanation (-\$0.1). This is offset by efficiencies in A-4 borehole drilling and PW-1 waste disposal activities and Feasibility Study.

The unfavorable CV for Reliability Projects (-\$0.2M) is within established thresholds.

FY 2007 Schedule/Cost Performance (\$M), continued

Performance Analysis
FYTD and Monthly (\$M)



Milestone/Performance Objective Achievement

PBS	MSN	Milestone Title	Type	Due Date	Actual Date	Forecast Date	Status / Comments
RL-0040	M-015-45A	Submit 200-PW-1 OU Remedial Investigation Report	HQ	10/31/06	9/28/06		Completed ahead of schedule
RL-0040	M-091-40L-012	Quarterly Burial Ground vent/substrate sampling results (1st Qtr 2007)	HQ	12/1/06	11/1/06		Completed ahead of schedule
RL-0040	M-091-40L-013	Quarterly Burial Ground vent/substrate sampling results (2nd Qtr 2007)	HQ	3/15/07			On schedule
RL-0040	M-015-46B	Chemical Laboratory Waste OUs Feasibility Study	HQ	3/31/07		12/31/11	Behind schedule. M-15 tentative agreement changes date to 2011.
RL-0040	RL40.3a CPDD-07-011	Project Execution Plan reflective of an integrated groundwater source approach	RL	3/31/07			On schedule
RL-0040	RL40.2a CPDD-07-009	Draft "A" Excavation Treatability Test plan (including SAP) for the 200 Area BC Cribs and Trenches	RL	5/31/07			On schedule
RL-0040	M-091-40L-014	Quarterly Burial Ground vent/substrate sampling results (3rd Qtr 2007)	HQ	6/1/07			On schedule

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Milestone/Performance Objective Achievement, continued

PBS	MSN	Milestone Title	Type	Due Date	Actual Date	Forecast Date	Status / Comments
RL-0040	MR.RL40.9c CPDD-07-001	Safety basis document defining appropriate controls to allow disposition of U Plant Cell 30 tank contents	RL	6/30/07			On schedule
RL-0040	MR.RL40.11	Ten High Risk Industrial Facilities Demolished to Slab on Grade	RL	6/30/07			On schedule
RL-0040	MR.RL40.9a CPDD-07-003	U Plant Canyon Facility Waste Acceptance Study	RL	6/30/07			On schedule
RL-0040	MR.RL40.12 CPDD-07-004	212-N nuclear facility hazard reduction and downgrade completed	RL	6/30/07			On schedule
RL-0040	MR.RL40.9b D&D-07-001	U Plant Accelerated Closure Engineering Studies		6/30/07			On schedule
RL-0040	MR.RL40.10 CPDD-07-005	Three 200-CW-3, 200 North Cooling Water Group, waste sites remediated under the remove, treat, and dispose alternative	RL	7/31/07			On schedule
RL-0040	M-091-40L-015	M-91-40L.4C Quarterly Burial Ground vent/substrate sampling results (4th Qtr 2007)	HQ	8/31/07			On schedule
RL-0040	M-015-45B CPDD-07-006	Submit Draft A Feasibility Study and Proposed Plan for the 200-PW-1/3/6 Operable Unit Group.	HQ	9/30/07			On schedule
RL-0040	RL40.3b CPDD-07-007	Central Plateau Cleanup and Configuration Control Specification document	RL	9/30/07			On schedule