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

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As of March 15, 2004, crews have removed 16 of 29 wall sections on the 233-S Plutonium Concentration Facility Deactivation & Decommission Project.

Direct pushes of 6-inch drive casings are being performed as part of the geophysical logging of the U Plant high risk waste sites.

Overview

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

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

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

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

Notable Accomplishments

Deactivation and Decommissioning

233-S Demolition: As of March 15, 2004, a total of 16 of 29 wall slabs have been removed, safely packaged, and transported to the Environmental Restoration and Disposal Facility for disposal. Wall sawing was initiated on January 19, 2004.

U Plant Canyon Demolition Ready: The Feasibility Study/Proposed Plan (FS/PP) for the Canyon Disposition Initiative (U Plant) is in final regulatory legal review by the Environmental Protection Agency and the Washington State Department of Ecology. Resolution of comments received to date will require performance modeling of the final waste constituents/structure to receive waivers/ variances to land disposal restrictions and landfill minimum technical requirements. This is expected to delay completion of the FS/PP for the public comment period by approximately two months. Planning has been initiated to focus fiscal year (FY) 2005/2006 D&D activities on U Plant Ancillary facilities.

224-B and 224-T Demolition: The 224-B Engineering Evaluation/Cost Analysis (EE/CA) received five public review comments which are being addressed. The 224-B action memorandum is being developed and is scheduled to be issued at the end of March 2004. Field work on 224-B has been postponed beyond the contract period as part of the baseline adjustment to align PHMC work scope to DOE funding realities and revised priorities.

The 224-T EE/CA has received several comments which are being addressed. The 224-T action memorandum is being developed and is scheduled to be issued around the middle of March 2004. Field work is being planned, and initial activities are scheduled to begin in May 2004 as part of the baseline adjustment.

Notable Accomplishments, continued

Reliability Project

Project L-435, *Safety Concerns, Drains on Route 11A.* This safety-related project installs the facilities necessary to drain water from Route 11A near the bottom of the hill about three miles east of Dayton Ave. Storm water collects at this location because there is a sag in the road profile. The center line median is lower than the eastbound and westbound lanes, and water collects between the median and the center line crown of each lane, creating a serious traffic hazard. During cold weather the area freezes, presenting a skid hazard to traffic. During warmer weather the area can present a hydroplaning hazard.

Waste Site Remediation

U Plant Regional Acceleration: As of February 27, 2004, 20 of 32 planned direct pushes have been completed. Direct pushes of 6-inch drive casings are being performed as part of the geophysical logging of the U Plant high risk waste sites.

BC Crib Acceleration: Decommissioning of the remedial investigation borehole at the 216-B-26 trench was physically completed on February 27, 2004. The contractor demobilized on March 1, 2004.

200 Area Remedial Investigation/Feasibility Study Work: A sampling and analysis plan to support field characterization work at the 216-S-7 Crib was completed on February 23, 2004. The 216-S-7 Crib is a hexone site within the Uranium-Rich Process Waste group Operable Unit (200-PW-2). This additional field characterization work has been established due to the expressed concern raised by the Regulators regarding the extent of hexone contamination in this Operable Unit.

FY 2004 FH Funds versus Actual ($000)

		FY 2004 Anticipated Funding w/Carryover	FY 2004 Fiscal Year Spend Forecast	Variance
RL-0040	Nuclear Facility D&D, Remainder of Hanford	$ 73,470	$ 74,427	$ -957
RL-0041	Nuclear Facility D&D, River Corridor Closure	$ 12,436	$ 11,552	$ 884
	Total	**$ 85,906**	**$ 85,979**	**$ -73**

The 300 Area work scope pending transition to the River Corridor Closure contractor is currently reflected in the funding for the full year; however, the RL-0041 baseline only reflects work scope through February. Baseline Change Request FH-2004-006, "*Extension of Fluor Hanford FY 2004 Contract Responsibilities for the 300 Area work scope pending transfer to the River Corridor Contract,"* was submitted to RL on February 19, 2004.

FY04 Schedule/Cost Performance ($000)

		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	30,748	22,427	25,900	-8,322	-27%	-3,474	-15%	83,616
RL-0041	Nuclear Facility D&D, River Corridor Closure	4,533	4,565	4,728	32	1%	-164	-4%	5,916
	Total	**35,281**	**26,991**	**30,628**	**-8,290**	**-31%**	**-3,637**	**-13%**	**89,532**

NOTE: The above excludes Work for Others associated with these PBSs, as Work for Others is reported in Section H. Numbers are rounded to the nearest $K and include the closure services allocation.

Schedule Performance ($-8,290K/-31 %): The unfavorable schedule variance in the D&D sub-project is primarily due to delays in mobilization and engineering studies at 224-B/224-T/U Plant due to resource availability, delays in issuance of the 224-B/224-T EE/CAs due to redirection of the "plug-in" approach, and not starting U Plant ancillary facilities activities due to FY 2004 funding reductions ($-5,176K). Also contributing to the unfavorable schedule variance are weather and technical related delays at the 233-S demolition project ($-775K). The revised working schedule reflects a May 19, 2004, demolition to slab-on-grade completion with waste packaging and project close-out by July 2004.

The unfavorable schedule variance is also attributable to 200 Area Waste Site Cleanup ($-2,790K) due principally to the deferral of work scope in response to FY 2004 funding reductions. This includes some of the Step 2 investigation work for 200-PW-1; the pipeline EE/CA, test pit and borehole construction, pipeline design, crib stabilization, and the removal/disposal design work for the U Plant Regional Closure; and the design/confirmatory sampling and design for B/C Cribs waste sites.

FY 2004 Schedule/Cost Performance, continued

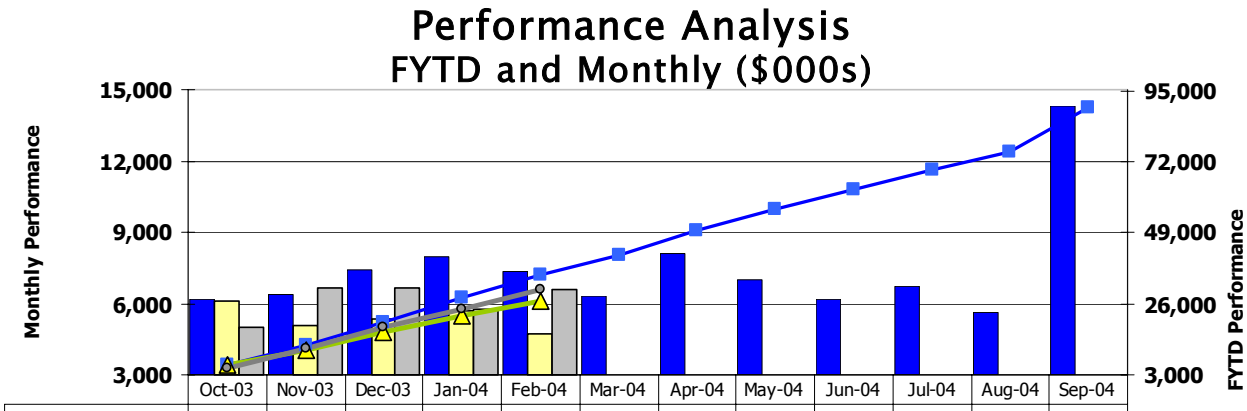
These variances are somewhat offset by a favorable schedule performance ($758K) in the Reliability sub-project for completion of FY 2003 carryover work scope and two FY 2004 projects (Project L-437, *Route 11A Road Overlay;* and Project L-347, *Radio Frequency Migration)*.

Cost Performance ($-3,637K/-13%): The unfavorable variance for D&D is due to 233-S demolition ($-4,612K) activities being more extensive, thus requiring retention of resources (personnel and equipment) for a longer period of time (approximately six months).

The unfavorable cost variance for 200 Waste Site Cleanup ($836K) is due to Z-9 (200-PW-1) requiring more labor than planned due to higher levels of contamination than expected. The 200-PW-2 Remedial Investigation work that was delayed from FY 2003 has had increased equipment replacement costs, increased stand-by time costs, and extra sample shipping and packaging costs due to the 216-A-10 field work.

The unfavorable variances are offset by efficiencies in the surveillance and maintenance of facilities and waste sites ($508K).

The closure services allocation is calculated on a straight-line basis and allocated to each PBS on a per-month basis. The cost variance ($1,432K) will be corrected with the Baseline Adjustment with the exception of efficiencies.



	Oct-03	Nov-03	Dec-03	Jan-04	Feb-04	Mar-04	Apr-04	May-04	Jun-04	Jul-04	Aug-04	Sep-04
Monthly BCWS	6,163	6,357	7,428	7,976	7,357	6,317	8,112	7,029	6,182	6,704	5,623	14,285
Monthly BCWP	6,113	5,071	5,378	5,677	4,753							
Monthly ACWP	5,018	6,647	6,679	5,726	6,558							
FYTD BCWS	6,163	12,520	19,948	27,924	35,281	41,598	49,710	56,738	62,921	69,624	75,247	89,532
FYTD BCWP	6,113	11,184	16,561	22,237	26,991							
FYTD ACWP	5,018	11,665	18,344	24,071	30,628							

Milestone

PBS	MSN	Title	Type	Due Date	Actual Date	Forecast Date	Status Comments
CP01	TRP-03-227 M-015-41C	Submit 200-TW-1 & 200-TW-2 OU FS/Proposed Plan to EPA & Ecology	HQ	03/31/04			On schedule
CP01	TRP-03-230 M-015-39B	Submit 200-CS-1 Chemical Sewer Group RI Report	HQ	05/31/04			On schedule
CP01	TRP-03-224 M-013-00N	Submit 1 200 NPL RI/FS (RFI/CMS) Work Plan	HQ	06/30/04			On schedule
CP01	TRP-03-233 M-015-43B	Submit 200-PW-2 OU RI Report Including Past Practice Waste Sites	HQ	06/30/04			On schedule
CP01	TRP-03-309	233-S (PuConcentration Facility) and the 233-SA (Exhaust Filter Building) demolished to slab on grade.	RL	6/30/04		5/19/04	Ahead of schedule
CP01	TRP-03-501 M-092-11-T01	Complete Dispostion Options for Hanford Site Nonradioactive NA	RL	09/28/04			On schedule
CP01	TRP-03-236 M-016-66	Initiate Interm. Des.& Auth for RA at 618-10&11	HQ	09/30/04			On schedule
CP01	TRP-03-242 M-015-40C	Submit 200-CW-5 U Pond/Z Ditches Cooling Water Group FS & Submit	HQ	10/31/04			On schedule
CP01	TRP-03-139 M-013-00O	Submit 1 200 NPL RI/FS (RFI/CMS) Work Plan	HQ	12/31/04			On schedule
CP01	TRP-03-260 M-015-46A	200 Areaa Chemical Lab Waste OUs Remedial investgation Report.	HQ	10/31/05			On schedule
CP01	TRP-03-245 M-015-39C	Submit 200-CS-1 Chemical Sewer Group FS and Submit PP/Proposed	HQ	11/30/05			On schedule
CP01	TRP-03-248 M-020-39	Submit 216 S-10 Pond and Ditch Closure Plan to Ecology	HQ	11/30/05			On schedule
CP01	TRP-03-254 M-015-43C	Submit 200-PW-2 OU FS & Proposed Plan/Proposed RCRA Permit Mod	HQ	12/31/05			On schedule
CP01	TRP-03-257 M-020-33	Submit Closure/Post Closure Plans for 216-A-10 Crib, Etc.	HQ	12/31/05			On schedule
CP01	TRP-03-263 M-015-44A	200-MW-1 OU Remedial Investigation Report	HQ	12/31/05			On schedule
CP01	TRP-03-266 M-015-46B	200 Area Chemical Laboratory Waste OUs Feasibility Study	HQ	09/30/06			On schedule
CP01	TRP-03-272	Remediate BC Crib and Trenches	RL	09/30/06			On schedule
CP01	TRP-03-303	U Plant Regional Closure (high risk waste sites)	RL	9/30/06			On Schedule
CP01	TRP-03-30C	U-Plant ready for demolition	CNTR	9/30/06			On schedule
CP01	TRP-03-312	224-B (Concentration Facility) demolished to slab on grade.	RL	9/30/06			The Baseline adjustment will delete this milestone
CP01	TRP-03-315	224-T (Transuranic Storage & Assay Facility) demolished to slab on grade.	RL	9/30/06			On schedule
RC06	TRP-04-901 M-92-15	Complete Removal and Transfer, and Initiate Storage of Phase II 300 Area SCW and Materials	EA	9/30/04	9/19/01		Completed ahead of schedule