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

M. B. Lackey, Vice President of Deactivation and Decommissioning / (509) 373-9519
R. T. Wilde, Vice President of Waste Disposal / Groundwater Remediation / (509) 372-8123

Waste Site Remediation
29 direct pushes of six-inch drive casings have been completed.

233-S Demolition
As of April 16, 2004, a total of 27.5 of 29 wall slabs have been removed from the facility.

Reliability Project
Project L-388, *Replace 1,700 Feet of Deteriorated four-Inch Potable Water Line to 242A Evaporator/ Waste Treatment Plant*

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 March 2004.

Notable Accomplishments

Deactivation and Decommissioning

233-S Demolition: As of April 16, 2004, a total of 27.5 of 29 wall slabs have been removed from the facility. The shear-and-track hoe used to demolish the lower level of the building has been decontaminated and is ready for transportation back to CR/X Environmental Services.

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 State of Washington 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 have been addressed. The 224-B action memorandum has been developed and is scheduled to be issued at the end of April 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 RL funding priorities.

The 224-T EE/CA has received several comments which have been addressed. The 224-T action memorandum has been developed and is scheduled to be issued at the end of May 2004. Field work has been postponed beyond the contract period as part of the baseline adjustment to align PHMC work scope to RL funding priorities.

Notable Accomplishments, continued

Reliability Project
Project L-388, *Replace 1,700 feet of Deteriorated four-Inch Potable Water Line to 242A Evaporator/Waste Treatment Plant*. This project, which started in early October 2003, designed and constructed a new potable water service in the 200 East Area. The old water service was undersized and believed to be leaking into an environmentally-sensitive area. The new 12-inch line, approximately 1,700 feet long, greatly improves the water quality and flow.

The Hanford Guzzler was used to assist in areas that were highly congested with underground utilities. Approximately 60 underground utilities were located along the new pipeline path. Transition to the new underground utilities was completed by January 29, 2004.

Final patching and paving of the existing roadway was performed the week of March 15, 2004. FH worked with CH2M HILL to install an asphalt sidewalk along the south side of 4th Street. This new walkway alleviated a long-standing safety issue. Outstanding field coordination allowed construction to complete March 26, 2004, with no safety issues or operational impacts.

Waste Site Remediation

U Plant Regional Acceleration: As of March 27, 2004, 29 of 32 planned FY 2004 direct pushes have been completed. Direct pushes of six-inch drive casings were being performed as part of the characterization and geophysical logging of the U Plant high risk waste sites.

BC Crib Acceleration: FH submitted the Feasibility Study and Proposed Plan for the Tank, Scavenged, and Fission Product-Rich Operable Units (200-TW-1, 200-TW-2, and 200-PW-5) to the regulators on March 30, 2004, to complete Tri-Party Agreement (TPA) Milestone M-015-41C one day ahead of schedule.

200 Area Remedial Investigation/Feasibility Study (RI/FS) Work: Work continued on a number of RI/FSs and the preparation of RI/FS documentation. The RI report for the Chemical Sewer Waste Group Operable Unit (200-CS-1) was submitted for RL review on March 29, 2004.

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	$ 73,467	$ 67,684	$ 5,783
RL-0041	Nuclear Facility D&D, River Corridor Closure	$ 12,435	$ 11,541	$ 894
	Total	**$ 85,902**	**$ 79,225**	**$ 6,677**

Note: Infrastructure Reliability work scope projected to carryover to FY 2005 ($4.4M).
Waste Site Cleanup deferred several activities to accommodate projected overruns ($2.4M)

FY 2004 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	36,205	27,122	31,064	-9,084	-25%	-3,943	-15%	85,549
RL-0041	Nuclear Facility D&D, River Corridor Closure	5,444	5,582	5,567	138	3%	15	0%	11,370
	Total	**41,650**	**32,704**	**36,632**	**-8,946**	**-27%**	**-3,928**	**-12%**	**96,920**

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 ($-8,946K/-27%): The unfavorable schedule variance in the D&D sub-project is primarily due to delays in mobilization and engineering studies at 224-B/224-T/U Plant due to resource availability, delays in issuance of the 224-B/224-T EE/CAs due to redirection of the "plug-in" approach, and not starting U Plant ancillary facilities activities due to FY 2004 funding reductions ($-5,176K). Also contributing to the unfavorable schedule variance are weather and technical-related delays at the 233-S demolition project ($-502K). The revised working schedule reflects a May 5, 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 ($-3,282K) 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

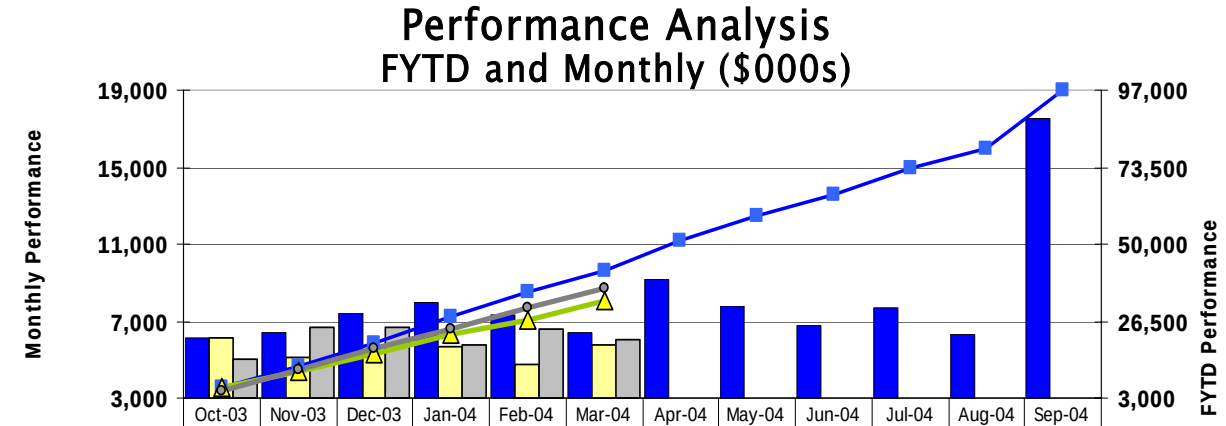
Unfavorable schedule performance was slightly offset by positive progress in completing FY 2003 carryover work scope ($1,923K) and the acceleration of the telephone switch replacement activities ($667K), as well as early completion of Route 11A Road Overlay and Radio Frequency Migration ($810K). The favorable variance was somewhat offset by delay in initiating new starts due to continuing resolution and pending resolution of FY 2004 funding priorities ($-2,371K).

Cost Performance ($-3,928K/-12%): The unfavorable variance for D&D is due to 233-S demolition ($-5,581K) 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 ($-855K) 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, and extra sample shipping and packaging costs due to the 216-A-10 field work. Also, the restructuring of the 200-UR-1 Work Plan to accommodate Ecology's position that an additional waste site be included in the Remove/Treat/Dispose option resulted in increased costs.

The unfavorable cost performance variances were offset by efficiencies in surveillance and maintenance of general purpose facilities ($174K), 300 Area facilities deactivation ($63K), and land management ($82K). Mild winter conditions have alleviated the requirement for crafts to enter and check utilities for vacant facilities during freezing temperatures and the cost of deactivating the 300 Area facilities have been less than planned. The cost for dismantling the steam lines ($-230K), characterization of the 748 Building in Richland for transfer ($-45K), and work in the Post Closure and Institutional Engineering Controls areas ($-35K) will partially offset current favorable cost variances.

The closure services positive cost variance of $219K is a result of projected closure services efficiencies that may be offset with the seasonal maintenance activities and fabrication services outsourcing and uncosted system upgrades which are in development.



	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	6,369	9,187	7,747	6,806	7,650	6,325	17,555
Monthly BCWP	6,113	5,071	5,378	5,677	4,753	5,713						
Monthly ACWP	5,018	6,647	6,679	5,726	6,558	6,003						
FYTD BCWS	6,163	12,520	19,948	27,924	35,281	41,650	50,837	58,584	65,390	73,039	79,365	96,919
FYTD BCWP	6,113	11,184	16,561	22,237	26,991	32,704						
FYTD ACWP	5,018	11,665	18,344	24,071	30,628	36,632						

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	3/30/04		Completed ahead of 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		5/5/04	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