

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

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233-S Roof Removal



BC Crib Acceleration: The drilling of the remedial investigation borehole

## 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 January 2004.

## NOTABLE ACCOMPLISHMENTS

### Deactivation and Decommissioning



**233-S Demolition:** Wall sawing was initiated on January 19, 2004, and the last of the four roof slabs was successfully removed on February 11, 2004. All four of the slabs were safely packaged, transported, and off-loaded at the Environmental Restoration and Disposal Facility on February 12, 2004.

**U Plant Canyon Demolition Ready:** The Feasibility Study/Proposed Plan for the Canyon Disposition Initiative (U Plant) is in final legal review by the Environmental Protection Agency and the Washington State Department of Ecology. One comment (regarding applicability of Resource Conservation and Recovery Act landfill requirements) is requiring extensive effort to resolve and avoid potential precedent-setting impacts on other Hanford projects. A meeting with the regulators has identified a potential path forward, and a final agreement is pending.

**224-B and 224-T Demolition:** The 30-day public comment period for the 224-B Engineering Evaluation/Cost Analysis (EE/CA) ended in January 2004. Comments received are being addressed. The Action Memorandum is being developed and is expected to be issued in March 2004. Field work on 224-B is expected to be deferred out of the current contract period as part of the March baseline adjustment. The 45-day public review period on the 224-T EE/CA started on January 12, 2004. Planning for field work is underway to enable start of field entries in the third quarter FY 2004.

### Reliability Project



**Electrical Utilities Bucket Truck Replacement:** This capital equipment purchase replaced an existing bucket truck that was over 15 years old and routinely out of service, thus unreliable for the Site maintenance needs. The replacement vehicle was received on January 13, 2004, and training by the vendor was completed on January 21, 2004.

## **NOTABLE ACCOMPLISHMENTS, CONTINUED**

**Project L-388, Replace 1,700 Feet of Deteriorated Four-Inch Potable Water Line to 242A Evaporator/Waste Treatment Plant:** The main piping was installed by December 15, 2003. This project designed and constructed a new potable water service in the 200 East Area. The existing water service is greatly undersized and may be leaking in an environmentally-sensitive area. The new 12-inch line will greatly improve the water quality and flow in this area.



### **Waste Site Remediation**

**U Plant Regional Acceleration:** Initiated design for U-Plant waste sites on January 22, 2004.

**Burial Ground Sampling and Analysis:** The quarterly report was submitted to RL on January 27, 2004, which addressed sampling and vapor extraction activities supporting low-level burial ground operations under the administrative order.



**BC Crib Acceleration:** The drilling of the remedial investigation borehole at the 216-B-26 trench was completed on January 13, 2004.

## FY 2004 FH FUNDS VS ACTUAL (\$000)

	FY 2004 Anticipated Funding w/Carryover	FY 2004 Fiscal Year Spend Forecast	Variance
<b>RL-0040</b> Nuclear Facility D&D, Remainder of Hanford	\$ 75,284	\$ 74,308	\$ 976
<b>RL-0041</b> Nuclear Facility D&D, River Corridor Closure	\$ 13,224	\$ 10,374	\$ 2,850
<b>Total</b>	<b>\$ 88,508</b>	<b>\$ 84,682</b>	<b>\$ 3,826</b>

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. An estimate for the 300 Area Surveillance and Maintenance Program was transmitted to RL on January 22, 2004. RL has provided verbal guidance on the work scope to be performed for the remainder of FY 2004. 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," is being updated for submittal to RL by February 20, 2004.

## 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
<b>RL-0040</b> Nuclear Facility D&D, Remainder of Hanford	24,662	18,997	20,784	-5,665	-23%	-1,787	-9%	84,734
Nuclear Facility D&D, River Corridor	3,262	3,241	3,286	-21	-1%	-45	-1%	4,798
<b>RL-0041</b> Closure								
<b>Total</b>	<b>27,924</b>	<b>22,238</b>	<b>24,071</b>	<b>-5,685</b>	<b>-26%</b>	<b>-1,832</b>	<b>-8%</b>	<b>89,532</b>

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.

**Schedule Performance (\$-5,685K/-26 %):** The unfavorable schedule variance in the Deactivation and Decommissioning Project is primarily due to weather- and technical-related delays at the 233-S demolition project. The revised working schedule reflects an April 15, 2004, demolition to slab-on-grade completion with waste packaging and project close-out by June 2004. Also contributing to the unfavorable schedule variance are 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.

The unfavorable schedule variance is also attributable to 200 Area Waste Site Cleanup due in part to inclement weather in January which delayed the slant borehole drilling (200-PW-1), the drive casing work for U Plant Regional Closure, and drilling and sampling activities at BC Cribs (216-B-26). This work is anticipated to be completed during February. Also contributing to the unfavorable schedule variance is the deferral of work scope to support the FY 2004 funding reductions. This includes some of the Step 2 investigation work for 200-PW-1; and 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.

## FY 2004 SCHEDULE/COST PERFORMANCE, CONTINUED

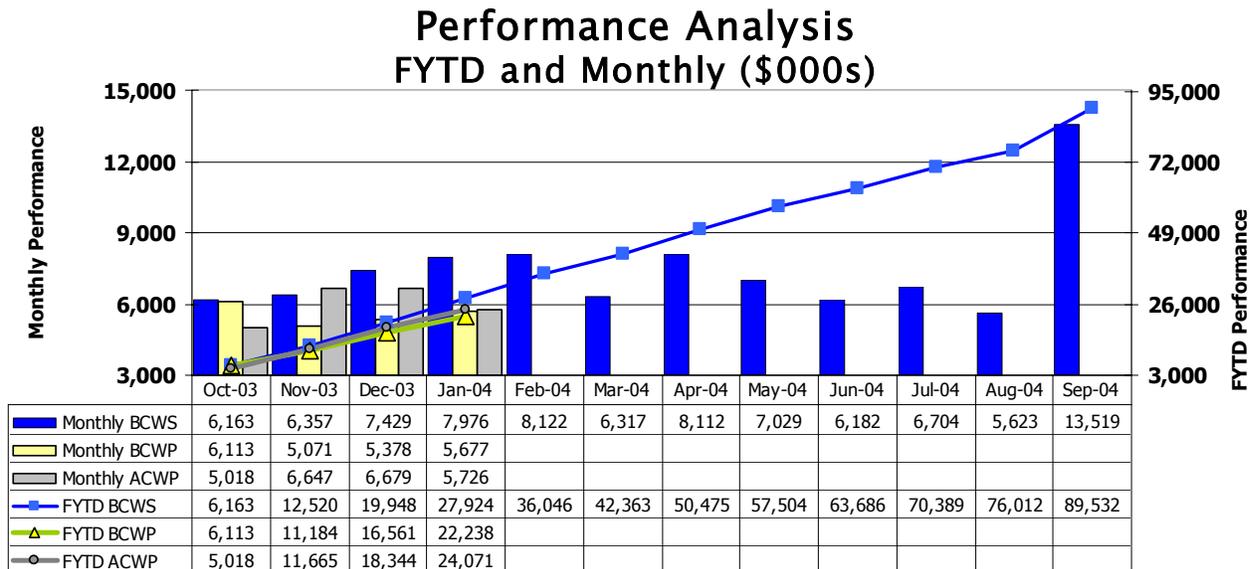
These variances are somewhat offset by a favorable schedule variance in Reliability Projects, which is due to positive progress in completion of FY 2003 carryover work scope (Project L-437, *Route 11A Road Overlay*; and Project L-347, *Radio Frequency Migration*).

**Cost Performance (\$-1,832K/-8%):** The unfavorable variance for Deactivation and Decommissioning is due to 233-S demolition activities being more extensive, thus requiring retention of resources (personnel and equipment) for a longer period of time (approximately five months).

The unfavorable cost variance for 200 Waste Site Cleanup 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 21-G-10 field work.

The unfavorable variances are offset by efficiencies in the surveillance and maintenance of facilities and waste sites.

The closure services distribution is calculated on a straight-line basis and allocated to each PBS on a per-month basis. The cost variance will be corrected with the March Baseline Adjustment with the exception of efficiencies.



## MILESTONE ACHIEVEMENT

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		4/15/04	Ahead of schedule
CP01	TRP-03-501 M-092-11-T01	Complete Disposition Options for Hanford Site Nonradioactive NA	RL	09/28/04			On schedule
CP01	TRP-03-236 M-016-66	Initiate Intern. 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 Area Chemical Lab Waste OUs Remedial investigation 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, Trenches, and Control Area	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