

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

**M. B. Lackey, Vice President of Deactivation and
Decommissioning Project/(509) 373-9519**

**R. G. Slocum, Vice President of Closure Services
and Infrastructure/(509) 372-1843**



Reliability Projects

**L-334, Minimize Potential
Environmental Impacts from
Export Water System Ruptures**

Two of seven new 30-inch valves
have been installed, tested, and
are currently operating in manual
mode



U Plant Waste Sites Remediation



Removal of 200-W-42 vitrified clay pipeline
(VCP) and other interferences

Overview

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

- Central Plateau Remediation (CPR) (M. B. Lackey), and
- Reliability Projects (R. G. Slocum).

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

Notable Accomplishments

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

Central Plateau Remediation Projects:

U Plant Waste Sites Remediation

- Removal of 200-W-42 vitrified clay pipeline (VCP) and other interferences
 - Completed excavation of approximately 700 feet of 200-W-42 pipe in Phase II, and over 900 containers have been transported to the Environmental Restoration Disposal Facility (ERDF) as of July 20, 2006

Closure Projects

- Finished 216-Z-9 slant borehole drilling and completed well construction for vapor extraction
- Completed additional geophysical surveys and initial passive soil vapor sampling for 200-SW-2 waste sites

Reliability Projects:

- Project L-325A, Phase 2, Install 13.8kv Tie Line from A-8 to A-7 Substation
 - Initiated construction on June 26, 2006
- L-334, Minimize Potential Environmental Impacts from Export Water System Ruptures
 - Two of seven new 30-inch valves have been installed, tested, and are currently operating in manual mode

FY 2006 Funds vs. Spend Forecast (\$M)

	Projected FY 2006 Funding	FY 2006 Fiscal Year Spend Forecast	Variance
RL-0040 Nuclear Facility D&D, Remainder of Hanford	\$ 66.6	\$ 62.3	\$ 4.2
Total	\$ 66.6	\$ 62.3	\$ 4.2

FY 2006 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	\$37.7	\$43.1	\$37.0	\$5.4	14.3%	\$6.1	14.1%	\$55.6
Total	\$37.7	\$43.1	\$37.0	\$5.4	14.3%	\$6.1	14.1%	\$55.6

Numbers are rounded to the nearest \$0.1M.

Schedule Performance (+\$5.4M/+14.3%):

The favorable schedule variance (SV) for Central Plateau Remediation Project (CPR) (+\$0.9M) is primarily due to close out of post contract period no action waste sites (+\$1.8M), completion of FY 2005 carryover work scope: PUREX NESHAPs, B Plant filter change out, Haul Road Construction, and Ecological Sample Analysis (+\$1.2M), and progress in demolition of post-contract industrial facilities (+\$0.2M). This is offset by delays in submittal of the 218-W-4B SAP (-\$0.2M), delays in completing the Phase III Ecological Sampling DQO and follow on sample activities (-\$0.3M), delays in the Sampling and Analysis Plan (SAP) for 200-MW-1, Miscellaneous Waste Group (-\$0.2M), delays in the Data Quality Objective (DQO) and Phase II surface investigation for 200-SW-1/2, Non-Radioactive/Radioactive Landfills and Dump Group (-\$0.6M), and delays in the DQO and follow-on characterization for 200-IS-1, Tanks/Boxes/Pits/Lines Group (-\$1.0M).

Recovery Plan: The completion of the 218-W-4B SAP schedule is recoverable. Central Plateau Remediation work scope is projected to carry over into FY 2007 for the Ecological Sampling activities, the 200-MW-1, 200-SW-1, and 200-IS-1 field work.

The favorable SV for Reliability Projects (+\$4.5M) is primarily due to progress on prior-year carryover work scope: completed Project L-325, "A-8 Substation," (+\$5.0M), Project L-334, "Minimize Potential Environmental Impact from Export Water System Ruptures," (+\$0.6M), Project L-580, "Trunking Hanford's Secured Radio System," (+\$0.2M), Project L-304, "Hanford Site Emergency Alerting System" (+\$0.5M), and L-573, "Infrastructure Footprint Reduction & Consolidation" (+\$0.1M).

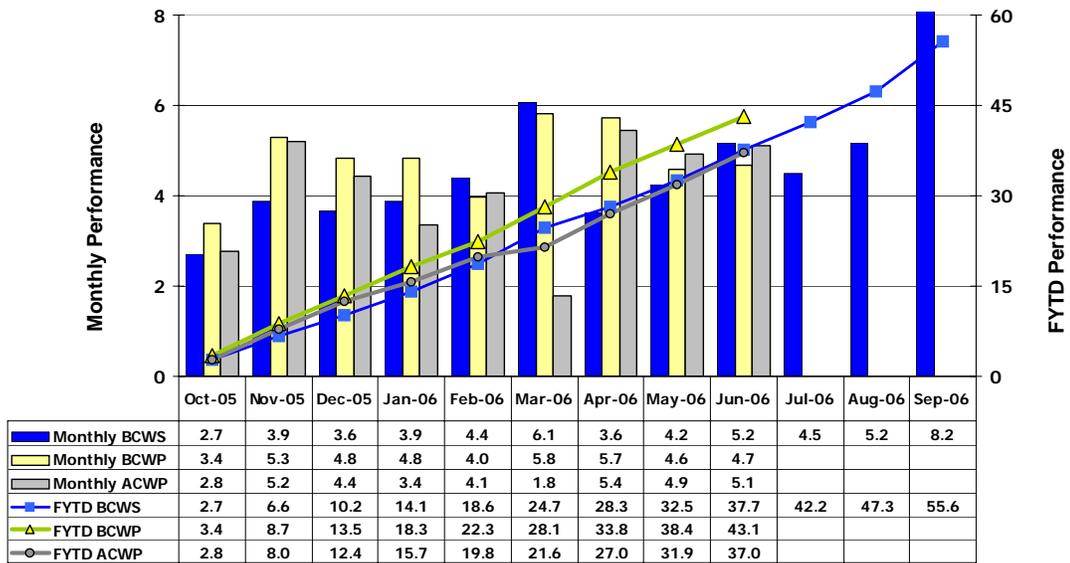
Schedule progress on prior year projects was offset by delays on Project L-325A, "Tie Line from A-8 to A-7" (-\$2.0M), due to environmental regulatory requirements and unavailability of survey group resources to perform design modifications.

Cost Performance (+6.1M/+1.4%):

The favorable cost variance (CV) for CPR (+\$6.5M) is primarily the result of closing out post-contract period no action waste sites at no cost (+\$1.8M), efficiencies in the haul road construction (+\$0.6M), Surveillance and Maintenance (+\$0.3M), and Project Management and Support (+\$0.3M), and a variance distribution for PBS RL-40 (+\$3.4M).

The unfavorable CV for Reliability Projects is associated with increased cost of materials on L-334 and L-573 (-\$5M).

Performance Analysis
FYTD and Monthly (\$M)



Milestone Achievement

MSN	Title	Type	Due Date	Actual Date	Forecast Date	Status / Comments
WMG-06-001 M-091-40L-008	M-91-40L.2.D Submit Quarterly Burial Ground Vent and substrate Sample	HQ	12/01/05	11/08/05		Completed ahead of schedule
TRP-04-324	Issue Action Memorandum for U Plant Ancillary Facilities	RL	12/31/05	01/23/04		Completed ahead of schedule
TRP-04-323	Issue Record-of-Decision for Canyon Disposition Initiative	RL	12/31/05	10/03/06		Completed ahead of schedule
TRP-03-260 M-015-46A	200 Area Chemical Lab Waste OUs Remedial Investigation Report.	HQ	02/28/06	02/28/06		Completed on schedule
WMG-06-005 M-091-40L-009	M-91-40L.3.A Submit Quarterly Burial Ground Vent and substrate Sample	HQ	03/15/06	02/09/09		Completed ahead of schedule
TRP-03-248 M-020-39	Submit 216 S-10 Pond and Ditch Closure Plan to Ecology	HQ	03/31/06	03/30/06		Completed ahead of schedule
TRP-03-245 M-015-39C	Submit 200-CS-1 Chemical Sewer Group FS and Submit PP/Proposed RCRA Permit Mod	HQ	03/31/06	03/30/06		Completed ahead of schedule
TRP-04-320	Demolish Ten U Plant Ancillary Facility Structures	RL	03/31/06	09/07/05		Completed ahead of schedule
TRP-04-321	Demolish 10 B Plant Structures	RL	03/31/06	09/14/04		Completed ahead of schedule
TRP-03-257 M-020-33	Submit Closure/Post Closure Plans for 216-A-10 Crib, Etc.	HQ	04/30/06	04/27/06		Completed ahead of schedule
TRP-03-263 M-015-44A	200-MW-1 OU Remedial Investigation Report	HQ	04/30/06	04/28/06		Completed ahead of schedule

Milestone Achievement, continued

MSN	Title	Type	Due Date	Actual Date	Forecast Date	Status / Comments
TRP-03-254 M-015-43C	Submit 200-PW-2 OU FS & Proposed Plan/Proposed RCRA Permit Mod	HQ	05/31/06	05/31/06		Completed on schedule
WMG-06-006 M-091-40L-010	M-91-40L.3.B Submit Quarterly Burial Ground Vent and substrate Sample	HQ	06/15/06	05/31/06		Completed ahead of schedule
WMG-06-007 M-091-40L-011	M-91-40L.3.C Submit Quarterly Burial Ground Vent and substrate Sample	HQ	09/15/06			On schedule
TRP-04-322	Demolish 12 additional B Plant Structures	RL	09/30/06	09/14/04		Completed ahead of schedule
WMG-05-010 M-091-40J	M-91-40J Update 218-W-3A SAP	HQ	45 day before field work begins			On schedule
WMG-05-009 M-091-40I	M-91-40I Update 218-W-4B SAP	HQ	45 day before field work begins			On schedule
D&D Project Performance Objectives	Demolition of five facilities (2707E, 2713E, 2715E, 2719E, & 2722E) to slab on grade.	RL	09/30/06			On schedule
D&D Project Performance Objectives	Remediation of two 200-UW-1 Operable Unit waste sites (200W-42 vitrified clay pipeline/UPR 200-W-163) in the U-Plant Regional Closure Area as identified in the waste site proposed plan	RL	09/30/06			On schedule
D&D Project Performance Objectives	Data Quality Objectives (DQO) and respective Sampling and Analysis Plans (SAPs) for model groups 2-7 that integrate groundwater and source unit needs.	RL	09/30/06			On schedule
D&D Project Performance Objectives	Slant borehole at 216-Z-19 Trench and delivery of the 200-PW-1 Draft A, Remedial Investigation Report to RL	RL	09/30/06			On schedule
TRP-06-001 M-015-45A	Submit 200-PW-1 OU Remedial Investigation Report	HQ	10/31/06		10/15/06	Forecast ahead of schedule
TRP-03-266 M-015-46-B	200 Area Chemical Laboratory Waste Ous Feasibility Study	HQ	11/30/06			On schedule
WMG-07-001 M-091-40L-012	M-91-40L.3.B Submit Quarterly Burial Ground Vent and substrate Sample	HQ	12/15/06			On schedule