

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

Completed Demolition of Five 200-E Buildings



L-325A, A-8 to A-7 Tipline, cable installation



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 August 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 200-W-42 pipe; 1398 cans (~18 ton each) transported to the Environmental Restoration Disposal Facility (ERDF). Approximately 69 percent of these cans are associated with lateral spread of contaminants for 200-W-42 VCP.
 - Backfilled trench between U-8 and U-12 cribs ~100 percent using ERDF stockpiles
 - Developed backfill concurrence for trench north of U-8
 - Completed sampling of Phase II Piping. Results expected to exceed maximum contamination level (MCL) requiring additional analysis and actions
 - Developed plan for contamination less than 15 feet deep

Closure Projects

- Completed additional radiological surveys for waste sites in 200-SW-2 Radioactive Landfills and Dumps Group Operable Unit
- Completed small mammal and invertebrate sampling for the Central Plateau Ecological Risk Assessment
- Submitted Phase II Ecological Sampling and Analysis Plan to RL for transmittal to the regulators for approval
- Submitted 216-A-4 Sampling and Analysis Plan to RL for review and transmittal to EPA for review

D&D Projects

- As of September 11, 2006, completed demolition of five miscellaneous 200-E buildings

Reliability Projects:

- Project L-573, "Infrastructure Footprint Reduction and Consolidation"
 - Completed shop construction on August 26, 2006
- Radio Fire Alarm Reporting (RFAR) Replacement Project
 - Completed installation of transceivers and receivers on August 24, 2006
- Hanford Railroad System
 - Completed third-party inspection of active rail system on August 18, 2006
 - Baseline change request for costs of inspection, restarting, and ongoing maintenance submitted to RL on August 30, 2006

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	\$ 68.1	\$ 56.4	\$ 11.7
Total		\$ 68.1	\$ 56.4	\$ 11.7

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	\$44.9	\$55.7	\$49.8	\$10.8	24.0%	\$5.9	10.7%	\$52.8
Total		\$44.9	\$55.7	\$49.8	\$10.8	24.0%	\$5.9	10.7%	\$52.8

Numbers are rounded to the nearest \$0.1M.

Schedule Performance (+\$10.8M/+24.0%):

The favorable schedule variance (SV) for Central Plateau Remediation Project (CPR) (+\$4.0M) is primarily due to close out of post contract period no action waste sites (+\$3.0M), completion of FY 2005 carryover work scope (+\$1.2M), and progress in demolition of post-contract industrial facilities (+\$0.6M). This is offset by delays in Data Quality Objective (DQO) for Model Groups (-\$0.2M), delays in the DQO and Phase II surface investigation for 200-SW-1/2, Non-Radioactive/Radioactive Landfills and Dump Group (-\$0.2M), and other delays in miscellaneous waste (-\$0.4M).

Recovery Plan: Central Plateau Remediation work scope is projected to carry over into FY 2007 for the 200-SW-1/2 field work, and the model groups DQO.

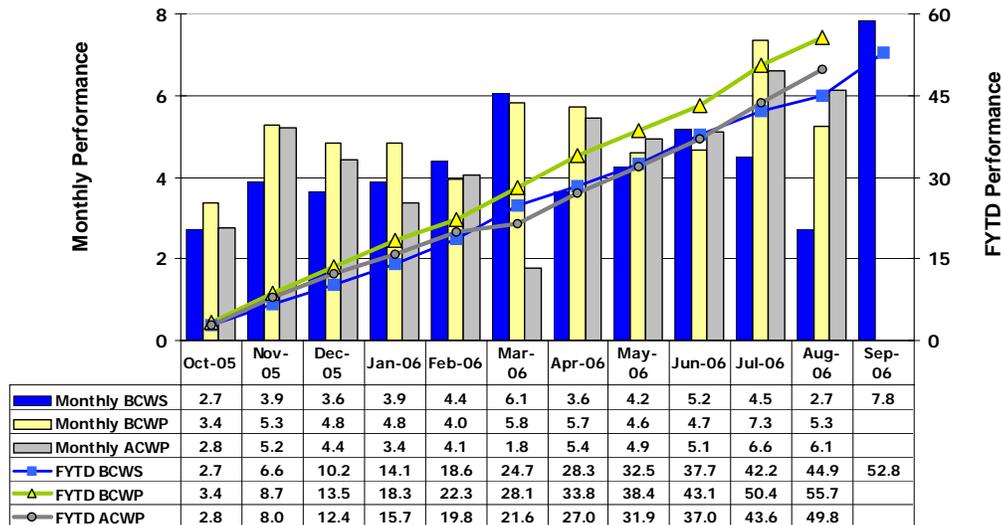
The favorable SV for Reliability Projects (+\$6.8M) is primarily due to progress on prior-year carryover work scope: L-325, "A-8 Substation," (+\$5.0M), L-334, "Minimize Potential Environmental Impact from Export Water System Ruptures," (+\$0.7M), L-304, "Hanford Site Emergency Alerting System," (+\$0.5M), L-580, "Trunking Hanford's Secured Radio System," (+\$0.2M), L-573, "Infrastructure Footprint Reduction and Consolidation," (+\$0.2M), RFAR Replacement project (+\$0.2), and guzzler replacement (+\$0.1M) offset by L-598, "Near Term Repairs – Four Repeater Facilities," cultural review delays (-\$0.2M).

Cost Performance (+5.9M/+10.7%):

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 (+\$3.2M), efficiencies in the 200-SW-1/2, Non-Radioactive/Radioactive Landfills and Dump Group field work (\$+0.5), efficiencies in the haul road construction (+\$0.6M), Surveillance and Maintenance staffing efficiencies and loaned labor to higher priority projects (+\$0.3M), Project Management and Support staffing efficiencies and resources supporting non-D&D work scope (+\$0.3M), and a variance distribution for PBS RL-40 (+\$3.4M). This is offset by increased ERDF and labor costs for 200-W-42 VCP pipeline removal due to contamination spread (-\$1.8M).

The unfavorable CV for Reliability Projects (-\$0.5M) is primarily due to L-334, "Minimize Potential Environmental Impacts from Export Water System Ruptures," increased cost for Department of Health project report preparation and correction of field conditions (-\$0.2), and L-573 "Infrastructure Reduction and Consolidation," increased steel prices (-\$1.2). These cost overruns are offset by completion of L-325, "A-8 Substation," project under cost (+\$0.2), favorable bids for L-325A, "A-8 to A-7 Tieline Installation," (+\$0.8M), and closure services allocation (+\$0.1M).

Performance Analysis
FYTD and Monthly (\$M)



Milestone Achievement

PBS	MSN	Title	Type	Due Date	Actual Date	Forecast Date	Status / Comments
RL-0040	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
RL-0040	TRP-04-324	Issue Action Memorandum for U Plant Ancillary Facilities	RL	12/31/05	01/23/04		Completed ahead of schedule
RL-0040	TRP-04-323	Issue Record-of-Decision for Canyon Disposition Initiative	RL	12/31/05	10/03/06		Completed ahead of schedule
RL-0040	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
RL-0040	WMG-06-005 M-091-40L-009	M-91-40L.3.A Submit Quarterly Burial Ground Vent and substrate Sample	HQ	03/15/06	02/09/06		Completed ahead of schedule
RL-0040	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
RL-0040	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
RL-0040	TRP-04-320	Demolish Ten U Plant Ancillary Facility Structures	RL	03/31/06	09/07/05		Completed ahead of schedule
RL-0040	TRP-04-321	Demolish 10 B Plant Structures	RL	03/31/06	09/14/04		Completed ahead of schedule
RL-0040	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
RL-0040	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

PBS	MSN	Title	Type	Due Date	Actual Date	Forecast Date	Status / Comments
RL-0040	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
RL-0040	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
RL-0040	WMG-06-007 M-091-40L-011	M-91-40L.3.C Submit Quarterly Burial Ground Vent and substrate Sample	HQ	09/15/06	07/21/06		Completed ahead of schedule
RL-0040	TRP-04-322	Demolish 12 additional B Plant Structures	RL	09/30/06	09/14/04		Completed ahead of schedule
RL-0040	WMG-05-010 M-091-40J	M-91-40J Update 218-W-3A SAP	HQ	45 day before field work begins			On schedule
RL-0040	WMG-05-009 M-091-40I	M-91-40I Update 218-W-4B SAP	HQ	45 day before field work begins			On schedule
RL-0040	D&D Project Performance Objectives	Demolition of five facilities (2707E, 2713E, 2715E, 2719E, & 2722E) to slab on grade.	RL	09/30/06	09/11/06		Completed ahead of schedule
RL-0040	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
RL-0040	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	11/30/06		11/30/06	Request for contract adjustment to slip completion date to 11/30/06 was tentatively approved by RL contracting officer on 9/7/06
RL-0040	D&D Project Performance Objectives	Slant borehole at 216-Z-9 Trench and delivery of the 200-PW-1 Draft A, Remedial Investigation Report to RL	RL	09/30/06			On schedule
RL-0040	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
RL-0040	TRP-03-266 M-015-46-B	200 Area Chemical Laboratory Waste Ous Feasibility Study	HQ	11/30/06			On schedule
RL-0040	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