

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

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BC Control Area

*Queue being prepared
for the survey tent*



*Mobile offices delivered at the
west end of the queue*

B-26 Trench (BC Cribs)



Overview

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

- Deactivation & Decommissioning (D&D) [R. E. Wilkinson],
- Waste Sites Remediation [B. H. Ford], and
- Reliability Projects [R. G. Slocum].

NOTE: Unless otherwise noted, all information contained herein is as of the end of April 2008.

Notable Accomplishments

Deactivation and Decommissioning

231-Z Inventory Reduction

- Documented Safety Analysis (DSA) transmitted to RL for approval.
- Secured IP-2 containers for glovebox transport under the PFP glovebox One Time Request for Shipment (OTRS). The Type A container contract has been put on hold, pending cancellation, upon satisfactory inspection of the IP-2s.

BC Control Area

- Access road construction complete May 5, 2008.
- Cultural/Historical and Ecological/Biological reviews for Zone A of the BC Control Area (BCCA) report is out for internal review.
- BCCA Engineering Evaluation/Cost Analysis (EE/CA): FH has formulated responses for the public comments and has forwarded them to RL for review and comment. Additionally, FH has sent the Action Memorandum to RL for review. The Remedial Action Work Plan (RAWP) is being prepared at this time.

Waste Site Remediation

- Received approved Tri-Party Agreement (TPA) change package for MG-1/2 EE/CA.
- Completed 20 direct pushes (DPTs) at Gable Mountain Pond, and initiated DPTs at S-17 Pond.
- Received regulator approval of TW-1/PW-5 Site Specific Sampling Plans (SSSPs).
- Received regulator approval of PW-2/4 SSSP for A-5 and S-1/2.
- Conducted Tri-Parties workshop with Tribal Nations/public on potential Transuranic (TRU) remedies for PW-1.
- Received regulator approval of IS-1 Sampling Analysis Plan (SAP); initiated field work preparations.
- Completed A-30 and S-6 boreholes for SC-1.

Reliability Projects

- Completed Project L-449, *Mortar 12-Inch Water Line from 4th Street and Baltimore to 57th and Baltimore*, definitive design on April 30, 2008.
- 2005 Energy Policy Act / Energy Management Activities
 - Completed Western Electric Coordination Council (WECC) self certification for load-serving and distribution provider entities on April 10, 2008.
 - Submitted regional transmission availability database (TADS) to WECC on April 30, 2008.
- Completed final draft of L-326, *South Hanford Consolidated Fire Station*. Mission Needs Document on April 30, 2008.

FY 2008 Funds vs. Spend Forecast (\$M)

	Projected FY 2008 Funding	FY 2008 Fiscal Year Spending Forecast	Variance
RL-0040 Nuclear Facility D&D, Remainder of Hanford	\$ 86.8	\$ 81.8	\$ 5.0

Schedule/Cost Performance (\$M)

Nuclear Facility D&D, Remainder of Hanford	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 (FY08/CTD)
Current Period (Month)	\$3.3	\$6.0	\$5.0	\$2.7	81.2%	\$1.0	16.6%	\$73.7
Cumulative-to-Date (FY 2004-Present)	\$286.5	\$283.0	\$278.0	-\$3.5	-1.2%	\$5.0	1.8%	\$329.3

Numbers are rounded to the nearest \$0.1M.

CTD Schedule Performance (-\$3.5M/-1.2%):

The favorable schedule variance (SV) for the D&D Project (+\$0.2M) is within established thresholds.

The unfavorable SV for Waste Site Remediation (-\$3.0M) is due to regulator delays in approving documents required to initiate waste site characterization field activities.

The unfavorable SV for Reliability Projects (-\$0.7M) is associated with the delayed approval of Memorandum of Agreement with Tribes required to initiate *L-614, Repeater Sites Safety Renovations*, construction activities, and the delay in roof renovations because of weather.

CTD Cost Performance (+\$5.0M/+1.8%):

The favorable cost variance (CV) for D&D (+\$3.6M) is primarily due to the following:

- Prior year cost overruns in 200-UW-1 U Zone Waste Site Remediation (-\$4.4M) resulting from:
 - Additional direct push sampling during field investigation to determine contamination levels.
 - Greater than planned effort to resolve Feasibility Study/Planning Package (FS/PP) comments and Remedial Design SAP.
 - Delays in barrier construction without reductions in staffing levels.
 - Lateral spread of contamination at 200-W-42 resulting in more waste containers being shipped to the Environmental Restoration Disposal Facility (ERDF) than planned.
- Deactivation and Decommissioning small excavator accrual for less than the full amount. The remainder will be accrued in May (+\$0.1M).
- Surveillance and Maintenance prior year efficiencies in staff resulting from not replacing budgeted staff and loaned labor to higher priority projects within D&D. Also due to lower than planned corrective maintenance in prior years for 209E and B Plant (+\$3.0M).
- Project Management and Support prior and current year variance distributions (passbacks) (+5.0M).

Schedule/Cost Performance (\$M), continued

CTD Cost Performance (+\$5.0M/+1.8%):

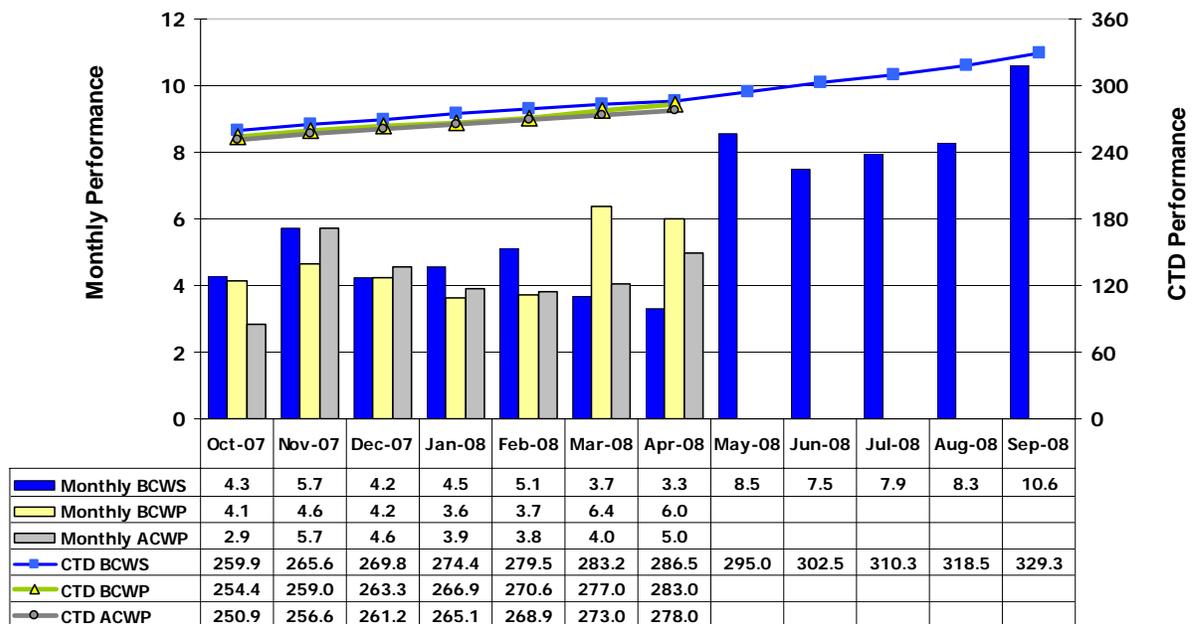
The favorable CV for Waste Site Remediation (+\$0.5M) is due to favorable variance distributions and prior year project management savings offset by prior year increased costs associated with high-risk boreholes.

The favorable CV for Reliability Projects (+\$0.4M) is primarily due to the following:

- Efficiencies and favorable bids in prior year electrical projects (+\$1.5M), road refurbishments (+\$0.7M), capital equipment procurements (+\$1.0M), Real Estate and Site Planning (+\$0.3M), and Project L-429, *12-Inch Water Line Mortar Lining Along 4th Street from Baltimore to Canton*, (+\$0.5M). Offset by increase in steel prices for prior year facility and water projects (-\$3.1M), and prior year telecommunication projects technology deployment (-\$0.5M).

The favorable CV for Closure Services (+\$0.5M) is within established thresholds.

Performance Analysis
CTD and Monthly (\$M)



Milestone Achievement

Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) milestones represent significant events in project execution. DOE Enforceable Agreement milestones were established to provide high-level visibility to critical deliverables and specific status on the accomplishment of these key events. The FY 2008 Enforceable Agreement milestone information provided herein is based upon the current baseline including RL-approved changes. Changes from month-to-month in both the total number of milestones to be completed and in the forecast status of upcoming milestones are the result of BCRs approved during the reporting period.

Number	Title	Type	Due Date	Actual Date	Forecast Date	Status / Comments
CPDD-07-004	212-N nuclear facility hazard reduction and downgrade completed	RL	11/30/07	10/25/07		Complete
M-091-40L-016	M-91-40L.4.D Quarterly Burial Ground vent/substrate sampling results (1st Qtr 2008)	HQ	12/15/07	11/21/07		Complete
CPDD-07-008	Complete Construction of Project L-626, 100B-A Water System Enhancement	RL	12/31/07	12/11/07		Complete
M-091-40L-017	M-91-40L.5.A Quarterly Burial Ground vent/substrate sampling results (2nd Qtr 2008)	HQ	3/15/08	2/25/08		Complete
CPDD-07-0010	Complete phase one of the BC Cribs and Trenches Treatability Test Plan	RL	3/30/08	3/28/08		Complete
CPDD-08-001	241-U-361 Settling Tank Characterization and Sampling completed	RL	3/31/08	3/4/08		Complete
M-091-40L-018	M-91-40L.5.B Quarterly Burial Ground vent/substrate sampling results (3rd Qtr 2008)	HQ	6/15/08		6/15/08	On schedule
CPDD-08-004	Complete phase 2a of the BC Cribs and Trenches Treatability Test Plan	RL	7/31/08		7/31/08	On schedule
M-15-40D	Submit Revised Feasibility Study Report and Revised Proposed Plan for the 200-CW-5 OU	HQ	7/31/08		7/31/08	On schedule
M-091-40L-019	M-91-40L.5.C Quarterly Burial Ground vent/substrate sampling results (4th Qtr 2008)	HQ	9/15/08		9/15/08	On schedule
CPDD-08-003	Complete characterization of potential contamination plume in the BC Cribs and Trenches	RL	9/30/08		9/30/08	On schedule
CPDD-08-006	Complete 231Z nuclear facility hazard reduction	RL	9/30/08		8/27/08	Ahead of schedule
CPDD-08-011	Excavate 20,000 tons of contaminated Soil at BC Control Area	RL	9/30/08		9/9/08	Ahead of schedule
CPRP-08-001	Complete construction for Project L-641, 273E Safety Enhancements	RL	10/31/08		9/30/08	Ahead of schedule
CPRP-08-002	Complete construction for Project L-645, 100N Hanford Fire Department Potable Water System	RL	11/26/08		11/26/08	On schedule