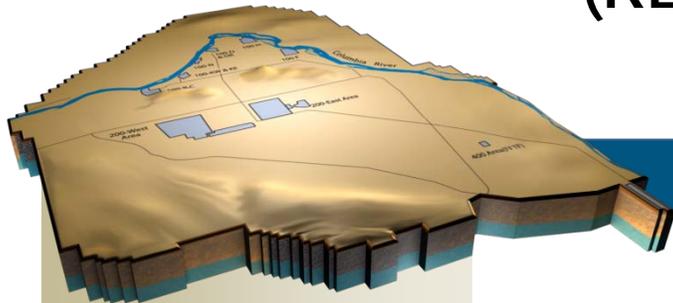


Section E Nuclear Facility D&D, Remainder of Hanford (RL-0040)



Monthly Performance Report

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U Canyon Cell Loading

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DOE/RL-2008-69, Rev. 16
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

American Recovery and Reinvestment Act (ARRA)

Demolition of the U Plant Ancillary facilities continued with asbestos abatement and demolition preparation ongoing in 224U and 224UA.

Sampling of the soil beneath the structures for 212-N/P/R Project has been completed. Analytical results are being summarized and reports are being prepared. Continued on the lower Arid Lands Ecology (ALE) structures and demolition has begun; continued with the utility isolation activities for the upper ALE structures. Debris pile sites cleanup activities are continuing.

Equipment size reduction activities are continuing for U Canyon.

Completed Cold and Dark of three buildings for the 200-E Project.

Remediation activities continued in the outer zone at BC Control area, CW-3 waste sites, and MG-1 waste sites. BC Control area remediated approximately 19,700 tons of soil in February; approximately 14 acres of BC control area, Zone A have been cleared to date. In Zone B, 570 acres have been radiologically down posted. Excavation at one CW-3 waste site (216-N-4) continued with approximately 5,637 tons of soil removed during February. Sampling/surveys have been completed on seven of the eleven Model Group (MG)-1 sites.

Base

Planned surveillance and maintenance (S&M) activities continue. Preparations continue to allow change out of the B Plant high-efficiency particulate air (HEPA) and pre-filters.

Continued disposition evaluation of the D-10 tank in Cell 30 for movement to the Central Waste Complex.

EMS Objectives and Target Status

Objective #	Objective	Target	Due Date	Status
10-EMS-D&D-OB2-T2	Mitigate spill impacts	1) Develop spill management tools for routine activities (building demolition and S&M)	03/31/10	On Schedule
		2) Evaluate the need for lower tier project procedures to implement the PRC spill response procedure	04/30/10	On Schedule
		3) Develop and provide awareness, prevention, response and mitigation training to >85% of project personnel as related to spill response	05/30/10	On Schedule
		4) Review and validate pre-designations for commonly used chemicals at the facility	06/30/10	On Schedule
		5) Incorporate new spill requirements into applicable procedures/work packages based upon issuance of spill response procedure	04/30/10	On Schedule
		6) Evaluate the need for a system to pre-designate new chemicals	06/30/10	On Schedule

TARGET ZERO PERFORMANCE

	CM Quantity	FYTD Quantity	Comment
Days Away, Restricted or Transferred	0	0	N/A
Total Recordable Injuries	0	1	N/A
First Aid Cases	7	27	<p>02/02/10 Rigger reported falling while trying to sit down, chair fell over causing worker to miss it when sat down. Worker did not feel the need to go to AMH at the time. Reported on 02/22/10 ongoing back and neck pain to supervisor and decided to seek treatment with AMH. Examined and released by AMH with no restrictions. (20723)</p> <p>02/03/10 D&D worker after working on a roof and cleaning up paint chips went to lunch. After lunch, the worker felt stiffness in back and left knee. The worker notified supervisor and was taken to AMH for evaluation. Worker was given OTC meds and returned to work with no restrictions related to this event. (20687)</p> <p>02/08/10 D&D worker, walking on uneven ground doing debris cleanup, stepped in a slightly depressed area, strained back. Reported to supervisor and was taken to AMH for evaluation. Worker was treated and released without restrictions. (20698)</p> <p>02/10/10 Employee cut finger on back of truck seat. (20709)</p> <p>02/12/10 NCO working debris removal, backed into emergency light when pole tool unexpectedly released from debris. Bruised back of hip. Employee and supervisor elected to self-treat. (20715)</p> <p>02/22/10 Employee bumped head on John Deer Gator front windshield. (20722)</p> <p>02/22/10 Employee's PAPR unit battery failed and shut off.(20726)</p> <p>02/23/10 D&D worker dropped a can of spray glue in the gravel. A hole was made in the can which then sprayed glue onto the lower part of the worker's body. The worker took a shower per MSDS instructions. The worker and supervisor elected to self-treat. On 02/24/10, the worker reported a rash at the lower leg level. Worker went to AMH instructed to obtain OTC ointment and released to work without restrictions. (20731)</p>
Near-Misses	0	0	N/A

KEY ACCOMPLISHMENTS

ARRA

- U Plant Regional Closure Zone (U Ancillary Facilities D&D)
 - Continued demolition preparation activities in 224U and 224UA
 - Continued asbestos abatement activities in 224U and 224UA
- U Canyon Demolition and Cell 30 Disposition
 - Equipment size reduction activities continue
 - Started cost estimates and schedules for the disposition of Cell 30 Baseline Change Request
- 212-N/P/R Buildings D&D
 - The report for the sampling of soil beneath 212-N/P/R is being prepared. After the report is approved, backfilling of the excavations can proceed.
- 200-E Project
 - Completed Cold and Dark of three buildings
 - Started asbestos abatement in 272E
- 200-CW-3 Waste Sites Sampling
 - Excavation of the second remove, treat, and dispose (RTD) site (216-N-4) continued in February. Approximately 8,300 tons of soil has been removed and transferred to the Environmental Restoration Disposal Facility (ERDF).
 - Closure Documents for sites 2607-N/P/R are being prepared
 - Verification samples were collected from waste site 216-N-1 on January 29, 2010. The samples have been analyzed and no further remedial action is required.
- ALE D&D
 - Began demolition activities on the lower ALE facilities
 - Began asbestos abatement activities on Upper ALE facilities
 - Began debris pile removal on lower ALE
- BCCA Waste Site Remediation
 - Remediation using super dump trucks continued with approximately 50,000 tons cumulative to date of soil removed and transferred to ERDF
 - As a result of the helicopter survey and on-going radiological surveys per the Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM), 570 acres in the 6.7 square mile Zone B have been radiologically down-posted
- MG-1
 - The Response Action Completion Report for 200-E-110 and 600-21 was submitted to DOE on February 23, 2010
 - Analysis of sampling data for 600-51 indicates RTD is not required. Closure documents for site 600-51 and 200-E-101 are being prepared.
 - Preparations for RTD of site 600-40 are ongoing with an anticipated start during March
 - The Action Memorandum for the next MG-1 sites is at DOE for initial review. The RAWP has been forwarded for concurrent internal and DOE review.
 - Site 600-218 Confirmatory Sampling No Further Action (CSNFA) sample results indicate RTD is required. Additional sampling has been performed to evaluate the extent of RTD.
 - Verification sampling of site 600-36 was performed in February to determine whether remediation is complete. Post RTD sampling results for site 600-36 are being reviewed; initial screening appears favorable.
 - CSNA sampling of site 600-262 was performed at depth utilizing an auger. Results are pending.
 - The SI was finalized for 600-38. Sampling will be performed in early March

Base

- S&M
 - Continued effort for the B Plant HEPA and pre-filter change-out

MAJOR ISSUES

Issue Statement – Determination of a disposition path for the D-10 tank in Cell 30 has potential to be major impact on the U Canyon disposition schedule.

Corrective Action – CHPRC is working to define an alternate disposition path.

Status – Parallel activities of equipment placement continue.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk

● Working - No Concerns Increased Confidence
● Working - Concern No Change
● Working - Critical Decreased Confidence

Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
D4-U-002: U Plant Cell 30 Tank (Redox D-10 Process Vessel) Found to be High-Level Waste		●		Risk closed 1/21/10.
D4-U-003: Planned U Plant Cell 30 Holdup Material Disposition is Outside Baseline Assumption	Sample Cell 30 tank contents early; develop Cell 30 disposition path to reflect sampling results	●		Realized risk; tank content disposition different than baseline plan; Cell 30 tank to be removed and transferred to T Plant pending final disposition; re-planning and BCR in process.
D4-U-004: U Canyon Technical Approach Changes	Conduct detailed planning/engineering to identify areas of concern and to minimize schedule impacts	●		Detailed planning in process; BCR in preparation
D4-020: Unexpected Condition/Radiological Contamination at Industrial Facilities	Perform early radiological surveys	●		No significant impacts at this time.
D4-042: Unexpected Site Conditions - D4	Conduct early facility walkdowns and characterization activities to minimize schedule impacts; interview "old-timers" and compare recollections to historic records; conduct document searches to minimize potential for surprises	●		No issues at this time.
D4-044: Unforeseen Waste Site Event	Perform routine surveillance & maintenance of waste sites, including herbicide applications and rad surveys; include allowance in baseline for corrective actions identified during routine surveillance	●		No issues at this time.
D4-043: Unforeseen Facility Event Impacts Safety or Environment	Include corrective maintenance in baseline based upon historic experience; risk accepted without further mitigation	●		No issues at this time.
WSR-006: Decision Document Approval Delays	Work with RL and regulators to establish priorities and need dates	●		Working concern.
WSR-007A: More Extensive Contamination Than Expected	Cannot control contamination extent; no mitigation	●		Risk level reflects project life worst case impact of \$60M; individual waste site risks are moderate. Risk being realized for BCCA Zone A/B
WSR-008: No Action Waste Sites	Using L-8 table data; no mitigation	●		Risk realized for 200-MG-1, 600-36, 218 and UPR 600-12
WSR-021: Remediation Subcontractor Performance	Investigate subcontractor's past performance prior to contract award	●		Probability reduced through mitigation; impact unchanged
WSR-028: Unexpected Liquid in Pipelines/Tanks	Anticipate liquids in field work plans; include spill response plans in RD/RAWPs	●		No issues encountered to date.
WSR-030: NRDWL Barrier (RCRA vs. ET-Mono)	Draft closure plan and L-8 table show ET-Mono; no mitigation	●		Ecology comments on the draft closure plan indicates their acceptance of an ET Barrier; therefore risk probability should be low until final closure plan is approved; at this point the risk will be re-reviewed.
WSR-042: Multi-Incremental Sampling - Increased Waste Sites	MIS Project designed to meet requirements; no further mitigation warranted	●		No issues at this time.
WSR-043: Multi-Incremental Sampling - Hazard Categorization	Adjust baseline cost/schedule to reflect Haz Cat III categorization	●		No issues at this time.

PROJECT BASELINE PERFORMANCE

Current Month

(\$M)

WBS 040/RL-0040 Nuclear Facility D&D	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 (BAC)
ARRA	8.2	10.3	8.3	2.1	26.4	2.0	19.4	284.7
Base	<u>1.2</u>	<u>1.3</u>	<u>1.2</u>	<u>(0.0)</u>	2.4	<u>0.0</u>	4.2	<u>971.0</u>
Total	9.4	11.6	9.5	2.1	23.2	2.0	17.7	1,255.7

Numbers are rounded to the nearest \$0.1M.

ARRA

CM Schedule Performance: (+\$2.1M/+26.4%)

ARRA RL-0040.R1.1 U Plant/Other D&D

The favorable schedule variance is due to a D4 1200 Excavator (capital equipment) originally scheduled for delivery in January was not received until February (+\$1.5M). In addition, the 209E Project has a \$0.3M positive variance due to the implementation of BCR-R40-10-003R0 this month. The BCR removed funds for the purchase of standard waste boxes (SWBs) and a point adjustment was made. The U Canyon Project recalculated the method of performance on clearing the canyon deck workscope; the result was a positive variance of \$0.3M.

CM Cost Performance: (+\$2.0M/+19.4%)

ARRA RL-0040.R1.2 Outer Zone D&D

The favorable cost variance for waste sites (+\$0.4M) is primarily related to lagging ERDF costs. The February billing represented 14,305 tons, but the shipping logs indicated 18,906 tons were shipped.

ARRA RL-0040.R1.1 U Plant/Other D&D

The U Ancillary Project current month overrun of (-\$0.5M) is due to using more resources than planned to recover schedule and inefficiencies related to delays from respirator operation issues and new scaffolding requirements. This is offset by (+\$1.2M) with efficiencies gained with the ALE Project (D4) due to the lack of asbestos abatement required, efficiencies with U Canyon Project (+\$0.4M), capital equipment costs lower than budgeted (+\$0.4M), and G&A adders overrun by (-\$0.1M).

Base

CM Schedule Performance: (-\$0.0M/+2.4%)

The schedule variance is within reporting thresholds.

CM Cost Performance: (+\$0.0M/+4.2%)

The cost variance is within reporting thresholds.

Contract-To-Date (\$M)

WBS 040/RL-0040 Nuclear Facility D&D	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 (BAC)
ARRA	98.2	95.1	75.8	(3.1)	-3.1	19.3	20.3	284.7
Base	<u>39.7</u>	<u>38.2</u>	<u>33.1</u>	<u>(1.5)</u>	-3.9	<u>5.1</u>	13.3	<u>972.0</u>
Total	137.9	133.3	108.9	(4.6)	-3.3	24.2	18.3	1,256.7

Numbers are rounded to the nearest \$0.1M.

ARRA

CTD Schedule Performance: (-\$3.1M/-3.1%)

ARRA RL-0040.R1.1 U Plant/Other D&D

The negative schedule variance for the D4 Project is caused by late delivery of heavy equipment in the D4 capital equipment account (-\$1.1M), disposal path forward undecided for Cell 30 in the U Canyon (-\$0.3M), 200-E Administration Buildings (-\$0.6M), and U Ancillary Demolition (-\$0.4M) schedule delays due to asbestos abatement/respirator issues. These are offset by the positive schedule variance due to less asbestos abatement being required for the ALE Project (+\$0.7M).

ARRA RL-0040.R1.2 Outer Zone D&D

The unfavorable schedule variance in Waste Sites (-\$1.3M) is a result of delays in the start of field work, project startup learning curve, availability of required equipment, and greater depth of contamination. The BC Control Area remediation (-\$1.0M) is behind schedule due to availability of super dump trucks and the unexpected depth of the contamination. MG-1 waste sites (-\$0.3M) are lagging as a result of initial delays in issuance of cultural review reports and the unanticipated complexity of researching the Old Central Shop Area (OCSA) history.

CTD Cost Performance: (+\$19.3M/+20.3%)

ARRA RL-0040.R1.1 U Plant/Other D&D

The favorable cost variance for the D4 Project is largely due to favorable performance of the cold and dark teams and the sampling and characterization/ waste identification form teams (D4) (+\$3.1M), G&A and direct distributable allocations (+\$7.3M), less for Program Management than planned (+\$0.4M), efficiencies at U-Canyon (D4) (+\$4.0M), less resources than planned for the lower ALE buildings (+\$2.8M) buildings, lower than planned costs for capital equipment (D4) (+\$2.2M), offset by increased material and equipment costs, increased use of masks and respirators due to the unexpected asbestos levels in the ancillary buildings in U Ancillary (D4) (-\$2.3M), coupled with increased insulator staff and overtime to recover schedule and higher MSA (-\$1.3M) costs for Fleet/Training, etc.

ARRA RL-0040.R1.2 Outer Zone D&D

In the waste sites area (+\$2.4M), efficiencies in mobilization gained by changing to direct haul to ERDF, which reduced costs and environmental impacts associated with construction of a container transfer area, and aerial surveying performed on the B Zone resulted in 18 percent of the area being found to be potentially "clean" and requiring limited survey activities. Lower model costs have been realized due to the non-complex nature of the waste sites addressed to date. However, these efficiencies are being offset by higher than planned remediation costs at BC Control Area due to the greater depth of contamination and the larger volume of soil being removed to ERDF.

Base

CTD Schedule Performance: (-\$1.5M/-3.9%)

The negative schedule variance is due to the delayed start of the Cell 30 design (D4).

CTD Cost Performance: (+\$5.1M/+13.3%)

The favorable cost variance is associated with recognized efficiencies for demolition of the Industrial 7 Project (D4) (+\$0.6M) as a result of utilization of existing site equipment and materials; surveillance and maintenance costs (D4) (+\$0.8M) less than expected; completed the sampling of Cell 30 with less resources than planned (+\$0.9M), Program Management utilizing less resources (+\$0.5M), capital equipment (+\$0.6M), Usage Base Services (+\$0.2M) and under-run in G&A and direct distributable allocations (+\$1.0M).

The favorable cost variance for Waste Sites (+\$0.5M) is due to less extensive regulatory support labor required for the U Zone agreement in principal.

Contract Performance Report Formats are provided in Appendix A and Appendix A-1.

**Funds vs. Spend Forecast
(\$M)**

WBS 040/RL-0040 Nuclear Facility D&D	FY 2010		Variance
	Projected Funding	Spending Forecast	
ARRA	144.3	126.2	18.1
Base	<u>25.4</u>	<u>20.9</u>	<u>4.5</u>
Total	169.7	147.1	22.6

Numbers are rounded to the nearest \$0.1M.

Funds/Variance Analysis

Projected Funding includes FY 2009 uncosted and FY 2010 expected new budget authority.

Critical Path Schedule

Critical path analysis can be provided upon request.

Estimate at Completion (EAC)

The BAC and EAC now include FY 2009 through FY 2018, the PRC contract period.

Baseline Change Requests

BCR-R40-10-003R0, Procure SWBs to support 209E Facility Hazard Reduction.

MILESTONE STATUS

None currently identified.

SELF-PERFORMED WORK

The Section H. clause entitled, Self-Performed Work, is addressed in the Monthly Report Overview.

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.