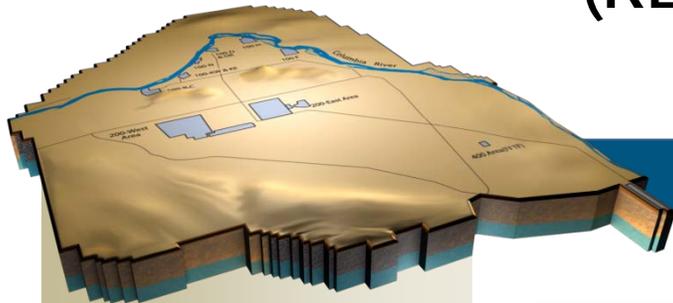


Section E Nuclear Facility D&D, Remainder of Hanford (RL-0040)



Monthly Performance Report

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Loading Equipment into Cell 33 at U Canyon

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.

Demolition activities continued on the lower Arid Lands Ecology (ALE) structures and 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 27,600 tons of soil in March; approximately 20 acres of BC control area, Zone A have been cleared to date. In Zone B, approximately 682 acres have been radiologically down posted. Excavation at one CW-3 waste site (216-N-4) continued with approximately 7,400 tons of soil removed during March. Sampling/surveys have been completed on ten Model Group (MG)-1 sites.

Base

Planned surveillance and maintenance (S&M) activities continue. Change out of the B Plant high-efficiency particulate air (HEPA) and pre-filters was completed on March 12, 2010.

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	Complete
		2) Evaluate the need for lower tier project procedures to implement the PRC spill response procedure	04/30/10	Complete
		3) Develop and provide awareness, prevention, response and mitigation training to >85% of project personnel as related to spill response	05/30/10	Complete
		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	Complete
		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	1	1	03/23/10 – ALE D&D Worker felt pain in lower back while tarping an ERDF can. Worker was released by AMH with no restrictions and was returned to work. Worker then returned to AMH the next day and given a prescription and restrictions. The following day went to personal physician and taken off work for 6 days. (20790)
Total Recordable Injuries	1	3	Same as above.
First Aid Cases	8	37	<p>03/02/10 – NCO felt knee pop when stepped up on running board to truck. Worker was taken to AMH for evaluation and released without restrictions and given non-prescription strength medication. (20740)</p> <p>03/03/10 – D&D worker in ERDF queue area received an insect bite on wrist. Worker and supervisor agreed self-treat was appropriate. (20745)</p> <p>03/11/10 – D&D Teamster loading debris into back of truck when some dirt and animal droppings came out and may have gotten some dust in mouth. Teamster was taken to AMH for evaluation. Worker was returned to work; no restrictions. (20774)</p> <p>03/11/10 – D&D worker doing biohazard cleanup, while wearing a PAPR hood, felt light-headed. Employee was taken to AMH for evaluation. Worker was released without restrictions. (20767)</p> <p>03/15/10 – RCT turned ankle getting up from desk to go to U Plant to work. Worker was taken to AMH for evaluation. The injury was determined to be a sprain of the left ankle. Worker was given restrictions and over-the-counter (OTC) non-prescription strength medications. Restrictions do not impact regular duties. (20773)</p> <p>3/17/10 – BOS Insulator reported injury to chest wall. The exact mechanism of injury is unknown. Worker was diagnosed by AMH with chest wall strain and was given non-prescription strength OTC medications and returned to work without restrictions. (20780)</p> <p>03/20/10 – RCT performing surveys in BCCA section S tweaked left knee. Employee reported to AMH On 3/22/10. Employee was treated and released without restriction. (20784)</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.
 - 90% design for equipment size reduction was submitted to RL and EPA. Comments were received and are in resolution.
- 212-N/P/R Buildings D&D
 - A data summary for excavation site sampling was prepared and provided to RL and EPA to gain concurrence to backfill. Concurrence was received. Response action completion report for building removal has been prepared and routed through internal review. Comment resolution is underway. RL review and comment period to follow.
- 200-E Project
 - Began 209E characterization and Cold and Dark planning activities. 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 March. Approximately 15,760 tons of soil has been removed and transferred to the Environmental Restoration Disposal Facility (ERDF).
 - Closure Documents for sites 2607-N/P/R were prepared, approved by RL and EPA, and entered into the Administrative Record.
 - Preparation of the response action completion documentation for waste site 216-N-1 is underway.
- ALE D&D
 - Continued demolition activities on the lower ALE facilities.
 - Began asbestos abatement activities on Upper ALE facilities.
 - Began debris pile removal on lower ALE.
 - Completed Cold and Dark on two upper ALE facilities.
- BCCA Waste Site Remediation
 - Remediation using super dump trucks continued with approximately 78,000 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), 682 acres in the 6.7 square mile Zone B have been radiologically down-posted.

- MG-1
 - Analysis of sampling data for 600-51 indicates RTD is not required. Closure documents for site 600-51 have been prepared and undergone internal review. Comment resolution is in progress with RL review to follow.
 - Waste site closure documentation for 200-E-101 was completed, submitted to RL and Ecology.
 - Preparations for RTD of site 600-40 are ongoing with an anticipated start during April
 - The Action Memorandum for the next MG-1 sites is at Ecology for final approval. The Remedial Action Work Plan (RAWP) and Sampling Analysis Plan (SAP) are to follow Action Memorandum (AM) approval.
 - Site 600-218 Confirmatory Sampling No Further Action (CSNFA) sample results indicate RTD is required. Additional sampling was performed to evaluate the extent of RTD. RTD planning is in process. Cultural review is underway.
 - Verification sampling of site 600-36 was performed in February to determine whether remediation was complete. Post-RTD sampling results for site 600-36 indicated that additional excavation was required. The additional excavation was performed March 30, 2010. Resampling will be performed to verify completion.
 - CSNA sampling of site 600-262 was performed at depth utilizing an auger. Results are pending.
 - Sampling of the CSNFA site 600-38 was completed with results indicating RTD will be required. RTD design and planning are underway. The Sampling Instruction (SI) was issued for site 200-W-33 and sampling was performed on March 16, 2010. Results are pending.
 - The SI was issued for site 600-37 and sampling was performed on March 22, 2010. Results are pending.

Base

- S&M
 - Change-out of the B Plant HEPA and pre-filters was completed on March 12, 2010.

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
- Working - Concern
- Working - Critical

- Increased Confidence
- No Change
- Decreased Confidence

Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
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	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, UPR 600-12 and 600-38.
#TBD: Cultural Resource Review Delays	Work with stakeholders to establish priorities and need dates	●	↔	Emerging risk in Outer Area. Working concern.
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.

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 (%)
ARRA	10.1	7.8	9.7	(2.3)	-22.9	(1.9)	-24.3
Base	<u>1.5</u>	<u>1.5</u>	<u>1.1</u>	<u>(0.0)</u>	2.9	<u>0.4</u>	28.9
Total	11.6	9.3	10.8	(2.3)	-19.6	(1.5)	-15.8

ARRA

CM Schedule Performance: (-\$2.3M/-22.9%)

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

The negative schedule variance is due to finalizing a disposition pathforward on Cell 30 (-\$0.6M) for the U Canyon project. A Baseline Change Request is being processed to address removing the tank and sending it to T Plant for treatment. Also, the 200-E Administration Project (-\$0.4M) has experienced delays due to limited insulators who are still working at the U Ancillary Project. The 209-E Project (-\$0.1M) also is slightly behind. This is offset by a positive variance for Capital Equipment (+\$0.3M) and U Ancillary (+0.1M).

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

The negative schedule variance is due to delays in development of documentation required for remediation of the 600 Area old Central Landfill (-\$1.4M) and the slow rate of progress on the BC Control Area due to the greater depth of contamination resulting in more soil being removed per acre remediated. Also, the ALE Facilities (-\$0.2M) is behind due to the delayed start for the 614 Building demolition.

CM Cost Performance: (-\$1.9M/-24.3%)

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

The U Ancillary Project current month overrun of (-\$0.4M) is due to using more resources than planned to recover schedule and inefficiencies related to delays from respirator operation issues and new scaffolding requirements. In addition, the U Canyon Project (-\$0.3M) overrun for the current month was due to issues with the canyon crane and additional T Plant resources charging to support the Cell 30 activities. This is offset by (+\$0.2M) with efficiencies gained with Cold and Dark and WIF teams. Also, capital equipment costs were higher than budgeted (-\$0.2M) and Project Management (-\$0.1M) and G&A adders overrun by (-\$0.4M).

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

The current month unfavorable (-\$1.0M) is primarily related to the greater depth of contamination in the BC Control Area and the resulting larger volume of soil requiring removal and disposal. In addition, the 212-N/P/R Project (-\$0.1M) is overrun close-out documentation taking longer than planned. This is offset by an underrun in the ALE Project (+0.6M) due to efficiencies with the lower buildings requiring less asbestos abatement than planned.

Base

CM Schedule Performance: (-\$0.0M/+2.9%)

The schedule variance is within reporting thresholds.

CM Cost Performance: (+\$0.4M/+28.9%)

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)	Estimate at Completion (EAC)	Variance at Completion (VAC)
ARRA	108.3	103.0	85.6	(5.4)	-5.0	17.4	16.9	284.8	271.2	13.6
Base	<u>41.2</u>	<u>39.7</u>	<u>34.2</u>	<u>(1.5)</u>	-3.6	<u>5.5</u>	13.9	<u>971.1</u>	<u>961.5</u>	<u>9.6</u>
Total	149.5	142.7	119.7	(6.9)	-4.6	22.9	16.1	1,255.9	1,232.7	23.2

Numbers are rounded to the nearest \$0.1M.

ARRA

CTD Schedule Performance: (-\$5.4M/-5.0%)

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 (-\$0.8M), disposal path forward undecided for Cell 30 in the U Canyon (-\$0.9M), 200-E Administration Buildings (-\$1.0M), and U Ancillary Demolition (-\$0.3M) schedule delays due to asbestos abatement/respirator issues.

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

The contract to date unfavorable schedule variance is primarily due to the greater depth of contamination in the BC Control Area and the resulting need to excavate and dispose of greater quantities of soil (-\$1.5M) and a combination of extensive regulatory agency review times on regulatory documents (AM and RAWP) and obtaining the characterization data needed for ERDF profiles prior to remedial activities (-\$1.3M). In addition, the 212-N/P/R Project (-\$0.1M) has taken longer than planned but should be completed in early June. This is offset by the ALE Project (+\$0.6M) due to less asbestos abatement activities than planned.

CTD Cost Performance: (+\$17.4M/+16.9%)

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) (+\$2.6M), G&A and direct distributable allocations (+\$7.0M), less for Program Management than planned (+\$0.4M), efficiencies at U-Canyon (D4) (+\$3.7M), less resources than planned for C-3 Sampling (+\$0.7M) and 200-E Administration (+\$0.5M), lower than planned costs for capital equipment (D4) (+\$2.0M), 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) (-\$2.7M), coupled with increased insulator staff and overtime to recover schedule and higher MSA (-\$1.4M) costs for Fleet/Training, etc.

Waste Sites – The contract to date cost variance (+\$0.5M) is primarily related to efficiencies in the initial effort to develop the agreement in principle for the U Plant Zone.

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

The contract to date cost variance (+\$1.4M) is primarily related to 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 (+\$0.6M). Lower than modeled costs have been realized on the initial confirmatory sampling waste sites due to the non-complex nature of the waste sites addressed to date (+\$0.8M). 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.

In addition, the ALE Project continues to underrun due to efficiencies and less asbestos abatement activities required than planned (+\$3.3M). This is also offset by overruns in the 212-N/P/R Project (-\$0.3M) and the acceleration of the 212 Railcars (-\$0.3M).

Base**CTD Schedule Performance: (-\$1.5M/-3.6%)**

The negative schedule variance is due to the delayed start of the Cell 30 design (D4) and an inadvertent overstatement of performance related to the 600 Central Landfill barrier (+\$0.1M).

CTD Cost Performance: (+\$5.5M/+13.9%)

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 (+\$0.9M), capital equipment (+\$0.4M), Usage Base Services (+\$0.2M) and under-run in G&A and direct distributable allocations (+\$1.2M).

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		
	Projected Funding	Spending Forecast	Variance
ARRA	144.1	123.4	20.7
Base	<u>25.8</u>	<u>15.7</u>	<u>10.1</u>
Total	169.9	139.1	30.8

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

BCRA-PRC-10-020R0, FOC Changes.

BCR-R40-10-004R0, BC Control Area (UPR-200-E-83) Zone C Characterization.

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.