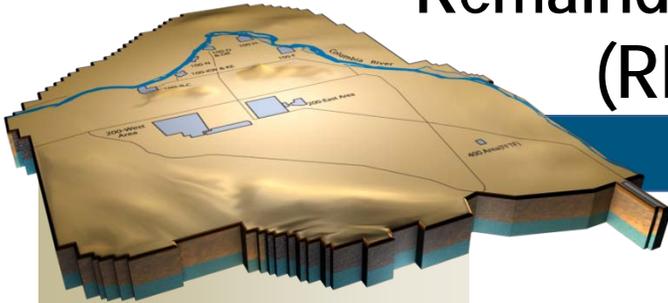


Section E Nuclear Facility D&D, Remainder of Hanford (RL-0040)

Monthly Performance Report



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Deliverable C.3.1.3.1 - 1



D-10 Tank leaving the Rail Tunnel in U Canyon

PROJECT SUMMARY

American Recovery and Reinvestment Act (ARRA)

Continued grouting of the 221U Canyon facility voids.

Completed grouting of the process sewer, process cell drain header, and buoyant vessels.

Continued grouting of the process cells.

Completed operating gallery hazardous piping tap and drain.

Started grouting of the south electrical gallery.

Completed installation of temporary lighting, temporary electrical power, and temporary crane power.

Efforts continued in preparation for grouting activities in the remaining areas of the facility (hot pipe trench, south piping gallery, ventilation tunnel and ventilation duct).

Material has been staged and preparations are underway for construction of the structural grout bulkheads for the rail tunnel upon removal of the Cell 30 Tank D-10 process vessel.

Continued preparations for the Cell 30 Tank D-10 process vessel retrieval.

Performed field mock-up activities for vessel retrieval and loading into transportation container.

The 209E facility completed cutting tanks 101 and 105.

Applied fixative to all 200 series slab tanks.

Continued abatement activities in 284W Power House.

Cleanup of 106 North Slope debris pile sites complete; continued decommissioning North Slope wells.

Continued asbestos abatement of the steam lines in the 200W Area.

All the railcars and locomotives have been removed from 212R and relocated to their final disposition location (B Reactor and the Environmental Restoration and Disposal Facility [ERDF]).

Remediation activities continued in the Outer Zone at BC Control area and Model Group (MG)-1 waste sites.

Work was concluded in the BC Control Area with removal of approximately 13,200 tons of soil from the stockpile in July, down posting of the 140 acre Zone A, and sub-contractor demobilization from the site.

Base

Planned surveillance and maintenance (S&M) activities continue.

Continued initial beryllium characterization sampling at B-Plant and 231Z.

Completed initial beryllium characterization at 222T and REDOX.

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 percent 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	Complete
		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	Complete

TARGET ZERO PERFORMANCE

	CM Quantity	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	5	N/A
Total Recordable Injuries	0	9	N/A
First Aid Cases	8	62	<p>07/11 Electrician was stung twice by a sweat bee on the neck. (22104)</p> <p>07/12 Unspecified. (22112)</p> <p>07/13 Pipefitter was bitten on the scalp by a bug. (22119)</p> <p>07/14 D&D worker became nauseated while cleaning with bleach. (22117)</p> <p>07/20 D&D worker was struck and pinned by a backing truck between the bumper and a filing cabinet causing a contusion to the leg. (22149)</p> <p>07/20 Rigger was holding a piece of plywood with another worker who dropped the other end of the plywood causing back and shoulder pain. (22152)</p> <p>07/28 Teamster was pulling wire on the North Slope when worker experienced back pain. (22163)</p> <p>07/27 Rigger was bitten on the left hand by a bug. (22164)</p>
Near-Misses	0	0	N/A

KEY ACCOMPLISHMENTS

ARRA – U PLANT/OTHER DECONTAMINATION AND DECOMMISSIONING (D&D)

- U Canyon Demolition and Cell 30 Disposition
 - Continued grouting of the 221U Canyon facility voids and process cells. Completed grouting of the process sewer, process cell drain header, and buoyant vessels. Completed operating gallery hazardous piping tap and drain. Started grouting of the south electrical gallery. Completed installation of temporary lighting, temporary electrical power, and temporary crane power. Efforts continued in preparation for grouting activities in the remaining areas of the facility (hot pipe trench, south piping gallery, ventilation tunnel, and ventilation duct).
 - Continued preparations for the Cell Tank D-10 process vessel retrieval. Performed field mock-up activities for vessel retrieval and loading into transportation container.
- 209E Project
 - Completed a shipment of standard waste boxes (SWBs).
 - Completed cutting of tanks 101 and 105. Loaded tank 105 into SWB.
 - Applied fixative to all 200 series slab tanks. Removed and performed non-destructive assay on tanks 234 and 235.
- 200W Project
 - Continued asbestos abatement activities in the 284W Power House.
- 200W and 200E Steam line
 - Continued 200W and 200E steam line asbestos abatement repair.

ARRA – OUTER ZONE D&D

- BC Controlled Area (BCCA) Waste Site Remediation
 - Conclusion of soil removal from the stockpile using super dump trucks with approximately 483,000 tons cumulative-to-date of soil removed from BCCA and transferred to ERDF
 - Conclusion of radiological Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM) downpost surveys and localized spot removal. 100% of Zone A has been MARSSIM surveyed and downposted.
- MG-1
 - Waste sites 600-40, and 600- 218 Response Action Report (RAR) and reclassification is complete.
 - Waste Site 600-49 verification sample results showed no residual contamination above cleanup criteria. Closure documentation is being prepared.
 - Pipeline 200-W-147-PL backfill activities are complete. Closure documentation is being prepared.
 - Waste sites 600-281 additional excavation has been completed. Verification sample results showed no residual contamination above cleanup criteria. The site is awaiting backfill. Closure documentation is being prepared.
 - Initial excavation of waste site 216-S-26 is complete. Verification sampling indicated no residual contamination above cleanup criteria. Additional sampling from 15-20 feet was completed as required by the MG-1 RAWP. Down posting and backfill operations are planned to commence within the next three weeks.
 - Waste site 600-228 additional excavations complete. The second round of verification sampling is scheduled for early August.

- NORTH SLOPE
 - Completed 106 debris retrieval and waste disposal.
 - Continued decommissioning North Slope wells.
- Railcars
 - All nine cask cars have been off loaded at ERDF.
 - Both tank cars have been off loaded at ERDF.
 - The tall cask car and one three-well cask car were delivered to B Reactor. The contractor has been demobilized from the project.

Base

- Beryllium sampling/characterization continued in B Plant and 231Z.
- Completed initial beryllium characterization at 222T and REDOX.

MAJOR ISSUES

None identified.

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	
RL-0040/WBS 040				
D4-036: Readiness Reviews Required	Probability of risk occurring is low; risk accepted without mitigation.			Due to change in procedure, probability is increasing. A change in criteria can require a change to process and potentially delay the project.
D4-042: Unexpected Site Conditions - D4	Conduct early facility walk downs and characterization activities to minimize the schedule impacts; interview "old timers" who worked in or around the facility and compare those events to historic records; conduct document searches to ensure all available documentation is reviewed early in the D4 planning process.			No issues at this time.
D4-S-033: Semi-Works Zone Closure - Regulatory Documents Delayed	Develop various regulatory documents to ensure the documents are submitted sufficiently early to obtain needed DOE or regulator approvals prior to planned start of work.			Evaluation of the path forward for below-grade tanks has been completed and the tanks will require full removal as opposed to being disposed in place. Risk realized, BCR to be developed for incorporation into Baseline.
D4-S-057: 209-E Fire System Deactivation	The plan is to shut off all utilities as part of the 209-E deactivation in preparation for demolition.			Upgrades to LSC systems have been completed. Project risk remains in that once the building can be categorized as non-nuclear (anticipated to occur in June), Fire Protection personnel may require continued monitoring/surveillance.
WSR-006: Decision Document Approval Delays	Work with RL and regulators to establish priorities and need dates.			RAWP and TPA Change Notice have been approved; MG-1 field activities for the pipelines have been adversely affected.
WSR-007: More Extensive Contamination Than Expected	Cannot control extent of contamination; no mitigation.			A BCR has been approved and implemented to authorize completion of BCCA Zone A remediation.
WSR-008: No Action Waste Sites	Using L-8 table data; no mitigation.			Eight sites in the Outer Zone have failed the CSNA sample evaluation. Six of the waste sites have been remediated. Two will not be remediated. To date, cleanup of the failed sites has not resulted in large waste volumes.
KBC-020: Ecological/Cultural Conditions Restrict Field Activities	This risk is accepted as written and will be monitored throughout work execution.			There is an ongoing concern about any new changes; this is being watched closely. Where appropriate, the culturally sensitive portion of a waste site is being identified and work is being performed in non-sensitive areas. Site 600-227 is being adversely affecting by cultural approval.
WSR-021: Remediation Subcontractor Performance	This risk is accepted as written and will be monitored throughout work execution.			No issues identified at this time.
WSR-028: Unexpected Liquid in Pipelines/Tanks	Anticipate liquids in field work plans; include spill response plans in RD/RAWPs.			No issues identified 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 (%)
U Plant/Other	6.0	6.2	6.5	0.2	3.1	(0.3)	-4.1
Outer Zone	<u>2.4</u>	<u>3.8</u>	<u>2.7</u>	<u>1.4</u>	61.8	<u>1.1</u>	30.4
ARRA Total	8.4	10.0	9.2	1.6	-2.0	0.8	1.0
Base	<u>1.4</u>	<u>1.2</u>	<u>1.3</u>	<u>(0.2)</u>	19.6	<u>(0.1)</u>	9.0
Total	9.8	11.2	10.5	1.4	14.9	0.7	7.2

Numbers are rounded to the nearest \$0.1M

ARRA

CM Schedule Performance: (+\$1.6M/-2.0%)

ARRA RL-0040.R1.1 U Plant/Other D&D (+\$0.2M)

Variance is within reporting threshold.

ARRA RL-0040.R1.2 (+\$1.4M) The favorable schedule variance is due to gains in waste sites due to pre-staging backfill material at 216-S-19 and 216-S-26 waste sites.

CM Cost Performance: (+\$0.8M/+1.0%)

ARRA RL-0040.R1.1 U Plant/Other D&D (-\$0.3M) Variance is within reporting threshold.

ARRA RL-0040.R1.2 (+\$1.1M) The variance is primarily due to contract costs for disposal of railcars (+\$1.5M) coming in less than estimated for the month. This is offset by an unfavorable cost variance in waste sites (-\$0.1M) related to extent of contamination in 216-S-9 and 216-S-26. Minor accounts outside the threshold (-\$0.2M).

Base

CM Schedule Performance: (-\$0.2M/-19.6%)

Variance is within reporting threshold.

CM Cost Performance: (-\$0.1M/+9.0%)

Variance is within reporting threshold.

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)
U Plant/Other	183.0	177.7	169.1	(5.3)	-2.9	8.5	4.8	200.0	187.6	12.4
Outer Zone	84.8	82.3	69.9	(2.5)	-2.9	12.4	15.1	96.6	86.3	10.4
ARRA Total	267.8	260.0	239.0	(7.8)	-2.9	20.9	8.1	296.6	273.9	22.8
Base	63.5	63.5	56.8	0.0	0.1	6.7	10.5	759.5	742.7	16.8
Total	331.3	323.5	295.8	(7.8)	-2.3	27.6	8.6	1,056.1	1,016.6	39.6

Numbers are rounded to the nearest \$0.1M

ARRA

CTD Schedule Performance: (-\$7.8M/-2.9%)

ARRA RL-0040.R1.1 U Plant/Other D&D (-\$5.3M) The negative schedule variance is due to late award of the grout contract for U Canyon (-\$2.7M), delays with the hazard reduction of 209E (-\$0.9M), and limited resources has also delayed 200W Administration Buildings (-\$1.6M). Also minor accounts outside the threshold (-\$0.1M).

ARRA RL-0040.R1.2 Outer Zone D&D (-\$2.5M) The unfavorable schedule variance is primarily due to the waste sites in ARRA that need to be moved to base to support the priority of footprint reduction (-\$2.9M), which is offset by the ahead of schedule disposition of the 212N Railcars (+\$0.5M), and minor accounts outside the threshold (+\$0.1M).

CTD Cost Performance: (+\$20.9M/+8.1%)

ARRA RL-0040.R1.1 U Plant/Other D&D (+\$8.5M) The favorable cost variance is largely due to favorable performance of the Cold and Dark teams and the Sampling and Characterization/Waste Identification Form teams (D4) (+\$3.9M), overhead allocations (+\$11.2M), less for Program Management than planned (+\$2.0M), less resources than planned for C-3 Sampling (+\$0.7M), lower than planned costs for capital equipment (D4) (+\$2.7M), less asbestos abatement required for 200W buildings (+\$3.4M), 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) (-\$8.0M), coupled with increased insulator staff and overtime to recover schedule, 200E Administration (-\$1.2M) and 209E Project delays (-\$2.4M), additional resources being applied at U Canyon (D4) to regain schedule (-\$1.3M), Usage Based Services (-\$2.7M), and minor accounts not within threshold (+\$2.0M).

ARRA RL-0040.R1.2 Outer Zone D&D (+\$12.4M) The favorable cost variance is due to efficiencies in Arid Lands Ecology (ALE), North Slope Facilities, disposition of railcars D&D (+\$7.2M), and Outer Area waste sites (+\$6.3M). The waste site favorable cost-to-date variance is primarily due to an O-Zone Remote, Treat, and Dispose (RTD) Waste Sites adjustment (pass back) to ERDF waste disposal costs reflecting the operational efficiencies of the super dump trucks. Within the waste sites area, this favorable cost variance is partially offset by higher than planned costs associated with remediation of pipelines. A negative cost variance is associated with increased costs for the 212N/P/R Project (-\$1.1M) due to the walls of the basins being much thicker than estimated.

Base

CTD Schedule Performance: (+0.0M/0.1%)

All Variances are within Thresholds.

CTD Cost Performance: (+6.7M/+10.5%)

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) less than expected (+\$1.3M), completion of the sampling of Cell 30 with less resources than planned (+\$0.9M), Program Management utilizing less resources (+\$1.5M), capital equipment (+\$0.3M), Usage Base Services (+\$0.2M), and underrun in overhead allocations (+\$1.9M).

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

Estimate at Completion (EAC)

The BAC and EAC include fiscal year FY2009 through FY2018.

The changes in EAC from June to July, for both ARRA and Base, are within reporting thresholds.

**FUNDS vs. SPEND FORECAST
(\$M)**

WBS 040/RL-0040 Nuclear Facility D&D	FY2011		
	Projected Funding	Spending Forecast	Spend Variance
ARRA	142.6	139.5	3.1
Base	18.5	17.1	1.5

Numbers are rounded to the nearest \$0.1M.

Funds/Variance Analysis

Funding includes FY2010 carryover and FY2011 new Budget Authority.

Critical Path Schedule

Critical path analysis can be provided upon request.

Baseline Change Requests

None.

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.