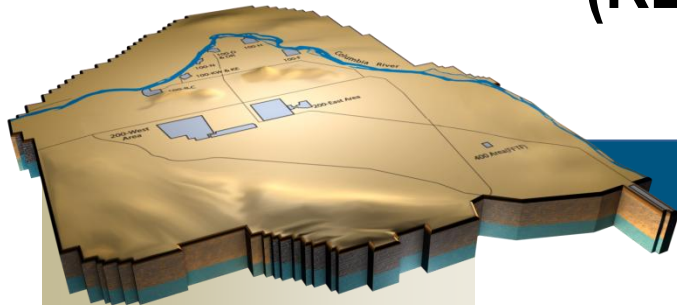


Section E

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



Monthly Performance Report

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Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

212R Before



212R After



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 212N, P, and R Project has been delayed due to weather and has been rescheduled for January.

Asbestos abatement and demolition preparation activities have continued on the lower Arid Lands Ecology (ALE) structures.

Completed Cold and Dark utility isolations to support future demolition for the lower ALE facilities and continued with the utility isolation activities for the upper ALE structures.

The first of six cells for U Canyon demolition were loaded with designated equipment and cover blocks put back in place. Fixative has been applied throughout the canyon.

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 5,500 tons of soil in December; approximately 10 acres of BC control area have been cleared to date. Excavation at one CW-3 waste site continued and excavation of another site was initiated in December with approximately 1600 tons of soil removed. Sampling/surveys have been initiated for five sites with four sites completed for the 11 MG-1 sites and two completion reports have been drafted.

Base

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

Disposition of the D-10 tank in Cell 30 is being evaluated 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	0	N/A
First Aid Cases	6	16	<p>12/14/09 - RCT was wearing bulky clothing. The worker went to sit down in a chair that rolled out from under them causing a sprained right wrist. Worker was given a restriction of limited use of right hand and given a soft brace. (20598)</p> <p>12/9/09 - RCT complained of sore left foot because of safety boots and was taken to AMH for evaluation and returned to work with a restriction against wearing safety boots. (20595)</p> <p>12/3/09 - RCT developed low back pain while working on the B Plant filter change out activity. Employee was taken to AMH for evaluation and returned to work without restrictions. (20585)</p> <p>12/28/09 - Pipefitter was momentarily distracted and walked off the walking path and tripped over a snow pile. The worker suffered a small scrape to knee. (20618)</p> <p>12/30/09 - RCT experienced upper back, neck, and arm pain. Reported lifting and working all day and at end of day had spasms. The worker was transported to AMH the following day. The employee was returned to work without restriction and given over the counter medication. Worker referred to personal physician. (20621)</p> <p>12/30/09 - D&D worker reported a tingling feeling in right arm. The employee noticed the pain while sitting in pre-job and stated it might be the result of slipping in the parking lot (did not fall, just a slip) this morning while walking from car to the trailer. The employee was taken to AMH for evaluation, provided OTC meds at non-prescription strength, and returned to work without restrictions. (20622)</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
 - The first six cells of U Canyon were loaded with designated equipment and cover blocks put back in place.
 - Fixative has been applied to all of the canyon floor and eight feet up the walls.
- 212N/P/R Buildings D&D
 - Completed demolition of 212R and 212P. Sampling for soil beneath 212N, 212P, and 212R is scheduled for January 2010.
- 200-CW-3 Waste Sites Sampling
 - Excavation of the second remove, treat and dispose (RTD) site (216-N-4) started in late December. Approximately 90 tons of soil was removed and transferred to Environmental Restoration Disposal Facility (ERDF).
 - Confirmatory sampling no further action (CSNA) samples were taken for site 2607-N/P/R and transferred to the Lab for analysis.
- ALE D&D
 - Continued asbestos abatement activities on the lower ALE facilities.
 - Continued demolition preparation activities on the lower ALE facilities.
- BCCA Waste Site Remediation
 - Remediation using “super dump” trucks was ongoing with approximately 16,800 tons cumulative to date of soil removed and transferred to ERDF.
- Model Group 1 (MG-1)
 - The Response Action Completion Report for 200-E-110 and 600-21 is in review.
 - Analysis of sampling data for 600-36 is complete indicating RTD is required. RTD is anticipated to commence in January.
 - Analysis of sampling data for 600-51 indicates RTD is not required. Closure documents are being prepared.
 - The Remedial Action Work Plan for the first 11 sites was approved.
 - The Action Memorandum for the next MG-1 sites has been prepared and has been transmitted to DOE for initial review.
 - Surface soil sampling was performed at 20 locations for CSNA site 600-218.

Base

- S&M
 - Commenced 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.

Issue Statement – Delays in procurement of super dump trucks for shipping waste to ERDF are impacting waste site remediation in the outer zone. A change in direction was received to require all

equipment to be purchased by Mission Support Alliance (MSA). This has delayed procurement of these vehicles.

Corrective Action – CHPRC is working closely with MSA on priorities and procurement of equipment.

Status – The super dump trucks have been ordered and are scheduled to arrive through January with the last truck being placed into service by mid-February. Once the trucks are in service, the production rate will be evaluated and timeline will be developed for recovery of the schedule.

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	
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
D4-002: U Plant Cell 30 Tank (Redox D-10 Process Vessel) Found to be High-Level Waste		●	↑	
D4-003: Planned U Plant Cell 30 Holdup Material Disposition is Outside Baseline Assumption	Remove Tank	●	↑	
WSR-030: NRDWL Barrier (RCRA vs. ET-Mono)	Draft closure plan and L-8 table show ET-Mono; no mitigation	●	↓	Final closure plan not yet submitted to Ecology; risk probability may need to increase
WSR-008: No Action Waste Sites	Using L-8 table data; no mitigation	●	↓	Risk realized for 200-MG-1, 600-36
D4-020: Unexpected Condition/Radiological Contamination at Industrial Facilities	Early radiological surveys	●	↓	Several ALE structures may have radiological contamination. Structures are being surveyed.
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.
PRC-029: Unforeseen Facility Condition.		●	↔	No issues at this time.
PRC-042: Resource Availability	Conduct job fairs; contract with alternate resource providers; develop training programs and work with local educational facilities and union halls to train required job specialties; establish company-wide prioritization for resource assignments	●	↑	Resource availability issues are being eliminated.

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	10.5	8.7	7.7	-1.7	(16.9)	1.0	11.2	282.3
Base	<u>2.1</u>	<u>2.0</u>	<u>1.1</u>	<u>-0.1</u>	(3.9)	<u>0.9</u>	45.2	<u>1,011.8</u>
Total	12.6	10.7	8.8	-1.9	(14.7)	1.9	17.7	1,294.1

Numbers are rounded to the nearest \$0.1M.

ARRA

CM Schedule Performance: (-\$1.7M/-16.9%)

The negative schedule variance is due to the rate of progress being made on the BC Control Area (-\$0.9M) due to delays with the procurement of additional super dump trucks and approval of cultural reviews for the model group one (MG-1) waste sites. In addition, the procurement of several capital equipment (-\$0.8M) items have been delayed for D4 project.

CM Cost Performance: (+\$1.0M/+11.2%)

The favorable cost variance is partially due to the implementation of the AWA-PRC-10-017 with regards to the U Ancillary Project (D4) (\$1.6M). The unfavorable cost variance for waste sites (\$-0.6M) is primarily related to increased depth of excavation on BC Control Area. BC Control Area is being evaluated for change control to reflect the unanticipated conditions. Additionally, the lack of three additional super dump trucks reduced the efficiency in this area. The delivery of these trucks is expected in early January.

Base

CM Schedule Performance: (-\$0.1M/-3.9%)

The schedule variance is within reporting thresholds.

CM Cost Performance: (+\$0.9M/+45.2%)

The positive cost variance is due to a point adjustment this month due to the implementation of the AWA-PRC-10-017.

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	80.7	75.8	58.0	-4.9	(6.1)	17.9	23.6	282.3
Base	<u>36.9</u>	<u>35.4</u>	<u>30.7</u>	<u>-1.5</u>	(4.2)	<u>4.6</u>	13.1	<u>1,011.8</u>
Total	117.6	111.2	88.6	-6.5	(5.5)	22.5	20.3	1,294.1

Numbers are rounded to the nearest \$0.1M.

ARRA

CTD Schedule Performance: (-\$4.9M/-6.1%)

The negative schedule variance is caused by slower than planned progress for the U Canyon Project (D4) (-\$1.4M) which has caused the canyon deck clearing to fall behind schedule as well as starting the design of the grouting system; delays in the delivery of super dump trucks for handling waste, weather delays and initial startup learning curves for BC Control area (-\$3.9M). In addition, review and approval of cultural reviews for the model group (MG)-1 (-\$0.2M) waste sites have delayed field sampling on four sites. These are partially offset by the early procurement of D&D capital equipment (+\$0.6M).

The U Canyon baseline will be addressed as part of the January implementation of the PMB Rev. 2. Schedule gain has been made in the CW-3 waste sites due to the smaller volume of soil required to be removed from 216-N-1 waste sites. The super dump trucks are scheduled for delivery in early January.

CTD Cost Performance: (+\$17.9M/+23.6%)

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) (+\$3.0M); G&A and direct distributable allocations (+\$6.0M); less staff and subcontractors for the outer zone waste sites; efficiencies in demolition and sampling activities, particularly at 212-N, -P and -R (D4), and 200-CW-3 (+\$0.7M) waste sites; efficiencies at U-Canyon (D4) (+\$3.8M); lower than planned costs for capital equipment (D4) (+\$1.6M) 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) (-\$1.0M), coupled with increased insulator staff and overtime to recover schedule.

In the waste sites area (+\$3.8M), 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, aerial surveying performed on the B Zone resulted in 18 percent of the area being found to be "clean" and requiring no further remediation, the simplest, least costly sites among the MG-1 sites have been completed resulting in lower than modeled costs and sample analysis costs have been lower than planned.

Base

CTD Schedule Performance: (-\$1.5M/-4.2%)

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

CTD Cost Performance: (+\$4.6M/+13.1%)

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) (+\$0.6M) less than expected; completed the sampling of Cell 30 with less resources than planned (+\$1.0M), and under-run in G&A and direct distributable allocations (+\$2.4M).

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	157.9	128.1	29.8
Base	<u>25.4</u>	<u>21.0</u>	<u>4.4</u>
Total	183.3	149.1	34.2

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

AWA-PRC-10-017.

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.