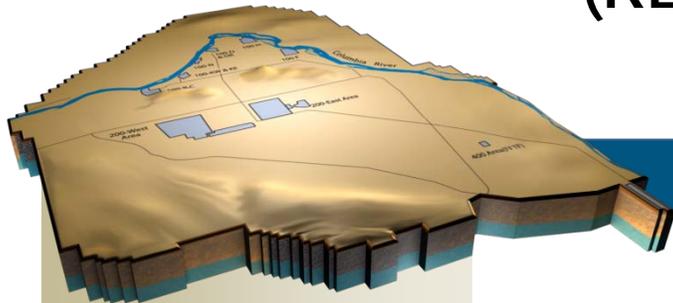


# Section E

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



### Monthly Performance Report

K. L. Kehler  
Vice President and  
Project Manager for  
D&D Project

D. L. Foss  
Vice President and  
Project Manager for  
Soil and Groundwater  
Remediation Project



**Arid Lands Ecology (ALE) Demolition**

## 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 completed awaiting results.

Asbestos abatement and demolition preparation activities are complete on the lower Arid Lands Ecology (ALE) structure and demolition has begun; continued with the utility isolation activities for the upper ALE structures.

Three additional cells (nine total) for U Canyon demolition were loaded with designated equipment and cover blocks put back in place. Equipment size reduction activities have started.

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 13,500 tons of soil in January; approximately 12 acres of BC control area have been cleared to date. Excavation at one CW-3 waste site (216-N-4) continued with approximately 2,673 tons of soil removed to date. Sampling/surveys have been initiated on five sites, with completion on four of the eleven MG-1 sites and two completion reports have been drafted. Four hundred fifty six tons of contaminated soil has been transferred from MG-1 waste site 600-36 to ERDF.

### 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	5	21	<p><b>01/06/10</b> RCT received a splinter in hand while using a handrail. Employee was taken to AMH where the splinter was removed; however removing the splinter created a wound that required bandaging. Employee returned to work with restriction. (20635)</p> <p><b>01/14/10</b> Insulator was providing outside support functions to asbestos removal activities when a foreign object (particulate) either blew into or fell into right eye. The employee used an eye wash bottle to flush the eye. As a precaution, worker was seen at AMH. Worker was examined and the employee was returned to work without restriction. (20646)</p> <p><b>01/19/10</b> NCO reported to Supervision on 01/20/10 that on the prior afternoon, worker felt a stabbing pain in the left shoulder from reaching for items in a laundry cart. Taken to AMH and returned with restrictions of 10 lbs lifting, pulling, and pushing and no above shoulder work. (20656)</p> <p><b>01/28/10</b> Driver got dust in eye while moving pieces of lumber. Employee was evaluated at AMH, provided non-prescription lubricating drops, and returned to work without restriction. (20672)</p> <p><b>01/28/10</b> Employee at BCCA was wiping down the interior of the cab of assigned super dump truck and received cut on finger. Self treated the cut with band aid. (20675)</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
  - Three additional cells (nine total) of U Canyon were loaded with designated equipment and cover blocks put back in place
  - Equipment size reduction activities have started
- 212N/P/R Buildings D&D
  - Sampling for soil beneath 212N, 212P, and 212R have been completed and results are pending
- 200-CW-3 Waste Sites Sampling
  - Excavation of the second remove, treat, and dispose (RTD) site (216-N-4) continued in January. Approximately 2,583 tons of soil was removed and transferred to Environmental Restoration Disposal Facility (ERDF) during January.
  - Confirmatory Sampling No further Action (CSNA) samples for site 2607-N/P/R have been analyzed and no further action is anticipated based on initial review of the results
  - The final Tri-Party Agreement change notices for the Sampling and Analysis Plan and the Remedial Action Work Plan (RAWP) were approved
  - Verification samples were collected from waste site 216-N-1 on January 29, 2010 and transferred to the lab for analysis
- ALE D&D
  - Completed asbestos abatement activities on the lower ALE facilities
  - Completed demolition preparation activities on the lower ALE facilities
  - Began demolition activities on the lower ALE facilities
- BCCA Waste Site Remediation
  - Remediation using super dump trucks continued with approximately 29,200 tons cumulative to date of soil removed and transferred to ERDF
- Model Group 1 (MG-1)
  - Review of the Response Action Completion Report for 200-E-110 and 600-21 continues
  - Initial field excavation of site 600-36 is complete contingent upon verification sampling, and 456 tons of contaminated soil was transferred from 600-36 to ERDF
  - Analysis of sampling data for 600-51 indicates RTD is not required. Closure documents for site 600-51 are being prepared.
  - Preparations for RTD of site 600-40 are ongoing with an anticipated start of late February or early 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.
  - Surface soil sampling was performed at 20 locations for CSNA. Site 600-218 sample results indicate additional sampling is required. The Sample Instruction (SI) is being adjusted and additional sampling will be performed.

### 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**

<ul style="list-style-type: none"> <li><span style="color: green;">●</span> Working - No Concerns</li> <li><span style="color: yellow;">●</span> Working - Concern</li> <li><span style="color: red;">●</span> Working - Critical</li> </ul>	<ul style="list-style-type: none"> <li> Increased Confidence</li> <li> No Change</li> <li> Decreased Confidence</li> </ul>
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Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
<b>WSR-006: Decision Document Approval Delays</b>	<b>Work with RL and regulators to establish priorities and need dates</b>	<span style="color: yellow;">●</span>		<b>Working concern.</b>
<b>WSR-007A: More Extensive Contamination Than Expected</b>	<b>Cannot control contamination extent; no mitigation</b>	<span style="color: green;">●</span>		<b>Risk level reflects project life worst case impact of \$60M; individual waste site risks are moderate</b>
D4-002: U Plant Cell 30 Tank (Redox D-10 Process Vessel) Found to be High-Level Waste		<span style="color: green;">●</span>		
D4-003: Planned U Plant Cell 30 Holdup Material Disposition is Outside Baseline Assumption	Remove Tank	<span style="color: green;">●</span>		Working to move tank to CWC.
WSR-030: NRDWL Barrier (RCRA vs. ET-Mono)	Draft closure plan and L-8 table show ET-Mono; no mitigation	<span style="color: green;">●</span>		Final closure plan not yet submitted to Ecology; risk probability may need to increase
<b>WSR-008: No Action Waste Sites</b>	<b>Using L-8 table data; no mitigation</b>	<span style="color: green;">●</span>		<b>Risk realized for 200-MG-1, 600-36</b>
D4-020: Unexpected Condition/Radiological Contamination at Industrial Facilities	Early radiological surveys	<span style="color: green;">●</span>		
WSR-021: Remediation Subcontractor Performance	Investigate subcontractor's past performance prior to contract award	<span style="color: green;">●</span>		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	<span style="color: green;">●</span>		No issues encountered to date.
<b>PRC-029: Unforeseen Facility Condition.</b>		<span style="color: green;">●</span>		<b>No issues at this time.</b>
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	<span style="color: green;">●</span>		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	9.3	9.1	9.6	(0.3)	-2.9	(0.6)	-6.5	284.8
Base	<u>1.6</u>	<u>1.6</u>	<u>1.2</u>	<u>(0.0)</u>	-2.0	<u>0.4</u>	25.2	<u>971.1</u>
<b>Total</b>	<b>10.9</b>	<b>10.7</b>	<b>10.8</b>	<b>(0.3)</b>	<b>-2.8</b>	<b>(0.2)</b>	<b>-1.8</b>	<b>1,255.9</b>

Numbers are rounded to the nearest \$0.1M.

**ARRA****CM Schedule Performance: (-\$0.3M/-2.9%)**

The schedule variance is within reporting thresholds.

**CM Cost Performance: (-\$0.6M/-6.5%)** The unfavorable cost variance for waste sites (-\$1.5M) 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 additional super dump trucks reduced the efficiency in this area. The U Ancillary Project current month overrun of (-\$0.7M) is due to higher MSA costs than planned as well as labor for the asbestos abatement issues. This is offset by (+\$0.8M) with efficiencies gained with the ALE Project (D4) due to the lack of asbestos abatement required and G&A adders under run by (+\$0.8M).

**Base****CM Schedule Performance: (-\$0.0M/-2.0%)**

The schedule variance is within reporting thresholds.

**CM Cost Performance: (+\$0.4M/+25.2%)**

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	90.1	84.8	67.5	(5.2)	-5.8	17.3	20.4	284.8
Base	<u>38.5</u>	<u>36.9</u>	<u>31.9</u>	<u>(1.6)</u>	-4.1	<u>5.0</u>	13.6	<u>971.1</u>
<b>Total</b>	<b>128.6</b>	<b>121.8</b>	<b>99.4</b>	<b>(6.8)</b>	<b>-5.3</b>	<b>22.3</b>	<b>18.3</b>	<b>1,255.9</b>

Numbers are rounded to the nearest \$0.1M.

### ARRA

#### **CTD Schedule Performance: (-\$5.2M/-5.8%)**

The negative schedule variance is caused by late delivery of heavy equipment in the D4 capital equipment account (-\$2.6M), disposal path forward undecided for Cell 30 in the U Canyon (-\$0.6M), delays with 209E (-\$0.4M) due to hazard reduction issues delays in the delivery of super dump trucks for handling waste, weather delays, and initial startup learning curves for BC Control area (-\$1.2M). In addition, review and approval of cultural reviews and WSCF down time for the MG-1 (-\$0.4M) waste sites have delayed field sampling on four sites.

#### **CTD Cost Performance: (+\$17.3M/+20.4%)**

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) (+\$3.2M); G&A and direct distributable allocations (+\$7.5M); less for Program Management than planned (+\$0.6M); efficiencies at U-Canyon (D4) (+\$3.9M); lower than planned costs for capital equipment (D4) (+\$1.8M) 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) (-\$1.8M), coupled with increased insulator staff and overtime to recover schedule.

In the waste sites area (+\$2.1M), 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 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.

### Base

#### **CTD Schedule Performance: (-\$1.6M/-4.1%)**

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

#### **CTD Cost Performance: (+\$5.0M/+13.6%)**

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) (+\$0.5M) less than expected; completed the sampling of Cell 30 with less resources than planned (+\$1.0M), Program Management utilizing less resources (+\$0.5M), capital equipment (+\$0.4M) and under-run in G&A and direct distributable allocations (+\$2.0M).

**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
<b>ARRA</b>	144.3	126.2	18.1
<b>Base</b>	<u>25.4</u>	<u>20.9</u>	<u>4.5</u>
<b>Total</b>	<b>169.7</b>	<b>147.1</b>	<b>22.6</b>

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-PRC-10-011 PRC Baseline Rev. 2

## 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.