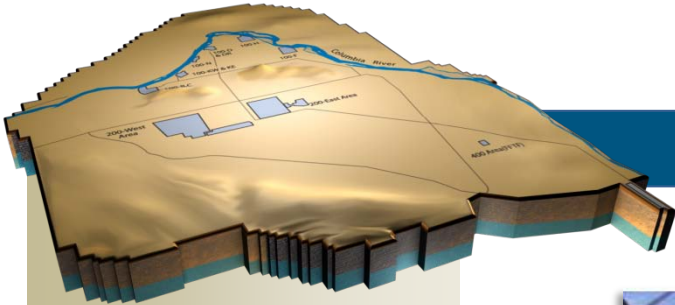


# Section F

## Nuclear Facility D&D, River Corridor (RL-0041)



### Monthly Performance Report

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Remediation Project

October 2009  
DOE/RL-2008-69, Rev. 32  
Contract DE-AC06-08RL14788  
Deliverable C.3.1.3.1 - 1



Completed the Demolition of MO969 and MO048 (Above)  
and 118KE (Below at 100K Area)



## PROJECT SUMMARY

### American Recovery and Reinvestment Act (ARRA)

Work continued in the 100K Area with the completed demolition of the 118KE Rod Cave Facility. Workers continued characterization of 183.1KW, 183.3KW, 183.7KW, 115KE, 116KE, and 117KE and completed characterization at MO969 and 183.2KW. Cold and dark activities continued on 115KE, 116KE, 117KE, and 183.7KW and completed cold and dark activities for 183.1KW, 183.2KW, and 183.3KW. Initiated demolition and load out of MO969 and MO048.

Continued waste site remediation of 100-K-56 and 100-K-42 RTD sites.

Contamination levels in UPR-100-K-1 required modification to the transportation documentation. Work was paused in the under basin work and the work crew shifted to pipeline remediation for waste sites 100-K-47, 100-K-56, and 100-K-3.

Ongoing work on the project includes removal of debris from the K West Basin as well as planning and design for 100K Area River Water Isolation, Electrical Power Isolation, and the K West Basin Airborne Contamination Remediation projects to support accelerated cleanup at the 100K Area.

### Base

Initiated cold and dark activities for 182K, Water Reservoir Pump House.

The construction of the permanent container storage area for waste site remediation activities was completed.

## TARGET ZERO PERFORMANCE

	CM Quantity	FYTD Quantity	Comment
Days Away, Restricted or Transferred	0	0	N/A
Total Recordable Injuries	0	0	
First Aid Cases	1	1	On 10/19/09 D&D worker was pulling on a broken table leg when it broke off and hit him in the left shin causing a contusion. Self-treated (20519)
Near-Misses	0	0	N/A

## KEY ACCOMPLISHMENTS

### 41.02 RC PRC River Zone Environmental

#### ARRA

- Completed demolition of the 118KE Rod Cave
- Continued design of 105KE Reactor Disposition
- Continued characterization of 105KE Reactor Disposition
- Continued characterization of 183.1KW, 183.3KW, 183.7KW, 115KE, 116KE, and 117KE
- Completed characterization of 183.2KW
- Continued cold and dark at 115KE, 116KE, 117KE, and 183.7KW
- Completed cold and dark at 183.2KW, 183.3KW, and 183.1KW
- Pending approval to resume work in UPR-100-K-1, remediation resumed on 100-K-56 and preparatory activities on 100-K-47 and 100-K-3 pipelines were initiated. 100-K-56 is a 72-inch diameter primary effluent pipeline consisting of multiple pipes that drained various facilities or areas and dumped directly into the outfall or retention basis. 100-K-3 pipeline mixed water to simulate outfall conditions in the river in support of laboratory studies for the effects on fish of radiologically contaminated water discharges into the Columbia River.

#### Base

- Finished demolition loadout of 1706KE/1706KEL/1706KER facilities
- Completed installation of the permanent Container Transfer Area
- Completed UPR-100-K-1 confirmatory sampling

## MAJOR ISSUES

**Issue Statement** - CHPRC received correspondence from RL on October 14, 2009, requesting a proposal/estimate for removal of the K East and K West Reactor Cores. Additionally, the proposal will include the movement of the K East Reactor Core removal ARRA work scope to Base funding, with equivalent movement of Base activities to ARRA. These actions were originally due on November 9 and 23, 2009, respectively.

**Corrective Action** - RL had communicated these actions to CHPRC prior to issuance of the letter request on October 14, 2009, and additionally, the Project has been supporting their Assistant Manager in development of a presentation to gain full project approval. The Project will submit the proposal and estimate as requested.

**Status** - The Project has assigned a Project Manager and the team has continued the estimating effort. Concurrently, the Project is reviewing the sequencing of facility and waste site demolition/remediation to optimize the near-term removal of not only the K East Reactor Core, but initiation of K West Reactor Core removal preparations as well. The project briefed RL on November 9, 2009, and provided the draft proposal. The project continues to work with RL to determine the appropriate path forward.

**Issue Statement** - Due to contamination levels in the soil associated with UPR-100-K-1, overall waste quantities will exceed the original project assumptions and waste shipping requirements are restricting quantities in the container to approximately one-half of their available capacity. This issue combined with restriction to 15 containers per day has the project progressing at approximately 20% of their planned rate.

**Corrective Action** - Special packaging instructions have been prepared for the varied levels of material that the project is encountering and additional containers will be requested once the project has resumed. A BCR will be prepared to address the realized risk (KBC-004) that contamination depth is greater than planned and waste volumes are increasing to ERDF. A recovery plan will be prepared to analyze how much of the existing variance can be improved.

**Status** - Special packaging instructions have been completed and approved by RL. A calibrated scale is in place, which is the last action to resume remediation activities. The BCR and recovery plan are under development.

## KEY RISKS AND CHALLENGES

Risks for the 100K Area Project are reported in Section B, Spent Nuclear Fuel Stabilization and Disposition (PBS RL-0012).

## PROJECT BASELINE PERFORMANCE

### Current Month

(\$M)

WBS 041/RL-0041 Nuclear Facility D&D – River Corridor	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)
<b>ARRA</b>	6.7	5.3	3.4	(1.4)	-20.6	1.9	35.7	192.0
<b>Base</b>	<u>0.5</u>	<u>1.1</u>	<u>1.5</u>	<u>0.5</u>	98.8	<u>(0.4)</u>	-42.1	<u>272.1</u>
<b>Total</b>	<b>7.2</b>	<b>3.4</b>	<b>4.9</b>	<b>(0.8)</b>	<b>-11.6</b>	<b>1.4</b>	<b>22.5</b>	<b>464.1</b>

Numbers are rounded to the nearest \$0.1M.

### ARRA

#### CM Schedule Performance: (-\$1.4M/-20.6%)

Delayed start of facility demolitions while D4 crews completed work on K East Basin and 1706 Facility Complex removals; delays in K West Basin Ventilation modification specifications and ordering of related materials; delays in Utility Reroute on ordering materials until review and approval of design specifications; slowed progress in K East Core Removal engineering and regulatory activities to accommodate reviews and decisions on project path-forward; non-receipt of Capital Equipment ordered in prior months; slower than planned start in Waste Site Remediation caused by delayed finish of K East Basin removal. Work scope will be performed in FY 2010 with expectation to recover delays, with the exception of the K East Core Removal, which will be re-planned once overall strategy is reviewed and approved by RL/DOE-HQ. The negative variances are partially offset by a favorable variance in K West Basin Debris Removal project. The personnel assigned to the project are experienced in debris removal

activities, but the baseline assumed a learning curve.

**CM Cost Performance: (+\$1.9M/+35.7%)**

The project continues an overall trend of above average efficiency in work performance achieved, with the main contributors being facility characterization in preparation for D4; and the K West deactivation – debris removal campaign.

**Base**

**CM Schedule Performance (+\$0.5M/+98.8%)**

The positive schedule variance reflects progress on mobilization of the waste site remediation subcontractor and UPR-100-K-1 confirmatory sampling that was planned in previous months.

**CM Cost Performance (-\$0.4M/-42.1%)**

The negative variance is within established reporting thresholds.

### Contract-to-Date (\$M)

WBS 041/RL-0041 Nuclear Facility D&D – River Corridor	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)
<b>ARRA</b>	36.0	29.0	18.3	(7.0)	-19.6	10.7	36.9	192.0
<b>Base</b>	8.9	8.3	8.7	(0.6)	-6.9	(0.4)	-4.5	272.1
<b>Total</b>	<b>44.9</b>	<b>37.3</b>	<b>27.0</b>	<b>(7.7)</b>	<b>-17.0</b>	<b>10.3</b>	<b>27.6</b>	<b>464.1</b>

Numbers are rounded to the nearest \$0.1M.

**ARRA**

**CTD Schedule Performance: (-\$7.0M/-19.6 %)**

As described in the current month variance, the main contributors remain; delays in completing specifications for ventilation modifications and utility reroutes, and ordering of associated materials; and the directed slowdown in K East Core Removal engineering and regulatory activities pending a review of the overall project strategy at RL/DOE-HQ.

**CTD Cost Performance: (+\$10.7M/+36.9 %)**

Above average efficiency in work performance achieved, with the main contributors being: Facility characterization in preparation for D4; and K West Deactivation – debris removal campaign.

**Base**

**CTD Schedule Performance (-\$0.6M/-6.9 %)**

The negative variance is within established reporting thresholds.

**CTD Cost Performance (-\$0.4M/-4.5 %)**

The negative variance is within established reporting thresholds.

**Contract Performance Report Formats are provided in Appendix A.**

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

WBS 041/RL-0041 Nuclear Facility D&D – River Corridor	FY 2010		Variance
	Projected Funding	Spending Forecast	
<b>ARRA</b>	122.8	113.0	9.8
<b>Base</b>	<u>20.3</u>	<u>20.2</u>	<u>0.2</u>
<b>Total</b>	<b>143.1</b>	<b>133.2</b>	<b>10.0</b>

Numbers are rounded to the nearest \$0.1M.

### Funds Analysis:

Projected Funding includes FY 2009 uncosted and FY 2010 expected new Budget Authority (BA).

### 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

None

## MILESTONE STATUS

Tri-Party Agreement (TPA) milestones represent significant events in project execution. DOE Enforceable Agreement milestones were established to provide high-level visibility to critical deliverables and specific status on the accomplishment of these key events. The PRC Baseline submitted in June defines CHPRC planning with respect to TPA milestones.

Number	Title	Type	Due Date	Actual Date	Forecast Date	Status/ Comment
M-016-57	Initiate Soil Remediation at K East Basin. Initiate Full-Scale Remediation Action of the 105KE Fuel Storage Basin within one month of completing M-016-160.	TPA	10/31/09	09/27/09		Complete

## 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.