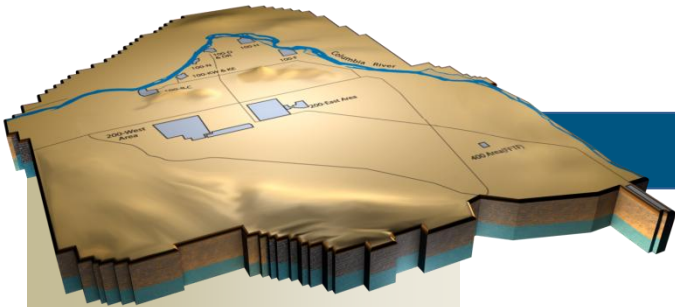


Section F

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



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



183.2KW Demolition

December 2009
DOE/RL-2008-69, Rev. 14
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

American Recovery and Reinvestment Act (ARRA)

Facilities

Work continued in the 100K Area with continued characterization of 115KE, 116KE, and 117KE; and continued final disposition characterization at 183.2KW, 183.3KW and 183.7KW. Cold and dark activities continued on 115KE, 116KE, and 117KE.

Continued asbestos abatement at 183.7KW; 50 percent of asbestos containing material removed.

Continued removal of the alum line in 183.1KW.

Initiated demolition of 183.2KW.

Continued waste site remediation of 100-K-56 and 100-K-42 Remove, Treat, and Dispose sites.

Continued loading out the UPR-100-K-1 soil. 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.

Work continued on 105KE Reactor Disposition preliminary design, project definition and regulatory documentation. Initiated 105KE cold and dark activities. Initiated field work for characterization of the reactor core, process tube, and port surveying to begin early January and February for core boring activities. An Alternative Option Strategy meeting was held the middle of December to assess the alternatives for core removal.

Waste Sites

Continued waste site remediation of UPR-100-K-1 (100-K-42); and 100-K-56, 100K Reactor Cooling Water Effluent Underground Pipelines.

Began Confirmatory Sampling of 100-K-63, 100-KW Floodplain Contamination Area; and 100-K-64, 100-KE Floodplain Contamination Area.

Other

Continued debris removal from the K West Basin.

Continued design of the 100K Area River Water Isolation, Electrical Power Isolation, and the K West Basin Airborne Contamination Remediation Projects.

Base

Facilities

Continued characterization and cold and dark activities at the 182K Water Reservoir Pump House; decontamination was initiated.

EMS Objectives and Target Status

Objective #	Objective	Target	Due Date	Status
10-EMS-100K-OB3-T1	Integrate methods for controlling air emissions into 106KE reactor core removal planning	Include methods for controlling air emissions in detailed design package	05/31/10	On Schedule
10-EMS-D&D-OB2-T2	Mitigate spill impacts	1) Develop spill management tools for routine activities (building demolition and surveillance and maintenance)	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 percent 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	3	7	<p>12/17/09 - D&D worker slipped on some ice on the floor and strained lower back. Worker was evaluated at AMH, provided a cold pack and over the counter medication at prescription strength, and returned to work with a restriction of no lifting, bending, or prolonged standing in a static position. (20603)</p> <p>12/28/09 - HPT slipped and fell on ice injuring left shoulder and right knee. Worker was treated with over the counter medication and released with no restrictions. (20616)</p> <p>12/29/09 - Heavy equipment mechanic reported experiencing upper chest and shoulder discomfort after working on a piece of heavy equipment. Emergency medical services were summoned as a precaution in case the discomfort was heart related. The employee was transported by ambulance to Kadlec Medical Center and underwent evaluation. Worker was released and is now treating for left shoulder injury. (20623)</p>
Near- Misses	0	0	N/A

KEY ACCOMPLISHMENTS

41.02 RC PRC River Zone Environmental

ARRA

Facilities

- Continued design of 105KE Reactor Disposition.
- Continued project definition of 105KE Reactor Disposition.
- Continued pre-characterization work of 105KE Reactor Disposition.
- Initiated cold and dark activities at 105KE Reactor.
- Continued characterization of 115KE, 116KE, and 117KE.
- Continued final disposition characterization at 183.2KW, 183.3KW, and 183.7KW.
- Continued removal of alum line in 183.1KW.
- Continued cold and dark at 115KE, 116KE, and 117KE.
- Continues asbestos abatement at 183.7KW.
- 1706KE/KER below-grade asbestos removal remains suspended due to structural integrity concerns. A statement of work for a structural consultant was prepared, and will be issued in January.

Waste Sites

- Remediation continued on 100-K-56. Work is in progress to truncate or air gap the 72-inch reactor cooling water effluent underground pipeline to prevent any water discharge to the outfall structure.
- Remediation continued on 100-K-47, 1904-K process sewer. Work is in progress to truncate or air gap the line.
- Remediation continued on UPR-100-K-1 with continued soil excavation. Started planning for the performance of a dry run for scabbling the discharge chute concrete.

Other

- Continued design of the 100K Area River Water Isolation, Electrical Power Isolation, and the K West Basin Airborne Contamination Remediation Projects.

**Base
Facilities**

- Continued characterization at 182K.
- Completed asbestos abatement at 182K.
- Continued cold and dark at 182K.
- Decontamination was initiated at 182K.

Waste Sites

- Completed the electrical wiring in the container transfer area tent. Final tie is scheduled for January 14.
- Planning is complete; work will begin on the remediation of 100-K-4 (Group 2 Waste Site).

MAJOR ISSUES

Issue Statement - Due to contamination levels in the soil associated with UPR-100-K-1/100-K-42, overall waste quantities will exceed the original project assumptions. Progress is less than anticipated due to additional radiological control requirements.

Corrective Action - A recovery plan will be prepared to analyze how much of the existing variance can be improved.

Status - A recovery plan is under development. With the scabbling and floor removal activity scheduled to be initiated in February, production rates should gradually increase with the removal of that source term. Preliminary samples are being taken at depth to clarify the overall nature and extent of contamination and to bind the excavation requires support the development of the baseline change request and recovery plan.

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	
KBC-022: Drawing Unavailability/Errors Cause Work Stoppage During Utility Isolation	Reroute utilities to prevent this scenario. Reconfiguration work planned during ARRA period.	●	↔	No new issues at this time.
KBC-002: Subcontract change orders/claims exceed planned allowances	Risk accepted without mitigation	●	↔	No issues at this time.
KBC-004: Contamination Depth Greater Than Planned, Increasing Waste Volumes to ERDF	RL Risk - No mitigation	●	↔	Risk has been realized and BCR is being prepared.
KBC-035: ERDF Packaging Can Shortage	RL Risk - No mitigation	●	↑	
PRC-044: ERDF Not Available for PRC Waste	RL risk. Note that ERDF has modified off-load procedures, began dumping containers in the queue, and resumed container shipments.	●	↑	Risk realized at KE Basin; impacts documented in BCR-012-09-005. RL provided additional funding for recovery from ERDF impacts.
KBC-008: D4 Delays Impact 100K Waste Site Cleanup	Plan/Schedule Monitor progress. Manage the project and its interfaces to prevent or minimize this risk. (Logistics in schedule) May need to have other workscope planned & ready to allow work-arounds.activities are delayed.	●	↔	Project was able to meet the remediation start dates in September; later than planned start will be carried into FY 2010.

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)
ARRA	-1.5	4.1	4.6	5.5	(365.5)	-0.5	(12.9)	221.5
Base	<u>1.9</u>	<u>2.2</u>	<u>0.9</u>	<u>0.3</u>	14.4	<u>1.4</u>	60.6	<u>328.3</u>
Total	0.4	6.3	5.5	5.8	1,369.3	0.8	13.2	549.8

Numbers are rounded to the nearest \$0.1M.

ARRA

CM Schedule Performance: (+\$5.5M/-365.5%)

The variance is due to point adjustments from implementing the Advanced Work Authorization (AWA). The major contributors are utilities reroutes (+\$3.0M) due to the AWA implementation, 105KE Reactor Disposition (+\$1.4M) on delayed site preparation and obstruction removal, Waste Sites (+\$0.7M) due to revised earned values methods in the AWA implementation, and facilities (+\$0.6M) for characterization sampling delays in preparation for D4.

CM Cost Performance: (-\$0.5M/-12.97%)

The negative variance is due to point adjustments from implementing the AWA.

Base

CM Schedule Performance (+\$0.3M/+14.4%)

The positive variance is within established reporting thresholds.

CM Cost Performance (+\$1.3M/+60.6%)

The positive variance is due to point adjustments from implementing the AWA. The major contributors are 105KE Reactor Disposition (+\$2.3M) having not incurred site preparation and obstruction removal costs, offset by project management (-\$0.5M) for which the FY 2010 budget was eliminated (moved to ARRA) as part of the AWA.

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)
ARRA	43.5	42.0	27.0	-1.4	(3.3)	15.0	35.7	221.5
Base	<u>11.5</u>	<u>11.5</u>	<u>10.9</u>	<u>-0.1</u>	<u>(0.9)</u>	<u>0.6</u>	<u>4.9</u>	<u>328.3</u>
Total	55.0	53.5	37.9	-1.5	(2.8)	15.6	29.1	549.8

Numbers are rounded to the nearest \$0.1M.

ARRA

CTD Schedule Performance: (-\$1.4M/-3.3 %)

The negative variance is within established reporting thresholds. The variance reflects implementation of the AWA, primarily waste sites (-\$1.0M) due to additional radiation control requirements and 105KE Reactor (-\$0.5M) due to deactivation.

CTD Cost Performance: (+\$15.0M/+35.7 %)

The positive variance is due to above average efficiency in work performance achieved, with the main contributors being: general and administrative/ project services distribution/direct distributables (+\$7.5), facility characterization (+\$2.8M) in preparation for D4; K West deactivation (+\$2.1M) for the debris removal campaign, 105KE Reactor (+\$1.4M) for site preparation and obstruction removal, utilities reroutes (+\$0.7M) where subcontracts are in process, and waste site remediation (+\$0.7M) for additional radiation control requirements.

Base

CTD Schedule Performance (-\$0.1M/-0.9 %)

The negative variance is within established reporting thresholds.

CTD Cost Performance (+\$0.6M/+4.9 %)

The positive 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		
	Projected Funding	Spending Forecast	Variance
ARRA	131.0	115.7	15.3
Base	<u>20.9</u>	<u>17.5</u>	<u>3.3</u>
Total	151.9	133.2	25.4

Numbers are rounded to the nearest \$0.1M.

Funds 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 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.