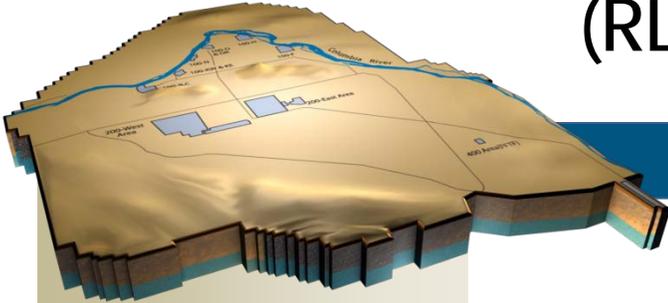


Section F Nuclear Facility D&D, River Corridor (RL-0041)



Monthly Performance Report

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181KW River Pump House demolition

July 2011
CHPRC-2011-07, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

American Recovery and Reinvestment Act (ARRA)

Facilities

Completed demolition load-out on the 105KE Reactor above-grade demolition of the west annex.

Continued project closeout on the 105KE Reactor Core Removal Project Final Design.

Continued demolition of the 181KW River Pump House/1605KW Guard House.

Continued with demolition of the 183.4KE Clear Well.

Completed asbestos removal in the 190KE Main Pump House and continued with asbestos removal in the 190KW Main Pump Houses and 165KE Power Control Building.

Waste Sites

All eight borehole samples at the east and west ends of the 105KE reactor building have been completed; sample results are beginning to be received and assessed. The additional direct push technology (DPT) logging activities are planned to be performed in late August.

RL has decided to move forward with a memorandum of agreement (MOA) on the final closure activities for waste site 100-K-63. The MOA was presented to the Tribes in July; final rework of the MOA is on-going with a workshop planned for August 3, 2011. MOA approval is TBD. Once received, CHPRC will be able to move forward with closure of this waste site.

The MOA for the 100K Area flood plain Waste Site 100-K-64 continues to be supported by CHPRC as RL works to finalize the wording contained in this agreement.

Continued waste site remediation of the below listed remove/treat/dispose (RTD) site:

Active Excavation on ARRA Waste Sites and Sub-Grade Structures	July 2011	
	Tons	Containers
100-K-77	2,288	109
Monthly Total	2,288	109
Previous Cumulative (all sites under ARRA)	130,342	7,088
ARRA Cumulative (fiscal year [FY]2009 to Date)	132,630	7,197

Other

The 100K Electrical Power Project transitioned from the existing A-7 yard to the new A-9 yard/substation. The system is performing as designed.

Base

Facilities

Continued 105KE Reactor engineering/planning activities for the design and construction of the Reactor Building safe storage enclosure (SSE) to place it in interim safe storage (ISS).

Continued below-grade demolition of the 1706KE Radiation Control Counting Laboratory and 1706KER Water Studies Recirculation Building.

Started above-grade demolition of the 183.2KE Sedimentation Basin.

Continued demolition and electrical work packages for 115KW Gas Recirculation Building.

Waste Sites

Continued waste site remediation of the below listed RTD sites:

Active Excavation on Base Waste Sites and Sub-Grade Structures	July 2011	
	Tons	Containers
100-K-42	2,252	131
100-K-47	200	9
100-K-53	872	42
105-KE Admin	4,908	245
105-KE West Wall	2,221	113
1706-KE	4,120	198
1706-KER	1,465	71
Monthly Total	16,038	809
Previous Cumulative (all sites under Base)	278,810	13,964
Base Cumulative (FY2009 to Date)	294,848	14,773

EMS Objectives and Target Status

Objective #	Objective	Target	Due Date	Status
10-EMS-100K-OB3-T1	Integrate methods for controlling air emissions into 105KE reactor core removal planning	Include methods for controlling air emissions in detailed design package	08/31/10	Complete
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	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	2	N/A
Total Recordable Injuries	0	5	N/A
First Aid Cases	4	29	<p>07/09 Ironworker developed right elbow pain while working in tight quarters and bumping elbow. (22108)</p> <p>07/20 Rigger, while lifting a block, felt a “pop” in low back. (22151)</p> <p>07/25 Mechanic smashed left index finger between a pin and railroad tie. (22157)</p> <p>07/26 Employee reported his left knee had “locked up” while walking on pavement. Knee became increasingly painful after a number of steps. (22160)</p>
Near-Misses	0	0	N/A

KEY ACCOMPLISHMENTS

ARRA

Facilities

- Work was completed on the 105KE Reactor Building Disposition Site Preparation/Phase I Demolition – ISS above-grade demolition of the West Annex.
- Project closeout continued on the 105KE Reactor Core Removal Final design.
- 110KW Gas Storage Facility demolition is complete. Load out is continuing.
- Continued demolition of the 181KW River Pump House. The 165KE Power Control Building demolition planning continued; asbestos removal activities continued.
- Completed deactivation of the 183.1KE Head House. Completed asbestos removal and above-grade demolition. Completed demolition of below-grade which was self-performed. Load out is continuing.
- Continue demolition on above-grade for the 183.3KE Filter Basin and load out. Initiated sampling plans to verify the 183.4KW/183.4KE Clear Well floors can remain in place.
- Continued with asbestos removal in 190KW as well as the demolition work plan.

Other

- Continued videotaping in the West Bay area and Weasel Pit.
- Performed annual check of the multi-canister overpack (MCO) loadout station (MLS).
- Conducted troubleshooting of the limit switch for the MLS Gantry.

100K Water Project

Close out of final project documents being completed.

Base**Facilities**

- Continued 105KE Reactor Disposition – ISS engineering/planning activities for the design and construction of the Reactor Building SSE.
- Continued 105KE Tunnel decontamination and asbestos removal which was started early to support adjacent ARRA facility demolitions.
- Continued below-grade demolition of the 1706KE Radiation Control Counting Laboratory and the 1706KER Water Studies Recirculation Building.
- Continued demolition of the 183.2KE Sedimentation Basin is on hold due to nesting birds.
- Completed asbestos abatement in the 183.7KE Tunnel.

Waste Sites

Waste sites 120-KW-1, 100-K-109, 100-K-102 are ready for closure.

MAJOR ISSUES

Issue – RL-0041 Waste Site Remediation will probably not be able to complete the remediation work scope tied to waste site 100-K-57 by December 31, 2012. The inability to complete this work by December 31, 2012, is being driven by the lack of an approved cultural resources mitigation action plan.

Corrective Action – Move this waste site from TPA Phase 1 to TPA Phase 3.

Status – CHPRC has drafted a TPA change package for RL to present to EPA for approval that will move this waste site from TPA Phase 1 to TPA Phase 3.

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	
RL-0041/WBS 041				
WSR-007: More Extensive Contamination Than Expected	Cannot control extent of contamination; no mitigation.	●	↔	No new issues this past month.
WSR-009: Different Remediation Approach	Clean up remedies are consistent with direction received from RL in the PRC. There is a risk that the regulators will require a different cleanup remedy that what is planned.	●	↔	It has been demonstrated that with ISS of 105-KE, two significant plumes will not be fully remediated under RTD. The project is researching a long term (i.e., 75 year), low cost stabilization that will retard water movement through the contaminated zone. Failure to retard precipitation will result in additional contamination to the groundwater and possibly the Columbia river unless more drastic measures are taken. There are alternative remediation strategies being discussed for the following waste sites: 100-K-42/UPR-100-K-1 (Fuel Storage Basin); 100-K-57 and 100-K-64 (100-K East Flood Plain), and 116-KE-1 (Ventilation Condensate Crib with Carbon-14 and Tritium). The client is being kept informed on developments.
KBC-044: 100 K Waste Sites Require Haz Cat Controls	Existing characterization data indicates the likelihood of this risk occurring is low; risk accepted without mitigation.	●	↔	Additional direct pushes and associated logging, along with pothole samples are being looked at as an option to better understand the path of contamination movement to the east and west and to the south around the 105-KE Reactor and former fuel storage basin. Logging data and sample results will be evaluated and used to assess the radiological inventory around and under the 105-KE reactor building.
KBC-045: 100 K East Basin Soil Disposition	Treatment will likely be in the form of waste blending in accordance with DSA for that site.	●	↔	This situation continues to be managed as load out effort continues from the 100-K-42 waste site.
KBC-020: Ecological/Cultural Conditions Restrict Field Activities	This risk will be monitored throughout work execution.	●	↔	Due to the complexities of the MOA process is not likely and it is too early to tell if remediation can be accomplished by December 31, 2012, putting the associated TPA milestone (M-016-53; due December 31, 2012) at risk.
WSR-020: Ecological/Cultural Conditions Restrict Field Activities	This risk is accepted as written and will be monitored throughout work execution.	●	↔	The risk status was changed to stable as there has been very little movement on memorandum of agreements that RL is drafting. With the MOA's approval, CHPRC will be able to initiate controlled remediation activities in the 100-K-57 waste site and initiate backfill or similar for 100-K-63. Completing remediation of this site under ARRA funds by the end FY2011 is not likely and it is too early to tell if remediation can be accomplished by December 31, 2012, putting the associated TPA milestone (M-016-53; due December 31, 2012) at risk.

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 (%)
ARRA	3.8	2.8	3.6	(1.0)	-25.5	(0.8)	-29.4
Base	<u>5.3</u>	<u>3.4</u>	<u>2.9</u>	<u>(1.9)</u>	-36.3	<u>0.5</u>	13.9
Total	9.1	6.2	6.5	(2.9)	-31.8	(0.3)	-5.7

Numbers are rounded to the nearest \$0.1M

ARRA

CM Schedule Performance: (-\$1.0M/-25.5 %)

Waste Sites (+\$0.0M) within reporting threshold.

100K Area Project (Facilities and Others) (-\$1.0M) The negative variance is due to the delays encountered earlier in the year related to the Utilities Upgrades which has impacted demolition of facilities. There will be no additional CENRTC purchases made this year and the treatment of the large diameter container (LDC) at T Plant will not occur in FY2011.

CM Cost Performance: (-\$0.8M/-29.4 %)

Waste Sites (+\$0.2M) The positive variance is within reporting threshold.

100K Area Project (-\$0.8M) The negative variance is primarily due to the K West Basin Debris Project collecting costs without performance; until the One-Time Request for Shipment (OTRS) is completed and the IP-2 shipped, no performance can be obtained.

Base

CM Schedule Performance (-\$1.9M/-36.3 %)

Waste Sites (-\$2.0M) The negative schedule variance is primarily due to high levels of contamination at 100-K-42 which have forced a strategic pause and re-evaluation of the path forward for waste sites in the 105KE fuel storage basin, encountering less contamination than expected at the 105KW head house Area AA thus ending excavation early, and cultural resource issues which continue to delay work in the 100-K-64 flood plain.

100K Area Project (Facilities and Others) (+\$0.1M) The variance is within reporting threshold.

CM Cost Performance (+\$0.5M/+13.9 %)

Waste Sites (\$0.0M) The negative cost variance is within reporting threshold.

100K Area Project (+\$0.5M) The positive variance is within reporting threshold.

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)	Estimate at Completion (EAC)	Variance at Completion (VAC)
ARRA	167.2	161.4	163.1	(5.8)	-3.5	(1.7)	-1.1	176.2	171.6	4.6
Base	68.2	64.3	62.2	(3.8)	-5.6	2.2	3.4	341.4	340.6	(0.8)
Total	235.4	225.7	225.3	(9.6)	-4.1	(0.5)	-0.2	517.6	514.0	(1.4)

Numbers are rounded to the nearest \$0.1M

ARRA**CTD Schedule Performance: (-\$5.8M/-3.5%)**

Waste Sites (-\$0.1M) The negative variance is within reporting thresholds.

100K Area Project (-\$5.7M) – The negative schedule variance is due to delays with the Utilities Project earlier in the fiscal year. This delayed the completion of demolition of several facilities. In addition, An Emergency Decontamination trailer (CENRTC) will not be purchased until FY2014; the treatment of the LDC currently being stored at T Plant will be deferred to the out years.

CTD Cost Performance: (-\$1.7M/-1.1%)

Waste Sites (+\$7.6M) – The positive cost variance is due to CSNA sites that were completed at less than anticipated cost. This is partially offset by greater than anticipated extent and severity of contamination on many waste sites resulting in more tons disposed and more controls required, thus higher than anticipated cost.

100K Area Project (-9.3M) – The negative cost variance is due to numerous design changes and additional punch list items in the Utilities Reroute project; the project has been utilizing more vehicles and equipment than was planned and Project Management continues to overrun due to increase charges for labor and materials.

Base**CTD Schedule Performance (-\$3.8M/-5.6%)**

Waste Sites (+\$0.0M) The positive schedule variance is within reporting thresholds.

100K Area Project (Facilities and Others) (-\$3.8M) The negative schedule variance is within reporting thresholds.

CTD Cost Performance (+\$2.2M/+ 3.4%)

Waste Sites (+\$4.9M) The positive cost variance is due to CSNA sites that were completed at less than anticipated cost. This is partially offset by greater than anticipated extent and severity of contamination on many waste sites resulting in more tons disposed and more controls required, thus higher than anticipated cost, as well as level-of-effort activities bearing additional costs for increased functional group support.

100K Area Project (Facilities and Others) (-\$2.7M) The negative cost variance is within threshold.

Estimate at Completion (EAC)

The BAC and EAC include FY2009 through FY2018, the PRC contract period.

The June to July ARRA EAC increase in River Zone D&D reflects the transfer of the 181KW River Pump House, 1706KER and 1706KE prior months costs. This scope was moved from Base to ARRA funding.

Contract Performance Report Formats are provided in Appendix A.

FUNDS vs. SPEND FORECAST (\$M)

WBS 041/RL-0041 Nuclear Facility D&D – River Corridor	FY2011		Spend Variance
	Projected Funding	Spending Forecast	
ARRA	67.7	66.7	1.0
Base	61.0	35.9	25.1

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

BCRA-PRC-11-041R0, General Administrative Changes for July 2011

MILESTONE STATUS

None at this time.

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.