

PROJECT SUMMARY

American Recovery and Reinvestment Act (ARRA)

Facilities

Completed resolving comments from the 105KE Reactor Core Removal Project Preliminary Design Review Meeting

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

Continued preparations to demolish the 110KW Gas Storage Facility

Completed demolition of the 117KE Exhaust Air Filter Building

Continued characterization of the 181KE River Pump House/1605KE Guard House

Completed above-grade demolition of the 183.1KE Head House

Began and completed demolition of the 183.4KW Clear Well east and west end sections; the center tunnel remains to be demolished.

Began demolition of the 183.4KE Clear Well

Continued asbestos removal preparations in the 190KE and 190KW Main Pump Houses and 165KE Power Control Building

Completed deactivation/cold and dark on 181KE/1605KE, 190KE, and 165KE

Waste Sites

CHPRC provided initial deep push technology (DPT) and logging data briefings to RL in late April. From the data reviewed and the discussions held, a request was made that CHPRC develop a recommendation for additional DPTs and pothole samples to provide additional contamination characterization to the east and west sides of the former discharge chute and the fuel storage basin. This recommendation will be briefed to RL by May 26, 2011.

The Memorandum of Agreement (MOA) for the two 100K Area flood plain waste Sites (100-K-63 and 100-K-64) continue to be supported by CHPRC as RL and the State Historic Preservation Office (SHPO) work to finalize the wording contained in these agreements.

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

Active Excavation on ARRA Waste Sites and Sub-Grade Structures	April 2011	
	Tons	Containers
117KE	5,003	235
100-K-53	5,252	245
Monthly Total	10,255	480
Previous Cumulative (all sites under ARRA)	110,368	6,157
ARRA Cumulative (fiscal year [FY]2009 to Date)	120,623	6,637

Other

The 105KW Basin heating, ventilation, and air conditioning project equipment is in operation and performing as anticipated.

The 100K Electrical Power Project is finalizing punch-list activities necessary to complete the transition from the existing A-7 yard to the new A-9 yard/substation. Transfer of electrical loads from A-7 substation to the new A-9 yard/substation is being coordinated with Mission Support Alliance, LLC (MSA) Electrical Utilities for early June.

The 100K Water Project placed the potable water system into sustained operations and continued to work punch-list items. The construction contractor was de-mobilized from the site.

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

Completed deactivation of the 183.2KE Sedimentation Basin and 183.7KE Tunnel and 1908K Outfall Structure

Completed removing the 115KW Gas Recirculation Building asbestos

Waste Sites

Shortly after resuming soil load outs from the 100-K-42 waste site in early April, the project realized that the soils being loaded out were too contaminated to be shipped to ERDF without significant blending (possibly at ratios of two-to-one up to eight-to-one). Given this condition, the load out of soils from 100-K-42 was significantly reduced until a plan can be devised that will allow for an as-low-as-reasonably-achievable approach to this remediation. The path forward for 100-K-42 is directly tied to the recommendation forthcoming on the 105KE Reactor discharge chute and fuel storage basin DPTs and potholing discussed above.

Continued waste site remediation of the below listed RTD sites:

Active Excavation on Base Waste Sites and Sub-Grade Structures	April 2011	
	Tons	Containers
100-K-42	2,386	137
100-K-47	257	13
120-KW-1	8,484	384
1706-KE	2,544	126
1706-KER	3,538	182
Monthly Total	17,209	842
Previous Cumulative (all sites under Base)	214,637	10,945
Base Cumulative (FY2009 to Date)	231,846	11,787

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	<ol style="list-style-type: none"> 1) Develop spill management tools for routine activities (building demolition and surveillance and maintenance) 2) Evaluate the need for lower tier project procedures to implement the PRC spill response procedure 3) Develop and provide awareness, prevention, response and mitigation training to >85 percent of project personnel as related to spill response 4) Review and validate pre-designations for commonly used chemicals at the facility 5) Incorporate new spill requirements into applicable procedures/work packages based upon issuance of spill response procedure 6) Evaluate the need for a system to pre-designate new chemicals 	03/31/10 04/30/10 05/30/10 06/30/10 04/30/10 06/30/10	Complete Complete Complete Complete Complete Complete

TARGET ZERO PERFORMANCE

	CM Quantity	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	2	N/A
Total Recordable Injuries	0	4	N/A
First Aid Cases	2	24	<p>4/18 An Electrician from 100K reported neck was tight from an unknown cause. (21914)</p> <p>4/27 A D&D worker from 100K was cinching a tarp on ERDF can when gust of wind came up, the worker tried to catch tarp that had fallen in the can and experienced pain in left shoulder. (21931)</p>
Near-Misses	0	0	N/A

KEY ACCOMPLISHMENTS

ARRA

Facilities

Work continued on the 105KE Reactor Building Disposition Site Preparation/Phase I Demolition – ISS activities to demolish the East and West Annexes.

110KW Gas Storage Facility is ready for demolition. This building was planned to be demolished with a facility sharing a common wall, but now will be removed separately.

Completed demolition of the 117KE Exhaust Air Filter Building, including additional concrete discovered several feet under the foundation. A baseline change request will be processed for the additional work scope.

Completed asbestos removal in the 181KE River Pump House. The facility (including the 1605KE Guard House on top of 181KE) was deactivated. Oil was removed from the pumps and is ready for characterization. A crane was mobilized to perform the 24 pump lifts next month.

The 165KE Power Control Building demolition planning continued; the facility was deactivated allowing asbestos removal to re-start.

Completed deactivation of the 183.1KE Head House. Completed asbestos removal and above-grade demolition. Began removal of below-grade tanks/equipment in preparation for below-grade demolition, which will be self-performed.

Hauled most of the concrete stockpile from the 183.2KW Sedimentation Basin to U Plant and brought back clean soil for backfill.

Completed deactivation of the 183.3KE Filter Basin. Samples were taken to determine if concrete debris can be re-utilized instead of being sent to the ERDF landfill.

Initiated sampling plans to verify the 183.4KW/183.4KE Clear Well floors can remain in place. 183.4KE completed deactivation (183.4KW was deactivated in FY2010).

Asbestos removal resumed in the 190KE Main Pump House, which completed deactivation, and preparations continued in the 190KW which will complete after electrical isolations occur in May.

Other

Continued to video and review for found fuel in the center and west bays of the 105KW basin

100K Electrical Power Project:

Closing out punch list items and coordinating the transfer of loads to the A-9 substation with MSA Electrical Utilities.

100K Water Project:

Placed the Service Water/Fire Water System into sustained operation

Base

Facilities

Continued 105KE Reactor Disposition – ISS engineering/planning activities for the design and construction of the Reactor Building SSE. Key activities completed were preparation of cost proposal/schedule, developing the plant forces work review for review/approval, preparation of the statement of work, and issued request for proposal for contractor bid preparation for contract placement of design/construction contracts for ISS.

Completed air-gaps in the 105KE Tunnel. Asbestos bagging and isolations were started early to support adjacent ARRA facility demolitions. Deactivation is anticipated very early next month, then remaining asbestos will be removed.

Completed the 115KW Gas Recirculation Building asbestos removal. Desiccant samples were taken to determine the disposal pathway. Demolition will be concurrent with the 117KW Exhaust Air Filter Building and 119KW Exhaust Air Sampling Building, both of which will be deactivated next month as part of the electrical utilities upgrade.

Continued below-grade demolition of the 1706KE Radiation Control Counting Laboratory and the 1706KER Water Studies Recirculation Building. The lay-back soil was discovered to be contaminated and will need to be disposed of at ERDF, which is a changed condition.

Completed deactivation of the 183.2KE Sedimentation Basin and completed preparation of the demolition work package. Sampling will be done to ensure the floors may be left in place.

Completed deactivation of the 183.7KE Tunnel. Sampling will be done to ensure the floors may be left in place.

Completed deactivation of the 1908K Outfall Structure. Demolition is planned in FY2012.

Waste Sites

Remaining Site Verification Plans for waste sites 118-KE-2 and 118-KW-2 were sent to RL and the U.S. Environmental Protection Agency for their review and comment.

MAJOR ISSUES

Issue – RL-41 Waste Site Remediation will not be able to complete the remediation work scope tied to ARRA funded waste site 100-K-57 by the end of September 30, 2011. The inability to complete this work by the end of the ARRA period, and quite possibly by the scheduled Tri-Party Agreement due date of December 31, 2012, is being driven by the lack of an approved cultural resources mitigation action plan.

Corrective Action – The risk status did not improve over the past month as the process for a MOA that RL has sent to SHPO for their review, comment, and approval has not progressed. It is not expected that the MOA will be approved in the near future. When the MOA is approved, CHPRC will be able to resume controlled remediation activities in the 100-K-57 waste site. 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.

Status – This issue continues to be addressed by RL and CHPRC senior management.

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-001A: KE Basin Phase IV Demolition Contamination Levels	Risk accepted without mitigation	●	↔	Contamination levels are expected to result in increased costs for subsurface waste removal and disposal.
KBC-002: Subcontract change orders/claims exceed planned allowances	Prepare accurate functional requirements and SOW, including flow-downs; monitor subcontractor activities and encourage early communication of problem areas	●	↔	This risk was realized as a result of unforeseen facility conditions (unassigned risk PRC-029); however, management reserve was utilized in accordance with PRC-051 (Investment in Schedule Acceleration/Recovery) to offset the risk impacts resulting from subcontract changes associated with the unforeseen conditions.
KBC-004: Contamination Depth Greater Than Planned, Increasing Waste Volumes to ERDF	Unassigned Risk - No mitigation	●	↔	Risk has been realized and change proposal and BCR are being prepared.
KBC-009: D4/Waste Site Interference	Integrate all 100 K work activities to minimize issues/conflicts between D4 activities and waste site remediation	●	↔	No issues at this time.
KBC-019: Groundwater Treatment Activities Impact D4/Waste Site RTD Activities	Coordinate with S&GRP to minimize impact to D4 and waste site remediation.	●	↔	No issues at this time.
KBC-020: Ecological/Cultural Conditions Restrict Field Activities	Accelerate cultural resource reviews to minimize schedule impact if cultural resource mitigation is required prior to initiating remediation	●	↔	BCR processed to utilize management reserve to offset cost impacts associated with ecological protections required for demolition of the 100K river structures (181KW, 181KE, and 1980K).
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-035: ERDF Packaging Can Shortage	Work closely with W&FM Project regarding ERDF packaging can needs to ensure can availability	●	↔	No issues at this time.
KBC-043: Waste Site Remediation Completion Requirements	Existing closure approach is consistent with WCH approach for balance of River Corridor waste sites; risk accepted without mitigation.	●	↔	No issues at this time.
KBC-044: 100 K Waste Sites Require Haz Cat Controls	Existing characterization data indicates the likelihood of this risk occurring is low; however, if it does occur the consequences may be medium to high with respect to cost and schedule impact.	●	↔	100-K-42 site is a Haz Cat 3 facility and has caused schedule delays.
KBC-045: 100 K East Basin Soil Disposition	Treatment will likely be in the form of waste blending for in accordance with DSA for that site.	●	↔	Some materials are having to be blended for 100-K-42, 100-K-47, and 100-K-70.
KBC-061: Technology Readiness Assessment Required for Reactor Core Removal and Demolition	Perform mock-up testing of equipment to demonstrate effectiveness; obtain early RL agreement of technology readiness approach.	●	↔	No issues at this time.
KBC-070: New SARP Required for Waste Packages	Very low probability of occurrence; risk accepted without mitigation	●	↔	No issues at this time.

RISK MANAGEMENT STATUS – continued

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-076: Treatment Required for 100 K RTD Waste Prior to Disposal	Review waste disposal records as part of RTD planning to identify potential issues prior to beginning retrieval; work with ERDF to determine minimum acceptable treatment to minimize quantity of waste that must be treated or disposed elsewhere.	●	↔	No issues at this time.
PRC-044: ERDF Not Available for PRC Waste	Unassigned risk. Note that ERDF has modified off-load procedures, began dumping containers in the queue, and resumed container shipments.	●	↔	No issues at this time.
WSR-007: More Extensive Contamination Than Expected	Cannot control extent of contamination; no mitigation.	●	↔	No new issues this past month. Continue to track and sample for apparent chemical contamination in the 100-K-120 waster site area.
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.	●	↔	There are alternative remediation strategies being discussed for the following waste sites: 100-K-57, 100-K-64, and 116-KE-1. 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; however, if it does occur the consequences may be medium to high with respect to cost and schedule impact.	●	↔	Direct pushes and associated logging have been completed at the 105-KE Reactor and former fuel storage basin. A path forward for completing remediation at 100-K-42 is now underway.
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 continues to be a working concern that is being addressed through approved procedures. Assuming that no other issues arise during the next month, this will be last month that this risk is stauted.
WSR-020: Ecological/Cultural Conditions Restrict Field Activities	This risk will be monitored throughout work execution.	●	↑	The risk status improved over the past month as CHPRC and RL have developed a memorandum of agreement that RL has sent to SHPO for their review, comment and approval. It is expected that the MOA will be approved on or before April 25, 2011. With the MOA's approval, CHPRC will be able to resume controlled remediation activities in the 100-K-57 waste site. Completing remediation of this site under ARRA funds by the end FY 2011 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	6.6	4.4	5.1	(2.2)	-33.0	(0.6)	-14.7
Base	4.7	5.1	3.9	0.4	7.6	1.2	23.8
Total	11.3	9.5	9.0	(1.8)	-16.0	0.6	5.9

Numbers are rounded to the nearest \$0.1M

ARRA

CM Schedule Performance: (-\$2.2M/-33.0%)

Waste Sites (-\$1.5M)

The negative variance is due to performance taken ahead of schedule in prior months and delays due to the 100K Utilities re-route (May) and cultural resource issues in the 100-K-64 flood plain. Additionally, 100-K-53 has experienced greater than planned extent of contamination. RL has been notified and contract direction is expected.

100K Area Project (Facilities and Others) (-\$0.7M)

The negative variance is (-\$0.6M) in 105KW deactivation due to taking performance in previous months for the early completion of removal of debris units and (-\$0.1M) in Project Management where CENRTC equipment was not purchased.

CM Cost Performance: (-\$0.6M/-14.7%)

Waste Sites (-\$0.1M)

The negative variance is from 100-K-53 experiencing greater than anticipated extent of contamination but no additional performance can be taken. RL has been notified and contract direction is anticipated.

100K Area Project (Facilities and Others) (-\$0.5M)

The negative cost variance is from several areas. 105KW Deactivation (-\$0.8M) is due to taking performance in previous months for the final debris campaign completing all 1,025 units ahead of plan, and incurring costs for accelerated debris disposal activities. Utilities 100K Water Project (-\$0.3M) is due to continued labor and material costs that are required to complete the work scope. The 105KE Reactor (-\$0.3M) where costs for the west annex below-grade demolition weren't anticipated. Project Management (-\$0.3M) is due to the higher number of vehicles being utilized by the project. These variances are partially offset by the positive cost variance in Structures Remediation (+\$1.1M) variance is due to delays from the utilities upgrade project causing work to be shifted to base facilities ready for demolition. Overhead allocations (+\$0.1M) are discussed in Appendix C.

Base

CM Schedule Performance (+\$0.4M/+7.6%)

The positive variance is within reporting thresholds.

CM Cost Performance (+\$1.2M/+23.8%)**Waste Sites (+\$1.4M)**

The positive variance arises from additional performance taken during the month to better align with progress in the field, over-stated performance on one activity resulting from rules of performance which will be corrected next month, and cost corrections processed during the month.

100K Area Project (Facilities and Others) (-\$0.2M)

The negative variance is primarily in Facilities (-\$0.6M) due to cold and dark/deactivation being unable to finish until after the utility projects complete in May. This is offset by 105KE Reactor (+\$0.3M) where characterization was performed efficiently and overhead allocations (+\$0.1M) which are addressed in Appendix C.

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	154.9	151.6	152.7	(3.3)	-2.1	(1.1)	-0.7	181.8	174.5	7.4
Base	56.0	54.2	51.4	(1.8)	-3.2	2.7	5.1	333.2	337.7	(4.4)
Total	210.8	205.8	204.1	(5.0)	-2.4	1.7	0.8	515.0	512.1	2.9

Numbers are rounded to the nearest \$0.1M

ARRA**CTD Schedule Performance: (-\$3.3M/-2.1%)**

The negative variance is within reporting thresholds.

CTD Cost Performance: (-\$1.1M/-0.7%)

The negative variance is within reporting thresholds.

Base**CTD Schedule Performance (-\$1.8M/-3.2%)**

The negative schedule variance is within reporting thresholds.

CTD Cost Performance (+\$2.7M/+5.1%)**Waste Sites (+\$5.1M)**

The positive variance is due to failed confirmatory sampling no further action and RTD sites 100-K-55 Part 1 and 100-K-56 Part 2 which were completed ahead of schedule with less effort than originally planned, partially offset by negative variances related to greater than planned extent, and severity of contamination in the 105KE fuel storage basin.

100K Area Project (Facilities and Others) (-\$2.4M)

The negative variance is due to Structures (-\$3.5M) primarily in the 1706KE/KEL/KER complex in prior years and Project Management (-\$1.1M) due to FY2010 General Site Cleanup overruns. These are partially offset by 105KE Reactor (+\$1.4M) due to efficiencies in cold and dark/characterization and overhead allocations (+0.8M) which are discussed in Appendix C.

Estimate at Completion (EAC)

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

The March to April EAC decreased in ARRA FOC 041.1, River Zone, (-\$2.8M) reflects replanning of the below-grade demolition of the 105KE East and West annexes. This scope was moved from ARRA to Base funding.

The Base FOC 041.1, River Zone, EAC increased \$5.7M from the prior month due to the replanning above, doubling of the 1706KE/KER complex below-grade demolition forecast due to contaminated soil and delayed electrical utility project completion coupled with an \$0.4M increase associated with the Displaced Workers Medical Benefits that will occur from FY2012 through FY2014 as a result of an RL approved reduction in force to be implemented in September 2011.

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		
	Projected Funding	Spending Forecast	Spend Variance
ARRA	67.7	66.9	0.8
Base	55.4	50.0	5.5

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

BCR-PRC-11-021R0, Transfer of Workforce Restructuring to ARRA Only

BCRA-PRC-11-033R0, Schedule Logic, Milestones and other General Administrative Changes, April 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.