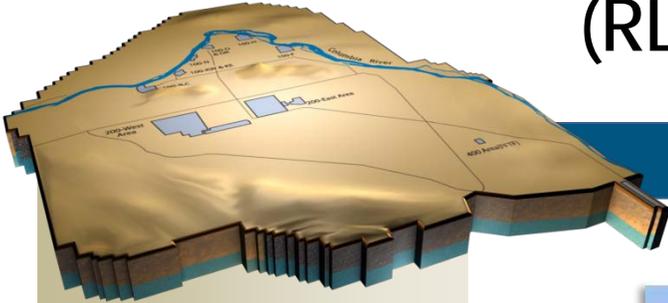


Section F

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



Monthly Performance Report

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November 2010
DOE/RL-2010-126-11, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

118KW – Before and After

PROJECT SUMMARY

American Recovery and Reinvestment Act (ARRA)

Facilities

- Completed the Preliminary Design Review Meeting for the 105KE Reactor Core Removal Project
- Work is continuing on 105KE Reactor Disposition Interim Safe Storage activities
- Began demolition for below-grade portions of the 115KE Gas Recirculation Building and 117KE Exhaust Air Filter Building
- Began characterization of the 181KE River Pump House/1605KE Guard House
- Continued characterization of the 183.1KE Head House
- Planned for disposal of stock-piled debris from the 183.2KW Sedimentation Basin
- Planned for deactivation on the 183.4KE Clear Well, 183.4KW Clear Well, and 190KW Main Pump House
- Began asbestos removal on the 190KE Main Pump House

Waste Sites

- Work was initiated on the 116-KE-1 Condensate Crib with the establishment of access and removal of overburden
- Work continued on cleanup around the 100-K-42 Fuel Storage Basin and associated discharge chute removal
- Continued waste site remediation of the below listed remove, treat, dispose (RTD) sites:

Active Excavation on ARRA Waste Sites or Subgrade Structure	Nov 2010	
	Tons	Loads
100-K-42	2,320	141
115-KE	680	31
117-KE	488	23
Monthly Total	3,488	195
Previous Cumulative (all sites under ARRA)	64,518	3,724
ARRA Cumulative (FY-09 to Date)	68,006	3,919

Additional excavation is pending in 100-K-42. Work remains suspended on UPR-100-K-1 (work performed as 100-K-42), 100-K-53, 100-K-77, and 116-KE-1 until D4 activities are completed in the immediate areas. 100-K-57 and 100-K-64 are suspended pending contractual action and preparation of a Cultural Mitigation Action Plan. Only those sites associated with the cultural mitigation plan are currently in jeopardy of missing the Tri-Party Agreement (TPA) milestones. Plans are being made to address the additional contamination removal where available.

Other

Sludge vacuuming has been completed overall in the K West Basin. Over 679 debris units have been removed or dispositioned from the K West Basin to date.

HVAC Project: HVAC equipment is in full sustained operation and performing as anticipated. HVAC components are working to provide a more suitable environment for K West Basin employees, and final closeout of punch list items are being worked in preparation for issuance of the final Construction Closure Document and demobilization of the subcontractor.

Electrical Project: Continued work on MSA-Electrical Utilities punch list activities necessary to complete transitioning from the existing A-7 yard to the new A-9 yard/substation. Complete transfer from A-7 yard to the new A-9 yard/substation is scheduled with Bonneville Power Administration for late-January.

Water Project: Operational Testing of the Microfiltration Unit has been delayed due to design changes for the building's fire sprinkler systems, fire detection system, and interior fire wall construction, all of which are required to obtain the Water Treatment Building occupancy permit. These designs are being reworked and operational testing is planned for mid-December.

Base

Facilities

- 105KE Reactor Disposition Engineering Evaluation/Cost Analysis (EE/CA), Draft A, is released for public comment. The 60% design review was conducted in November for the 105KE Reactor Core Removal Project as requested by RL.
- Continued deactivation of the 110KW Gas Storage Facility, 115KW Gas Recirculation Building, and 117KW Exhaust Air Filter Building
- Demolished the 118KW Horizontal Control Rod Storage Cave
- Planned for below-grade demolition of the 1706KE Radiation Control Counting Laboratory and 1706KER Water Studies Recirculation Building
- Deactivation is on hold for four buildings which will be removed at the same time; they cannot be removed until after their occupants and contents are moved to other buildings and connex boxes, respectively. The buildings are the 1717K Maintenance Transportation Shop, 1717AKE Electrical Shed, 1724K Maintenance Shop, and 1724KA Storage Shed.
- Demolished four K West mobile offices (MO236, MO237, MO323, and MO955)

Waste Sites

- Waste site 100-K-102 is in its third round of remediation as the staining and associated contamination plume is uncovered
- Waste site 120-KW-1 is a large excavation that includes waste sites 100-K-18, 100-K-34, and 120-KW-2. Due to the close proximity and required comingling of waste streams, the site is being excavated under one waste site name, specifically 120-KW-1. This site was advanced from 15 feet below grade to 18 feet below grade in order to successfully remove the contamination. Residual contamination above cleanup levels exists beyond 18 feet below grade; therefore, additional remediation is required. However, a sampling-related safety stand-down caused a drilling rig to be left on the approach ramp to this excavation restricting access for much of the month.
- Waste site 100-K-63 is being excavated under contract direction that establishes a not-to-exceed value of \$7.5M. An intensive sample campaign was conducted to determine the extent of contamination within the waste site. Sample data was received from the laboratory in mid-October and is being evaluated.

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

Active Excavation on Base Waste Sites	Nov 2010	
	Tons	Loads
100-K-102	8,062	422
120-KW-1	4,894	253
100K-63	4,621	210
Monthly Total	17,577	885
Previous Cumulative (all sites under ARRA)	166,362	8,583
ARRA Cumulative (FY09 to Date)	183,939	9,468

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	6	N/A
First Aid Cases	1	36	11/30 Laborer working at the 100K Remediation Project fell on the ice and injured ankle. Employee was assessed by AMH. The fall resulted in a fracture to the right ankle. (21546)
Near-Misses	0	0	N/A

During the month of November, the S&GRP surpassed a significant milestone having worked more than 1,200,000 hours over the past 12 months without a lost time event on all S&GRP work within RL-0030, RL-0040 and RL-0041.

KEY ACCOMPLISHMENTS

ARRA

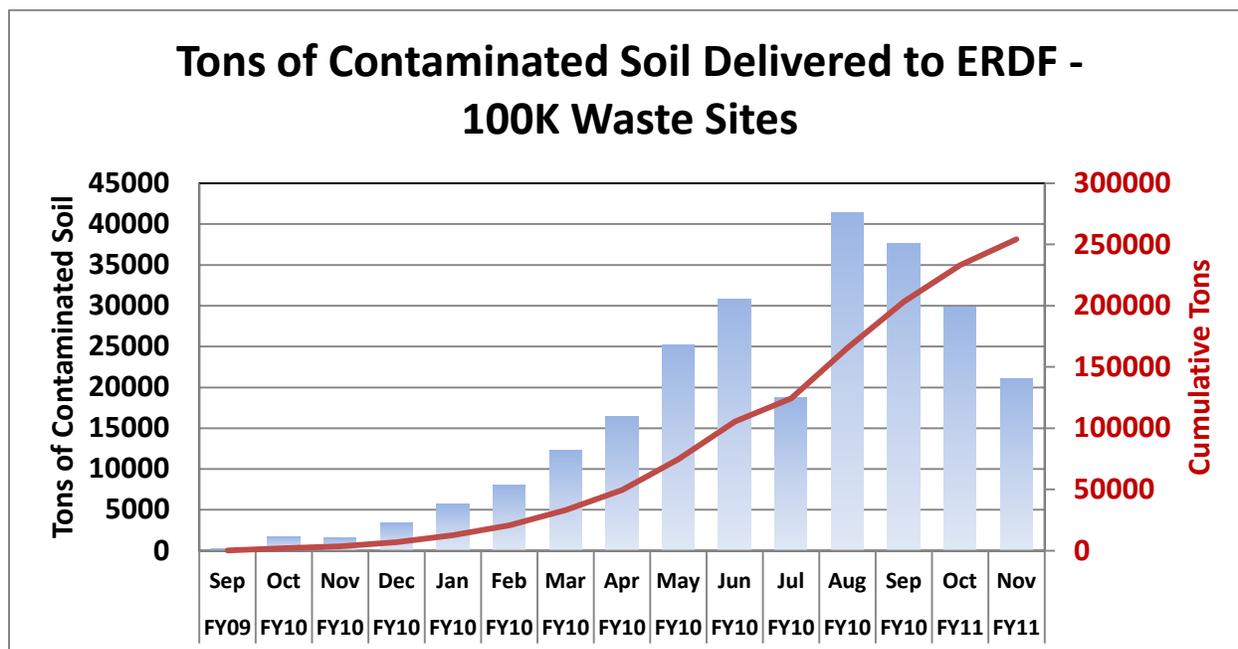
Facilities

- Completed the 105KE Reactor Core Removal preliminary design review
- 105KE Reactor continued demolition on the west side of the reactor building and initiated demolition of the 105KE discharge chute
- The 115KE Gas Recirculation Building below-grade demolition was initiated by Waste Site Remediation's subcontractor and should finish in March
- The 117KE Exhaust Air Filter Building below-grade demolition will begin in March, after the 115KE facility is removed
- Deactivation is being performed as a mega-package affecting 183.1KE Head House, 183.7KE Tunnel, 181KE River Pump House/1605KE Guard Shack, and 190KE/190KW Main Pump Houses. Deactivation is on hold but should complete in February after major electrical and water system upgrades are completed in late January. Characterization sampling of the 181KE River Pump House/1605KE Guard House should complete in mid-December. Demolition planning for procuring a river silt barrier and stockpiling rip-rap to backfill during demolition are in process so everything is ready for demolition once the facility is deactivated.
- Characterization sampling of the 183.1KE Head House was deferred to mid-December due to a stop-work at the lab doing the sample analysis. The lab's stop work was lifted at October fiscal month end and their backlog has impacted sample turnaround times.
- Demolition load-out of the stockpiled 183.2KW Sedimentation Basin debris is being planned. A contract is in place to create the haul road at U Plant and prepare a U Plant stock-pile area for receipt of this rubble by the end of January. Another contract is in process to haul the clean rubble to

- U Plant, then stop off and bring clean dirt back from ERDF which will be used for backfill at 100K.
- The only remaining glycol is in the 165KE Power Control Building glycol lines which will be drained after the 165KE boiler room asbestos removal is completed
- The 183.4KW and 183.4KE Clear Well deactivation was placed on hold, as part of the mega-package awaiting January utility upgrades. The 183.2KE Sedimentation Basin and both clear wells will continue to supply fire protection water until after major electrical and water system upgrades are completed in late January. The basins and clear wells must be drained prior to below-grade demolition of 182K Emergency Water Reservoir Pump House (detailed in base workscope below). This narrow window of opportunity is being carefully planned.
- Asbestos removal is on hold in the 190KE Main Pump House; below-grade asbestos was removed in prior months. Building occupants should be moved out in December, allowing above-grade asbestos removal to resume and complete in January. Accelerating asbestos removal will streamline progression to demolition once the mega-deactivation is completed in late January.

Waste Sites

Work progressed somewhat slower than expected for the month of November. Weather delays were caused by wind and snow during the month. The monthly total for November was somewhat diminished from recent months but still above plan.



HVAC Project

Performed successful systems testing under full operation

Electrical Project

- Began working closeout activities required for transitioning from A-7 yard to A-9 yard/substation.
- Completed grounding grid evaluation on the A-9 switch yard

Water Project

- Obtained subcontractor fire protection engineering support to resolve outstanding fire protection issues
- Successfully reworking and correcting issues with fire protection design and installation

Other

Completed sludge vacuuming in the K West Basin. Completed sludge sampling from Container 230 and began sampling from Container 210. For the Final Debris Campaign, 39 units were dispositioned and another 30 were identified to remain as placed, bringing the total number of units to 679.

Base

Facilities

- Completed 30-day public comment period for the 105KE Reactor Disposition EE/CA, Draft A
- 116KW Reactor Exhaust Stack is on hold. This facility has a slight risk of falling onto the 105KE Basin, thus was deferred from FY 2010. The waste site under this facility is related to a 2012 TPA milestone. Negotiations are under way on the TPA milestone, after which time the 116KW facility demolition will be re-scheduled after completion of the 105KE Basin work.
- 110KW Gas Storage Facility demolition will be performed with the nearby 115KW in January. The adjacent rail car offload station will be removed as part of this facility's cleanup.
- The 115KW Gas Recirculation Building additional hard-to-detect sampling is scheduled for December. Electrical isolation is planned in late December. The need for tie-down analysis on shipping the tanks to ERDF will be determined once desiccant sample results are received. Similar tanks in 115KE were determined to be Department of Transportation-shipped thus didn't require tie-down analysis. Asbestos removal was begun, and should complete in March.
- The 117KW Exhaust Air Filter Building characterization final report is complete. Electrical isolation is planned in mid-December. Above-grade demolition is planned to occur in January.
- The 118KW Horizontal Control Rod Storage Cave was demolished and debris loaded out
- The 119KW Exhaust Air Sampling Building electrical isolation is in process, and demolition should commence with the adjacent 117KW
- The 1706KE Radiation Control Counting Laboratory and 1706KER Water Studies Recirculation Building substructures have been turned over to Waste Site Remediation's subcontractor for removal with their adjacent waste sites. 1706KE below-grade demolition should begin in December through May, followed by 1706KER below-grade demolition.
- After the utilities upgrades finish in late January, a group of facilities will be deactivated as part of a "mega-package" approach. Their initial characterization walk downs have been performed, and characterization sampling finished in September. These facilities are 105KE/KW Tunnels, 1506K1 Fiber Optics Computer Hut, 165KE/KW Power Control Buildings, 166AKE Oil Storage Facility, 166KE/166KW Oil Storage Vaults, 167K Cross-Tie Tunnel and Building, 1705KE Effluent Water Treatment Pilot Plant, 181KW River Pump House/1605KW Guard House on 181KW, 183.2KE Sedimentation Basin, 183.3KE Filter Basin, 183.5KE/183.6KE Lime Feeder Buildings, and 185K Potable Water Treatment Plant. The 1908K Outfall and 1908KE Effluent Monitoring Station were added to this scope, which is accelerated from FY 2012. The 151K Electrical Substation was also added, which is accelerated from FY 2013. Once the en-mass deactivation occurs, the demolitions will be performed on a staggered schedule.
- Deactivation has been placed on hold for four buildings which will be removed at one time after the utility upgrades occur in late January. The buildings are the 1717K Maintenance Transportation Shop, 1717AKE Electrical Shed, 1724K Maintenance Shop, and 1724KA Storage Shed. Fifteen Connex boxes, two tents, and a new tool crib mobile office have been procured to replace the storage capacity, and a new array of K West mobile offices were built for current K West Operations support personnel and for future occupants needed to support the Sludge Treatment Project in out-years.
- Demolition is on hold for the 182K Water Reservoir Pump House. The below-grade water reservoir connects directly to the 183.4KE clear well, which provides the service water/fire protection water for 100K. The shut-off valves between these two facilities leak, thus below-grade demolition cannot commence until the new utility systems are operational this winter and the 183.4KE clear well water and 183.2KE sedimentation basins are drained.

- The 183KE Chlorine Vault is awaiting demolition. Operations will continue to utilize the building until after the utility upgrades in late January, after which time occupants will be re-located and demolition should commence.
- Leased facility MO872, Radiation Control Trailer, is being re-installed in its new location. A contract is being issued to hook up electrical power at the new site. A worker change trailer and separate shower trailer are being installed at the same time, planned in mid-December.
- Demolished four K West mobile offices (MO236, MO237, MO323, and MO955) and all the debris was loaded out. This demolition work was accelerated from FY2012.

Waste Sites

- Excavation of 100-K-63 is suspended waiting on data analyses to determine if the site currently meets the Remedial Action Goal of the Record of Decision (ROD)
- Closure work on 118-KE-2 and 118-KW-2 was initiated as D4 has completed removal of the sites

MAJOR ISSUES

Issue – Extent and severity of contamination in the UPR-100-K-1/100-K-42 waste site footprint and D4 demolition area is much higher than planned in the baseline. The significance of this higher-than-anticipated contamination is the work must be conducted under Nuclear Hazard Category 3 controls, productivity will be at a diminished rate, and a larger volume of contaminated soil will need to be removed.

Corrective Action – Mitigation of the issue tied to higher-than-anticipated contamination levels has not been resolved to date. Corrective actions have included maximizing productivity by ensuring the containers are loaded to their maximum weight without exceeding legal load limits. This yields a higher ton-per-container average with some positive influence on the overall schedule.

Status – D4 removal of the 105KE discharge chute started in mid-October and continues. Waste site work is on hold until the chute is removed.

Issue – 13 new sites have been discovered where radiological or chemical contaminants are above cleanup standards.

Corrective Action – The sites are being added to the contract via Change Proposal (CP).

Status – The CP/BCR process has been initiated for these newly discovered waste sites. An Advanced Work Authorization (AWA) was issued for 100-K-109. Work started in July under the AWA. A BCR for 100-K-97, -98, -99, and -100 was submitted for RL review but was returned and a change proposal was requested. CP-1061 addressing these four waste sites will be submitted to RL in early December. Additional CPs will be submitted for the sites not covered in CP-1061.

Issue – The remaining outages (electrical and water) will require significant integration with MSA and 100K Operations to minimize disruptions to existing activities.

Corrective Action – Established weekly meetings with MSA to coordinate outages and assure resources are available. Project Manager is coordinating with 100K Operations to determine best available outage times and define financial resource needs from MSA.

Status – An integrated schedule and MSA cost impacts are being developed to identify outages for electrical and water projects and provide time for MSA and 100K Operations to minimize impacts.

Issue – Activities required for cultural resources evaluation in the eastern flood plain are delaying the start of waste site 100-K-57.

Corrective Action – Pursue a partial release to begin work in unaffected areas of 100-K-57 while a Cultural Resources Review is conducted. Develop a Cultural Mitigation Action Plan acceptable to stakeholders in order to release the rest of the site.

Status - Analysis of artifacts is underway. A partial release is anticipated in December. The need for further mitigation has not yet been determined.

Issue – Procedure development and operational training for the HVAC and Water Projects may require more time than allotted.

Corrective Action – Project lead for the HVAC Project has defined 11 new procedures and one revision. Project lead for the Water Project has defined 21 procedures for modification.

Status – Seven HVAC procedures have been published to date with five through comment incorporation; five water procedures are through comment incorporation. Cost impacts are being defined for a BCR.

Issue – Change orders in the Power/Water/HVAC Projects have caused an increase in cost and schedule delays throughout the lifecycle of the Utilities Project. These change orders have been incurred due to design changes, additional material/equipment and labor, added subcontractor work scope (i.e., road improvements and debris removal), and unforeseen obstruction/underground utilities.

Corrective Action – Efficient evaluation, communication, and implementation of change orders/claims by Project Management and supporting staff to alleviate additional cost associated with implementing change orders/claims.

Status – Continuing communication between management, subcontractors and supporting staff to minimize schedule/cost impacts associated with change orders/claims. A Baseline Change Request is being prepared.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk

 Working - No Concerns
 Working - Concern
 Working - Critical

 Increased Confidence
 No Change
 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			No issues at this time.
KBC-004: Contamination Depth Greater Than Planned, Increasing Waste Volumes to ERDF	Unassigned Risk - No mitigation			Risk has been realized and BCR is 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			Although no impacts have been realized at this time, some sensitive cultural areas are expected to be encountered
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-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.
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.

RISK MANAGEMENT STATUS – continued

Unassigned Risk
Risk Passed
New Risk

 Working - No Concerns
 Working - Concern
 Working - Critical

 Increased Confidence
 No Change
 Decreased Confidence

Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
WSR-028: Unexpected Liquid in Pipelines/Tanks	Anticipate liquids in field work plans; include spill response plans in RD/RAWPs.			100-K-53 lines capped and drained; no issues this month.
WSR-046: Waste Site Dimensions	Complete design activities for waste sites scheduled to be remediated during the development process to verify the site dimensions. No further mitigation is feasible; risk is accepted.			This risk is being realized at 100-K Area waste site remediation. Additional contamination is being encountered above planned levels regularly. Efforts are underway to include the resulting additional waste volumes in a BCR. However, the listing of impacted sites is growing. At Waste Site 120-KW-1, contamination was found beyond the planned lateral dimensions of the site. Waste Site 100-K-102 is a newly identified site. In both cases an AWA was approved and subsequent BCRs are being processed. Additional contamination has been encountered on both sites beyond that approved in the AWA.
WSR-007: More Extensive Contamination Than Expected	Cannot control extent of contamination; no mitigation.			This risk has been realized in waste site remediation. Additional contamination is being encountered above planned levels regularly. BCR-10-047R0 has adjusted volumes for those sites that have been exceeded.
WSR-008: No Action Waste Sites	Confirmatory sampling is the only way to determine if "no action" waste sites require remediation; risk is accepted without mitigation.			Rate of failure has stabilized; the Project has initiated planning to determine full impacts.
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.			Same as CSNA for this effort, but may expand to 116-KE-2 and those sites associated with cultural resource issues. Planning is underway to determine the most appropriate paths forward.
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 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 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.
WSR-020: Ecological/Cultural Conditions Restrict Field Activities	This risk will be monitored throughout work execution.			New: A significant cultural discovery was encountered during active remediation of 100-K-63. The path forward is unclear at this time. On going: Remedial actions are not allowed in 100-K-57 due to the requirement of a Cultural Mitigation plan in a highly sensitive known cultural area. RL has been working with the Tribes since February 2010. This site is significantly behind schedule and is not anticipated to be recoverable within the ARRA window. If negotiations and work authorization restrictions continue the TPA milestone may be jeopardized.

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	1.4	2.7	4.2	1.2	88.4	(1.5)	-56.8
Base	8.8	2.6	3.3	(6.2)	-70.9	(0.7)	-28.7
Total	10.2	5.2	7.5	(5.0)	-48.9	(2.2)	-43.0

ARRA

CM Schedule Performance: (+\$1.2M/+88.4%)

Waste Sites (+\$1.7M)

The positive schedule variance is attributed to point adjustments related to implementation of BCR-PRC-10-048R0 which moved all remaining scope to a new area-based WBS.

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

The negative schedule variance is Facilities (-\$0.3M) due to deferred cold and dark; 105KE Reactor (-\$0.1M) attributed to RL verbal direction to delay the preliminary design review activities from July to November; and Project Management (-\$0.1M) due to an erroneous earned value code which will be corrected in December.

CM Cost Performance: (-\$1.5M/-56.8%)

Waste Sites (+\$0.0M)

The unfavorable cost variance for waste sites is negligible.

100K Area Project (Facilities and Others) (-\$1.5M)

The negative cost variances in Utilities (-\$0.9M) has two components: the electrical project mobile substation subcontract and the water project subcontract, both of which are incurring extra costs. The Facilities (-\$0.3M) where below-grade demolition is being planned (115KE and 117KE) but has not started; and cold-and-dark being worked but unable to complete until after late January utility upgrades occur. The 105KE Reactor (-\$0.8M) primarily due to the addition of the discharge chute demolition; and cost overruns due to labor mischarges and contract percentage splits against multiple accounts. These are offset by positive variances in K West deactivation (+\$0.1M) due to the Final Debris Campaign completing a total of 69 units; G&A (+\$0.3M) due to rate efficiencies; and Project Management/MSA Assessments (+\$0.1M) as usage is slightly down.

Base

CM Schedule Performance (-\$6.2M/-70.9%)

Waste Sites (-\$4.8M)

A large part of the schedule variance (-\$5.0M) is due to work on many waste sites that was completed early with performance taken in prior months, particularly 100-K-63; and the rest (+\$0.2M) is from minor affects of BCR-PRC-10-048R0.

100K Area Project (Facilities and Others) (-\$1.4M)

The negative variance is primarily due to (-\$1.1M) Facilities where cold and dark activities are being pushed by late January utility upgrades into February and 105KE Reactor (-\$0.3M) due to delayed start of the final design due to rescheduling the 60% design review from June to November.

CM Cost Performance (-\$0.7M/-28.7%)**Waste Sites (-\$0.5M)**

The current month cost variance is primarily related to effects of BCR-PRC-10-048R0 where work scope was moved to new WBS elements retroactive to the start of the fiscal month. Cost transfers will correct this next month.

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

The negative cost variance for Facilities (-\$0.2M) is due to relocating the 115KW tanks multiple times; and G&A (-\$0.1M) is rate application. This is offset by 105KE Core Removal (+\$0.1M) and is attributed to project design delays that have caused the project not to spend at the rate planned.

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	129.0	128.5	122.9	(0.5)	-0.4	5.6	4.4	169.4	162.1	7.3
Base	39.8	39.4	37.0	(0.4)	-1.1	2.3	5.9	380.0	373.7	6.3
Total	168.8	167.8	159.9	(1.0)	-0.6	7.9	4.7	549.4	535.7	13.7

Numbers are rounded to the nearest \$0.1M.

ARRA**CTD Schedule Performance: (-\$0.5M/-0.4%)**

The negative variance is within reporting thresholds.

CTD Cost Performance: (+\$5.6M/+4.4%)

The positive variance is within reporting thresholds.

Base**CTD Schedule Performance (-\$0.4M/-1.1%)**

The negative variance is within reporting thresholds.

CTD Cost Performance (+\$2.3M/+5.9%)**Waste Sites (+\$4.3M)**

The positive cost variance arises from completion of 100-K-56 Part 2 and CSNA scope at lower than anticipated cost.

100K Area Project (Facilities and Others) (-\$2.0M)

The negative variance is from Facilities (-\$0.7M) due to 1706KE/KEL/KER overruns on the above-grade demolition; Project Management (-\$0.7M) due to the higher-than-planned number of vehicles (MSC Services) being utilized by the project; and G&A (-\$1.5M) due to rate application. This is partially offset by the positive variance in 105KE Reactor (+\$0.9M) due to subcontractor design activity costs not being incurred as design was delayed from July 2010 to November 2010.

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		Variance
	Projected Funding	Spending Forecast	
ARRA	67.7	52.5	15.2
Base	<u>71.4</u>	<u>73.1</u>	<u>-1.7</u>
Total	139.1	125.7	13.5

Numbers are rounded to the nearest \$0.1M.

Funds/Variance Analysis:

Funding includes FY2010 carryover funds and FY2011 new budget authority. The current variance of Projected Funds to Spending Forecast is comprised of the following:
Projected under runs of \$0.4M in ARRA Scope and \$2.0M in Base Scope along with ARRA Management Reserve of \$16.8M (consisting of \$9.9M in Risk and \$6.9M in Funds Reserve) and Base Management Reserve of \$2.3M (consisting of \$1.0M in Risk and \$1.3M in Funds Reserve). Spend forecast also includes the allocation of R&RP for FY2011.

Critical Path Schedule

Critical Path Analysis can be provided upon request.

Estimate at Completion (EAC)

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

Baseline Change Requests

BCR-PRC-10-048R0, WBS Re-structure of Waste Site by Area, RL41
BCRA-PRC-11-008R0, General Administrative Changes for November 2010

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 Revision 2, submitted in January 2010, defines CHPRC planning with respect to TPA milestones. The following table is a one year look ahead of key milestones.

Milestone	Title	Type	Due Date	Actual Date	Forecast Date	Status/ Comment
M-016-140	Submit Revised RD/RA Work Plans for 100K RODs With New Milestones	TPA	3/31/11			Currently considered "at risk" due to issues with providing sludge treatment milestone dates and plans. DOE-RL plans on transmitting a notification and planned path-forward letter to EPA by mid-December.

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.