



## PROJECT SUMMARY

### American Recovery and Reinvestment Act (ARRA)

#### Facilities

Work continued on 105KE Reactor Disposition Interim Safe Storage activities. Hazardous material removal continued into August with asbestos removal completing on the east side of the reactor building. K East discharge chute demolition planning began in August with the development of the Documented Safety Analysis (DSA), waste and transportation documentation, and work package planning.

Began demolition of 115KE Gas Recirculation Building

Completed above-grade demolition/debris load-out of 116KE Stack

Began demolition of 117KE Exhaust Air Filter Building

Completed asbestos cleanup and continued pot-holing concrete and cleanup of the 1706KE Radiation Control Counting Laboratory and 1706KER Water Studies Recirculation Building below-grade levels

Completed demolition of the 183.1KW Head House

Continued demolition of the 183.2KW Sedimentation Basin, the 183.3KW Sand Filter, and the 183.7KW Tunnel

Continued characterization of the 183.1KE Head House

#### Waste Sites

The following table lists ARRA work sites and their current month production.

Active Excavation on ARRA Waste Site	August 2010		Contract to Date (9/28/09 – present)	
	Tons	Loads	Tons	Loads
100-K-3	-	-	5,507	392
100-K-42	-	-	9,688	660
100-K-47	-	-	17,393	1077
100-K-56	-	-	11,839	740
100-K-68	-	-	9,477	476
100-K-71	-	-	7,569	467
100-K-102	5419	279	17,159	899
116-KE-3	-	-	4,328	217
120-KW-1	4,724	273	22,899	1,239
183.1-Soils	-	-	12,291	625
183.1-Debris	69	5	9,038	562
100K-63	22,137	1044	29,950	1415
100-K-53	-	-	350	24
<b>Total</b>	<b>32,349</b>	<b>1,601</b>	<b>157,488</b>	<b>8,793</b>

Active excavation work continued at 120-KW-1, 100-K-63 and 100-K-102. Additional crews were brought in to recover schedule yielding record production rates

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 comingling waste streams, the site is being excavated under one waste site name, specifically 120-KW-1. This site was advanced from 6 feet below grade to 15 feet below grade in order to successfully remove the associated contamination. 100-K-63 is being excavated under contract direction that establishes a not-to-exceed value of \$5M. Given the current ability to increase production rates, this waste site will meet the do-not-exceed constraint before mid-September.

Additional excavation is pending in 100-K-42, 100-K-47, and 116-KE-3. Work remains suspended on UPR-100-K-1 (work performed as 100-K-42), 100-K-3, 100-K-53, 100-K-56, 100-K-68, 100-K-69, 100-K-70, 100-K-71, 100-K-77, and 116-KE-1 until D4 completes their activities 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 TPA milestones. Plans are being made to address the additional contamination removal where available.

### **Other**

Sludge vacuuming completed in K West Basin Center Bay and began in the West Bay with a targeted completion date for sludge removal of September 30, 2010. Over 610 debris units have been removed from the K West Basin to-date.

**HVAC Project:** Work continues on the K West Basin Airborne Contamination Remediation Project; all 810 linear feet of interior ducting has been installed; this includes drops and diffusers. Approximately 391 feet of insulation for the vent ducting has been installed, resulting in 65% completion. The concrete pads for the three HVAC/HEPA skids are complete; the three HVAC/HEPA units are complete and are en-route to the 100K Site. Activities to define procedural and training requirements are in progress.

**Electrical Project:** Work continued on the 100K Reactor Power Isolation Project with continued installation of skid components and necessary testing of the five skids. Trenching and installation of the new conduit duct bank from the new Switchgear Building to two skids has been complete. All control cables for the substation have been pulled and terminated, including termination of the cables to the transformers. Fabrication activities for the mobile control substation are complete. Delivery of the first transformer is scheduled for August 25, 2010, and delivery of the second transformer was accelerated to August 26, 2010. The 13.8kv project is underway with installation of 17 of 20 new 13.8kv poles installed.

**Water Project:** Work continued on the 100K River Water Infrastructure Isolation Project with completion of the inside-the-fence fire water and potable water piping (Phases II, III, and IV) installation (Balance of Piping). Installation of the import water line outside-the-fence to Helen's Junction is complete, and final tie-in to the raw water line is scheduled for August 29, 2010. Interior walls, mechanical components, and electrical wiring are being installed inside the Water Treatment Building with placement of the Microfiltration Unit set for early September. The Dual Use Water Tank has been installed, painted, and is awaiting fill/hydro testing on September 1, 2010. The subcontractor has removed rock piles from the export water line excavation site and is preparing for hydro seeding. Activities to define procedural and training requirements are in progress.

### **Base**

#### **Facilities**

105KE Reactor Disposition EE/CA Draft A is being reviewed by the regulators. Developmental testing of the bio-shield wall demolition was completed in August. The 60% design submittal is on schedule to be completed October 15, 2010.

Completed characterization and continued deactivation of 110KW Gas Storage Facility

Continued characterization and deactivation of the 115KW Gas Recirculation Building

Completed deactivation and began demolition of the 117KW Exhaust Air Filter Building

The 118KW Horizontal Control Rod Storage Cave has been decontaminated and is ready for demolition

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.

Deactivation is on hold for four K West mobile offices to be removed as a group (MO236, MO237, MO323, and MO955) once the occupants have been moved to other buildings.

### Waste Sites

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

Waste Site	August 2010		Cumulative (9/28/09 – present)	
	Tons	Loads	Tons	Loads
100-K-4	-	-	2,989	210
1607-K3	1,571	81	1,571	81
100-K-109	7,502	413	7,502	413
<b>Totals</b>	<b>9,073</b>	<b>494</b>	<b>12,062</b>	<b>704</b>

Excavation on a newly discovered site 100-K-109 was completed to the original planned design lines and grades. Preliminary sample results indicate that the bottom of the excavation is fairly clean, but a shallow lens of contamination may continue along the railroad line outside of the initially perceived limits of the waste site.

Waste that was stockpiled from 1607-K3 was loaded and shipped to ERDF for disposal.

## 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	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	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	1	N/A
Total Recordable Injuries	0	6	N/A
First Aid Cases	5	40	<p>08/03 – 105KW RCT received a bug bite. Worker was taken to AMH for evaluation. Worker was examined and released to work without restrictions. (21166)</p> <p>08/03 – 1706KE Insulator was bitten on right side of face on the cheek by a spider. Worker was taken to AMH for evaluation, given over the counter medication, and returned to work without restrictions. (21167)</p> <p>08/16 – 100K Pipefitter working outside suffered a sting and was taken to AMH for evaluation. Worker was examined and returned to work with no meds and no restrictions. (21234)</p> <p>08/26 – 105KW NCO sat down in a chair and felt a biting sensation near the hip area. Worker was taken to AMH and was diagnosed with a rash. Worker was given OTC meds and returned to work without restrictions. (21263)</p> <p>08/27 – An RCT was taken to AMH on 8/30 for right wrist and thumb pain and soreness that reportedly occurred as a result of using survey meters. Worker was examined, given a soft splint and returned to work with restrictions. (21279)</p>
Near-Misses	0	0	N/A

## KEY ACCOMPLISHMENTS

### ARRA

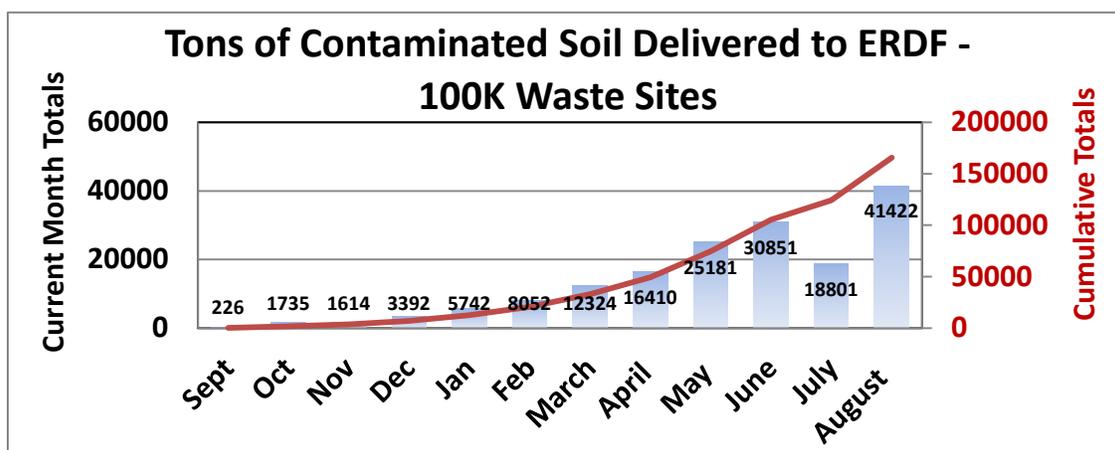
#### **Facilities**

- Completed asbestos removal on the east side of the reactor
- The 115KE Gas Recirculation Building sampling results require installation of grout ports on the tanks which will then be grouted at ERDF; this work package is in process. Above-grade demolition began in mid-August and should complete in late September, at which time the facility will be turned over to the Waste Site Remediation team to remove the below-grade structure as part of their waste site. The building is being opened up, the tanks will be removed and set aside, and then the grout ports will be installed on the tanks while building demolition continues.
- The 116KE Reactor Exhaust Stack debris was removed in early August. Any below-grade demolition will be conducted with adjacent waste site remediation.
- The 117KE Exhaust Air Filter Building above-grade demolition began in early August and should complete in early September, at which time the facility will be turned over to the Waste Site Remediation team to remove the below-grade structure as part of their waste site

- The 1706KE Radiation Control Counting Laboratory and 1706KER Water Studies Recirculation Building completed asbestos cleanup, removal of hydrazine, and pot-holing of sewer lines. The final concrete removal in both 1706KE and 1706KER should be done by early September, and then the substructures will be turned over to Waste Site Remediation’s subcontractor for removal with their adjacent waste sites.
- The final pallet of debris from the 183.1KW Head House was disposed of, completing this work scope
- Demolition of the final South wall remained on hold in August for the 183.2KW Sedimentation Basin while the adjacent waste site soil was removed. Enough soil has now been removed to re-start demolition in September.
- Glycol removal was completed for 165KE. Glycol has been drained from all but 115KW and 165KW and will be performed as fill-in work.
- Continued demolition of the 183.3KW Filter Basin, which should complete in early September. Demolition took several months longer than planned as the footers were found to be 7-10 foot thick, instead of the standard depth shown on the drawings.
- Demolition continues on the 183.7KW Tunnel pipe gallery, which is planned to finish in late September
- Characterization of the 183.1KE Head House should complete in September. Deactivation was placed on hold and will complete after major electrical and water system upgrades are completed this fall.
- The 183.4KW and 183.4KE Clear Well final characterization reports were completed. Deactivation was placed on hold and will complete after major electrical and water system upgrades are completed this fall.

**Waste Sites**

- A substantial portion of ARRA and Base Confirmatory Sample No Action (CSNA) work was completed and results transmitted to DOE for information. Only one ARRA waste site, 100-K-79, remains within the CSNA work scope.
- Production rates continued at above-planned rates setting a record-breaking month in August at 41,422 tons of contaminated wastes received at ERDF. This 41,422 tons represents 25% of the total waste shipped from 100K waste sites starting in September 2009. During August, an average of 110 roll-on/roll-off containers, holding an average of 21 tons of waste, were received at ERDF each day.



**HVAC Project**

- Installed all 810 lf of interior ducting
- Continued shop fabrication and prep work for interior/exterior duct connections to HVAC/HEPA Units
- Installed 391 feet of insulation for the interior ducting with 601 feet remaining (65% complete)
- Completed fabrication and quality assurance inspection of the three HVAC/HEPA Units

**Electrical Project**

- Completed installation of new conduit duct bank from the new Switchgear Building to two skids
- Completed installation of underground conduit
- Framed and installed 17 of 20 new 13.8Kv poles
- Strung new aerial conductors from the Water Treatment Plant to existing 13.8kv pole
- Completed fabrication and quality assurance inspection of mobile control substation (delivery to 100K set for August 25-26, 2010)

**Water Project**

- Continued EPC Construction Services trench excavation, pipe install, and backfill around 105KW (Fire Loop System). At month end, excavated, installed and backfilled 98% of fire water piping around 105KW/CVDF with 500 linear feet of 4-inch potable water pipe remaining from CVDF to the 167K cross-tie tunnel.
- Construction subcontractor completed trenching, pipe install, and backfill of all fire water and potable water and initiated potable water testing for balance of piping inside the fence
- Continued installation of process piping and mechanical components inside the Water Treatment Plant building
- Completed construction of dual-use water tank

**Other**

- Completed sludge vacuuming in the Center Bay of the K West Basin and began vacuuming in the West Bay. Continued preventative maintenance to support multi-canister overpack (MCO) proficiency test in September. Began preparations for the MCO proficiency test.

**Base****Facilities**

- 105KE Reactor Disposition Engineering Evaluation/Cost Analysis (EE/CA) Draft A has been submitted to regulators for review and comment
- Completed characterization on 110KW Gas Storage Facility. Several pencil tanks inside the building were verified to be empty. Deactivation is on hold until after the utility upgrades occur this fall, but mechanical isolation work packages are in process.
- The 115KW Gas Recirculation Building characterization samples were completed. Additional sampling required by Radiation Control should occur in September. Deactivation is on hold until after the utility upgrades occur this fall, but electrical and mechanical isolation work packages are in process.
- The 117KW Exhaust Air Filter Building was accelerated from FY2011. The cover needs to be lifted and “sniffed” to ensure safe access prior to continuing characterization.
- The 118KW Horizontal Control Rod Storage Cave was accelerated from FY2011. This building is ready for demolition, which will commence once the demolition crew from the 183.7KW Tunnel is available.
- Deactivation has been placed on hold for four buildings which will be removed at one time after the utility upgrades occur this fall. The buildings are the 1717K Maintenance Transportation Shop, 1717AKE Electrical Shed, 1724K Maintenance Shop, and 1724KA Storage Shed.

- 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 fall and the 183.4KE clear well water and 183.2KE sedimentation basins are drained.
- The 183KE Chlorine Vault power was isolated and the demolition work package has been drafted. Operations will continue to utilize the building until after the utility upgrades this fall, after which time demolition should commence.
- Leased facility MO872 Radiation Control Trailer is ready for re-installation in its new location. The building site is being evaluated (expect re-siting to occur in November) and vendors were contracted to attach electrical power at the new site.
- Deactivation is on hold for four K West mobile offices to be removed as a group (MO236, MO237, MO323, and MO955). Personnel should move into other offices in September/October, after which deactivation will resume. This will accelerate this demolition work from FY 2012 into FY 2011.
- After the utilities upgrades finish this fall, a group of facilities will be deactivated. Their initial characterization walk downs have been performed, and characterization sampling commenced in August and will finish in September. These facilities are 105KE Tunnel, 105KW Tunnel, 110KW Gas Storage Facility, 115KW Gas Recirculation Building, 1506K1 Fiber Optics Computer Hut, 167K Cross-Tie Tunnel and Building, 183.5KE/183.6KE Lime Feeder Buildings, 183.7KE Tunnel, 166AKE Oil Storage Facility, 166KE/166KW Oil Storage Vaults, 190KE Main Pump House, and 165KW Power Control Building. Once the en-mass deactivation occurs, the demolitions will be performed on a staggered schedule.

#### Waste Sites

- Continued 100-K-63 excavation and completed excavation on 1607-K3 and 100-K-109

## MAJOR ISSUES

**Issue Statement** – 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 PMB. The significance of this higher-than-anticipated contamination is that the work must be conducted under nuclear Hazard Category three 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 is planning for removal of the discharge chute. Waste site work is on hold until the chute is removed.

**Issue Statement** – Thirteen 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.

**Status** – The CP/BCR process has been initiated for these newly discovered waste sites. An Advanced Work Authorization 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 DOE review but was returned and a change proposal was requested.

**Issue Statement** – Extent and severity of contamination in multiple waste sites is much higher than anticipated.

**Corrective Action** – Work is continuing on these sites in order to meet ARRA and TPA milestones even though the cost and schedule are impacted.

**Status** – Meetings were held with RL and a decision to transfer the additional scope beyond the ARRA volumes to Base. An administrative change is anticipated from the RL Contracting Officer, a BCR is being prepared.

**Issue Statement** – Outages (electrical and water) will require significant integration with MSA Electrical Utilities (EU) and 100K Operations to minimize disruptions.

**Corrective Action** – Project Manager has established weekly meetings with MSA EU to coordinate electrical outages and assure resources are available. Project Manager is coordinating with 100K Operations to determine best available outage times.

**Status** – Schedule developed to identify outages for electrical and water projects and provide time for MSA EU and 100K Operations to minimize impacts.

**Issue Statement** – Procedure development and operational training for the water treatment plant may require more time than allotted.

**Corrective Action** – Project Leads have defined procedure needs (modification or new development) for HVAC and Water Treatment Facility.

**Status** – Resources identified to support procedural development and schedule developed to track progress.

**Issue Statement** – Change orders in the Power/Water/HVAC Project 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.

### 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	●	↔	The Utilities Reroutes project has had several design changes to incorporate required fire protection and other requirements and to address unmarked utilities encountered in the field. The cost impacts are being evaluated.
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	●	↔	Although no impacts have been realized at this time, some sensitive cultural areas are expected to be encountered

## 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-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.
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 contamination extent; no mitigation.	●	↔	This risk is being realized at 100K 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-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 failures is down for August.
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-4.
WSR-020: Ecological/Cultural Conditions Restrict Field Activities	This risk is accepted as written and will be monitored throughout work execution.	●	↓	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.
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.

## 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 (%)
<b>ARRA</b>	7.4	11.7	16.2	4.3	57.3	(4.5)	(38.6)
<b>Base</b>	1.3	5.8	2.3	4.5	359.4	3.5	60.4
<b>Total</b>	<b>8.7</b>	<b>17.5</b>	<b>18.5</b>	<b>8.8</b>	<b>100.9</b>	<b>(1.0)</b>	<b>(5.9)</b>

### ARRA

#### CM Schedule Performance: (+\$4.3/+57.3%)

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

The positive schedule variance is Utilities (+\$2.1M) with execution of field work on the electrical and water projects beginning to recover schedule slippage and (+\$0.4M) from 183KW Sedimentation Basin Complex recovering some schedule from prior months. This is offset by a negative schedule variance in K West Deactivation (-\$0.7M) due to the small and medium debris disposition campaign being delayed by the MCO proficiency test; and Project Management (-\$0.4M) where the processor for the PC8001C-8 and two Connex boxes were not received by month end.

Waste Sites (+\$2.9M)

A significant schedule variance has been reported during this period. This value has fluctuated from the previous months with a (+\$6.0M) reversal in trend. Significant positive contributors include the following elements: (+\$3.4M) is associated with completion of 100-K-55 Pipeline Part 1 with significantly less effort than planned; (+\$0.3M) is associated with acceleration of waste sites 100-K-102, and 100-K-63; (+\$0.1M) is associated with acceleration and completion of substantial portions of CSNA work. This is offset by negative contributors; (-\$0.7M) due to encumbered access due to D4 priorities and removal of the discharge chute; (-\$0.1M) is related to waste site 116-KE-1 where access should be granted by D4 in mid-September; (-\$0.02M) is related to 116-KE-2 which must be moved to Group 2 to align with the TPA milestones and fit with utility relocation work; and (-\$0.03M) is due to 116-KE-3 where the base volume has been excavated but schedule is slipping as the additional amount of contamination is determined. Additionally, a drywell was encountered in the base of the excavation at 45 feet below ground. This well must be decommissioned before work can proceed.

#### CM Cost Performance: (-\$4.5M/-38.6%)

100K Area Project (Facilities and Others) (-\$7.8M)

The negative cost variances in Utilities (-\$2.9M) has two components: the electrical project (-\$2.6M) mobile substation subcontract and the water project (-\$0.3M) subcontract, both of which are incurring extra costs to maintain the schedule; K West deactivation (-\$1.5M) due to no work performed on the small and medium debris disposition campaign (see SV discussion) although vacuuming activities were performed; G&A (-\$1.5M) due to the August pass back; Facilities (-\$1.0M) on the 183.3KW Filter Basin where additional ERDF costs have been incurred as the footers were significantly thicker than the drawings showed, and increased 1706KE/KER costs due to removal of equipment/piping in the substructure that was not planned; 105KE Reactor (-\$0.5M) due to delay in 60% design submittal review project management is costing more than estimated; and Project Management/MSA Assessments (-\$0.4M) due to D&D facility remediation site housecleaning activities being charged to the General Site Cleanup account, and July's vehicle rental billing being paid in August (along with the August billing) attributed to the PBS overrun this month (allocation based on direct costs).

**Waste Sites (+\$3.3M)**

The positive cost variance is directly related to the following factors: (+\$4.0M) is associated with completion of 100-K-55 Pipeline Part 1 with significantly less effort than planned; (+\$0.2M) is associated with completion and acceptance of CSNA work by RL; offset by (-\$0.9M) Group 1 RTD excavation beyond anticipated volumes and contaminant levels effecting closure actions. Currently 13 sites have required excavation beyond planned volumes and one site remains a Nuclear Category three site.

**Base****CM Schedule Performance (+\$4.5/+359.4%)**

100K Area Project (Facilities and Others) (-\$0.8M)

The negative variance is (\$-0.6M) Facilities where a large group of buildings have begun the characterization/deactivation planning process, but no field work can be performed until after the utilities upgrade occurs this fall, so no performance could be taken; and 105KE Reactor (-\$0.2M) due to 60% design submittal being delayed until October 2010.

**Waste Sites (+\$5.3M)**

A positive schedule variance is a dramatic correction from last month's (-\$1.0M). This reversal arises from two primary factors: (+\$2.5M) is associated with completion of 100-K-56 Part 2 with much less effort than anticipated; (+\$2.0M) was added when RL accepted CSNA documentation; and (+\$0.8M) is associated with early completion of CSNA scope.

**CM Cost Performance (+\$3.5M/+60.4%)**

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

The negative variance is 105KE Core Removal (-\$0.3M) attributed to delay in finalization of core characterization and 60% design submittal; G&A (-\$0.2M) due to the August pass back; and Facilities (-\$0.2M) of numerous small charges.

**Waste Sites (+\$4.2M)**

This positive cost variance is a large change (+\$4.1M) from last month's report due to the following factors: (+\$2.7M) is associated with early completion of CSNA work; (+\$1.6M) is associated with completion of 100-K-56 Part 2 with much less effort than anticipated; partially offset by (-\$0.1M) which was due to delays to various RTD sites.

## 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)
<b>ARRA</b>	119.6	117.0	106.8	-2.6	-2.2	10.2	8.7	189.8	176.5	13.3
<b>Base</b>	<u>21.5</u>	<u>24.2</u>	<u>21.6</u>	<u>2.7</u>	<u>12.7</u>	<u>2.6</u>	<u>10.7</u>	<u>377.5</u>	<u>348.9</u>	<u>28.6</u>
<b>Total</b>	<b>141.1</b>	<b>141.2</b>	<b>128.4</b>	<b>0.1</b>	<b>0.1</b>	<b>12.8</b>	<b>9.0</b>	<b>567.3</b>	<b>525.4</b>	<b>41.9</b>

Numbers are rounded to the nearest \$0.1M.

**ARRA****CTD Schedule Performance: (-\$2.6M/-2.2%)****Waste Sites (-\$2.4M)**

The significant schedule variance is much improved (+\$2.9M) from last month. Generally, the cumulative schedule variance is associated with slow starts to Advance Work Authorizations (AWAs) and the inability to progress waste sites around 100-K-42 until completion of the 105KE Fuel Storage Basin discharge chute removal. Specifically, the schedule variance arises from the following factors: (+\$2.1M) is associated with completion of 100-K-55 Pipeline Part 1 being performed with significantly less effort than planned; and (+\$1.2M) is gained with acceptance of a majority of CSNA waste sites by DOE. This is partially offset by (-\$2.0M) representing schedule delays associated with inability to progress waste sites 100-K-3, 100-K-42, 100-K-47, 100-K-71, 100-K-56, miscellaneous Group 1 RTD sites, and 100-K-53 into D4 encumbered work areas; approximately (-\$1.0M) SV from 100-K-57 is realized because work cannot proceed until a DOE-issued cultural mitigation plan is accepted by the tribes. Work is in progress to initiate research, design and laboratory evaluation of current artifacts collected in the 1990's by PNNL; 12 sites have encountered additional contamination above planned limits and show approximately (-\$0.9M) SV contribution; 100-K-63 started later than the AWA date and is carrying (-\$0.8M) SV contribution. This will be fully recovered by October 1 if production remains at the current rates. The remainder of the sites in this WBS are delayed (-\$1.0M) and cannot proceed further until D4 controlled property is made available.

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

The positive variance in K West Deactivation (+\$3.1M) is due to an early start on small debris removal and vacuuming. This is offset by negative variances in Facilities (-\$1.4M) where 183.3KW demolition is taking over twice as long due to the footers being 7-10 feet thick (which was not on the drawings), 115KE/117KE Gas Buildings where work was paused until the 116KE stack was demolished, and 1706KE/KER asbestos removal which had a late start to ensure the below-grade building was structurally sound before asbestos removal was begun. The 105KE Reactor (-\$1.1M) negative schedule variance is due to availability of insulators to complete asbestos removal and the late start of demolition activities. Utilities (-\$0.6M) caused by delay in construction activities due to late release of design criteria for contract bid proposal submittals. The Power Isolation Project planned to have the Mobile Substation delivered and the 13.8KV power re-route completed in May, however, due to late contract award, these have been delayed three months. The River Water Infrastructure Isolation Project planned to have construction complete in June but is forecasting completion in early September. And Project Management (-\$0.2M) due to the processor for the PC8001C-8 and 2 Connex boxes receipt slipping into September.

**CTD Cost Performance: (+\$10.2M/+8.7%)**

Waste Sites (+\$4.2M)

The positive cost variance is caused by early completion of 100-K-55 Part 1 and CSNA sites.

100K Area Project (Facilities and Others) (+\$3.0M)

The positive variance is from K West deactivation (+\$3.9M) for the debris removal campaign removing smaller debris units first and efficiencies from utilizing experienced staff. Facilities (+\$2.6M) is due to 183.2KW ERDF disposal cost avoidance offset by 1706KE/KER asbestos material overruns. The 105KE Reactor Disposition (+\$0.9M) is attributed to decontamination work utilizing less engineering and administrative staff than planned. These are offset by a negative cost variance in the Project Management (-\$3.2M) where D&D facility remediation site housecleaning activities have been charged to the General Site Cleanup account; and the utility water project (-\$1.2M) for the water treatment system and dual-use water storage tank costing less than originally estimated.

Project Support &amp; Services (+\$3.0M)

G&amp;A achieved efficient use of assigned resources.

**Base****CTD Schedule Performance (+\$2.7M/+12.7 %)**

Waste Sites (+\$4.1M)

A positive schedule variance is a dramatic correction from last month. This reversal is due to the following factors: (+\$1.9M) was added when RL accepted CSNA documentation; (+\$1.4M) is associated with completion of 100-K-56 Part 2 with much less effort than anticipated; and (+\$0.8M) is associated with early completion of CSNA scope.

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

The negative variance is from Facilities (-\$1.1M) where a large group of buildings have begun the characterization/deactivation planning process, but no field work can be performed until after the utilities upgrade occurs this fall, so no performance could be taken; and 105KE Reactor (-\$0.3M) due to delay in completion of core characterization and 60% design submittal.

**CTD Cost Performance (+\$2.6M/+10.7 %)**

Waste Sites (+\$3.0M)

The positive cost variance arises from early completion of 100-K-56 Part 2 and CSNA scope.

100K Area Project (Facilities and Others) (-\$0.4M)

The negative variance is from Facilities (-\$0.7M) due to 1706KE/KEL/KER overruns last year on the above-grade demolition; Project Management (-\$0.6M) due to the higher-than-planned number of vehicles being utilized by the project; and G&A (-\$0.3M) due to rate adjustments. This is partially offset by the positive variance in 105KE Reactor (+\$1.2M) due to over-estimation of enabling documents and core characterization costs.

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

## Funds vs. Spend Forecast (\$M)

WBS 041/RL-0041 Nuclear Facility D&D – River Corridor	FY2010		
	Projected Funding	Spending Forecast	Variance
<b>ARRA</b>	99.4	110.4	(11.0)
<b>Base</b>	<u>35.6</u>	<u>16.7</u>	<u>18.9</u>
<b>Total</b>	<b>135.0</b>	<b>127.1</b>	<b>7.9</b>

Numbers are rounded to the nearest \$0.1M.

### Funds/Variance Analysis:

Projected Funding includes FY2009 carryover funds and FY2010 new budget authority. A number of actions are being evaluated to address the ARRA negative variance.

### 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. Facility D&D activities are being re-estimated as part of PMB Rev. 2 Update. This effort reduces the facilities ARRA EAC -\$1.2M (up \$1.5M in FY2010 but down -\$2.7 in FY2011). Overall, the ARRA EAC decreased by -\$9.7M from last month (up +\$1.1M in FY2010 but down -\$10.8M in FY2011).

### Baseline Change Requests

BCRA-PRC-10-0520R0, FY 2010 to FY 2011 Base Year Escalation Shift

## 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			On Schedule

## 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.