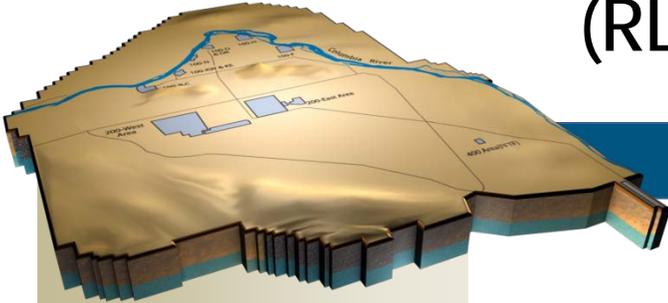


Section F Nuclear Facility D&D, River Corridor (RL-0041)



Monthly Performance Report

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New 182K, Water Treatment Facility and Tank at 100K Area

January 2011
CHPRC-2011-01, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

American Recovery and Reinvestment Act (ARRA)

Facilities

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

Work continues on 105KE Reactor Disposition Site Preparation / Phase I Demolition - Interim Safe Storage (ISS) activities to demolish the East and West Annexes

Continued demolition for below-grade portions of the 115KE Gas Recirculation Building and 117KE Exhaust Air Filter Building

Continued characterization of the 181KE River Pump House/1605KE Guard House and the 183.1KE Head House and adjacent tanks

Issued a contract for the disposal of stock-piled debris from the 183.2KW Sedimentation Basin Complex. Planned for deactivation on the 183.4KE Clear Well, 183.4KW Clear Well, and 190KW Main Pump House.

Continued asbestos removal on the 190KE Main Pump House

Waste Sites

Continued removal of the 116-KE-1 Condensate Crib. Spoils excavated and removed from the waste site to this point are being screened and segregated for backfill at a later date. Previous work on this site indicated that contamination will be encountered around 30 feet below ground level.

Continued cleanup around the 100-K-42 Fuel Storage Basin and associated discharge chute removal

Began the planning for soil characterization beneath the 105KE Reactor (118-KE-1) using Direct Push Technology

Extensive coordination is occurring with Deactivation, Decommission, Decontamination, and Demolition (D4) and the utility upgrade project to minimize impacts

RTD work on 100-K-57 has not been initiated as the Cultural Review process has not been completed. Sites associated with the cultural mitigation plan are currently in jeopardy of missing TPA milestone M-016-053 dated December 31, 2012.

Continued waste site remediation of the below listed RTD sites:

Active Excavation on ARRA Waste Sites and Sub-Grade Structures	Jan 2011	
	Tons	Loads
100-K-42	3,513	211
115KE	1,193	62
117KE	607	31
100-K-53	2,244	111
Monthly Total	7,557	415
Previous Cumulative (all sites under ARRA)	73,563	4,239
ARRA Cumulative (FY2009 to Date)	81,120	4,654

Other

Sludge vacuuming has been completed in the K West Basin. Eight hundred sixty two of 1,025 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, providing a more suitable environment for K West Basin employees. All punch list field work is complete.

Electrical Project: Continued work to close out punch list activities necessary to complete transitioning from the existing A-7 yard to the new A-9 yard/substation. Included is the drilling of the first of two grounding wells near the new A-9 substation. Transfer of electrical loads from A-7 substation to the new A-9 yard/substation is scheduled with Bonneville Power Administration for late February.

Water Project: Operational testing of the microfiltration unit has been completed. Redesign of the building's fire sprinkler systems, fire alarm system, interior fire wall construction, diesel fire pump piping, and fire tank instrumentation are complete with installation continuing. Transition to the new potable water system has been planned for mid-February.

Base

Facilities

Continued asbestos removal in the 105KE Process Water Tunnel

Continued preparations to demolish the 110KW Gas Storage Facility

Continued deactivation of the 115KW Gas Recirculation Building and 117KW Exhaust Air Filter Building

Began draining water from the 183.2KW Sedimentation Basin in preparation for transition to the new water system in mid-February

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

105KE Reactor ISS Engineering/Planning activities have begun for the design and construction of the Reactor Building Safe Storage Enclosure (SSE)

Waste Sites

Completed removal and disposal of the 100-K-3 pipeline

Continued work in 100-K-47 and 100-K-71 waste sites

Work was focused on priority ARRA sites and supporting building demolition

Continued waste site remediation of the below listed RTD sites:

Active Excavation on Base Waste Sites and Sub-Grade Structures	Jan 2011	
	Tons	Loads
100-K-47	1,429	67
100-K-71	820	38
1706-KE	1,242	70
Monthly Total	3,491	175
Previous Cumulative (all sites under Base)	188,842	9,705
Base Cumulative (FY09 to Date)	192,333	9,880

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	5	N/A
First Aid Cases	4	36	01/17 Employee heard a ‘pop’ and felt pain in lower back after tripping on stairs. (21657) 01/23 While cutting tie wraps, employee cut through glove, causing laceration to hand. (21680) 01/26 Employee felt pain in shoulder while pulling a bungee cord to hook on a can. (21688) 01/27 RCT heard a ‘pop’ in his ribs while reaching into a cardboard box for an ERDF can tarp. (21691)
Near-Misses	0	0	N/A

KEY ACCOMPLISHMENTS

ARRA

Facilities

D4 completed demolition of the 105KE Reactor discharge chute

Continued 105KE Reactor Site Preparation / Phase I Demolition of the reactor building annex structures

Continued 115KE Gas Recirculation Building and 117KE Exhaust Air Filter Building below-grade demolition

The 181KE/181KW contracts were released for procuring a river silt barrier and stockpiling rip-rap to backfill during demolition

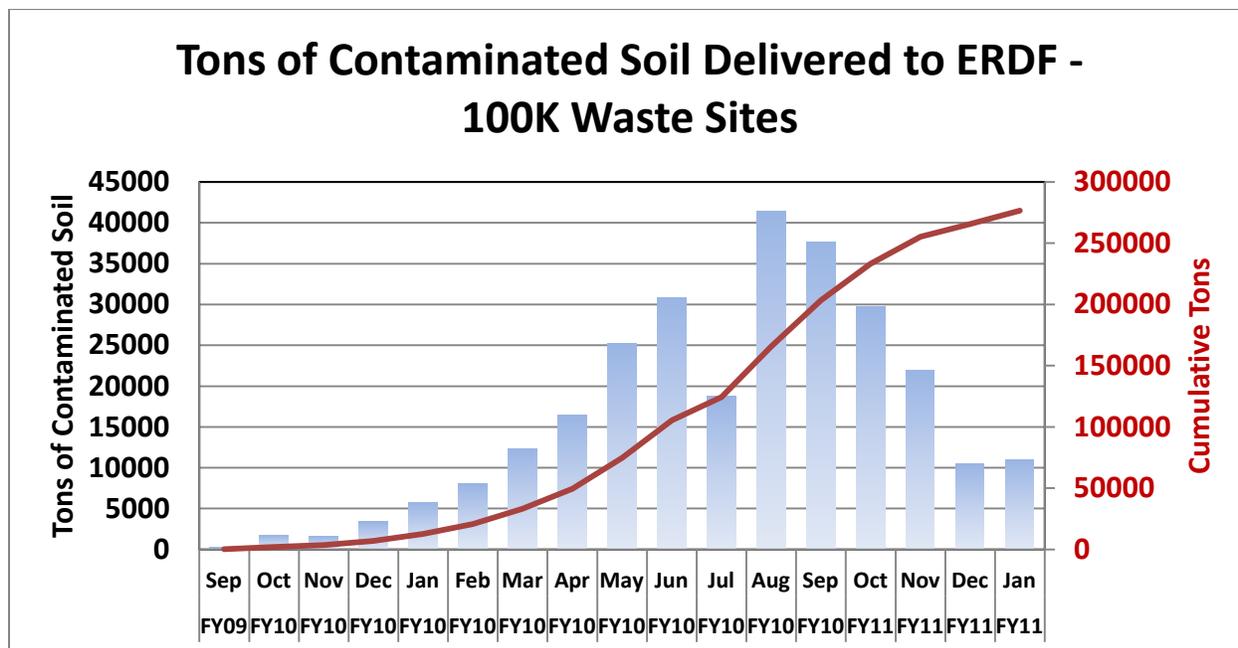
Asbestos removal continues in the 190KE Main Pump House. Materials stored in this building were moved to other storage areas.

Began 190KW Main Pump House scaffold installation and stringing electrical lights in preparation for asbestos removal

Waste Sites

Work identifying a process forward for elevated contamination beyond planned values for waste sites in TPA Phase 1 sites was worked with RL with formal direction pending

The majority of waste was removed and disposed at ERDF for the 105KE Fuel Storage Basin Discharge Chute materials. These materials have a substantial radiological inventory and require additional handling and packaging considerations.



HVAC Project

All punch list items are complete.

Electrical Project

Continued working closeout activities required for transitioning from A-7 yard to A-9 yard/substation in late February

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 reworked and corrected issues with fire protection design and installation

Submitted to Washington State Department of Health the Operational Performance Testing Report for the new Potable Water Treatment Plant on January 27, 2011

Other

Completed sludge vacuuming in the K West Basin, and continued to video and review for found fuel in the East Bay of the K West Basin. The Final Debris Campaign continued dispositioning 140 units in January, for a total of 862 leaving 163 units to go.

Base**Facilities**

The 115KW Gas Recirculation Building asbestos removal continued. Completed an outage to isolate the electrical line in 115KW/117KW Exhaust Air Filter Building/119KW Exhaust Air Sampling Building from the 105KW Reactor Building.

Continued below-grade demolition of the 1706KE Radiation Control Counting Laboratory. The subcontractor for the below-grade demolition of 1706KER Water Studies Recirculation Building was awarded to the same vendor, which should allow these adjacent sites to be worked more efficiently.

Began draining water from the 183.2KW Sedimentation basin in preparation for transition to the new water system in mid February

Leased facility MO872, Radiation Control Trailer, was re-installed in its new location. The electrical power was installed and only HLAN drops remain to be done.

105KE Reactor ISS Engineering/Planning activities have begun for the design and construction of the Reactor Building SSE

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 ROD

Closure work on waste sites 118-KE-2 and 118-KW-2 was initiated as D4 has completed removal of the sites

MAJOR ISSUES

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.

Status – An integrated schedule and MSA cost impacts were 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 - Stakeholder approval of the Cultural Resources Review is anticipated in March. The need for further mitigation has not yet been determined.

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), design inadequacies, and unforeseen obstruction/underground utilities.

Corrective Action – Identify recoverable impacts and implement change orders/claims.

Status – Continuing communication between management, subcontractors, and supporting staff to minimize schedule/cost impacts associated with change orders/claims. BCR-R41-11-001R0 has been approved and implemented.

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	●	↔	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
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.	●	↔	This risk has been realized in waste site remediation. Additional contamination is being encountered above planned levels regularly.
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.	●	↔	Planning is underway to address the appropriate path(s) 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.	●	↔	Direct pushes will be performed at 105-KE to help determine the extent of contamination under the reactor building and throughout the area of the former FS. Once the DPTs are complete, remediation at 100-K-42 will be able to resume.
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 at the 105-KE discharge chute and in 100-K-42.
WSR-020: Ecological/Cultural Conditions Restrict Field Activities	This risk will be monitored throughout work execution.	●	↔	The Cultural Review Report was submitted to SHPO and the Tribes for 100-K-63 on 1/19/11 for a 30 review and comment period. 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. This remediation of this site is behind schedule; recovery is not expected this fiscal year. 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	7.2	7.3	4.8	0.0	0.3	2.5	34.3
Base	4.2	1.4	1.4	(2.8)	-66.7	0.0	1.3
Total	11.4	8.7	6.1	(2.8)	-24.2	2.5	29.0

Numbers are rounded to the nearest \$0.1M

ARRA

CM Schedule Performance: (+\$0.0M/+0.3%)

The positive variance is within reporting thresholds.

CM Cost Performance: (+\$2.5M/+34.3%)

Waste Sites (-\$0.5M)

The negative variance is primarily due to greater than anticipated costs for load-out of debris from the 105KE discharge chute (-\$0.3M). The remaining variance is due to cost corrections processed during the month.

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

The positive cost variance in Utilities (+\$2.7M) is attributed to a point adjustment from implementation of BCR-R41-11-001R0; K West deactivation (+\$1.1M) is primarily due to the final debris campaign, which dispositioned 183 units for the month; Facilities (+\$0.3M) is from the 183.2KW Sedimentation Basin debris lay-down yard/haul road costs being incurred; 115KE/117KE where below-grade planning costs occurred, but no BCWP can be taken until demolition actually starts; cold-and-dark being planned but unable to complete until after mid-February utility upgrades occur; and G&A/project support services (+0.3M) where efficiencies are occurring. These variances are partially offset by negative cost variances in Project Management (-\$0.7M) due to cost transfers and the 105KE Reactor (-\$0.7M) due to continuing removal of the discharge chute. NOTE: Had some of the scope for the 105KE Reactor ISS work not be inadvertently removed with the Contract Price Adjustment BCR processed in December, the CM ARRA Cost Variance would have been +\$4.6M.

Base

CM Schedule Performance (-\$2.8M/-66.7%)

Waste Sites (-\$1.2M)

A large part of the schedule variance (-\$0.9M) is due to waste sites that are on hold awaiting completion of demolition and load-out of the 105KE discharge chute. The remaining variance arises from waste sites awaiting completion of the utility upgrades.

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

The negative variance is primarily due to cold and dark activities being pushed into mid-March due to late-February utility upgrades (-\$1.5M).

CM Cost Performance (+\$0.0M/+1.3%)

The positive variance is within reporting thresholds.

NOTE: Had some of the scope for the 105KE Reactor ISS work not be inadvertently removed with the Contract Price Adjustment BCR processed in December, the CM Base Cost Variance would have been +\$0.6M

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	138.7	137.5	133.5	(1.2)	-0.9	4.0	2.9	178.4	175.1	3.3
Base	49.1	43.2	41.4	(5.9)	-12.0	1.8	4.3	321.0	334.5	(13.5)
Total	187.8	180.7	174.9	(7.1)	-3.8	5.9	3.3	499.3	509.6	(10.2)

Numbers are rounded to the nearest \$0.1M

ARRA**CTD Schedule Performance: (-\$1.2M/-0.9%)**

The negative variance is within reporting thresholds.

CTD Cost Performance: (+\$4.0M/+2.9%)

The positive variance is within reporting thresholds.

NOTE: Had some of the scope for the 105KE Reactor ISS work not be inadvertently removed with the Contract Price Adjustment BCR processed in December, the CTD ARRA Cost Variance would have been +\$4.6M

Base**CTD Schedule Performance (-\$5.9M/-12.0%)**

Waste Sites (-\$1.4M)

The negative schedule variance is due to waste sites near the 105KE reactor building that are awaiting completion of demolition of the discharge chute or the 1706KE facilities.

100K Area (Facilities and Others) (-\$4.5M)

The negative schedule variance is from Facilities (-\$4.5M) where cold and dark activities are being pushed into mid-March due to late February utility upgrades.

CTD Cost Performance (+\$1.8M/+4.3%)

The positive variance is within reporting thresholds.

NOTE: Had some of the scope for the 105KE Reactor ISS work not be inadvertently removed with the Contract Price Adjustment BCR processed in December, the CTD Base Cost Variance would have been +\$2.4M

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	67.5	.2
Base	55.4	53.1	2.3

Numbers are rounded to the nearest \$0.1M.

Funds/Variance Analysis:

Funding includes FY2010 carryover and FY2011 new Budget Authority. The positive variances reflect an approved realignment of ARRA and Base workscope. Continued implementation of a site integrated work scope prioritization plan will further align work scope with proposed revised funding levels.

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-R41-11-001R0 100K Utilities Reroute – Construction Closeout, Punch List & Realized Risk
 BCR-R41-11-002R0 104KE Reactor ISS to Contract Proposal
 BCRA-PRC-11-019R0 Administration Changes for January 2011

MILESTONE STATUS

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.