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# Monthly Performance Report

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**January 2012**  
CHPRC-2012-01, Rev. 0

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### PROJECT BASELINE SUMMARY SECTIONS

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## EXECUTIVE SUMMARY

The Engineering, Projects & Construction (EPC) Project team achieved a project milestone with the inoculation of the 200 West Groundwater Treatment Facility. Crews placed microorganisms, or “bio bugs,” into tanks within the facility. The task was a major step toward beginning operations of the facility.

The Plutonium Finishing Plant (PFP) Closure Project team loaded the first glovebox into the recently procured Standard Large Box 2 (SLB2) container. Implementing the containers was a joint effort between Waste and Fuels Management (W&FM) and PFP to procure and deploy the containers that will help more efficiently transport gloveboxes for disposal at the Waste Isolation Pilot Plant.



**PFP crews load a glovebox into a Standard Large Box 2 (SLB2) container**



**Demolition of PFP's 2736-ZB Vault Complex continues**

intended to promote the free flow of information. The mailbox is maintained by CHPRC General Counsel. Responses are posted to the CHPRC intranet.

The Decommissioning and Demolition (D&D) team continued demolition at the PFP 2736-ZB Vault Complex, moving on to the main facility.

The W&FM team completed the Acceptance Testing Plan (ATP) for the High Energy Real-Time Radiography (HERTR) in support of Washington Closure Hanford (WCH) and completed repair of reverse osmosis pump 60F-P-2B at the Effluent Treatment Facility (ETF).

CHPRC launched the “Just Ask” mailbox to invite employees to submit questions about ethics and business conduct. The tool is

**Focus on Safety**

The January 2012, President’s Zero Accident Council (PZAC) meeting was sponsored by the Safety, Health, Security, and Quality (SHS&Q) Organization. The three principal themes for the meeting were:

- Refocus on Health
- Workers’ Bill of Rights
- Refocus on Commitments

Following a rousing round of stretching and flexing, the meeting kicked off with a presentation on the benefits of exercise offered by the Site occupational medical provider. The presentation was centered around integrating exercise throughout each day so that it becomes a lifestyle, rather than a daily obligation. The next presentation reminded employees that each of us at Hanford has guaranteed rights. These ten “Worker Bill of Rights” are endorsed by CHPRC and center around safety, such as the right to be involved in hazard analysis, the right to personal protective equipment, and the right to stop work until identified hazards are controlled. Additional presentations included a vehicle incident report, the Environmental Management System, and updates on CHPRC Voluntary Protection Program efforts. The injury and illness performance metrics were reviewed, showing a continued trend downward and the best recordable and DART rates since contract transition.



Four “Thinking Target Zero” bulletins were published in January as part of the CHPRC winter safety emphasis, providing information on the following topics:

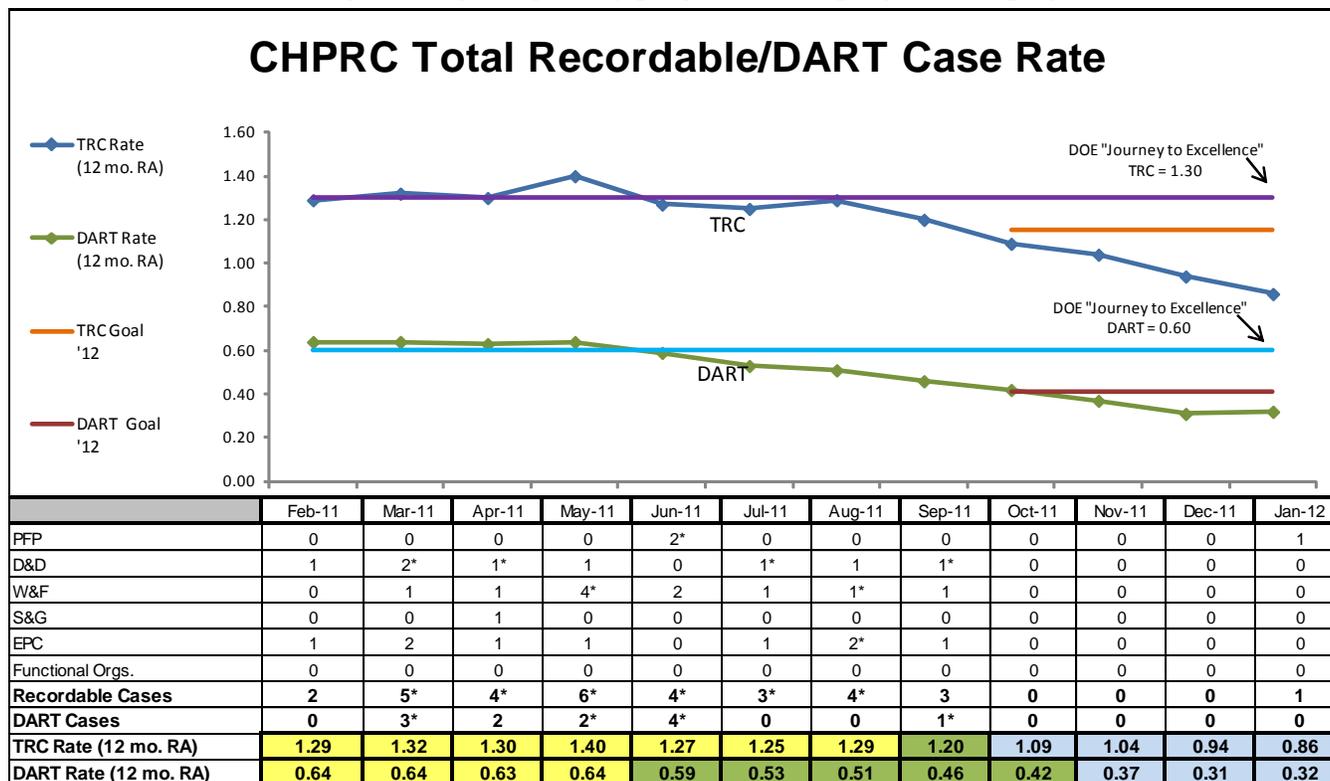
- Ensuring a Safe New Year
- Staying Focused
- Winter Personal Protective Equipment

Five *Weekly Safety Tailgate* briefing packages were issued in January to convey the following important topics and safety messages:

- 2012 Re-focus on Safety following the holiday season
- Proper dosimetry management
- Site-wide exercise challenge
- RL notification on the process for resolving differing professional opinions
- Managing pre-existing wounds in contaminated areas
- New on site location for SHS&Q personnel
- Fostering a “machine over muscle” work ethic
- New hours for the site occupational medical provider
- CHPRC goal to achieve ISO 14001 Certification
- Summaries of injuries, illnesses, and close calls

## TARGET ZERO PERFORMANCE January 2012

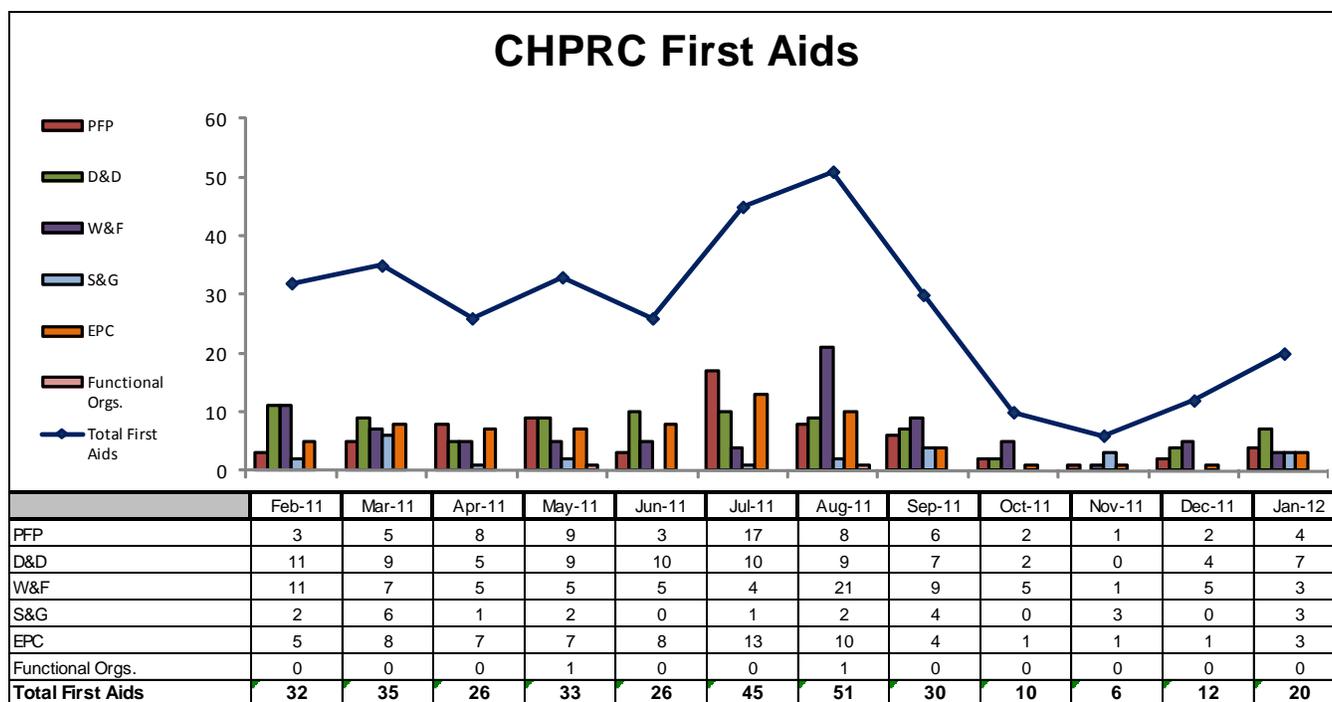
CHPRC continued focusing on integrating safety programs in all program and project areas.



**Total Recordable Injury Case (TRC) Rate** – The 12 month rolling average TRC rate of 0.86 is based upon a total of 32 recordable injuries. There was one Recordable case in January.

**Days Away, Restricted or Transferred (DART) Workdays Case Rate** – The 12 month rolling average DART rate of 0.32 is based upon a total of 12 cases (5 Restricted, 7 Days Away Cases). There are currently four cases under review requiring additional information.

\*The monthly numbers indicated in the chart are updated to reflect the month in which the injury occurred. The rates also capture any changes resulting from reclassified cases or those added as a result of completed investigations.



**First Aid Case Summary** – CHPRC reported 20 first-aid cases in January. The biggest contributors were 10 sprains, strains and/or pains from awkward positions, over-exertions and slips/trips/falls at same level (walking, etc.). There were five abrasions/contusions all resultant from slips/trips/falls at same level. The other first aid injuries were varied.

## KEY ACCOMPLISHMENTS

Refer to Sections A through G of this report for additional project accomplishments.

### **RL-0011 Nuclear Materials Stabilization and Disposition**

#### **Disposition PFP (234-5Z) Facility – ARRA**

Removed 90% of the E4 duct in Room 235B that interfered with the installation of gantry cranes for glovebox separation. The methodology for assembling the gantry cranes was verified in the 212-Z yard to support planning.

The electrical isolation of the Room 235A-2 gloveboxes was completed. The Polychlorinated Biphenyl (PCB) contamination area in the Room 235A-2 pit was cleaned and fixed.

The planning was completed and the work was started to disposition the glovebox hold up material in Room 235A-3

#### **Backside Rooms (Rooms 158-172) D&D**

Issued first work package and commenced Room 166 D&D effort.

#### **2736Z/ZB Vault Complex**

Demolition continued on two 2736-ZB complex buildings, 2721-Z and 2736-ZB. 2721-Z was completed and removed, while 2736-ZB demolition and load out continued.

#### **Base**

A ventilation flow reversal in 234-5Z from the Remote Mechanical C (RMC) Line Control Room Zone 3 through Door 281 to Corridor 2 Zone 1 was identified. In response, Technical Safety Requirements

(TSR) Limiting Condition for Operations (LCO) Conditions for deficient filtered exhaust and differential pressure were entered, thus placing the facility in a “Terminate Activities” condition. The ventilation reversal was corrected late Sunday, January 29 and the Terminate Activities restriction removed approximately mid-day Monday, January 30.

### **Plutonium Reclamation Facility (PRF)**

The Standard Waste Boxes (SWBs) containing the segments of Tank 25 were shipped on Wednesday, December 28th, completing the first increment for the pencil tank Performance Incentive (PI).

### **RL-0012 Spent Nuclear Fuel Stabilization and Disposition**

Following review with Engineered Container Retrieval and Transport System (ECRTS) personnel and incorporation of comments, subcontractor AREVA submitted their final draft of the 90% Design of the K West Annex.

### **RL-0013 Waste and Fuels Management Project**

#### **ARRA**

#### **MLLW Treatment**

Closed out the American Recovery and Reinvestment Act (ARRA) funded contracts associated with M-91-43 and 435.1 legacy M/LLW.

#### **TRU Retrieval Lay-Up Activities**

The Waste Receiving and Processing Facility (WRAP) and the T Plant Transition Plans are undergoing revision during January with final approval in February.

#### **Base**

#### **Project Management**

Provided support to DOE-RL FY2014 budget formulation.

#### **Capsule Storage & Disposition**

Completed annual 294B domestic backflow preventive maintenance.

Completed annual radioactive material area inspection (no findings).

#### **WRAP**

Initiated activities to complete repack of last 10 containers at WRAP.

#### **T-Plant**

Completed 2 TSR scheduled surveillances.

#### **Central Waste Complex (CWC)**

Received 4 shipments of Transuranic (TRU) waste totaling 11 SWB's and 32 drums.

#### **Liquid Effluent Facilities**

Received 2 tankers (calendar year [CY] 8k gallons).

200A Treated Effluent Disposal Facility (TEDF) discharged 1M gallons (CY 1M).

Received Environmental Restoration Disposal Facility (ERDF) leachate (323k gallons) at Liquid Effluent Retention Facility (LERF) Basin 44 (CY 323k ).

## **RL-0030 Soil and Groundwater Remediation**

### **Base**

#### **GW Remedy Implementation**

200WP&T: Continued Acceptance Test Procedures. Inoculated the Fluidized Bed Reactor (FBR) with heterotrophic facultative bacteria to start the biological colony. Continued construction on the Sludge Stabilization System (Lime addition).

#### **Operations**

#### **Strategic Integration**

In coordination with RL, Office of River Protection (ORP) and prime contractors, developed material for the Hanford Senior Executive Council action item on “ARRA Lessons Learned.”

#### **Technical Integration**

DOE/RL-2011-50 Rev. 0 “Regulatory Basis and Implementation of a Graded Approach to Evaluation of Groundwater Protection” (Graded Approach document) was completed and signed by the Tri-Parties.

Revision 1 of the Performance Assessments and Composite Analysis annual summary reports (DOE/RL-2011-108, -109, -110) are complete, have been cleared, and copies provided to DOE-RL for distribution.

#### **Environmental Databases**

Implemented new database application that streamlines work flow and reduces processing time for analytical data reviews.

### **Central Plateau**

#### **200-BP-5 Operable Unit – Base**

Drilling of the extraction well and monitoring well was completed. Well completion activities are underway and are expected to be complete by mid-February 2012. All seven crossings are complete and all above-ground pipeline has been placed (~8500 ft. total). Remaining pipeline work will be completed pending well completions.

#### **200-UP-1 Operable Unit – Base**

Construction and ATP of the Waste Management Area (WMA) S-SX extraction system was completed, except for final pipeline connects to the 200 West Treatment Facility and the well racks, which are scheduled to be made by March 2012.

## **RL-0040 Nuclear Facility D&D, Remainder of Hanford**

### **ARRA**

#### **209E Project**

Completed site stabilization and continued demobilization activities.

### **Base**

#### **Outer Zone D&D**

Completed 40 operational surveillances.

Completed 78 Rad Ops surveillances (including 5 Radiation Area Remedial Action [RARA] surveys).

Completed 2 TSR surveillances.

Completed 14 of 15 scheduled preventive maintenance (PM) activities; 1 PM extended.

**RL-0041 Nuclear Facility D&D, River Corridor****Facilities**

Continued with large equipment disposal to ERDF for 190KW Main Pump House.

**Base****Facilities**

Began repair work on the 105KE reactor building openings.

Initiated 105KE Safe Storage Enclosure (SSE) 90% design review and prepared formal design review comments.

Completed removal of rain water from the interior of the 105KE reactor building.

Conducted walk down of 105KE reactor building with CHPRC EPC for material inventory removal.

Continued sediment load-out of 183.2KE Basin sediment.

Continued with asbestos abatement of 105KE tunnel.

Continued with erecting scaffolding and demolition preparation at 183.7KE Structure.

**Waste Sites**

Completed Planning and Scoping for Area AA Zone 1. AA Zone 1 Issued Excavation Release Checklist.

Commenced Pipe Removal and remediation of AA Zone 1. Began Shipment of Pipe removed to ERDF.

**MAJOR ISSUES****RL-0011 Nuclear Materials Stabilization and Disposition**

**Issue** - On August 29, Exhaust Fan #1 in the 291-Z facility catastrophically failed and caused a small fire when a hot bearing made contact with the drive belt. The facility implemented required casualty response actions and the fire was extinguished. Normal ventilation for the facility was shut down and backup steam turbine driven exhaust fans were placed in service. Per the TSR, the facility was placed in a "Terminate Activities" mode which halted all D&D activities.

**Corrective Actions** - A thorough evaluation of the 291-Z exhaust fans was performed. The evaluation identified additional mechanical issues with most of the remaining exhaust fans. A positive Unreviewed Safety Question (USQ) determination was declared and Evaluation of Safety of the Situation (ESS) was prepared and submitted to RL for approval. The ESS was approved by RL on September 15, 2011 (Letter #11-SED-0165). Normal ventilation fans were restarted and the Terminate Activities condition was exited. Normal D&D activities were authorized to commence. A JCO was submitted to RL via letter CHPRC-1104667 R1 on November 28 as directed by the ESS.

**Status** - Exhaust Fan 3 and 5 weld repair preparations are continuing. The containment tent for EF-5 is being installed and welding is scheduled to begin in late March. The exhaust ventilation system Enhanced Maintenance Program procedures have been completed and will be implemented upon return of EF-5 to service.

**RL-0012 Spent Nuclear Fuel Stabilization and Disposition**

No major issues to report this month.

**RL-0013 Waste and Fuels Management Project**

No major issues to report this month.

**RL-0030 Soil and Groundwater Remediation**

**Issue** - The number of comments on Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) documents and the need for technical decisions is impacting contractual delivery due dates and decreasing float on major TPA Milestone M-015-005 “DOE shall complete the RI/FS process through the submittal of a Proposed Plan for all 100 and 300 Area operable units”.

**Corrective Action -**

- 1) Development of detailed Field Execution Schedules
- 2) Engagement of RL Assistant Manager for Central Plateau (AMCP) Management for technical decisions
- 3) Identified additional resources necessary to meet schedule
- 4) Partnering sessions between RL and CHPRC

**Issue** - The 200 West Groundwater Treatment Facility Project has experienced an increase in several work activities due to realization of risks previously established, resulting in an increased Estimate to Complete (ETC) and therefore an increased Variance at Completion (VAC). The changes in work activities have cost and schedule impacts beyond the cost of the mitigating action itself and in some cases compounding effects (e.g., changes in work activities caused delay to construction completion, which in turn results in weather issues during testing that were not previously expected). Another common cost impact is retaining staff beyond the project’s ramp down/closeout plan to manage work that was delayed. The impacts occur in the following areas:

- Equipment Impacts due to Weather
- Well capacity
- Fiber Optic Cable in place of wireless
- Touch-up Painting/Trade Damage
- Sludge Stabilization System (Lime)
- Programming Support/ Integration of Package Software Systems
- Tank Repairs
- Piping Supports/Repairs
- Procedure/As-Building Development
- MBR Recirculation Loop & Chemical Skid Modifications

**Corrective Action** - The Project will work with SGW Ops to mitigate the impact of realized risks by:

- Develop Baseline Change Requests (BCRs) by type of change to the project and implement into Performance Management Baseline (PMB) utilizing Management Reserve (MR).
- Re-evaluate cost savings efforts across the project.
- Evaluate viability of Credits and Back Charges against subcontractors who own some of the responsibilities.
- Evaluate need for potential deferral of SGW FY2012 scope.

**RL-0040 Nuclear Facility D&D, Remainder of Hanford**

**Issue:** The final end state of 6652L needs to be provided by RL so the planning on how to proceed can be started. This is specifically regarding the significant amount of asbestos left in the facility.

**Corrective Action:** Definition of end state/regulatory agreements is required in writing.

**Status:** Work is on hold until end state decision can be made, which also impacts the estimate and schedule for the project.

**RL-0041 Nuclear Facility D&D, River Corridor**

**Issue** – Waste Site Remediation will not be able to complete the remediation work scope tied to waste sites 100-K-57 and 100-K-64 by December 31, 2012. The sites are located in an area of extreme cultural sensitivity. The inability to complete this work by December 31, 2012, is being driven by the lack of an approved cultural resources mitigation action plan.

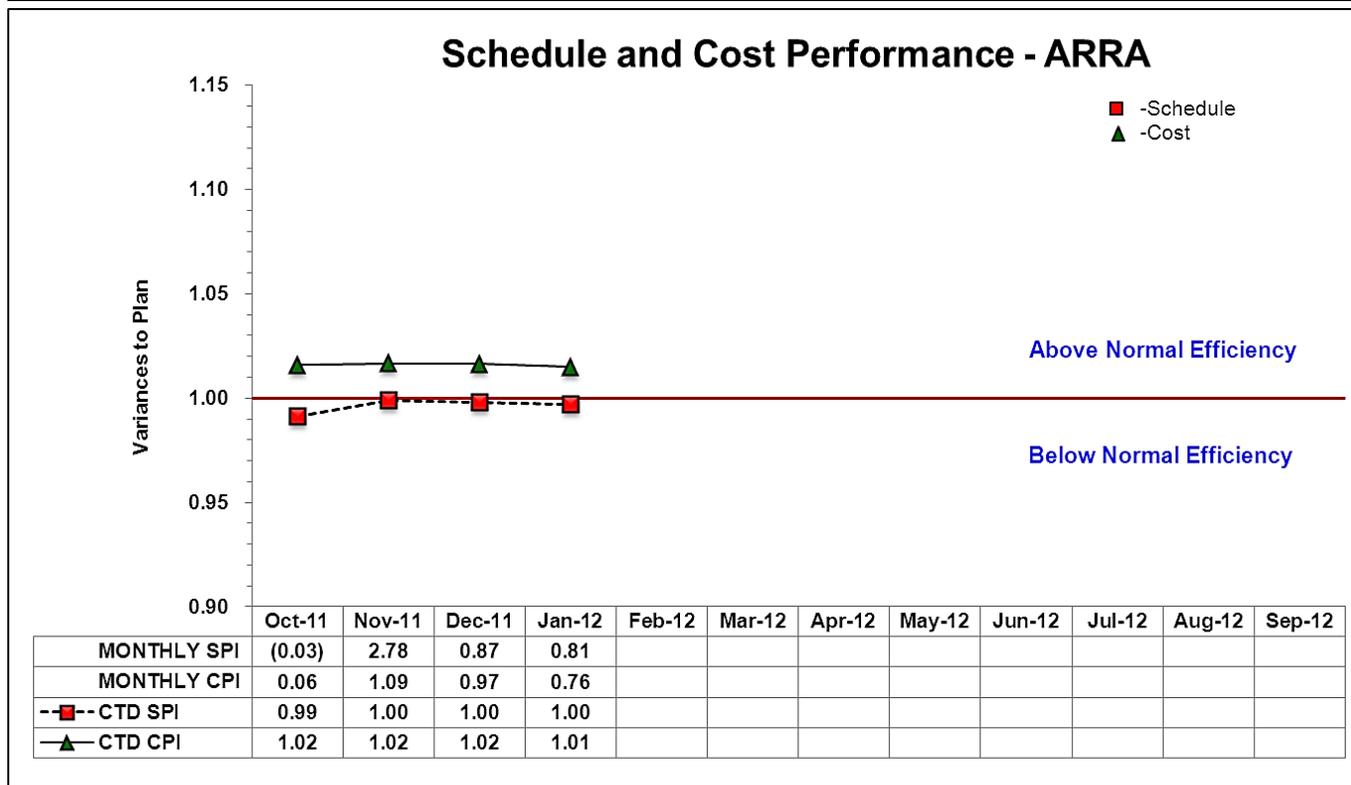
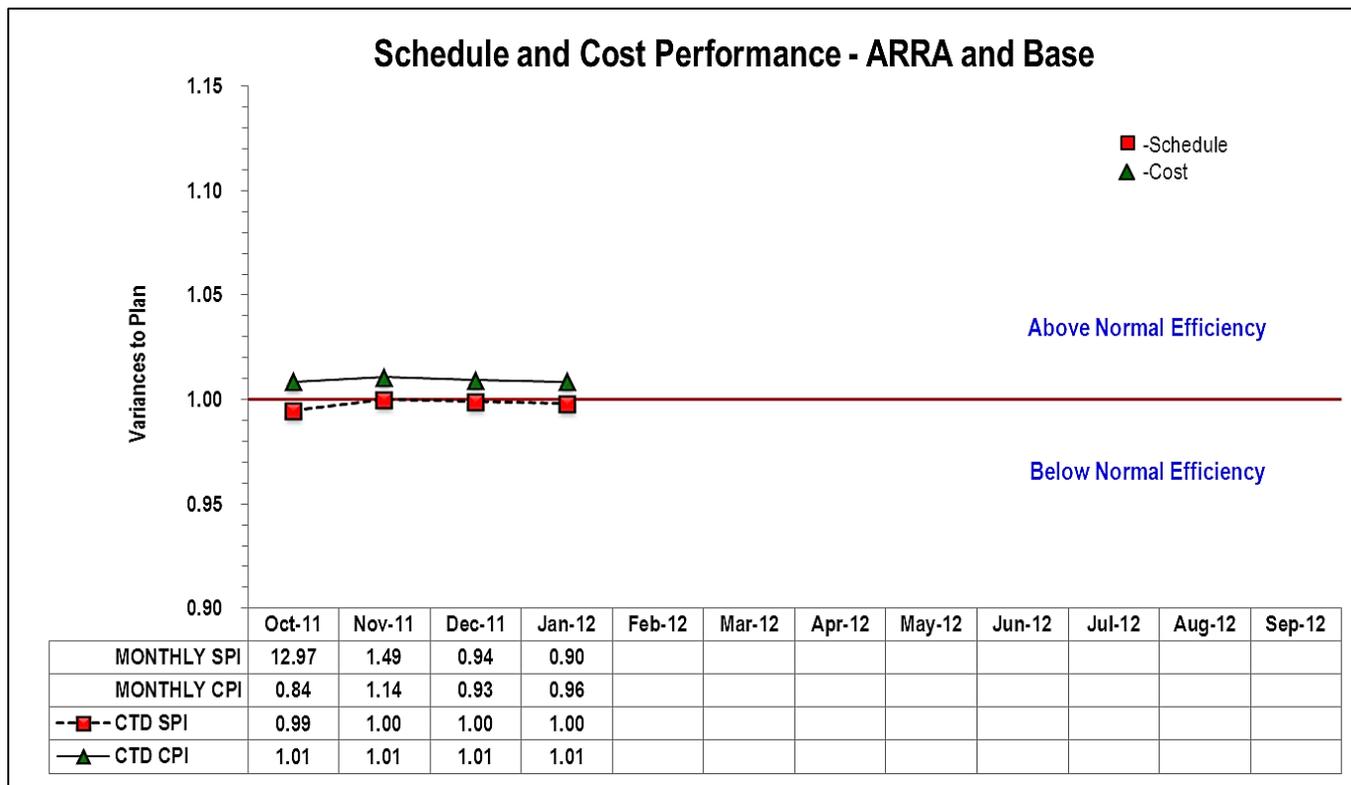
**Corrective Action** – Discussions ongoing to move this waste site from TPA Phase 1 to TPA Phase 3.

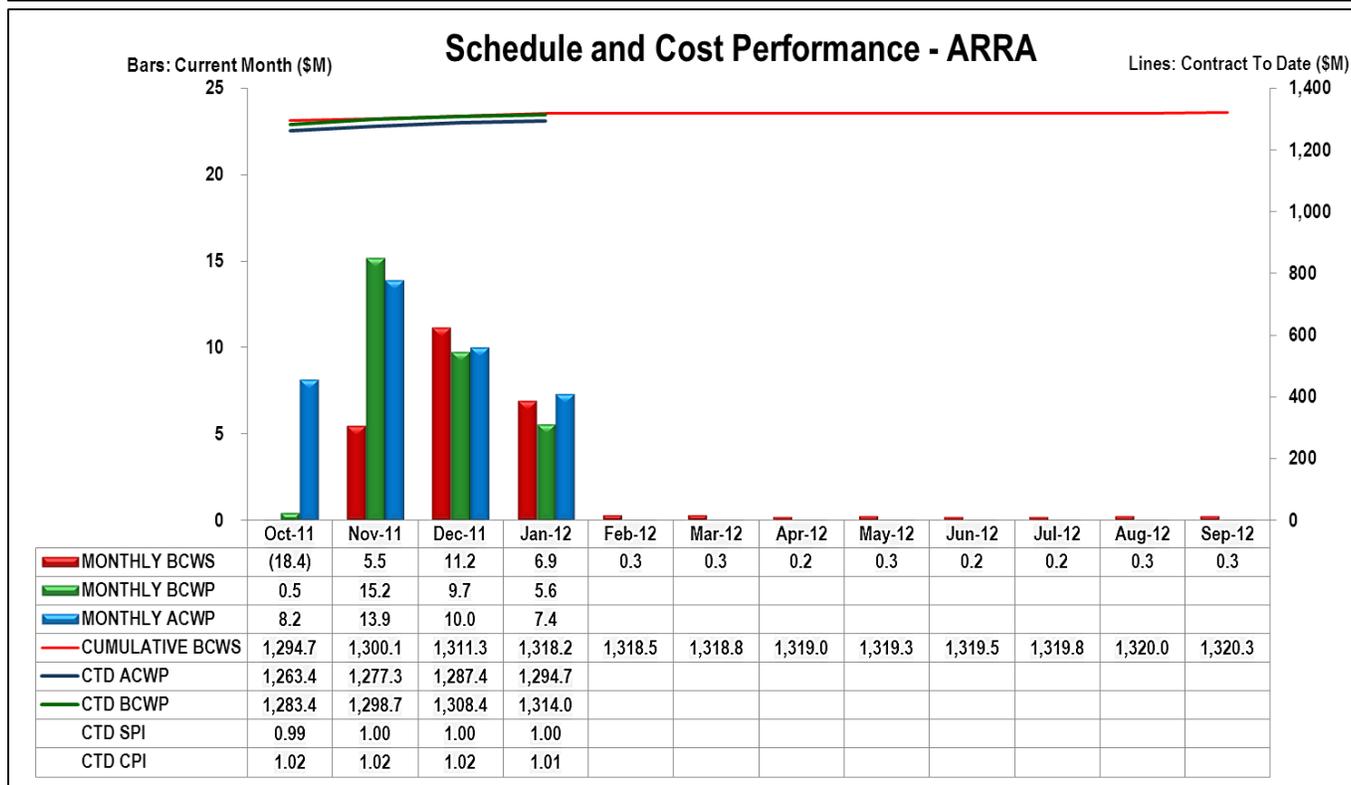
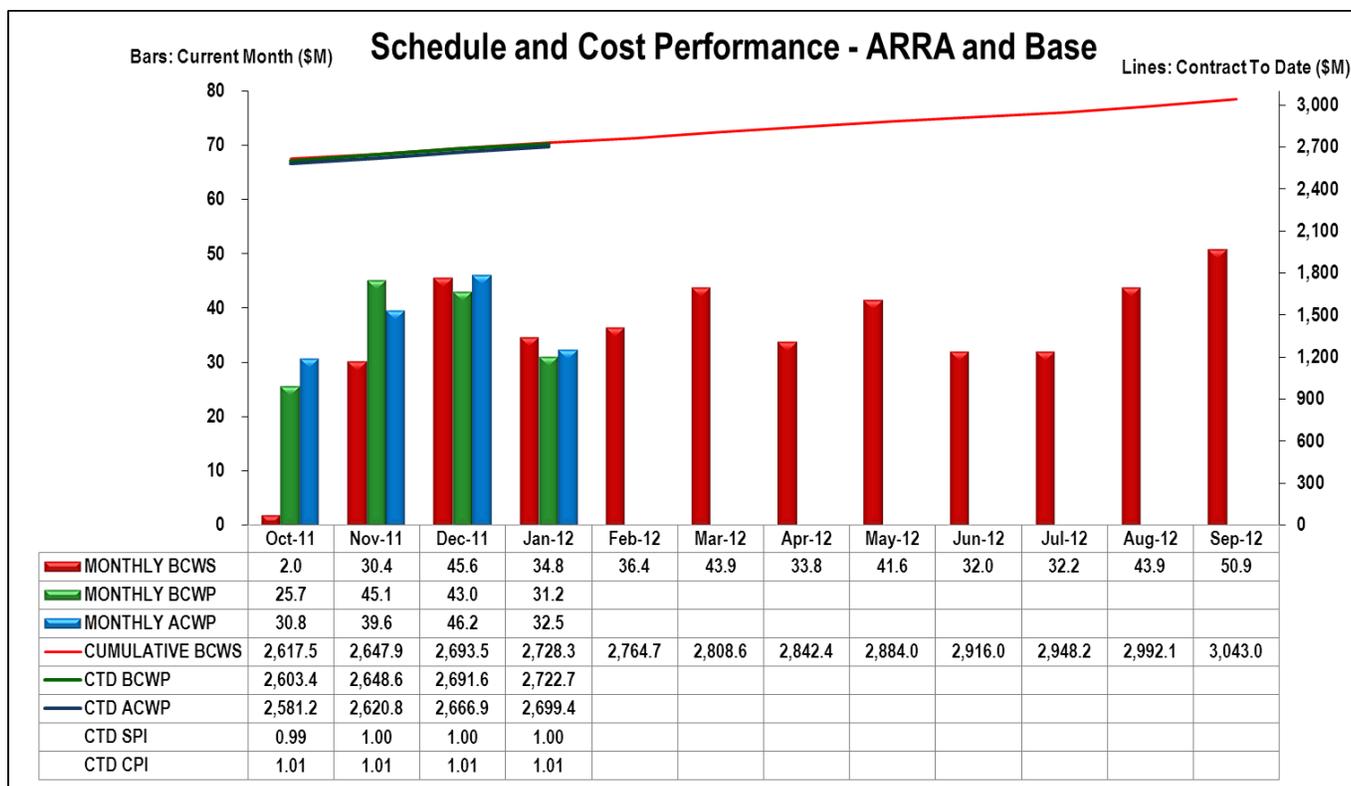
**Status** – CHPRC drafted a TPA change package for RL to present to Environmental Protection Agency (EPA) for approval that will move this waste site from TPA Phase 1 to TPA Phase 3. RL presented the change package to EPA, but EPA is not inclined to move the sites into a later TPA Phase.

**RL-0042 Fast Flux Test Facility Closure**

No major issues to report this month.

## EARNED VALUE MANAGEMENT





## Performance Analysis – January

### ARRA Performance by PBS

	\$M				
	Current Period				
	Budgeted Cost		Actual Cost	Variance	
	BCWS	BCWP	ACWP	Schedule	Cost
RL-0011 - PFP D&D	6.1	5.0	5.4	(1.1)	(0.4)
RL-0013 - MLLW Treatment	0.0	0.0	0.0	0.0	(0.0)
RL-0013 - TRU Waste	0.1	0.2	0.1	0.1	0.0
RL-0030 - GW Capital Asset	0.0	0.0	0.1	0.0	(0.1)
RL-0030 - GW Operations	0.0	0.0	0.0	0.0	(0.0)
RL-0040 - U Plant/Other D&D	0.1	0.3	0.6	0.2	(0.3)
RL-0040 - Outer Zone D&D	0.0	0.0	0.0	0.0	(0.0)
RL-0041 - 100K Area Remediation	0.5	0.1	1.0	(0.5)	(0.9)
(Numbers are rounded to the nearest \$0.1M)	<b>Total</b>	<b>6.9</b>	<b>5.6</b>	<b>7.4</b>	<b>(1.3)</b>
		<b>6.9</b>	<b>5.6</b>	<b>7.4</b>	<b>(1.8)</b>

### ARRA

The Current Month unfavorable Schedule Variance: (-\$1.3M/-19.3%) reflects:

- The RL-0011 negative variance (-\$1.1M) is a result of inability to work planned shifts in RMA/RMC process lines due to key resource absence during holiday week, lack of work package backlog, and D&D work restriction. Delays in demolition of the ZB Complex result from more effort required to ready 2736-ZB for demolition and time lost recovering from an un-sampled waste water incident. The Hanford site closure for inclement weather also contributes to the unfavorable variance.
- The RL-0013 positive variance (+\$0.1M) is within reporting thresholds.
- The RL-0030 variance (+\$0.0M) is within reporting thresholds.
- The RL-0040 positive variance (+\$0.2M) is within reporting thresholds.
- The RL-0041 negative variance (-\$0.5M) is within reporting thresholds.

The Current Month unfavorable Cost Variance (-\$1.8M/-31.8%) is within reporting thresholds and reflects:

- The RL-0011 negative variance (-\$0.4M) is within reporting thresholds.
- The RL-0013 positive variance (+\$0.0M) is due to the following subproject performance:
  - RL-0013 MLLW Treatment (-\$0.0M) and RL-0013 TRU Waste (+\$0.1M) positive variance is within reporting thresholds. However, ARRA layup activities were replanned to a newly established RL requested/authorized ARRA subproject. Costs associated with replanned scope will be corrected and/or transferred to the new subproject in the next reporting period (February 2012).

- The RL-0030 negative variance (-\$0.1M) is within reporting thresholds.
- The RL-0040 negative variance (-\$0.3M) is within reporting thresholds.
- The RL-0041 negative variance (-\$0.9M) reflects the following:
  - 100K Area Project Facilities and Others negative variance (-\$0.9M) is due to Waste Disposal costs for D4 structures that were completed late in FY2011, but the debris was not loaded and sent to ERDF until FY2012.

## Base Performance by PBS

	\$M					
	Current Period					
	Budgeted Cost		Actual Cost	Variance		
	BCWS	BCWP	ACWP	Schedule	Cost	
RL-0011 - Nuclear Materials Stab & Disp PFP	3.3	3.1	2.7	(0.3)	0.4	
RL-0012 - SNF Stabilization & Disposition	6.1	5.9	5.8	(0.2)	0.0	
RL-0013 - Solid Waste Stab & Disposition	5.8	5.7	5.2	(0.1)	0.5	
RL-0030 - Soil & Water Rem-Grndwtr/Vadose	8.2	7.8	8.5	(0.4)	(0.7)	
RL-0040 - Nuc Fac D&D - Remainder	0.8	0.8	0.9	0.0	(0.1)	
RL-0041 - Nuc Fac D&D - RC Closure Project	3.5	2.2	2.1	(1.3)	0.2	
RL-0042 - Nuc Fac D&D - FFTF Project	0.1	0.1	(0.0)	0.0	0.1	
(Numbers are rounded to the nearest \$0.1M)	<b>Total</b>	<b>27.8</b>	<b>25.6</b>	<b>25.1</b>	<b>(2.3)</b>	<b>0.5</b>

### Base

The Current Month unfavorable Schedule Variance (-\$2.3M/-8.2%) reflects:

- The RL-0011 negative variance (-\$0.3M) is within reporting thresholds.
- The RL-0012 negative variance (-\$0.2M) is within reporting thresholds.
- The RL-0013 negative variance (-\$0.1M) is within reporting thresholds.
- The RL-0030 negative variance (-\$0.4M) reflects the following subproject performance:
  - RL-0030.C1 GW Remedy Implementation negative variance (-\$0.4M) is due to 200 ZP-1 Operable Unit fiberglass repairs and inclement weather that caused schedule delay to acceptance testing.
- The RL-0040 positive variance (+\$0.0M) is within reporting thresholds.
- The RL-0041 negative variance (-\$1.3M) is primarily due the following:
  - Waste Sites (-\$1.4M) The negative schedule variance is due to Area AM not being worked as scheduled due to the Memorandum of Agreement (MOA) not being approved.
- The RL-0042 positive variance (+\$0.0M) is within reporting thresholds.

The Current Month favorable Cost Variance (+\$0.5M/+1.8%) reflects:

- The RL-0011 positive variance (+\$0.4M) is within reporting thresholds.
- The RL-0012 Combined 100K and STP (+\$0.0M) variances are within reporting thresholds.
- The RL-0013 positive variance (+\$0.5M) is primarily due to the correction of a Mixed Low Level Waste (MLLW) inadvertent charge made in the prior period (December accrual was made for the remaining value of the contract and corrected in this reporting period). In addition, staff utilization was below plan due to holidays and weather impacts. Partially offset by resources being transferred from ARRA to Base. Since ARRA funding is exhausted, remaining work required to reach and maintain planned facility conditions will be executed and costed under Base funding.
- The RL-0030 negative variance (-\$0.7M) Primary contributors that exceed the reporting thresholds reflect the following subproject performance:
  - RL-0030.01 RL 30 Operations (+\$0.1M) All variances are within reporting thresholds except those listed below:
    - GW Monitoring and Performance Assessments (-\$0.7M) The negative variance is a result of the work stoppage at Waste Sampling and Characterization Facility (WSCF) earlier this fiscal year, laboratory sample analyses were sent to off-site labs. Invoices for the off-site work have been slow in being submitted. The off-site labs are paid by P-card when the invoices are actually received. The delays in invoice submittal have resulted in cost underruns in prior months. This month a manual accrual was made for earlier months, causing a current period overrun. The overall impact of the WSCF work stoppage is being addressed as part of a BCR that will address the project risk that was realized when WSCF was closed for lab analysis.
    - 200-ZP-1 Operable Unit (+\$0.3M) The positive variance is primarily as a result of continued efficiencies in operation of the current 200-ZP-1 Pump & Treat facility and less resources are also being used than was originally planned for the new 200 West Pump & Treat facility operations ramp-up.
  - RL-0030.C1 GW Remedy Implementation negative variance (-\$0.9M) is due to:
    - 200-ZP-1 Operable Unit (-\$0.9M) Sludge Stabilization System installation is costing more than budgeted. There have been significant delays in long lead equipment, field installation issues, design changes and schedule extensions.
- The RL-0040 negative variance (-\$0.1M) is within reporting thresholds.
- The RL-0041 positive variance (+\$0.2M) is within reporting thresholds.
- The RL-0042 positive variance (+\$0.1M) is within reporting thresholds.

## Performance Analysis – Contract to Date

### ARRA Performance by PBS

	\$M								
	Contract to Date					Contract Period			
	Budgeted Cost		Actual Cost	Variance		BAC	EAC	Variance	
	BCWS	BCWP	ACWP	Schedule	Cost				
RL-0011 - PFP D&D	285.2	281.3	290.0	(3.9)	(8.6)	293.7	295.8	(2.1)	
RL-0013 - MLLW Treatment	47.7	47.7	42.7	(0.0)	5.0	47.7	42.7	5.0	
RL-0013 - TRU Waste	256.8	256.8	255.0	(0.0)	1.8	256.8	255.0	1.8	
RL-0030 - GW Capital Asset	175.0	175.0	174.7	0.0	0.3	175.0	175.0	0.0	
RL-0030 - GW Operations	92.1	92.1	89.3	(0.0)	2.8	92.1	89.3	2.8	
RL-0040 - U Plant/Other D&D	199.4	199.3	192.4	(0.1)	6.9	199.4	192.6	6.8	
RL-0040 - Outer Zone D&D	84.3	84.3	71.7	0.0	12.6	87.3	75.1	12.2	
RL-0041 - 100K Area Remediation	177.6	177.4	179.0	(0.2)	(1.6)	179.7	182.1	(2.3)	
(Numbers are rounded to the nearest \$0.1M)	<b>Total</b>	<b>1,318.2</b>	<b>1,314.0</b>	<b>1,294.7</b>	<b>(4.2)</b>	<b>19.3</b>	<b>1,331.8</b>	<b>1,307.6</b>	<b>24.2</b>

### ARRA

The CTD unfavorable Schedule Variance (-\$4.2M/-0.3%) is within reporting thresholds and reflects:

- The RL-0011 negative variance (-\$3.9M) is within reporting thresholds.
- The RL-0013 negative variance (-\$0.0M) is within reporting thresholds.
- The RL-0030 positive variance (+\$0.0M) is within reporting thresholds.
- The RL-0040 negative variance (-\$0.1M) is within reporting thresholds.
- The RL-0041 negative variance (-\$0.2M) is within reporting thresholds.

The CTD favorable Cost Variance (+\$19.3M/+1.5%) is within reporting thresholds and reflects:

- The RL-0011 negative variance (-\$8.6M) is within reporting thresholds.
- The RL-0013 positive variance (+\$6.8M) reflects the following subproject performance:
  - RL-0013 MLLW Treatment (+\$5.0M), TRU Waste (+\$0.3M) and TRU Waste Facility Tans MinSafe (+\$1.5M) positive cost variances are due to efficiencies in TRU Characterization and Shipping, TRU Repackaging, T Plant and WRAP, MLLW efficiencies created by treating waste at Energy Solutions (ES) - Clive rather than planned treatment at PermaFix Northwest (PFNW) due to a waiver received from RL, ERDF negotiated rate reduction with vendor for waste containers, partially offset by increased materials and labor costs in support of the Trench Face Retrieval and Characterization System (TFRCS), and increased resources for TRU Retrieval deteriorated waste containers, increased allocations for additional office space and other assessments as a result of allocations to Recovery Act expenditures.
- The RL-0030 positive variance (+\$3.1M) reflects the following subproject performance:
  - RL-0030.R1.1 GW Capital Asset (+\$0.3M) positive variance is within reporting thresholds.
  - RL-0030.R1.2 GW Operations (+\$2.4M) The positive variance is due to the following:

- Drilling (+\$2.4M) The positive cost variance is due to efficiencies and savings obtained in drilling for 100-NR-2 and 200-BP-5 wells. Cost efficiencies have been obtained through an aggressive drilling schedule with savings in support personnel and faster drilling methods. Well decommissionings have also been completed for less than planned.
- Regulatory Decision and Closure Integration (+\$1.7M) The positive variance is due to completing work scope more efficiently than planned, primarily in the areas of multi-incremental sampling (using existing documentation and direct haul rather than staging), and borehole drilling and landfill characterization (competitive subcontracting of drilling support and efficient field support).
- Ramp-up and Transition (-\$1.8M) The negative variance was driven by increased Project Services Distribution to RL-0030.
- The RL-0040 positive variance (+\$19.8M) reflects the following subproject performance:
  - ARRA RL-0040.R1.1 U Plant/Other D&D (+\$6.9M) The positive variance is due to several factors including the favorable performance of the Cold and Dark and Sampling and Characterization/Waste Identification Form teams (D4); overhead allocations, less than anticipated resources for Program Management and C-3 Sampling; lower than planned costs for capital equipment (D4), and less asbestos abatement required for 200W buildings. This is offset by increased material and equipment costs, increased use of masks and respirators due to the unexpected asbestos levels in the ancillary buildings in U Ancillary (D4), coupled with increased insulator staff and the use of overtime to recover schedule, 200E Administration and 209E Project delays, less resources required at U Canyon (D4), and Usage Based Services higher than planned.
  - ARRA RL-0040.R1.2 Outer Zone D&D (+\$12.6M) The positive variance is due to efficiencies in Arid Lands Ecology (ALE), North Slope Facilities, disposition of railcars D&D, and Outer Area waste sites. The waste site favorable cost-to-date variance is primarily due to an O-Zone Remove, Treat, and Dispose (RTD) Waste Sites adjustments (pass back) to ERDF waste disposal costs reflecting the operational efficiencies of the super dump trucks. Within the waste sites area, this favorable cost variance is partially offset by higher than planned costs associated with remediation of pipelines. A negative variance is associated with increased costs for the 212N/P/R Project due to the walls of the basins being much thicker than estimated.
- The RL-0041 negative variance (-\$1.6M) is due to the following:
  - Waste Sites (+\$9.0M) – The positive variance is due to Confirmatory Sampling No Action (CSNA) sites that were completed at less than anticipated cost. This is partially offset by greater than anticipated extent and severity of contamination on many waste sites resulting in more tons disposed and more controls required, thus higher than anticipated cost.
  - 100K Area Project (-\$10.6M) – The negative variance is due to numerous design changes and additional punch list items in the Utilities Reroute project; this has also resulted in the project utilizing more vehicles and equipment than was originally planned as well as the Project Management costs to rise due to the corresponding increases for both labor and materials.

## Base Performance by PBS

	\$M								
	Contract to Date					Contract Period			
	Budgeted Cost		Actual Cost	Variance					
	BCWS	BCWP	ACWP	Schedule	Cost	BAC	EAC	Variance	
RL-0011 - Nuclear Materials Stab & Disp PFP	169.6	168.8	170.4	(0.8)	(1.7)	595.5	594.6	0.8	
RL-0012 - SNF Stabilization & Disposition	274.4	274.8	275.6	0.4	(0.8)	625.6	625.6	(0.0)	
RL-0013 - Solid Waste Stab & Disposition	338.5	337.6	343.9	(0.9)	(6.3)	1,523.8	1,529.3	(5.6)	
RL-0030 - Soil & Water Rem-Grndwtr/Vadose	457.3	456.8	467.8	(0.5)	(11.0)	1,231.2	1,248.5	(17.3)	
RL-0040 - Nuc Fac D&D - Remainder	71.9	72.0	64.3	0.1	7.7	683.5	667.0	16.5	
RL-0041 - Nuc Fac D&D - RC Closure Project	85.9	86.3	71.6	0.4	14.7	313.5	301.6	11.9	
RL-0042 - Nuc Fac D&D - FFTF Project	12.6	12.6	11.1	0.0	1.5	25.4	23.9	1.5	
(Numbers are rounded to the nearest \$0.1M)	<b>Total</b>	<b>1,410.1</b>	<b>1,408.7</b>	<b>1,404.7</b>	<b>(1.3)</b>	<b>4.0</b>	<b>4,998.4</b>	<b>4,990.5</b>	<b>7.9</b>

### Base

The CTD unfavorable Schedule Variance (-\$1.3M/-0.1%) is within reporting thresholds and reflects:

- The RL-0011 negative variance (-\$0.8M) is within reporting thresholds.
- The RL-0012 positive variance (+\$0.4M) the combined 100K and STP variances are within reporting thresholds.
- The RL-0013 negative variance (-\$0.9M) is within reporting threshold. The variance is due to CSB, WESF, and ETF engineering activities delayed due to resource availability (assigned to higher priority activities).
- The RL-0030 negative variance (-\$0.5M) reflects the following subproject performance:
  - RL-0030.01 RL 30 Operations (+\$1.5M) The positive variance is due to:
    - 100 NR-2 Operable Unit (+\$2.3M) The positive variance has resulted from performing barrier expansion and sampling support that was planned in FY2013, being performed in FY2011 and FY2012.
  - RL-0030.C1 GW Remedy Implementation (-\$2.0M) The negative variance is within reporting threshold and due to:
    - 200 ZP-1 Operable Unit (-\$2.0M) The negative variance is due to delays associated with Sludge Stabilization System subcontractor submittals, fair cost estimates, award of contracts and design changes.
- The RL-0040 positive variance (+\$0.1M) is within reporting thresholds.
- The RL-0041 positive variance (+\$0.4M) is due to the following:
  - Waste Sites (+\$0.3M) The positive variance is due to CSNA sites that were completed ahead of schedule partially offset by delays with receiving approval of the MOA to work Area AM.
  - 100K Area Project (+\$0.1M) The positive variance is within reporting thresholds.
- The RL-0042 positive variance (+\$0.0M) is within reporting thresholds.

The CTD favorable Cost Variance (+\$4.0M/+0.3%) is within reporting thresholds and reflects:

- The RL-0011 negative variance (-\$1.7M) is within reporting thresholds.
- The RL-0012 negative variance (-\$0.8M) The combined 100K and STP variances are within reporting thresholds.
- The RL-0013 negative variance (-\$6.3M) is due to:
  - Mission Support Alliance (MSA) assessments above plan, TRU Retrieval additional resources to deal with deteriorated containers and drum wedge issue, FY2009 WRAP facility increased levels of corrective and preventive maintenance activities as a result of repack operations, increased labor and subcontractors support for Transportation and Packaging; partially offset by efficiencies in Liquid Effluent Facility (LEF), MLLW, TRU Disposition, TRU Repackaging, Interim Storage Area upgrades, Capsule Storage and Disposition, Mixed Waste Disposal Trenches (MWDT) and lower G&A allocations.
- The RL-0030 negative variance (-\$11.0M) primary contributors that exceed the reporting thresholds are as follows:
  - RL-0030.01 RL 30 Operations (-\$2.7M) The negative variance can be attributed to:
    - Integration & Assessments (+\$4.0M) Less subcontractor support required for Central Plateau strategy development and integration, Sample Management and Reporting has performed work scope more efficiently than planned, less cleanup document reviews were required than originally planned, requiring less contract support. Also, efficiencies/savings were realized in establishing document templates, reviewing procedures, and software procurements.
    - Drilling (-\$2.6M) Radiological contamination encountered on five NR-2 wells has caused additional supporting resource requirements (Health Physics Technicians). In order to recover schedule additional well drilling rigs were used, resulting in overruns to the project. Also, cost for remaining casing at the completion of the project was accrued as it cannot be released to the contractor.
    - 100-NR-2 OU (+\$2.9M) Barrier expansion and sampling scope, chemical treatment and maintenance scope, jet grouting pilot test work, RI/FS Work Plan and Interim Proposed Plan Reporting were performed more efficiently than planned leading to the positive variance.
    - 100 HR-3 Operable Unit (-\$3.5M) Primary contributors to the negative cost variance are due to 100 DX extensive effort required to design the pH adjustment system, cost overruns in completing the OU Remedial Process Optimization studies, 100 DX higher than expected cost to complete acceptance test plan and the operational test plan, cost of realigning wells from DR-5 to 100 DX, 100 HX Construction cable cost increased due to increases in copper prices and additional time and resources being spent on internal CERCLA (RI/FS) document development that will be recovered in completed Draft A document.
    - 200-ZP-1 Operable Unit (+\$0.9M) Labor and subcontract cost for general operations and minor modifications support for 200-ZP-1 interim pump & treat facility is significantly less than planned. The system is running very smoothly with less adjustment than had been anticipated. Efficiencies are expected to continue with the interim facility operations until startup of the new 200 West Pump & Treat facility.
    - 200 PW-1 OU (+\$1.1M) Labor and subcontract cost for general operations and minor modifications support is less than planned. In addition, efficiencies and savings experienced

with the Soil Vapor Extraction (SVE) system testing prior to March 2010 as well as the removal of two old SVE units.

- Usage Based Services (-\$1.4M) Increased cost associated with training due to the additional ARRA work in FY2010 and fleet services costs that occurred in FY2009 and FY2010. Overruns will continue to be funds-managed within the S&GRP project.
- RL-0030.C1 GW Remedy Implementation (-\$8.3M) the negative variance can be attributed to:
  - 200-ZP-1 Operable Unit (-\$8.3M) The negative variance is due to 200W P&T construction associated with the CHPRC accrued costs for Construction Contractors completed work scope defined in Change Notifications which are in the process of definitization. The costs are associated with the resources expended to complete the P&T facility by the end of FY2011 including added shifts, overtime, and logistics of working parallel activities. Interim Operations reflects significant progress and cost underruns achieved to date for System Calibration, design of the permanent hookup of well EW-1 was lower than planned as only minor changes were needed to an existing design, cost for performing general operating and maintenance and minor modification activities have been lower than planned as the system has been running smoothly, cost for collecting depth discrete groundwater and soil samples during the installation of new wells was less than planned, 200W Pump-and-Treat Remedial Design/Remedial Action work plan and preliminary design activities were completed with fewer resources than planned.
- The RL-0040 positive variance (+\$7.7M) is primarily due to recognized efficiencies for demolition of the Industrial 7 Project (D4) as a result of utilization of existing site equipment and materials, surveillance and maintenance costs (D4) less than expected, completion of the sampling of Cell 30 with less resources than planned, Program Management utilizing less resources, capital equipment, Usage Base Services, and underrun in overhead allocations.
- The RL-0041 positive variance (+\$14.7M) cost variance is within established reporting thresholds. The project is currently experiencing impacts associated with:
  - Waste Sites (+\$10.4M) The positive variance is due to CSNA sites that were completed at less than anticipated cost. This is partially offset by greater than anticipated extent and severity of contamination on many waste sites resulting in more tons disposed and more controls required, thus higher than anticipated cost, as well as level-of-effort activities bearing additional costs for increased functional group support.
  - 100K Area Project (Facilities and Others) (+\$4.3M) The positive cost variance is due to 105KE Reactor Disposition – ISS underrun as well as G&A and Direct Distributables.
- The RL-0042 positive variance (+\$1.5M) reflects reduction in surveillance and maintenance requirements as the facility deactivation reached completion. Efficient use of resources to support deactivation activities with available time further aided in creating this positive variance.

## FUNDING ANALYSIS

### FY2012 Funds vs. Fiscal Year Spend Forecast (\$M)

PBS	Project	FY 2012		Variance
		Projected Funding	Spending Forecast	
<b>RL-0011</b>	Nuclear Materials Stabilization and Disposition	33.4	33.4	0.0
<b>RL-0013</b>	Waste and Fuels Management Project	4.6	4.6	0.0
<b>RL-0030</b>	Soil, Groundwater and Vadose Zone Remediation	0.6	0.6	0.0
<b>RL-0040</b>	Nuclear Facility D&D, Remainder of Hanford	9.2	9.2	0.0
<b>RL-0041</b>	Nuclear Facility D&D, River Corridor	6.5	6.5	0.0
<b>Total ARRA:</b>		<b>54.2</b>	<b>54.2</b>	<b>0.0</b>
<b>RL-0011</b>	Nuclear Materials Stabilization and Disposition	99.4	93.7	5.7
<b>RL-0012</b>	Spent Nuclear Fuel Stabilization and Disposition	87.5	83.6	3.9
<b>RL-0013</b>	Waste and Fuels Management Project	88.3	84.6	3.7
<b>RL-0030</b>	Soil, Groundwater and Vadose Zone Remediation	121.1	121.6	(0.5)
<b>RL-0040</b>	Nuclear Facility D&D, Remainder of Hanford	11.3	11.2	0.1
<b>RL-0041</b>	Nuclear Facility D&D, River Corridor	36.1	35.2	0.9
<b>RL-0042</b>	Fast Flux Test Facility Closure	2.0	1.6	0.4
<b>Total Base:</b>		<b>445.7</b>	<b>431.4</b>	<b>14.3</b>

#### Funds/Variance Analysis:

ARRA funding reflects FY2011 carryover funds. The ARRA spending forecast assumes that all ARRA funding is spent in FY2012. Base funding reflects FY2011 carryover funds of \$42.2M and FY2012 new budget authority of \$403.6M. Base funding was reduced by \$0.3M in January; \$0.6M was added to RL-0012 and \$0.9M was reduced from RL-0040.

## BASELINE CHANGE REQUESTS

In January 2012, CHPRC approved and implemented twelve (12) baseline change requests (BCRs), of which seven (7) was administrative in nature and did not change scope, schedule or budget. The twelve change requests are identified in the table below:

Change Request #	Title	Summary of Change
<b>Implemented into the Earned Value Management System for January 2012</b>		
BCRA-PRC-12-005R0	<i>CEIS and P6 Reconciliation of "Closed" activities to Match Cobra</i>	BCR corrects discrepancies in budget quantities/hours between CEIS, P6, and Cobra.
BCRA-PRC-12-007R0	<i>January 2012 PMB BCR Log Reconciliation to Cobra</i>	This BCR reconciles the BCR Log to Cobra.
BCRA-PRC-12-008R0	<i>January 2012 FEE BCR Log Reconciliation to Cobra</i>	This BCR reconciles the BCR Log to Cobra.
BCRA-PRC-12-009R0	<i>January 2012 MR BCR Log Reconciliation to Cobra</i>	This BCR reconciles the BCR Log to Cobra.
BCRA-PRC-12-010R0	<i>Admin BCR for Miscellaneous HPIC Changes</i>	Multiple HPIC Forms for WBS Changes/New WBS/CACN Requests
BCRA-030-12-005R0	<i>RL-30 January Baseline Administrative Changes</i>	This BCR implemented: <ol style="list-style-type: none"> <li>1. Changed FOC Name</li> <li>2. Established two new WBS elements</li> <li>3. Modified two WBS titles</li> <li>4. Moved work scope under Level-2 WBS elements</li> <li>5. Identified the TPA &amp; PBI Global coding</li> <li>6. Added/modified additional activity coding assignments within P6</li> </ol>
BCRA-041-12-003R0	<i>RL-41 EVM coding, logic, and WBS description changes.</i>	<ol style="list-style-type: none"> <li>1. Changed EVM coding on activities with zero budgets.</li> <li>2. Removed logic ties to TPA phase 1 for Waste Sites not associated to Phase 1.</li> <li>3. Changed wording in Basis of Estimate for WBS 41.02.08.01.01 removing references to Core Removal</li> <li>4. Created new WBS for 105KW ISS and moved out year budget from 41.02.02.02.12.05</li> <li>5. Corrected PI metrics by adding milestones for Waste Site Remediation.</li> </ol>
BCR-000-12-002R0	<i>Beryllium Program Revision to Estimate</i>	This Baseline Change Request revises the Budgeted Cost of Work Scheduled (BCWS) for the Beryllium Program to encompass the current estimate for those activities required to execute contract requirements and to complete Central Plateau remediation and closure. This increase in BCWS is reflected in

Change Request #	Title	Summary of Change
		the company G&A cost.
BCR-000-12-004R0	<i>Functional Programs Labor Estimate Revision</i>	This Baseline Change Request revises the Budgeted Cost of Work Scheduled for WBS 000 functional programs by addition of a "OZ" labor adjustment to narrow the range between the planned and actual rates, minimizing the disparity in the rates and ensuring the data is comparable to facilitate analysis.
BCR-R13-12-001R0	<i>W&amp;FM ARRA Buy-Back</i>	This change documents the creation of an ARRA buy-back subproject (RL-013C.R1.3) to accommodate additional ARRA scope necessary to ramp down TRU Waste Facilities (WRAP, T Plant & LLBG) to minimum safe configurations.
BCR-041-12-002R0	<i>Waste Site 100-K-102 Realized Risks</i>	The discovery of lead in pipelines that had been expected to be non-hazardous represented realization of two risks: WSR-047, Unforeseen Waste Site Event and PRC-029 – Unforeseen Facility Condition. Management reserve will be utilized to offset the cost impacts associated with these realized risks.
BCR-041-12-005R0	<i>Realized Risk for the 116-KE-3; 105-KE Fuel Storage Basin Sub-Basin Drainage Disposal System Crib and Storage Basin French Drain</i>	In the process of remediating the 116-KE-3 Waste Site, it was determined that additional sampling and analysis is required to determine a path forward to either complete the remediation or to determine a long range plan.

Overall the contract period performance measurement baseline (PMB) budget is increased \$120K in January 2012.

In January 2012 management reserve (MR) is reduced in the amount of (\$686K).

#### Management Reserve Activity

BCR Number	Title	Fiscal Year	MR (ARRA) & PBS	MR (Base) & PBS
BCR-041-12-002R0	<i>Waste Site 100-K-102 Realized Risks</i>	2012 & 2017	N/A	RL-041/2012/\$422.3K & RL-041/2017/\$149.8K
BCR-041-12-005R0	<i>Realized Risk for the 116-KE-3; 105-KE Fuel Storage Basin Sub-Basin Drainage Disposal System Crib and Storage Basin French Drain</i>	2012	N/A	RL-041/2012/\$113.9K
<b>Overall MR Change in January 2012 – (\$686K)</b>				

**Use of Management Reserve (MR):** Base MR was reduced by (\$686K) for January 2012.

There were no Fee adjustments in January 2012.

See the Format 3 Report in Appendix A and A-1 for a complete listing of the specific change requests and the impact on the PMB budget by fiscal year. The change to the Estimated Contract Price, if all authorized, un-priced work scope were definitized at the PMB values as a result of change requests processed in January 2012, would be an increase of \$120K and is summarized by fiscal year in the tables below (dollars in thousands, negative number represents reduction):

### January 2012 Summary of Changes

	FY2009	FY2010	FY2011	FY2012	FY2013	FYs 2009-2013	FYs 2014-2018	Contract Period Total	Post Contract Total	Total PMB
<i>December 2011 Estimate</i>										
PMB	653,429	960,017	1,002,105	426,911	474,445	3,516,907	2,812,519	6,329,427	64,797	6,394,224
Mgmt Rsrv (MR)	0	0	0	11,687	10,487	22,174	65,069	87,243	0	87,243
Fee	39,712	48,772	32,322	17,000	18,000	155,806	94,400	250,207	0	250,207
<b>Total</b>	<b>693,141</b>	<b>1,008,789</b>	<b>1,034,427</b>	<b>455,598</b>	<b>502,932</b>	<b>3,694,887</b>	<b>2,971,988</b>	<b>6,666,877</b>	<b>64,797</b>	<b>6,731,674</b>
<i>Change by Funding Source in January 2012</i>										
<b>PMB</b>										
<b>ARRA</b>										
All ARRA WBSs	-3	0	0	123	0	120	0	120	0	120
<b>Base</b>										
All Base WBSs	0	0	0	536	0	536	150	686	0	686
<b>Change to PMB</b>	<b>-3</b>	<b>0</b>	<b>0</b>	<b>659</b>	<b>0</b>	<b>656</b>	<b>150</b>	<b>806</b>	<b>0</b>	<b>806</b>
<b>MR</b>										
<b>ARRA</b>										
All ARRA WBSs	0	0	0	0	0	0	0	0	0	0
<b>Base</b>										
All Base WBSs	0	0	0	-536	0	-536	-150	-686	0	-686
<b>Change to MR</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-536</b>	<b>0</b>	<b>-536</b>	<b>-150</b>	<b>-686</b>	<b>0</b>	<b>-686</b>
<b>Fee</b>										
<b>ARRA</b>										
All ARRA WBSs	0	0	0	0	0	0	0	0	0	0
<b>Base</b>										
All Base WBSs	0	0	0	0	0	0	0	0	0	0
<b>Change to Fee</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total Change</b>	<b>-3</b>	<b>0</b>	<b>0</b>	<b>123</b>	<b>0</b>	<b>120</b>	<b>0</b>	<b>120</b>	<b>0</b>	<b>120</b>
<i>January 2012 Estimate</i>										
PMB	653,426	960,017	1,002,105	427,570	474,445	3,517,563	2,812,669	6,330,233	64,797	6,395,030
MR	0	0	0	11,151	10,487	21,638	64,919	86,557	0	86,557
Fee	39,712	48,772	32,322	17,000	18,000	155,806	94,400	250,207	0	250,207
<b>Total</b>	<b>693,138</b>	<b>1,008,789</b>	<b>1,034,427</b>	<b>455,721</b>	<b>502,932</b>	<b>3,695,007</b>	<b>2,971,988</b>	<b>6,666,997</b>	<b>64,797</b>	<b>6,731,794</b>

**Changes to/Utilization of Management Reserve in January 2012**

		FY2009	FY2010	FY2011	FY2012	FY2013	FY2009-2013	FY2014-2018	Total
<b>Management Reserve (MR) - End of December 2011</b>									
<b>ARRA</b>	RL-0011.R1	0	0	0	0	0	0	0	0
	RL-0013.R1.1	0	0	0	0	0	0	0	0
	RL-0013.R1.2	0	0	0	0	0	0	0	0
	RL-0030.R1.1	0	0	0	0	0	0	0	0
	RL-0030.R1.2	0	0	0	0	0	0	0	0
	RL-0040.R1.1	0	0	0	0	0	0	0	0
	RL-0040.R1.2	0	0	0	0	0	0	0	0
	RL-0041.R1	0	0	0	0	0	0	0	0
<b>ARRA Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Base</b>	RL-0011	0	0	0	5,500	5,000	10,500	8,100	18,600
	RL-0012	0	0	0	1,600	1,800	3,400	8,952	12,352
	RL-0013	0	0	0	500	400	900	21,687	22,587
	RL-0030	0	0	0	2,832	2,032	4,864	13,639	18,503
	RL-0040	0	0	0	200	200	400	8,257	8,657
	RL-0041	0	0	0	1,000	1,000	2,000	4,176	6,176
	RL-0042	0	0	0	55	55	110	259	369
	<b>Base Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>11,687</b>	<b>10,487</b>	<b>22,174</b>	<b>65,070</b>	<b>87,243</b>
<b>MR Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>11,687</b>	<b>10,487</b>	<b>22,174</b>	<b>65,070</b>	<b>87,243</b>	
<b>Changes to/Utilization of Management Reserve in January 2012</b>									
<b>ARRA</b>	RL-0011.R1	0	0	0	0	0	0	0	0
	RL-0013.R1.1	0	0	0	0	0	0	0	0
	RL-0013.R1.2	0	0	0	0	0	0	0	0
	RL-0030.R1.1	0	0	0	0	0	0	0	0
	RL-0030.R1.2	0	0	0	0	0	0	0	0
	RL-0040.R1.1	0	0	0	0	0	0	0	0
	RL-0040.R1.2	0	0	0	0	0	0	0	0
	RL-0041.R1	0	0	0	0	0	0	0	0
<b>ARRA Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	
<b>Base</b>	RL-0011	0	0	0	0	0	0	0	0
	RL-0012	0	0	0	0	0	0	0	0
	RL-0013	0	0	0	0	0	0	0	0
	RL-0030	0	0	0	0	0	0	0	0
	RL-0040	0	0	0	0	0	0	0	0
	RL-0041	0	0	0	-536	0	-536	-150	-686
	RL-0042	0	0	0	0	0	0	0	0
	<b>Base Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-536</b>	<b>0</b>	<b>-536</b>	<b>-150</b>	<b>-686</b>
<b>MR Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-536</b>	<b>0</b>	<b>-536</b>	<b>-150</b>	<b>-686</b>	
<b>Management Reserve - End of January 2012</b>									
<b>ARRA</b>	RL-0011.R1	0	0	0	0	0	0	0	0
	RL-0013.R1.1	0	0	0	0	0	0	0	0
	RL-0013.R1.2	0	0	0	0	0	0	0	0
	RL-0030.R1.1	0	0	0	0	0	0	0	0
	RL-0030.R1.2	0	0	0	0	0	0	0	0
	RL-0040.R1.1	0	0	0	0	0	0	0	0
	RL-0040.R1.2	0	0	0	0	0	0	0	0
	RL-0041.R1	0	0	0	0	0	0	0	0
<b>ARRA Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	
<b>Base</b>	RL-0011	0	0	0	5,500	5,000	10,500	8,100	18,600
	RL-0012	0	0	0	1,600	1,800	3,400	8,952	12,352
	RL-0013	0	0	0	500	400	900	21,687	22,587
	RL-0030	0	0	0	2,832	2,032	4,864	13,639	18,503
	RL-0040	0	0	0	200	200	400	8,257	8,657
	RL-0041	0	0	0	464	1,000	1,464	4,026	5,490
	RL-0042	0	0	0	55	55	110	259	369
	<b>Base Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>11,151</b>	<b>10,487</b>	<b>21,638</b>	<b>64,920</b>	<b>86,557</b>
<b>MR Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>11,151</b>	<b>10,487</b>	<b>21,638</b>	<b>64,920</b>	<b>86,557</b>	

## SELF-PERFORMED WORK

Business structure information documents ongoing compliance with the requirements of the Contract Section H.20 clause entitled *Self-Performed Work*.

Contracts-to-Date Actual Awards & Mods								Projection to FY18	
Contracts + Purchase Orders + Pcard 10/1/08 -1/31/2012								Planned Subcontracting*	\$2,524,483,195
								Contract-to-date awards	\$1,884,028,535
								Bal remaining to award =	\$640,454,660
	ARRA		BASE		Total \$	Total %	Goal %	Goal award \$	Bal to goal \$
	\$	%	\$	%					
SB	\$377,999,489	53.51%	\$559,719,461	47.53%	\$937,718,950	49.77%	49.30%	\$1,244,570,215	\$306,851,266
SDB	\$77,998,093	11.04%	\$93,257,239	7.92%	\$171,255,332	9.09%	8.20%	\$207,007,622	\$35,752,290
SWOB	\$87,154,039	12.34%	\$100,580,934	8.54%	\$187,734,974	9.96%	7.50%	\$189,336,240	\$1,601,266
HUB	\$22,472,962	3.18%	\$22,006,773	1.87%	\$44,479,735	2.36%	2.20%	\$55,538,630	\$11,058,896
VOSB	\$53,521,892	7.58%	\$57,401,771	4.87%	\$110,923,663	5.89%	3.50%	\$88,356,912	(\$22,566,751)
SDVO	\$13,904,155	1.97%	\$37,483,625	3.18%	\$51,387,780	2.73%	1.30%	\$32,818,282	(\$18,569,498)
NAB	\$17,070,301	2.42%	\$10,118,719	0.86%	\$27,189,020	1.44%	0.00%	* 10-year subcontracting projection	
Large	\$241,870,018	34.24%	\$294,523,403	25.01%	\$536,393,421	28.47%	0.00%		
GOVT	\$117,126	0.02%	\$1,491,504	0.13%	\$1,608,629	0.09%	0.00%	PRC clause H.20 small business (SB) requirement:	
GOVT CONT	\$86,397,845	12.23%	\$318,713,452	27.07%	\$405,111,297	21.50%	0.00%	≥17% of Total Contract Price performed by SB	
EDUC	\$9,526	0.00%	\$108,101	0.01%	\$117,627	0.01%	0.00%	Total Contract Price:	\$5,525,855,581
NONPROFIT	\$37,188	0.01%	\$2,843,817	0.24%	\$2,881,004	0.15%	0.00%	17% requirement:	\$939,395,449
FOREIGN	\$28,773	0.00%	\$165,458	0.01%	\$194,231	0.01%	0.00%	SB Awarded:	\$937,718,950
<b>Total</b>	<b>\$706,459,964</b>		<b>\$1,177,568,571</b>		<b>\$1,884,028,535</b>			Balance to Requirement:	\$1,676,499

**Notes:**

1. Subcontracting goals have been met as a result of a concerted effort to award new small business actions and an update of the subcontracting goals to match the small business plan submitted to DOE in December 2010 that was verbally accepted by DOE in August. Fifty-one percent of total awards have been made to small businesses with approximately 54% of ARRA awards to small businesses.
2. ARRA-funded awards have accounted for approximately 44% of all actions placed since contract inception.
3. Approximately 93% of the total dollars arise from service and staffing Contracts and Contract amendments with five percent of the dollars arising from P-Card purchases and the balance from purchase orders for materials and equipment.
4. This report excludes blanket contract values which are only estimates and not used for payment obligations.
5. Data is summarized by business categories (Women Owned Minority Business Enterprise codes) in accordance with socioeconomic reporting requirements. Small business categories overlap and should not be added together.

## GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

Contract Section	Project	GFS/I	Status
<b>CONTRACT</b>			
J.12/C.2.3.6	PBS-13, Transuranic Waste Certification	WIPP provides shipping resources and manages the schedule for transportation of these containers to WIPP. The schedule is variable and the number of shipments is controlled by DOE-HQ on a complex-wide priority. Cost for shipment of TRU waste offsite is borne by the Carlsbad Field Office.	Ongoing

# Section A

## Nuclear Materials Stabilization and Disposition of PFP (RL-0011)



**J.W. Long**  
Vice President and  
Project Manager for  
PFP Closure Project

January 2012  
CHPRC-2012-01, Rev. 0  
Contract DE-AC06-08RL14788  
Deliverable C.3.1.3.1 - 1

## PROJECT SUMMARY

The Plutonium Finishing Plant (PFP) Project continues to maintain PFP facilities compliant with authorization agreement requirements.

### **American Recovery and Reinvestment Act (ARRA)**

Removal of plutonium-contaminated process equipment continued as a top priority in readying the PFP Complex for demolition, with a particular focus on removal of gloveboxes and associated piping and ductwork from the process and lab areas. Glovebox Deactivation, Decommissioning, Decontamination, and Demolition (D&D) is complete in the backside vault rooms, Standards Laboratory, Analytical Laboratory, and the Radioactive Acid Digestion Test Unit (RADTU). A total of 134 gloveboxes have been removed to date with Recovery Act Funds. Of these, 131 have been shipped out of PFP for treatment or disposal and three have been set aside and staged for size reduction and disposal as transuranic (TRU) waste.

Demolition of the buildings in and around the 2736-ZB Vault Support Facility continued. Completed demolition of 2721-Z, with waste load out planned to complete early in the following fiscal month. Demolition of 2736-ZB was initiated by removing the clean security annex.

Key Performance Parameter (KPP) closure documentation was completed for the 47 rooms in the 234-5Z building's three laboratories and the "backside" vaults. The KPP rooms/areas dispositioned under ARRA now total 52.

External isolations, process equipment removal, and decontamination continued on the Remote Mechanical A (RMA) and Remote Mechanical C (RMC) Line gloveboxes. In Room 235-B, the E4 ductwork that previously serviced the bagless transfer system (BTS) gloveboxes was removed and size reduced. Electrical isolation was completed on the Room 235A-2 gloveboxes. In Rooms 230A and 230B, the first cycle of decontamination was completed for gloveboxes HC-21A, HC-21C, and HC-2B. In Room 228A, glovebox HC-1A was placed on a lift table and removal of the flange bolts was initiated in preparation for installing the separation sleeve, which will allow this section to be removed from the HC-1 conveyor for transport to Solid Waste Operations.

Work on removing transfer lines, process vacuum system piping, and asbestos insulation removal is constrained by lack of adequate resources as a result of workforce restructuring and diversion of resources to higher PFP priority efforts. The team was able to complete some setup activities and prepare for removal of piping and asbestos. The total number of highly contaminated process solution transfer lines in the 234-5Z building removed remains at 594 feet. Total process vacuum system piping removed remains at 1,210 feet. Asbestos removed from piping and ductwork remains at 15,228 feet.

As the pace of D&D work has accelerated at PFP, so have waste generation rates. CHPRC has now shipped approximately 3,908 cubic meters of waste from PFP with support from Recovery Act funds, including 3,080 cubic meters of low level and mixed low level waste, 794 cubic meters of TRU waste, and 34 cubic meters of nonradioactive waste.

### **Base**

The first increment for the pencil tank Performance Incentive (PI) was completed with the shipment of the Standard Waste Boxes (SWBs) containing the segments of Pencil Tank Assembly 25 (Tank 25). Size reduction of the pencil tank assemblies continued to make significant progress with the successful size reduction and waste loading of Tank 26 and Tank 28.

## EMS Objectives and Target Status

Objective #	Objective	Target	Actions to Achieve Target	Due Date	Status
12-EMS-PFP-OB1-T1	Reduce generation/toxicity of waste through spill reduction	Reduce likelihood of hydraulic spills from D&D work at PFP	Review history of D&D hydraulic failures	12/30/2011	100%
			Identify types of failure and impact	03/29/2012	
			Research improved hydraulic line technology	06/29/2012	
			Report recommendations to management	07/30/2012	
12-EMS-PFP-OB2-T1	Reduce vehicle miles/ green house gas emissions by use of mass transit	Formally request Ben Franklin Transit (BFT) bus service to 200W/PFP	Formally request BFT/CHPRC to implement	10/31/2011	100%
			Conduct tour/employee meetings with BFT	11/01/2011	100%
			Formally request proposal from BFT	11/24/2011	100%
12-EMS-PFP-OB3-T1	Reduce radioactive air emissions from open air demolition of 236-Z	Decontamination of 236-Z Building canyon	Review decontamination methods	12/30/2011	100%
			Evaluate selected method for air emissions	06/30/2012	
			Evaluate method's ability for source reduction	08/31/2012	

## TARGET ZERO PERFORMANCE

	Current Month	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	2	N/A
Total Recordable Injuries	1	3	<b>Base</b> - 1/18/2012 – While wearing hard hat, employee had a 16 foot ladder fall and hit them in the head causing pain. (22609)
First Aid Cases	4	68	<b>Base</b> - 1/5/2012 - Employee tripped and fell on the ground, experiencing pain in their hands wrists forearms and elbows. (22598) <b>Base</b> - 1/5/2012 - Employee experienced pain in left forearm coming into contact with object. (22599) <b>Base</b> – 1/12/2012 – Employee experienced neck pain due to hitting head. (22605) <b>Base</b> - 1/16/2012 – Employee slipped and fell hurting right knee/hip. (22616)
Near-Misses	0	0	N/A

## KEY ACCOMPLISHMENTS

### ARRA

#### 11.05 Disposition PFP Facility – ARRA

- Removed 90% of the E4 duct in Room 235B that interfered with the installation of gantry cranes for glovebox separation. The methodology for assembling the gantry cranes was verified in the 212-Z yard to support planning.
- The electrical isolation of the Room 235A-2 gloveboxes was completed. The Polychlorinated Biphenyl (PCB) contamination area in the Room 235A-2 pit was cleaned and fixed.
- The planning was completed and the work was started to disposition the glovebox hold up material in Room 235A-3
- Completed the removal of mechanical systems near conveyor HC-1A in Room 228A
- Applied internal fixative to HC-10, HC-1A, HC-1K, & HC-1B in Room 228A
- Completed Aspigel decontamination of glovebox HC-21C and conveyor HC-2B in Room 230A and started Aspigel decontamination on HC-21A in Room 230B

#### Backside Rooms (Rooms 158-172) D&D

- Issued first work package and commenced Room 166 D&D effort.

#### Disposition PFP (234-5Z) Facility

- Process vacuum piping removal remains at 30 percent complete with 1,210 total feet removed.
- A total of 594 feet of chemical piping transfer line has been removed.
- No asbestos-containing material was removed during the month of January. The total remains at 15,228 feet of asbestos removed.

#### 2736Z/ZB Vault Complex

- Demolition continued on two 2736-ZB complex buildings, 2721-Z and 2736-ZB. 2721-Z was completed and removed, while 2736-ZB demolition and load out continued.

#### 11.02 Maintain Safe & Compliant PFP - Base

- A ventilation flow reversal in 234-5Z from the RMC Line Control Room Zone 3 through Door 281 to Corridor 2 Zone 1 was identified. In response, TSR Limiting Condition for Operations (LCO) Conditions for deficient filtered exhaust and differential pressure were entered, thus placing the facility in a “Terminate Activities” condition. The ventilation reversal was corrected late Sunday, January 29 and the Terminate Activities restriction removed approximately mid-day Monday January 30.
- PFP Maintenance continues to perform work activities designed to enhance the condition of the exhaust ventilation system for the facility.

#### 11.05 Disposition PFP Facility – Base

##### Plutonium Reclamation Facility (PRF)

- The SWBs containing the segments of Tank 25 was shipped on Wednesday, December 28<sup>th</sup>, completing the first increment for the pencil tank Performance Incentive (PI).
- Size reduction and seal out of Tank 26 was completed.
- Electrical isolation of the MT gloveboxes was completed.
- Size reduction and six seal-outs of Tank 28 was completed.
- Tank 27 was transferred to the maintenance cell and NDA completed.

## MAJOR ISSUES

**Issue** - On August 29, Exhaust Fan #1 in the 291-Z facility catastrophically failed and caused a small fire when a hot bearing made contact with the drive belt. The facility implemented required casualty response actions and the fire was extinguished. Normal ventilation for the facility was shut down and backup steam turbine driven exhaust fans were placed in service. Per Technical Safety Requirement (TSR), the facility was placed in a "Terminate Activities" mode which halted all D&D activities.

**Corrective Actions** - A thorough evaluation of the 291-Z exhaust fans was performed. The evaluation identified additional mechanical issues with most of the remaining exhaust fans. A positive Unreviewed Safety Question (USQ) determination was declared and Evaluation of Safety of the Situation (ESS) was prepared and submitted to RL for approval. The ESS was approved by RL on September 15, 2011 (Letter #11-SED-0165). Normal ventilation fans were restarted and the Terminate Activities condition was exited. Normal D&D activities were authorized to commence. A JCO was submitted to RL via letter CHPRC-1104667 R1 on November 28 as directed by the ESS.

**Status** - Exhaust Fan 3 and 5 weld repair preparations are continuing. The containment tent for EF-5 is being installed and welding is scheduled to begin in late March. The exhaust ventilation system Enhanced Maintenance Program procedures have been completed and will be implemented upon return of EF-5 to service.

## 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	
<b>RL-0011/WBS 011</b>				
PFP-003: More Extensive Cleanout/Decon Required	Develop and implement a detailed process facility characterization plan. Determine and obtain approval for ready-for-demolition criteria (contamination removal/cleanup endpoints prior to building demolition). Early characterization provides an opportunity to avoid project schedule impact; however, cost impacts remain.	●	↔	There have been no new discoveries since submittal of PMB-3, which incorporated the impacts of significantly higher than expected holdup and contamination levels discovered in the 234-5Z gloveboxes/hoods, deactivated process vacuum piping in 291-Z, a transfer line from 242Z to 234-5Z, and the ductwork downstream of HEPA filters in 2736-ZB. Development and implementation of a detailed facility characterization plan was also incorporated in PMB-3 to proactively investigate other areas where facility contamination levels are not well understood. The characterization planning continued during January, and staffing actions are scheduled to begin in February for RCT support for the characterization activities.
PFP-004: Risk of PRF Canyon D&D cost/schedule growth	Complete detailed planning/engineering for D&D of PRF canyon, particularly pencil tank removal and canyon decontamination. Perform critical system reliability assessments for all of the PFP safety and essential systems; procure critical spares; maintain existing redundancies; repair or replace equipment as failures occur and complete planned facility modifications.	●	↑	The PRF canyon crane has experienced no recent problems, and Pencil Tank disposition continues to accelerate.
PFP-009: Problems with Aging Building Systems/Components Impacts D&D		●	↑	Following the failure of one exhaust fan in 291-Z and inspection/repair of others, implementation of the enhanced preventative maintenance program for Vital Safety Systems and VSS support systems is continuing. Preparations for completing the final repairs are continuing, which involve welding to repair minor cracks observed on the blades of two of the fans.
PFP-008: Unexpected High Concentration TRU Material Holdup Discovered	Utilize supplemental NDA and other characterization techniques to identify areas of concern early in the project. Discuss potential response actions and administrative controls with Safeguards and Security, and proceduralize them as needed to guide the project in responding in the event unexpected material is identified.	●	↑	Disposition of the higher holdup material discovered in one of the former process gloveboxes has been completed and the D&D team has resumed work on their scheduled D&D scope. Approximately one month of planning and one month of D&D field team work was lost as a result of the discovery. Management reserve will be requested to accommodate the cost impact, however no schedule contingency is available to offset the delayed field work.
PFP-042: Increased Attrition Impacts Availability of Qualified Resources	Risks have historically been accepted without mitigation.	●	↑	Training and qualification has been completed for nearly all of the personnel transferred to PFP in early October to backfill for lower seniority personnel released during workforce restructuring, and the impacted teams have resumed planned work. Training of personnel transferred to PFP following layup at WRAP is proceeding ahead of schedule and it is likely that the second process vacuum system removal team can begin work prior to April.
PRC-021A: Workforce restructuring caused by funding changes				
PFP-006: Overall D4 Schedule Impacts from Interferences Between Subprojects	Ensure that activity schedules for all subprojects are integrated and are detailed enough to identify and avoid possible conflicts, and maintain coordination between closely related efforts that could overlap or that use the same resources.	●	↑	Bulk area cleanout in the Analytical Laboratory has been completed and demolition of the PFP vault complex is well underway, with three of the six buildings demolished and the crew well into the large 2736-ZB vault support facility. Staffing forecasts by craft/discipline are being extracted from the Field Execution Schedules to better anticipate and avoid future resource conflicts.
PFP-061: Experienced Demolition Crews/Equipment Not Available				
PFP-064 OPP: Reduced Size Reduction Required Consistent With SLB2 Packaging	Implementation of the use of SLB-2s has been identified as a sitewide initiative by CHPRC and RL. A specific plan of action was developed and is being executed to support this opportunity.	●	↑	Two gloveboxes have now been direct-loaded into the larger SLB-2 containers, and will be shipped in February. New containers are being received from the vendor in regular shipments for future use. The scope, schedule and cost reductions that will result from the use of SLB-2 packages at PFP have been assessed and incorporated in the updated PMB-3.
PRC-014: Site-Wide Occurrence	None	●	↓	Recent site-wide notifications regarding asbestos abatement area concerns could result in additional work scope and increased/modified requirements for asbestos abatement. Specifically at PFP, concerns have been expressed regarding pieces of transite siding likely originating from a 1940's vintage construction debris trench.
PRC-029: Unforeseen Facility Conditions	None	●	↓	During January, two such occurrences were experienced. During demolition of the PFP vault complex, the CHPRC demolition crew exposed a previously unidentified drain, and water used for dust suppression with higher than normal pH entered the drain line to TEDF. Work was suspended while TEDF managed the higher pH liquids and the location of all drains within or near the demolition zone were researched, walked down, and visibly marked prior to resumption of the work. In the 234-5Z building, it was discovered that unfiltered air was flowing in reverse from the Zone 3 RMC Line Control Room back into the Zone 1 frontside corridor. Intrusive work was suspended while air flow adjustments and system changes were implemented.

## PROJECT BASELINE PERFORMANCE

### Current Month

(\$M)

WBS 011/RL-0011 Nuclear Matl Stab & Disp PFP	Budgeted Cost of Work Scheduled (BCWS)	Budgeted Cost of Work Performed (BCWP)	Actual Cost of Work Performed (ACWP)	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)
<b>ARRA</b>	6.1	5.0	5.4	(1.1)	-18.5	(0.4)	-8.8
<b>Base</b>	<u>3.3</u>	<u>3.1</u>	<u>2.7</u>	<u>(0.3)</u>	-8.7	<u>0.4</u>	12.2
<b>Total</b>	<b>9.5</b>	<b>8.1</b>	<b>8.1</b>	<b>(1.4)</b>	<b>-15.1</b>	<b>(0.1)</b>	<b>-0.9</b>

Numbers are rounded to the nearest \$0.1M

#### ARRA

##### CM Schedule Variance: (-\$1.1M/-18.5%)

Current month schedule variance is a result of inability to work planned shifts in RMA/RMC process lines due to key resource absence during holiday week, lack of work package backlog, and D&D work restriction. Delays in demolition of the ZB Complex result from more effort required to ready 2736-ZB for demolition and time lost recovering from an un-sampled waste water incident. The Hanford site closure for inclement weather also contributes to the unfavorable variance.

##### CM Cost Variance: (-\$0.4M/-8.8%)

The cost variance is within reporting thresholds.

#### Base

##### CM Schedule Variance: (-\$0.3M/-8.7%)

The schedule variance is within reporting thresholds.

##### CM Cost Variance: (+\$0.4M/+12.2%)

The cost variance is within reporting thresholds.

## Contract-to-Date (\$M)

WBS 011/ RL-0011 Nuclear Matl Stab & Disp PFP	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>	285.2	281.3	290.0	(3.9)	-1.4	(8.6)	-3.1	293.7	295.8	(2.1)
<b>Base</b>	<u>169.6</u>	<u>168.7</u>	<u>170.4</u>	<u>(0.8)</u>	-0.5	<u>(1.7)</u>	1.0	<u>595.5</u>	<u>594.6</u>	<u>0.8</u>
<b>Total</b>	<b>454.8</b>	<b>450.1</b>	<b>460.4</b>	<b>(4.7)</b>	<b>-1.0</b>	<b>(10.3)</b>	<b>-2.3</b>	<b>889.2</b>	<b>890.5</b>	<b>(1.3)</b>

Numbers are rounded to the nearest \$0.1M

### ARRA

#### CTD Schedule Performance: (-\$3.9M/-1.4%)

The schedule variance is within reporting thresholds.

#### CTD Cost Performance: (-\$8.6M/-3.1%)

The cost variance is within reporting thresholds.

### Base

#### CTD Schedule Variance (-\$0.8M/-0.5%)

The schedule variance is within reporting thresholds.

#### CTD Cost Variance (-\$1.7M/+1.0%)

The cost variance is within reporting thresholds.

#### Variance at Completion (-\$1.3M/-0.1%)

The variance at completion is within reporting threshold.

**Contract Performance Report Formats are provided in Appendix A and Appendix A-1.**

#### Estimate at Completion (EAC)

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

The EAC changes from December to January, for both ARRA and Base, are within reporting thresholds.

## FUNDS vs. SPEND FORECAST (\$M)

WBS 011/RL-0011 Nuclear Matl Stab & Disp PFP	FY2012		Spend Variance
	Projected Funding	Spending Forecast	
<b>ARRA</b>	33.4	33.4	0.0
<b>Base</b>	99.4	93.7	5.7

Numbers are rounded to the nearest \$0.1M

### Funds/Variance Analysis

Funding includes FY2011 carryover and FY2012 new Budget Authority.

### Critical Path Schedule

Critical Path analysis can be provided upon request.

### Baseline Change Requests

None.

## MILESTONE STATUS

None at this time.

## SELF-PERFORMED WORK

The Section H. clause entitled, "Self-Performed Work," is addressed in the Monthly Report Overview.

## GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None identified at this time.

# Section B

## Spent Nuclear Fuel Stabilization and Disposition (RL-0012)



**K. L. Kehler**  
Vice President and  
Project Manager for  
D&D Project

January 2012  
CHPRC-2012-01, Rev. 0  
Contract DE-AC06-08RL14788  
Deliverable C.3.1.3.1 - 1

## PROJECT SUMMARY

RL personnel continued reviewing the 105KW Basin, the Cold Vacuum Drying Facility (CVDF), and the Canister Storage Building (CSB) Safety Basis documents that were submitted in support of the knockout pot (KOP) processing operations, cold vacuum drying, and interim storage. The weekly interface meeting between RL and CHPRC personnel did not identify any new significant RL comments. STP personnel continue to work on resolution of previously identified comments and are making good progress. Approval of the Final Safety Basis Documents is expected before the end of the month.

Final preparations, including the delivery of all required hardware, were completed and hands-on operations training commenced at the Maintenance and Storage Facility (MASF) early in the month and continued throughout. In addition to facilitating proficient operations, this evolution is critical for preparing the final operating procedures and ensuring all operational activities are consistent with the safety and radiation protection program requirements. In addition, excellent progress was made in familiarizing operations personnel with KOP Process System (KPS) process operation and validation of the operating procedure steps. This is scheduled to be completed by the end of the month.

A recent independent review of the KOP Proof of Dryness Basis Calculation resulted in questions regarding the mathematical equation used to validate that multi-canister overpacks (MCOs) loaded with KOP product material are physically dry (containing < 200 grams of free water). This resulted in a potential inadequacy in the safety analysis (PISA), which will be addressed in late January and early February.

A review of the AREVA 90% design of the modified K West Annex was conducted earlier in the month. The review was performed to verify that the design package was sufficiently complete to support issuing an amendment to the Request for Proposal (RFP) for construction. No major issues were identified. AREVA continues to resolve and incorporate comments from the review. Resolution of the few comments received will be complete in time to support issuance of the revised RFP before the end of the month.

Preparations for Technology Readiness Assessment -2 (TRA-2) continue as planned. The Joint Testing Group (JTG) approved the first of seven Critical Technology Elements (CTEs) earlier in the month, and continued to work through the balance of them. The JTG has had several comments that will improve the CTE documentation. No impact to the TRA-2 start date will result from resolution of these JTG comments.

Training was initiated for MCO Loading System/Cask Loading System in the K West Basin and MCO training at MASF for the KPS. In addition, CVDF Operations continued to perform simulator training and systems/bay qualifications in order to support processing scrap fuel MCOs this spring.

RL completed their review of CHPRC's Phase 2 Technology recommendation and has formally accepted the recommendation. A concurrence letter was signed on December 23, 2011 and was received by CHPRC on December 27, 2011. RL's approval is consistent with the efforts currently underway to develop the Phase 2 Preliminary Technology Maturation Plan (PTMP) in support of TPA milestone M-016-171 due March 31, 2012.

## TARGET ZERO PERFORMANCE

	CM Quantity	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	0	N/A
Total Recordable Injuries	0	0	N/A
First Aid Cases	7	21	<p><b>01/03</b> - Electrician from CVDF was working in a dusty area when worker experienced left eye irritation. <b>(22591)</b></p> <p><b>01/11</b> - Maintenance Craft worker was changing an implement on a backhoe while at 209E when the worker felt a “pop” in the left shoulder. <b>(22604)</b></p> <p><b>01/16</b> - NCO from MASF in the 400 area was operating a pole tool when worker experienced a “pop” in the left hand. <b>(22606)</b></p> <p><b>01/18</b> - NCO fell and injured the right shoulder and sustained a contusion. <b>(22611)</b></p> <p><b>01/18</b> - NCO fell and landed on his buttocks causing an abrasion and lumbar pain. <b>(22610)</b></p> <p><b>01/18</b> - NCO was entering 105KW when he slipped on the door entry but did not fall. <b>(22608)</b></p> <p><b>01/30</b> - D&amp;D employee from 100K D4 was in the process of tarping an ERDF can. The worker was pushing down on a bungee cord when worker reported the right wrist “popped back”. <b>(22620)</b></p>
Near-Misses	0	0	N/A

## KEY ACCOMPLISHMENTS

Following review with Engineered Container Retrieval and Transport System (ECRTS) personnel and incorporation of comments, subcontractor AREVA submitted their final draft of the 90% Design of the K West Annex.

## MAJOR ISSUES

No major issues to report this month.

## 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	
STP-039: KOP Separations Process Qualification	Test the mechanical separations process in a relevant environment at MASF	●	↑	Pretreatment test equipment modified and shipped to 100K for staging
STP-042: KOP Material Drying in MCO	KOP MCOs will meet the proof of dryness after two drying cycles	●	↑	KOP Thermal analysis and Proof of Dryness analysis have been updated to document capability of drying MCOs with KOP material
STP-044: Increased Difficulty in Developing KOP Safety Basis	Technical issues or other nuclear safety issues could complicate the development of the authorization basis documents	●	↔	Technical safety basis will be developed by March 2012
STP-048: KOP Transportation Requirements	Develop F-SPA checklist as modeling results are available and brief RL Transportation Safety on approach/results.	●	↔	Develop F-SPA checklist as modeling results are available and brief RL Transportation Safety on approach/results.
STP-057: PWC IXM Change Out	Physical properties of the KOP material are not expected to result in change out of the PWC ion exchange media	●	↔	No issues at this time
STP-075A: ECRS Technology Maturation Testing	Continue technology testing at MASF to demonstrate TRL-6 maturity by March 2012 TRA.	●	↔	Full Integrated Testing (TRL-6) is complete.

## PROJECT BASELINE PERFORMANCE

### Current Month

### (\$M)

RL-0012 Spent Nuclear Fuel Stabilization and Disposition	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)
<b>Base</b>	6.1	5.9	5.8	(0.2)	-3.5	0.5	0.9

Numbers are rounded to the nearest \$0.1M

#### CM Schedule Performance (-\$0.2M/-3.5%)

The combined 100K and STP variance is within reporting thresholds.

#### CM Cost Performance (+\$0.5M/+0.9%)

The combined 100K and STP variance is within reporting thresholds.

## Contract-to-Date

### (\$M)

RL-0012 Spent Nuclear Fuel Stabilization and Disposition	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>Base</b>	274.4	274.8	275.6	0.4	0.2	(0.8)	-0.3	625.6	625.6	-0.0

Numbers are rounded to the nearest \$0.1M

#### CTD Schedule Performance (+\$0.4M/+0.2%)

The combined 100K and STP variance is within reporting thresholds.

#### CTD Cost Performance (-\$0.8M/-0.3%)

The combined 100K and STP variance is within reporting thresholds.

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

#### Estimate at Completion (EAC)

The current EAC change from December to January is within reporting thresholds.

## FUNDS VS. SPEND FORECAST

(\$M)

RL-0012 Spent Nuclear Fuel Stabilization and Disposition	FY2012		Spend Variance
	Projected Funding	Spending Forecast	
<b>Base</b>	87.5	83.6	3.9

Numbers are rounded to the nearest \$0.1M.

### Funds/Variance Analysis

The spend variance reflects targeted carryover into FY2013.

### Critical Path Schedule

Critical Path Analysis can be provided upon request.

### Baseline Change Requests

None currently identified.

## 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 PMB Revision 3, implemented in November 2011, and subsequent approved BCRs define CHPRC planning with respect to TPA milestones.

Number	Title	Type	Due Date	Actual Date	Forecast Date	Status/ Comment
DNFSB 120W	Complete Sludge Treatment	DNFSB	11/30/09			A pending Implementation Plan update will address this milestone.
M-016-171	Complete K Basin Sludge Treatment & Packaging Tech Eval Report	TPA	3/31/12			On Schedule.

## SELF-PERFORMED WORK

The Section H.20 clause entitled, Self-Performed Work, is addressed in the Monthly Report Overview.

## GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.

# Section C

## Solid Waste Stabilization and Disposition (RL-0013)



**L.T. Blackford**  
**Vice President and**  
**Project Manager for**  
**Waste and Fuels**  
**Management Project**

**January 2012**  
**CHPRC-2012-01, Rev. 0**  
**Contract DE-AC06-08RL14788**  
**Deliverable C.3.1.3.1 - 1**

## PROJECT SUMMARY

The Waste & Fuels Management Project (W&FMP) focused on delivering safe, compliant performance.

### American Recovery and Reinvestment Act (ARRA)

Project layup activities continued. Mixed Low-Level Waste (M/LLW) completed submittal of the 2011 Baseline Data Disposition report to the U.S. Department of Energy–Headquarters. Closed the American Recovery and Reinvestment Act funded contracts associated with M-91-43 and 435.1 legacy M/LLW.

T Plant shipped one shipment of 20 Puck drums to Environmental Restoration Disposal Facility (ERDF).

### Base

The W&FMP continued maintaining facilities in a safe and compliant condition. Waste Receiving and Processing Facility (WRAP) completed 13 Technical Safety Requirements surveillances. T Plant completed the annual container and Dose to Curie (DE-Ci) inventory, waste container surveillances, Specific Administrative Control (SAC) surveillances and chemical inventory surveillances with no issues. Central Waste Complex (CWC)/Low Level Burial Ground (LLBG) and Mixed Waste Trench (MWT) shipped 65 TRU-Project dropout LLW waste packages from the CWC to Perma-Fix Northwest (PFNW) for final disposition. CWC also received 36 Standard Waste Boxes (SWB), 30 drums, and one IP-2 (209E Slab Tank) of transuranic waste, and four shipments of M/LLW into the Mixed Waste Disposal Units (total of 20 waste packages). Liquid Effluent Facilities (LEF) received two tankers (calendar year [CY] 8k gallons). 200A Treated Effluent Disposal Facility (TEDF) discharged 1 Million gallons (CY 1M). At Liquid Effluent Retention Facility (LERF) Basin 44 received Environmental Restoration Disposal Facility (ERDF) leachate (323k gallons) (CY 323k). Canister Storage Building (CSB) completed annual cask receiving crane maintenance and motor replacement on exhaust fan 001. The Cold Vacuum Drying Facility declared a Potential Inadequacy in the Safety Analysis (PISA) on January 23, 2012 related to multi-canister overpack (MCO) proof of dryness testing. Waste Encapsulation and Storage Facility (WESF) completed an annual 294B domestic backflow preventative maintenance, radioactive material area inspection (no findings) and a pool cell transfer port operability testing. In addition, WRAP completed the Acceptance Testing Plan (ATP) for the High Energy Real-Time Radiography (HERTR) in support of the Washington Closure Hanford (WCH) 618-10 burial ground.

## EMS Objectives and Target Status

Objective #	Objective	Target	Due Date	Status
12-EMS-WFM-OB1-T1	Reduce the generation and/or toxicity of waste at the source by using biological spill treatment.	Evaluate biological spill treatment/cleanup products available to address petroleum based spills and identify opportunities for use within the W&FMP based on FY12 work scope.	9/30/2012	On schedule

## TARGET ZERO PERFORMANCE

	Current Month	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	6	N/A
Total Recordable Injuries	0	11	N/A
First Aid Cases	3	81	<ul style="list-style-type: none"> <li>• 1/5/2012 - Employee performing source checks on bottom three detectors. Body part affected: Knee. (22597)</li> <li>• 1/18/2012 - Employee walking up steps slipped and fell. Body part affected: Shoulder. (22607)</li> <li>• 1/30/2012: - Employee touched live wire while performing calibration process. Body part affected: Hand. (22619)</li> </ul>
Near-Misses	0	1	N/A

## KEY ACCOMPLISHMENTS

### ARRA

#### 13.04 MLLW Treatment

- Closed out the ARRA funded contracts associated with M-91-43 and 435.1 legacy M/LLW.

#### 13.06 Lay-Up Activities

- The WRAP and the T Plant Transition Plans are undergoing revision during January with final approval in February.
- Completed 1 shipment of 20 Puck drums to ERDF.

### Base

#### 13.01 Project Management

- Continued Project Management support for high priority projects.
- Provided support to RL FY2014 budget formulation

#### 13.02 Capsule Storage & Disposition

- Completed annual 294B domestic backflow preventive maintenance.
- Completed annual radioactive material area inspection (no findings).
- Completed annual pool cell transfer port operability testing.
- Completed asbestos sampling of material in load lugger (no asbestos present).
- Completed operational “man-down” drill.
- Initiated verification of K3 East exhaust filter operation.

#### 13.03 Canister Storage Building (CSB)

- Completed annual cask receiving crane maintenance.
- Completed motor replacement on exhaust fan 001.
- Declared a PISA on January 23, 2012 related to MCO proof of dryness testing at the CVDF.

**13.07 WRAP**

- Maintained the facility in a safe and compliant condition
- Initiated activities to complete repack of last 10 containers at WRAP.
- Completed three TSR surveillances.
- Completed 21 scheduled PMs.
- Completed containment tent operations for the decontamination of the 2404WB floors.
- Secured the Transuranic Package Transporter (TRUPACT) Bridge Crane.
- Completed the ATP for the HERTR in support of WCH 618-10 project.

**13.08 T-Plant**

- Maintained the facility in a safe and compliant condition.
- Completed two TSR scheduled surveillances.
- Completed 21 scheduled PMs.
- Completed 426 Rad Ops surveillances.
- Completed 92 daily surveillances.
- Completed 10 weekly surveillances.
- Completed five monthly surveillances.

**13.09 Central Waste Complex (CWC)**

- Received four shipments of TRU waste totaling 11 SWBs and 32 drums.
- Shipped 1 shipment of LLW totaling 8 waste packages to PFNW.

**13.11 Liquid Effluent Facilities (LEF)**

- Received two tankers (calendar year [CY] 8k gallons)
- Treated effluent to State-Approved Land Disposal Site: 0 gallons (CY 1M)
- 200A TEDF discharged 1M gallons (CY 1M)
- Received ERDF leachate (323k gallons) at LERF Basin 44 (CY 323k )
- Continued operating the 310 Retention Transfer System (RTS): CY 1 batch; 39k gallons
- Maintenance activities:
  - Repaired second reverse osmosis pump (60F-P-2B)
  - Replaced Thin Film Dryer (TFD) distillate pump (60J-P-3)
  - Completed annual TFD boiler calibrations
  - Replaced influent conductivity meter with higher range capacity
  - Replaced vacuum relief valve at UP1-1 manhole
  - Replaced pressure indicator on evaporator (PI-60I-314)
  - Completed annual Department of Transportation running gear inspection on Tankers HO-64-3558/HO-64-4275
  - Removed and inspected spray nozzles on TFD heat exchanger for plugging (no issues identified)

**13.12 Integrated Disposal Facility**

- Completed all required inspections at the Integrated Disposal Facility

**13.16 Off Site Spent Nuclear Fuel Disposition**

- Maintained coordination for offsite Spent Nuclear Fuel Disposition

- Supported RL initial request to analyze potential Hanford Site security reductions

**13.21 Mixed Waste Disposal Trenches**

- Maintained the facility in a safe and compliant condition.
- Completed 15 scheduled PMs.

**MAJOR ISSUES**

No major issues to report this month.

**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	
WSD-018: CSB Major Equipment Failure	Risk accepted without mitigation. Continue to maintain equipment in accordance with baseline PM/CM schedule.	●	↔	Risk is very unlikely.
WSD-019: Commercial Capability	MLLW treatment capacity/capability does not meet Hanford needs or treatment does not occur as scheduled.	●	↓	Current projected treatment volumes are unlikely to support long term viability of commercial capabilities.
WSD-025: Unexpected Waste Volumes/Characteristics	Work with generators to update forecasting data monthly/quarterly/semi-annually.	●	↑	Waste volumes to ERDF significantly lower due to suspension of cleanup activities.
WSD-043: Orphan Wastes	Obtain regulatory relief for "No Path Forward" wastes.	●	↔	Issued "No Path Forward" waste and German log alternatives analysis. Annual update of M-91 PMP documented current status.
WSD-097: Major Equipment Failure at WRAP WSD-079: Major Equipment Failure - T Plant	Risk accepted without mitigation. Continue to maintain equipment in accordance with baseline PM/CM schedule.	●	↔	Risks are unlikely.
WSD-125: Three-Year Pause in Waste Processing Results in Unexpected Container Integrity Issues	Perform weekly waste container surveillances and overpack as required. Perform overpack or covering as required to mitigate condition. Schedule repackaging at appropriate facility.	●	↓	Legacy containers in expansion area are requiring additional resources. The Long-Term Box Storage is not in the contract Statement of Work. Evaluating process for 110-gallon drums at Permafex Northwest.
<b>New Risk: Results of External Audits/Assessments Impact Operations</b>	Conduct operations in accordance with current approved procedures and processes. CHPRC and RL conduct routine assessments to assess conduct of operations and maintenance activities. Work with oversight groups to understand regulatory basis for interpretations.	●	↓	Impacts to DNFSB Assessment not fully defined. CHPRC & RL working issues.

## PROJECT BASELINE PERFORMANCE

### Current Month

(\$M)

WBS 013/RL-0013 Waste and Fuels Management Project	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)
MLLW Treatment	0.0	0.0	0.0	0.0	0.0%	(0.0)	0.0%
TRU Waste	(1.4)	(1.3)	0.1	0.1	-4.2%	(1.5)	111%
TRU Wst Facil Trans MinSafe	<u>1.5</u>	<u>1.5</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0%</u>	<u>1.5</u>	<u>100%</u>
<b>ARRA Total</b>	<b>0.1</b>	<b>0.2</b>	<b>0.1</b>	<b>0.1</b>	<b>47.6%</b>	<b>0.0</b>	<b>17.2%</b>
Base	<u>5.8</u>	<u>5.7</u>	<u>5.2</u>	<u>(0.1)</u>	<u>-1.4%</u>	<u>0.5</u>	<u>9.6%</u>
<b>Total</b>	<b>5.9</b>	<b>5.9</b>	<b>5.3</b>	<b>(0.0)</b>	<b>-0.4%</b>	<b>0.6</b>	<b>9.9%</b>

Numbers are rounded to the nearest \$0.1M

#### ARRA

##### Current Month (CM) Schedule Performance (\$0.1M/+47.6%)

RL-0013 MLLW Treatment / RL-0013 TRU Waste/ RL-0013 TRU Waste Facility Transition to Min Safe  
– The positive schedule variance is within threshold.

##### CM Cost Performance (+\$0.0M/+17.2%)

RL-0013 MLLW Treatment / RL-0013 TRU Waste/ RL-0013 TRU Waste Facility Transition to Min Safe  
– The favorable cost variance is within threshold. However, ARRA layup activities were replanned to a newly established DOE requested/authorized ARRA subproject. Costs associated with replanned scope will be corrected and/or transferred to the new subproject in the next reporting period (February 2012).

#### Base

##### CM Schedule Performance (-\$0.1M/-1.4%)

The unfavorable current period schedule variance is within threshold.

##### CM Cost Performance (+\$0.5M/+9.6%)

The positive cost variance is primarily due to the correction of a MLLW charge made in the prior period (December accrual was incorrectly made for the remaining value of the contract and corrected in this reporting period). In addition, staff utilization was below plan due to holidays and weather impacts. Partially offset by resources being transferred from ARRA to Base. Because ARRA funding is exhausted, remaining work required to reach and maintain planned facility conditions will be executed and costed under Base funding.

## Contract-to-Date (CTD)

### (\$M)

WBS 013/RL-0013 Waste and Fuels Management Project	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)
MLLW Treatment	47.7	47.7	42.7	(0.0)	-0.0%	-5.0	10.5%
TRU Waste	255.3	255.3	255.0	(0.0)	-0.0%	0.3	0.1%
TRU Wst Facil Tran MinSafe	<u>1.5</u>	<u>1.5</u>	<u>0.0</u>	<u>0.0</u>	0.0%	<u>1.5</u>	100.0%
<b>ARRA Total</b>	<b>304.5</b>	<b>304.5</b>	<b>297.7</b>	<b>(0.0)</b>	<b>-0.0%</b>	<b>6.8</b>	<b>2.2%</b>
<b>Base</b>	<u>338.5</u>	<u>337.6</u>	<u>343.9</u>	<u>(0.9)</u>	-0.3%	<u>(6.3)</u>	-1.9%
<b>Total</b>	<b>643.0</b>	<b>642.1</b>	<b>641.6</b>	<b>(0.9)</b>	<b>-0.1%</b>	<b>0.5</b>	<b>0.1%</b>

Numbers are rounded to the nearest \$0.1M

#### ARRA

##### CTD Schedule Performance (-\$0.0M/-0.0%)

RL-0013 MLLW Treatment – The negative schedule variance is within threshold.

##### CTD Cost Performance (+\$6.8M/+2.2%)

The positive cost variance due to efficiencies in TRU Characterization and Shipping, TRU Repackaging, T Plant and WRAP, Mixed Low Level Waste (MLLW) efficiencies created by treating waste at Energy Solutions (ES) - Clive rather than planned treatment at PFNW due to a waiver received from the Department of Energy (DOE), Environmental Restoration Disposal Facility (ERDF) negotiated rate reduction with vendor for waste containers, partially offset by increased materials and labor costs in support of the Trench Face Retrieval and Characterization System (TFRCS), and increased resources for TRU Retrieval deteriorated waste containers, increased allocations for additional office space and other assessments as a result of allocations to Recovery Act expenditures.

#### Base

##### CTD Schedule Performance (-\$0.9M/-0.3%)

Within Threshold - The negative variance is due to Canister Storage Building (CSB), WESF, and ETF engineering activities delayed due to resource availability (assigned to higher priority activities).

##### CTD Cost Performance (-\$6.3M/-1.9%)

The unfavorable CTD cost variance is the result of FY 2009/2010 MSA assessments above plan, TRU Retrieval additional resources to deal with FY2009 deteriorated containers and drum wedge issue, FY2009 WRAP facility increased levels of corrective and preventive maintenance activities as a result of repack operations, increased labor and subcontractors support for Transportation and Packaging; partially offset by efficiencies in Liquid Effluent Facility (LEF), MLLW, TRU Disposition, TRU Repackaging, Interim Storage Area upgrades, Capsule Storage and Disposition, MWDT and lower G&A allocations.

**Contract Performance Report Formats are provided in Appendix A and Appendix A-1.  
Estimate at Completion (EAC)**

The BAC and EAC include FY2009 through FY2018.

The changes in EAC from December to January, for both ARRA and Base, are within reporting thresholds.

**FUNDS vs. SPEND FORECAST  
(\$M)**

WBS 013/RL-0013 Waste and Fuels Management Project	FY2012		
	Projected Funding	Spending Forecast	Spend Variance
<b>ARRA</b>	4.6	4.6	0.0
<b>Base</b>	88.3	84.6	3.7
<b>Total RL-0013</b>	92.9	89.2	3.7

Numbers are rounded to the nearest \$0.1M.

**Funds/Variance Analysis**

Funding includes FY2011 carryover and FY2012 new Budget Authority.

**Critical Path Schedule**

Critical path analysis can be provided upon request.

**Baseline Change Requests**

BCR-R13-12-001R0 – W&FM ARRA Buy-Back

BCRA-PRC-12-005R0 – CEIS and P6 Reconciliation of “Closed” activities to Match Cobra

BCRA-PRC-12-007R0 – January 2012 PMB BCR Log Reconciliation to Cobra

## 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 PMB Revision 3, implemented in November 2011, and subsequent approved BCRs define CHPRC planning with respect to TPA milestones.

Number	Title	Type	Due Date	Actual Date	Forecast Date	Status/ Comment
<b>M-091-40U-T01</b>	Retrieve a Minimum of 250 Cubic Meters CH RSW in FY 2012	TPA	9/30/12			Activity currently not funded
<b>M-091-46B-T01</b>	Certify 300 Cubic Meters of Small Container CH TRUM Waste	TPA	9/30/12			Activity currently not funded
<b>C-026-07G</b>	Tritium Treatment Technology Developments to Ecology & EPA	TPA (commitment)	3/31/12		3/31/12	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)

Contract Section	Project	GFS/I	Status
<b>CONTRACT</b>			
J.12/C.2.3.6	PBS-13, Transuranic Waste Certification	WIPP provides shipping resources and manages the schedule for transportation of these containers to WIPP. The schedule is variable and the number of shipments is controlled by DOE-HQ on a complex-wide priority. Cost for shipment of TRU waste offsite is borne by the CBFO.	Ongoing (pending restart of WIPP Shipments)

# Section D

## Soil and Groundwater Remediation Project (RL-0030)



**R.S. Popielarczyk**  
Vice President and  
Project Manager for  
Soil and Groundwater  
Remediation Project

January 2012  
CHPRC-2012-01, Rev. 0  
Contract DE-AC06-08RL14788  
Deliverable C.3.1.3.1 - 1

**M. N. Jaraysi**  
Vice President for  
Environmental Program  
and Strategic Planning

**K. A. Dorr**  
Vice President for  
Engineering, Projects  
and Construction

## PROJECT SUMMARY

Work included pump-and-treat operations, Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) remedial process documentation for the River Corridor and Central Plateau. Sampling and groundwater treatment completed in January includes the following:

- Collected 1,128 samples, resulting in 2,629 analyses.
- 16.5M gallons groundwater treated by ZP-1 treatment facility
- 20.2M gallons groundwater treated by KX treatment facility
- 8.9M gallons groundwater treated by KW treatment facility
- 7.1M gallons groundwater treated by KR-4 treatment facility
- 26.2M gallons groundwater treated by HX treatment facility
- 21.7M gallons groundwater treated by DX treatment facility
- 7M gallon groundwater treated by TX/TY well pumps
- 101.3M gallons of groundwater treated total

## EMS Objectives and Target Status

Objective#	Objective	Target	Due Date	Status
12-EMS-SGWR-OB1-T1	Reduce the release of toxic and/or hazardous material	Treat 1 billion gallons of groundwater from all Pump & Treat systems during FY2012. This assumes that existing P&T facilities continue to operate at or near current production /through put levels.	9/30/12	On Schedule
		Review and tally total number of gallons treated	Monthly	404M Gallons through 1/31/12

## TARGET ZERO PERFORMANCE

	CM Quantity	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	0	N/A
Total Recordable Injuries	0	10	N/A
First Aid Cases	6	89	<p><b>1/10</b> – Employee slipped on a patch of ice exiting a government truck. 22600 (EPC)</p> <p><b>1/12</b> – Wrench slipped off of a bolt and struck employee in the mouth. 22603 (EPC)</p> <p><b>1/19</b> – Employee reported pain in elbow as a result of repetitive tasks. 22629 (SGRP)</p> <p><b>1/24</b> – While employee was working on a hat channel a shard of steel flew into their face and throat. 22613 (EPC)</p> <p><b>1/24</b> – Employee slipped and fell on ice. 22615 (SGRP)</p> <p><b>1/25</b> – Employee slipped and fell on ice, injuring right knee and scraping both palms of his hands. 22614 (SGRP)</p>
Near-Misses	1	3	<p><b>1/31</b> - During routine well drilling activities at a 200-ZP-1 well site, a section of drill casing tipped over as it was being removed from the borehole. The casing caught on a sling attached to the drill rig and remained suspended at a steep angle. There were no injuries and no equipment was damaged.</p>

## KEY ACCOMPLISHMENTS

### Base - RL-0030.C1 –GW Remedy Implementation

#### Engineering Projects and Construction (EPC) Projects in Support of Soil and Groundwater Remediation Project (S&GRP) - Base

- 200WP&T: Continued Acceptance Test Procedures. Inoculated the Fluidized Bed Reactor (FBR) with heterotrophic facultative bacteria to start the biological colony. Continued construction on the Sludge Stabilization System (Lime addition).

### Base - RL-0030.01 RL 30 Operations

#### EPC Projects in Support of S&GRP - Base

- 100-HX Groundwater Treatment Facility - Continued working project closeout activities.

#### Strategic Integration

- In coordination with RL, ORP and prime contractors, developed material for the Hanford Senior Executive Council action item on “ARRA Lessons Learned.”

#### Technical Integration

- DOE/RL-2011-50 Rev. 0 “Regulatory Basis and Implementation of a Graded Approach to Evaluation of Groundwater Protection” (Graded Approach document) was completed and signed

by the Tri-Parties.

- Revision 1 of the Performance Assessments and Composite Analysis annual summary reports (DOE/RL-2011-108, -109, -110) are complete, are being cleared, and copies will be provided to DOE-RL for distribution.

#### **Systematic Planning Integration**

- Completed an evaluation of the 100-K Proposed Plan against EPA Guidance and implemented revisions.
- Completed the 200-UP-1 FS cost estimate.

#### **Environmental Databases**

- Implemented new database application that streamlines work flow and reduces processing time for analytical data reviews.
- Issued listing of newly identified Solid Waste Management Units and other areas of concern (all new entries in Waste Information Data System) for calendar year 2011 meeting Hanford RCRA Permit Condition II.Y.3.b.

#### **Central Plateau**

##### **200-BP-5 Operable Unit – Base**

- Drilling of the extraction well and monitoring well was completed. Well completion activities are underway and are expected to be complete by mid-February 2012. All seven crossings are complete and all above-ground pipeline has been placed (~8500 ft total). Remaining pipeline work will be completed pending well completions.

##### **200-UP-1 Operable Unit – Base**

- Construction and ATP of the WMA S-SX extraction system was completed, except for final pipeline connects to the 200 West Treatment Facility and the well racks, which are scheduled to be made by March 2012.

##### **200-ZP-1 Operable Unit - Base**

The interim P&T system is currently operating at 377 gpm.

## **MAJOR ISSUES**

**Issue** - The number of comments on CERCLA document comments and the need for technical decisions is impacting contractual delivery due dates and decreasing float on major TPA Milestone M-015-005 “DOE shall complete the RI/FS process through the submittal of a Proposed Plan for all 100 and 300 Area operable units”.

#### **Corrective Action** -

- Development of detailed Field Execution Schedules
- Engagement of AMCP Management for technical decisions
- Identified additional resources necessary to meet schedule
- Partnering sessions between RL and CHPRC

**Issue** - The 200 West Groundwater Treatment Facility Project has experienced an increase in several work activities due to realization of risks previously established, resulting in an increased ETC and therefore an increased VAC. The changes in work activities have cost and schedule impacts beyond the cost of the mitigating action itself and in some cases compounding effects (e.g., changes in work activities caused delay to construction completion, which in turn results in weather issues during testing that were

not previously expected). Another common cost impact is retaining staff beyond the project's ramp down/closeout plan to manage work that was delayed. The impacts occur in the following areas:

- Equipment Impacts due to Weather
- Well capacity
- Fiber Optic Cable in place of wireless
- Touch-up Painting/Trade Damage
- Sludge Stabilization System (Lime)
- Programming Support/ Integration of Package Software Systems
- Tank Repairs
- Piping Supports/Repairs
- Procedure/As-Building Development
- MBR Recirculation Loop & Chemical Skid Modifications

**Corrective Action** - The Project will work with SGW Ops to mitigate the impact of realized risks by:

- Develop BCRs by type of change to the project and implement into PMB utilizing Management Reserve (MR).
- Re-evaluate cost savings efforts across the project
- Evaluate viability of Credits and Back Charges against subcontractors who own some of the responsibilities.
- Evaluate need for potential deferral of SGW FY2012 scope

## 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	
<b>SGW-002: RL or Regulator Personnel Changes</b>	Work with RL to document agreements and to obtain appropriate formal approvals (RL and regulators) for the agreements that could result in a schedule delay of greater than 3 months or a cost impact of more than \$500K in the event the agreements were to change.	●	↓	Currently experiencing this issue with turnover of RL and Regulator staff. Training was conducted with S&GRP management team to reinforce documentation of meetings and agreements to minimize this risk. Training was conducted with S&GRP management team to reinforce documentation of meetings and agreements to minimize this risk.
<b>SGW-062: WSCF Availability or Performance</b>	Realized risk in the areas of WSCF lab analysis. A future BCR will drawdown Management Reserve to increase BCWS in the affected areas of the PMB Baseline.	●	↔	Due to the issues at WSCF thousands of samples had to be sent to offsite labs for analysis. Due to the requirements of repackaging and shipping these samples offsite additional costs have been incurred. Costs have increased due to the overtime required to recover schedule.
<b>SGW-080: 100-BC-5 Pump and Treat Required</b>	This risk is accepted as written and will be monitored throughout work execution.	●	↔	EPA concurred that need for pump and treat will be evaluated as part of RI/FS process; existing sample data and the draft feasibility study indicate a treatment system may be required as part of a final action under the future Record of Decision.
<b>SGW-081: 100-FR-3 Pump and Treat Required</b>	This risk is accepted as written and will be monitored throughout work execution.	●	↔	EPA concurred that need for pump and treat will be evaluated as part of RI/FS process but based upon current sample data and the draft feasibility study, the need for treatment is not considered likely.
SGW-008A: Significant Regulatory Comments - 100-KR-4	Routine meetings are already held with the regulators and RL during document development. No additional mitigation is feasible. Risk is accepted.	●	↓	EPA has policy related comments that are being evaluated and considered for impacts to not only K, but other related projects. Example include the addition of irrigation within the unrestricted land use which has overarching impacts on other projects.
SGW-008B: Regulatory Document Comments for 100-HR-3	Routine meetings are being held with regulators during document development; no additional mitigation is feasible.	●	↔	DOE completed their review and set expectations that we also address resolutions from the 100-K EPA comments.
SGW-008D: Regulatory Document Comments - 100-NR-2	Coordinating with RL to conduct routine meetings with Ecology during document development. No additional mitigation is feasible at this time. Risk is accepted with monitoring.	●	↔	No issues are expected this month.
SGW-008J: Regulatory Document Comments - 300-FF-5	Routine meetings were held with the regulators and RL during document development. Additional meetings are being held during document review. No additional mitigation is feasible. Risk is accepted.	●	↔	Preliminary EPA comments do not indicate significant changes to the document. Final EPA and Ecology comments are expected in February. No change in risk until final comments are received.
SGW-031A: P&T Design Changes - 200 West	Identify required design changes early in the process to minimize schedule impact. Work closely with the client and regulators to minimize impact to schedule. Incorporate design changes quickly to minimize cost impacts and avoid rework. Supplement Eng/QA/QC support and contracts for special inspection so as to finalize engineering requirements.	●	↔	The baseline has incorporated the realized risk from the final issuance of the "issued for construction" drawings. Construction is complete and project is entering acceptance testing phase. As these tests complete, risk associated with design will diminish.

### RISK MANAGEMENT STATUS- Cont.

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	
SGW-083: River Corridor Characterization	Additional characterization wells are required to support the development of an RI/FS and Proposed Plan for the River Corridor groundwater operable units or to investigate findings from WCH data gathering.	●	↔	WCH is gathering data in and along the river. This data could result in the need to install additional characterization wells in the River Corridor operable units. Information and conclusions from WCH risk assessments is raising questions regarding the Riparian Zone and Columbia River component human health risk assessment.
SGW-086: 200 W P&T Startup	Operations and engineering input has been obtained on the operating system controls to standardize the controls to those used for other pump and treat systems to the extent possible. Corporate design team and technologists experienced in bioremediation have been deployed to support the design effort and system startup. Resident engineer from corporate will also be supplied to support startup and testing of the new process equipment. Initiate preparation of CAT/ATP/OTP early. Early integration with contractors for incremental testing (e.g. isolate transfer buildings for a more efficient CAT/ATP). Notify vendors of necessary reconfigurations as early as possible so as to minimize schedule and cost impact.	●	↔	Integration of FBR/MBR during startup is a unique process and challenges are current being experienced. Design changes are required to cease the movement of carbon media downstream.
SGW-092: 200 West P&T Operating Requirements	As preventative maintenance packages proceed through the development process, staffing levels will be evaluated to ensure continuous P&T operation.	●	↔	No issues at this time. As preventative maintenance packages proceed through the development process, staffing levels will be evaluated to ensure continuous P&T operation.
SGW-098: 200-W P&T - Schedule Impacts Due to Scope Increases	As these issues are identified, they will be listed with other emerging issues. At this point, further mitigation tactics will be determined.	●	↔	OT and additional shifts have been utilized in certain areas to ensure schedule requirements are met to the extent possible.
SGW-119: Integration of Lime system Vendor Package Equipment into Facility Construction	Send representatives to fabrication facilities to inspect processes. PRC is actively managing subcontractors by holding schedule accountability meetings twice per week. Project will retrofit as required to facilitate progress.	●	↔	Contractor continues to work overtime to perform rework on odor control, (e.g. chemical system skids). Profibus connection are missing and requires manual startup and will cause delay to automatic startup feature.
SGW-120: 200 West Safety Considerations	CHPRC oversight including site safety, IH, and construction management will work with the contractor on a daily basis to reduce this risk potential.	●	↔	Successful completion of the project is contingent upon ongoing implementation of safety and health practices. Project is proceeding with required training for CHPRC staff and its subcontractors, including those that have not previously been trained on the Hanford Reservation.
SGW-121: 200 West P&T Work - Software Development & Verification/Validation	Monitor progress of software development and apply additional resources as necessary. Visit vendors or coordinate vendors' visits to the site as necessary to facilitate integration testing.	●	↔	Primary difficulty is experienced while integrating the vendors' package system controls (e.g. FBR, MBR) with CHPRC's SCADA system. Probability of occurrence remains until system is fully operational.
SGW-124: 200 W P&T Long-Lead Equipment Fabrication to Site Standards & Requirements	Facilitate and encourage vendors to provide guidance and support when dealing with equipment.	●	↔	Project completed inspection at vendor facilities and via submittals to ensure compliance with standards. Lack of coordination between contractor and vendor has produced a requirement for rework in the field. Project is managing the situation, including field oversight, BTR, and engineering support.
SGW-131: 200 W P&T - Readiness Review and Turnover	Project strategy has been to include design authority resources early in development of processes/design. Once issues are identified, expedite design changes to support startup.	●	↔	As found conditions have affected ATP and subsequent turnover of facility. (E.g. automation of actuator adjustments to provide back pulse of effluent water to MBR has caused rework and delays. Stepped approach to acceptance testing has created this issue as the original plan only required manual adjustments.

## PROJECT BASELINE PERFORMANCE

### Current Month

#### (\$M)

WBS 030/RL-0030 Soil and Groundwater Remediation	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)
Base RL-0030.C1 GW Remedy Implement	2.3	1.9	2.7	(0.4)	-18.6	(0.9)	-47.2
ARRA RL-0030.R1.1 Cleanup Operations	0.0	0.0	0.1	0.0	0.0	(0.1)	0.0
ARRA RL-0030.R1.2 Well Drilling Operations	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	0.0	<u>(0.0)</u>	0.0
<b>Subtotal RL-0030.C</b>	<b>2.3</b>	<b>1.9</b>	<b>2.9</b>	<b>(0.4)</b>	<b>-18.6</b>	<b>(1.0)</b>	<b>-47.2</b>
Base RL-0030.O1 RL 30 (Operations)	5.9	5.9	5.8	0.0	-0.1	0.1	2.3
ARRA RL-0030.R1.3 Support Operations	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	0.0	<u>0.0</u>	0.0
<b>Total</b>	<b>8.2</b>	<b>7.8</b>	<b>8.7</b>	<b>(0.4)</b>	<b>-5.2</b>	<b>(0.9)</b>	<b>-11.1</b>

Numbers are rounded to the nearest \$0.1M.

#### CM Schedule Performance

Current month schedule variances that exceed thresholds are as follows:

#### **RL-0030.C (-\$0.4M/-18.6%)**

##### **Base RL-0030.C1 GW Remedy Implementation (-\$0.4M)**

##### 200 ZP-1 Operable Unit (-\$0.4M)

Fiberglass repairs and inclement weather have caused schedule delay to acceptance testing.

##### **ARRA RL-0030.R1.1 Cleanup Operations (\$0.0M)**

There is no current month schedule variance.

##### **ARRA RL-0030.R1.2 Well Drilling Operations (\$0.0M)**

There is no current month schedule variance.

##### **RL-0030.O1**

##### **Base RL-0030.O1 RL 30 (Operations) (\$0.0M)**

There is no current month schedule variance.

##### **RL-0030.R1.3**

##### **ARRA RL-0030.R1.3 Support Operations (\$0.0M)**

There is no current month schedule variance.

#### CM Cost Performance

Current month schedule variances that exceed thresholds are as follows:

#### **RL-0030.C (\$-1.0M/-47.2%)**

##### **Base RL-0030.C1 GW Remedy Implementation (-\$0.9M)**

##### 200 ZP-1 Operable Unit (-\$0.9M)

Sludge Stabilization System installation is costing more than budgeted. There have been significant delays in long lead equipment, field installation issues, design changes and schedule extensions.

##### **ARRA RL-0030.R1.1 Cleanup Operations (-\$0.1M)**

All current month variances are within reporting thresholds.

**ARRA RL-0030.R1.2 Well Drilling Operations (-\$0.0M)**

All current month variances are within reporting thresholds.

**RL-0030.O1****Base RL-0030.O1 RL 30 (Operations) (+\$0.1M/+2.3%)**

All variances are within reporting thresholds except as listed below.

**GW Monitoring and Performance Assessments (-\$0.7M)**

As a result of the work stoppage at WSCF earlier this fiscal year, laboratory sample analyses were sent to off-site labs. Invoices for the off-site work have been slow in being submitted. The off-site labs are paid by P-card when the invoices are actually received. The delays in invoice submittal have resulted in cost underruns in prior months. This month a manual accrual was made for earlier months, causing a current period overrun. The overall impact of the WSCF work stoppage is being addressed as part of a BCR that will address the project risk that was realized when WSCF was closed for lab analysis.

**200-ZP-1 Operable Unit (+\$0.3M)**

The current month positive cost variance is primarily as a result of continued efficiencies in operation of the current 200-ZP-1 Pump & Treat facility and less resources are also being used than was originally planned for the new 200 West Pump & Treat facility operations ramp-up.

**RL-0030.R1.3****ARRA RL-0030.R1.3 Support Operations (\$0.0M)**

All current month variances are within reporting thresholds.

### Contract-to-Date (\$M)

WBS 030/ RL-0030 Soil and Groundwater Remediation	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)
Base RL-0030.C1 GW Remedy Implement	55.2	53.2	61.5	(2.0)	-3.6	(8.3)	-15.6	60.4	76.1	(15.7)
ARRA RL-0030.R1.1 Cleanup Operations	175.0	175.0	174.7	0.0	0.0	0.3	0.2	175.0	175.0	0.0
ARRA RL-0030.R1.2 Well Drilling Operations	<u>40.7</u>	<u>40.7</u>	<u>38.4</u>	<u>0.0</u>	0.0	<u>2.4</u>	5.8	<u>40.7</u>	<u>38.4</u>	<u>2.4</u>
<b>Subtotal RL-0030.C</b>	<b>271.0</b>	<b>269.0</b>	<b>274.6</b>	<b>(2.0)</b>	<b>-0.7</b>	<b>(5.6)</b>	<b>-2.1</b>	<b>276.1</b>	<b>289.5</b>	<b>(13.3)</b>
Base RL-0030.O1 RL 30 (Operations)	402.1	403.5	406.3	1.5	0.4	(2.7)	-0.7	1,170.8	1,172.3	(1.6)
ARRA RL-0030.R1.3 Support Operations	<u>51.4</u>	<u>51.4</u>	<u>50.9</u>	<u>0.0</u>	0.0	<u>0.5</u>	0.9	<u>51.4</u>	<u>50.9</u>	<u>0.5</u>
<b>Total</b>	<b><u>725.0</u></b>	<b><u>723.9</u></b>	<b><u>731.8</u></b>	<b><u>(0.5)</u></b>	<b>-0.1</b>	<b><u>(7.9)</u></b>	<b>-1.1</b>	<b><u>1,498.4</u></b>	<b><u>1,512.8</u></b>	<b><u>(14.4)</u></b>

Numbers are rounded to the nearest \$0.1M.

**CTD Schedule Performance**

The primary contributors to the schedule variances that exceed the reporting thresholds are discussed below:

**RL-0030.C (-\$2.0M/-0.7%)****Base RL-0030.C1 GW Remedy Implementation (-\$2.0M)**

200 ZP-1 Operable Unit (-\$2.0M)

Negative schedule variance is due to delays associated with Sludge Stabilization System subcontractor submittals, fair cost estimates, award of contracts and design changes as well as schedule delays discussed in the CM period for the Acceptance testing.

**ARRA RL-0030.R1.1 Cleanup Operations (\$0.0M)**

Scope is complete. There is no contract to date schedule variance.

**ARRA RL-0030.R1.2 Well Drilling Operations (\$0.0M)**

Scope is complete. There is no contract to date schedule variance.

**RL-0030.O1****Base RL-0030.O1 RL 30 (Operations) (+\$1.5M/+0.4%)**100 NR-2 Operable Unit (+\$2.3M)

Positive schedule variance has resulted from performing barrier expansion and sampling support that was planned in FY13 and performed in FY11 and FY12.

**RL-0030.R1.3****ARRA RL-0030.R1.3 Support Operations (\$0.0M)**

Scope is complete. There is no contract to date schedule variance.

**CTD Cost Performance**

The primary contributors to the cost variances that exceed the reporting thresholds are discussed below:

**RL-0030.C (-\$5.6/-2.1%)****Base RL-0030.C1 GW Remedy Implementation (-\$8.3M)**200-ZP-1 Operable Unit (-\$8.3M)

Major contributors to the variance are as follows:

- 200W P&T construction negative CV is associated with the CHPRC accrued costs for Construction Contractor's completed work scope defined in Change Notifications which are in the process of definitization. The costs are associated with the resources expended to complete the P&T facility by the end of FY2011 including added shifts, overtime, and logistics of working parallel activities
- Sludge Stabilization System installation is costing more than budgeted. There have been significant delays in long lead equipment, field installation issues, design changes and schedule extensions that have resulted in cost overruns
- Interim Operations reflects significant progress and cost underruns achieved to date for System Calibration
- Design of the permanent hookup of well EW-1 was lower than planned as only minor changes were needed to an existing design
- Cost for performing general operating and maintenance and minor modification activities have been lower than planned as the system has been running smoothly
- Cost for collecting depth-discrete groundwater and soil samples during the installation of new wells was less than planned
- 200W P&T Remedial Design/Remedial Action work plan and preliminary design activities were completed with fewer resources than planned

**ARRA RL-0030.R1.1 Cleanup Operations (+\$0.3M)**

Contract to Date variances are within threshold.

**ARRA RL-0030.R1.2 Well Drilling Operations (+\$2.4M)**Drilling (+\$2.4M)

The positive cost variance is due to efficiencies and savings obtained in drilling for 100-NR-2 and 200-BP-5 wells. Cost efficiencies have been obtained through an aggressive drilling schedule with savings in support personnel and faster drilling methods. Well decommissioning has also been completed for less than planned.

**RL-0030.O1****Base RL-0030.O1 RL 30 (Operations) (-\$2.7M/-0.7%)**Integration & Assessments (+\$4.0M)

Primary drivers for this positive cost variance are as follows:

- Less subcontractor support required for Central Plateau strategy development and integration
- Sample Management and Reporting has performed work scope more efficiently than planned
- Less cleanup document reviews were required than originally planned, requiring less contract support. Also efficiencies/savings were realized in establishing document templates, reviewing procedures, and software procurements.

Drilling (-\$2.6M)

Radiological contamination encountered on five NR-2 wells has caused additional supporting resource requirements (Health Physics Technicians). In order to recover schedule additional well drilling rigs were used, resulting in additional overruns to the project. Also, cost for remaining casing at the completion of the project was accrued as it cannot be released to the contractor.

100-NR-2 OU (+\$2.9M)

Barrier expansion and sampling scope, chemical treatment and maintenance scope, jet grouting pilot test work, RI/FS work plan and interim proposed plan reporting were performed more efficiently than planned leading to the positive cost variance.

100-HR-3 OU (-\$3.5M)

Primary contributors to the negative cost variance are as follows:

- 100 DX- Extensive effort required to design the pH adjustment system, cost overruns in completing the OU Remedial Process Optimization studies.
- 100 DX -Higher than expected cost to complete acceptance test plan and the operational test plan.
- Cost of realigning wells from DR-5 to 100 DX.
- 100 HX- Construction Material procurement costs were high and ATP resources to complete exceeded the plan.
- Additional time and resources being spent on internal CERCLA (RI/FS) document development that will be recovered in completed Draft A document.

200-ZP-1 OU (+\$0.9M)

Labor and subcontract cost for general operations and minor modifications support for 200-ZP-1 interim pump & treat facility is significantly less than planned. The system is running very smoothly with less adjustment than had been anticipated. Efficiencies are expected to continue with the interim facility operations until startup of the new 200 West Pump & Treat facility.

200 PW-1 OU (+\$1.1M)

Labor and subcontract cost for general operations and minor modifications support is less than planned. In addition, efficiencies and savings experienced with the Soil Vapor Extraction (SVE) system testing prior to March 2010 as well as the removal of two old SVE units.

#### Usage Based Services (-\$1.4M)

Increased cost associated with training due to the additional ARRA work in FY2010 and fleet services costs that occurred in FY2009 and FY2010. Overruns will continue to be funds-managed within the S&GRP project.

#### **RL-0030.R1.3**

#### **ARRA RL-0030.R1.3 Support Operations (+\$0.5M/+0.9%)**

#### Regulatory Decision and Closure Integration (+\$1.7M)

The positive cost variance is primarily due to completing work scope more efficiently than planned, primarily in the areas of multi-incremental sampling (using existing documentation and direct haul rather than staging), and borehole drilling and landfill characterization (competitive subcontracting of drilling support and efficient field support).

#### Ramp-up and Transition (-\$1.8M)

The negative cost variance was driven by increased Project Services Distribution to RL-0030.

#### **Estimate at Completion (EAC)**

ARRA – The projected variance at completion is +1.1%.

Base – The projected variance at completion of -1.4% is spread among several operational areas and is not considered significant.

ARRA – The EAC change from the previous month is within reporting thresholds.

Base – The EAC change from the previous month is within reporting thresholds.

## **FUNDS vs. SPEND FORECAST** ((\$M))

WBS 030/ RL-0030 Soil and Groundwater Remediation	FY2012		Spend Variance
	Projected Funding	Spending Forecast	
<b>ARRA</b>	0.6	0.6	0.0
<b>Base</b>	121.1	121.6	(0.5)

Numbers are rounded to the nearest \$0.1M.

#### **Funds/Variance Analysis**

Funding includes FY2011 carryover and FY2012 new Budget Authority.

#### **Critical Path Schedule**

Critical path analysis can be provided upon request.

**Baseline Change Requests**

BCRA-PRC-12-005R0 - RL30 Jan Admin BCR

**FY2012 Management Reserve (Funded):**

ARRA = \$0.0M

Base = \$2.8M

No MR was used in January, see Management Reserve table in the CHPRC Overview.

**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 PMB Revision 3, implemented in November 2011, and subsequent approved BCRs define CHPRC planning with respect to TPA milestones. The following table is a one year look ahead of commitments and TPA enforceable milestones and non-enforceable target due dates.

Number	Title	Type	Due Date	Actual Date	Forecast Date	Status/ Comment
M-015-70-T01	Submit Feasibility Study Report and Proposed Plan for 100-HR-1/2/3 and 100-DR-1/2 OUs	TPA	1/12/12		7/26/12	Working with DOE regarding a recovery schedule and path forward
M-015-68-T01	Submit CERCLA RI/FS Report and Proposed Plan for the 100-BC-1, 100-BC-2 and 100-BC-5 Operable Units for groundwater and soil.	TPA	3/15/12		3/15/12	Working with DOE regarding a recovery schedule and path forward
M-091-40L-033	Submit Oct-Dec 1 <sup>st</sup> Quarter Burial Ground Sample Results	TPA	3/15/12		3/15/12	On Schedule

Number	Title	Type	Due Date	Actual Date	Forecast Date	Status/ Comment
M-037-03	Submit revised closure plans to support TSD closure of two TSD Units: 216-B-3 Main Pond system and 216-S-10 Pond and Ditch	TPA	4/30/12		4/30/12	Currently DOE is working with Ecology to adjust milestone date
M-015-64-T01	Submit RI/FS Report and PP for 100-FR-1/2/3 and 100-IU-2/6	TPA	5/14/12		5/14/12	Working with DOE regarding a recovery schedule and path forward
M-024-58E	Initiate Discussions of Well Commitments.	TPA	6/1/12		6/1/12	On Schedule
M-091-40L-034	Submit January to March 2nd Quarter FY-12 Burial Ground Sample Results.	TPA	6/15/12		5/31/12	On Schedule
M-015-110D	Submit Technicium-99 Pilot-scale Treatment Study Test Report as an element of the Remedial Investigation for the 200-WA-1 OU to EPA.	TPA	6/30/12		6/30/12	On Schedule

Number	Title	Type	Due Date	Actual Date	Forecast Date	Status/ Comment
M-016-120	GW Treatment System <50 gpm for Tc-99 Plume at S/SX Tank Farm	TPA	8/31/12		7/12/12	On Schedule
M-024-63-T01	Conclude Discussions of Well Commitments Initiated Under M-024-058 and Add a New Interim M-024 Milestone Commitment for 12/31/15	TPA	8/1/12		8/1/12	On Schedule
M-091-40L-035	Submit April to June 3 <sup>rd</sup> Quarter FY-12 Burial Ground Sample Results	TPA	9/15/12		8/31/12	On Schedule
M-015-62-T01	Submit a FS/PP for 100-NR-2-1/2 Operable Unites Including groundwater and soil.	TPA	9/17/12		11/21/12	Currently DOE is working with Ecology to adjust milestone date
M-016-110-T01	Take Actions to Contain or Remediate Hexavalent Cr 100A GW Plumes	TPA	12/31/12		9/28/12	On Schedule

Number	Title	Type	Due Date	Actual Date	Forecast Date	Status/ Comment
M-024-63	DOE Shall Complete Construction of all Wells Listed	TPA	12/31/12		12/31/12	Fieldwork complete, milestone accepted when M-024-58E is complete
M-091-40L-036	PMM Submittal Jul-Sep 4th Qtr FY12 Burial Ground Sample Results	TPA	12/15/12		12/15/12	On Schedule
M-015-00D	Complete RI/FS Process by Submitting PP's for all 100 & 300 Area OUs	TPA	12/31/12		11/21/12	On Schedule

### SELF-PERFORMED WORK

The Section H. clause entitled "Self-Performed Work" is addressed in the Overview.

### GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.

# Section E

## Nuclear Facility D&D, Remainder of Hanford (RL-0040)



**K. L. Kehler**  
Vice President and  
Project Manager for  
D&D Project

**L.T. Blackford**  
Vice President and  
Project Manager for  
Waste and Fuels  
Management Project

January 2012  
CHPRC-2012-01, Rev. 0  
Contract DE-AC06-08RL14788  
Deliverable C.3.1.3.1 - 1

## PROJECT SUMMARY

**ARRA**

Completed 209E Critical Mass Laboratory site stabilization and continued demobilization activities.

**Base**

Completed 40 operational surveillances and 78 Rad Ops surveillances (including 5 Radiation Area Remedial Action (RARA) surveys).

### EMS Objectives and Target Status

Objective #	Objective	Target	Due Date	Status
12-EMS-D&D-OB1-T1	Reduce the generation and release of toxic and hazardous chemicals and material.	Improve the spill prevention program to reduce the likelihood of spills by using spill prevention techniques, procedures, and surveillances.	9/30/12	

### 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	0	45	N/A
Near-Misses	0	0	N/A

## KEY ACCOMPLISHMENTS

### ARRA – U Plant/Other Decontamination and Decommissioning (D&D)

- 209E Project
  - Continued the demolition of the 209E Critical Mass Laboratory (Completed site stabilization and continued demobilization activities).

### Base

- Completed 40 operational surveillances
- Completed 78 Rad Ops surveillances (including 5 Radiation Area Remedial Action [RARA] surveys).
- Completed 2 Technical Safety Requirement (TSR) surveillances
- Completed 14 of 15 scheduled preventive maintenance (PM) activities; 1 PM extended

## MAJOR ISSUES

**Issue:** The final end state of 6652L needs to be provided by RL so the planning on how to proceed can be started. This is specifically regarding the significant amount of asbestos left in the facility.

**Corrective Action:** Definition of end state/regulatory agreements is required in writing.

**Status:** Work is on hold until end state decision can be made, which also impacts the estimate and schedule for the project.

## 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	
D4-043: Unforeseen Facility Event Impacts Safety or Environment	Unexpected event, including contamination or chemical spread, fire, industrial accident, structural degradation, etc., requires immediate D&D of a small to medium sized facility or requires unplanned facility repairs. Current management of the shutdown facilities includes corrective maintenance based upon historic experience.			Continuing corrective maintenance activities. No unplanned events encountered.
WSR-047: Unforeseen Waste Site Event	Unforeseen waste site event, including contamination or chemical spread, fire, industrial accident, structural degradation, etc. requires immediate disposition or modification to a waste site. Routine surveillance and maintenance of the waste sites, including herbicide applications, is designed to protect workers and the environment.			Continuing waste site inspections & surveillances. No unplanned events encountered.
D4-036: Readiness Reviews Required	Probability of risk occurring is low; risk accepted without mitigation.			Due to change in procedure, probability is increasing. A change in criteria can require a change to process and potentially delay the project.
D4-042: Unexpected Site Conditions - D4	Conduct early facility walk downs and characterization activities to minimize the schedule impacts; interview "old timers" who worked in or around the facility and compare those events to historic records; conduct document searches to ensure all available documentation is reviewed early in the D4 planning process.			No issues at this time.
<b>WSR-006: Decision Document Approval Delays</b>	Work with RL and regulators to establish priorities and need dates.			No issues at this time.
<b>WSR-007: More Extensive Contamination Than Expected</b>	Cannot control extent of contamination; no mitigation.			No issues at this time.
<b>WSR-008: No Action Waste Sites</b>	Using L-8 table data; no mitigation.			No issues at this time.
<b>WSR-021: Remediation Subcontractor Performance</b>	This risk is accepted as written and will be monitored throughout work execution.			No issues at this time.
<b>WSR-028: Unexpected Liquid in Pipelines/Tanks</b>	Anticipate liquids in field work plans; include spill response plans in RD/RAWPs.			No issues at this time.
<b>D4-038: In-Place Demolition of Asbestos Siding</b>	The remediation of asbestos was conducted in accordance with industry accepted techniques and processes. Residual Risk has arisen due to potential asbestos that remains at the work site.			Recent site-wide notification regarding asbestos abatement areas identifies that as a potential concern for cost and schedule growth.
<b>PRC-010: Requirements Change</b>	The remediation of asbestos was conducted in accordance with industry accepted techniques and processes. CHPRC is working with DOE-RL and other site contractors to ensure the asbestos abatement and containment procedures are adequate.			Recent site-wide notification regarding asbestos abatement areas could identify additional requirements regarding asbestos abatement and remediation from previously demolished structures.
<b>PRC-014: Site-Wide Occurrence</b>	The remediation of asbestos was conducted in accordance with industry accepted techniques and processes. All Hanford site Contractors have been requested to assess asbestos abatement and facility conditions.			Recent site-wide notification regarding asbestos abatement areas identifies that as a potential concern for cost and schedule growth.

## PROJECT BASELINE PERFORMANCE

### Current Month

(\$M)

WBS 040/ RL-0040 Nuclear Facility D&D	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)
U Plant/Other	0.1	0.3	0.6	0.2	172.0	(0.3)	-87.3
Outer Zone	0.0	0.0	0.0	0.0	0	(0.0)	0
<b>ARRA Total</b>	<b>0.1</b>	<b>0.3</b>	<b>0.6</b>	<b>0.2</b>	<b>172.0</b>	<b>(0.3)</b>	<b>-87.3</b>
Base	0.8	0.8	0.9	0	0	(0.1)	-12.3
<b>Total</b>	<b>0.9</b>	<b>1.1</b>	<b>1.5</b>	<b>0.2</b>	<b>24.2</b>	<b>(0.4)</b>	<b>-35.6</b>

Numbers are rounded to the nearest \$0.1M

#### ARRA

##### CM Schedule Performance: (+\$0.2M/+172.0%)

ARRA RL-0040.R1.1 U Plant/Other D&D (+\$0.2M) Positive variance is within reporting threshold. However, positive variance due to schedule recovery for completion of 209E site stabilization and demobilization activities (scheduled in previous months, but behind due to issues with demolition of structures).

ARRA RL-0040.R1.2 (\$0.0M) Positive variance is within reporting threshold.

##### CM Cost Performance: (-\$0.3M/-87.3%)

ARRA RL-0040.R1.1 U Plant/Other D&D (-\$0.3M) Negative variance is within reporting threshold, but due to demobilization and surveys requiring increased resources and costs for MSA fleet services significantly greater than plan.

ARRA RL-0040.R1.2 (-\$0.0M) Negative variance is within reporting threshold.

#### Base

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

Positive variance is within reporting threshold.

##### CM Cost Performance: (-\$0.1M/-12.3%)

Positive variance is within reporting threshold.

## Contract-To-Date (\$M)

WBS 040/ RL-0040 Nuclear Facility D&D	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>U Plant/Other</b>	199.4	199.3	192.4	(0.1)	-0.0	6.9	3.4	199.4	192.6	6.8
<b>Outer Zone</b>	<u>84.3</u>	<u>84.3</u>	<u>71.7</u>	<u>0.0</u>	0.0	<u>12.6</u>	15.0	<u>87.3</u>	<u>75.1</u>	<u>12.2</u>
<b>ARRA Total</b>	<b>283.7</b>	<b>283.6</b>	<b>264.1</b>	<b>(0.1)</b>	<b>-0.0</b>	<b>19.5</b>	<b>6.9</b>	<b>286.7</b>	<b>267.7</b>	<b>19.0</b>
<b>Base</b>	<u>71.9</u>	<u>72.0</u>	<u>64.3</u>	<u>0.1</u>	<u>0.2</u>	<u>7.7</u>	<u>10.7</u>	<u>683.5</u>	<u>667.9</u>	<u>15.5</u>
<b>Total</b>	<b>355.5</b>	<b>355.6</b>	<b>328.4</b>	<b>0.0</b>	<b>0.0</b>	<b>27.2</b>	<b>7.7</b>	<b>970.1</b>	<b>934.6</b>	<b>35.5</b>

Numbers are rounded to the nearest \$0.1M

### ARRA

#### CTD Schedule Performance: (-\$0.1M/-0.0%)

ARRA RL-0040.R1.1 U Plant/Other D&D (-\$0.1M) Variance is within reporting threshold.

ARRA RL-0040.R1.2 Outer Zone D&D (-\$0.0M) Variance is within reporting threshold.

#### CTD Cost Performance: (+\$19.5M/+6.9%)

ARRA RL-0040.R1.1 U Plant/Other D&D (+\$6.9M) The positive cost variance is due to several factors including the favorable performance of the Cold and Dark and Sampling and Characterization/Waste Identification Form teams (D4); overhead allocations, less than anticipated resources for Program Management and C-3 Sampling; lower than planned costs for capital equipment (D4), and less asbestos abatement required for 200W buildings. This is offset by increased material and equipment costs, increased use of masks and respirators due to the unexpected asbestos levels in the ancillary buildings in U Ancillary (D4), coupled with increased insulator staff and the use of overtime to recover schedule, 200E Administration and 209E Project delays, less resources required at U Canyon (D4), and Usage Based Services higher than planned.

ARRA RL-0040.R1.2 Outer Zone D&D (+\$12.6M) The favorable cost variance is due to efficiencies in Arid Lands Ecology (ALE), North Slope Facilities, disposition of railcars D&D, and Outer Area waste sites. The waste site favorable cost-to-date variance is primarily due to an O-Zone Remove, Treat, and Dispose (RTD) Waste Sites adjustments (pass back) to ERDF waste disposal costs reflecting the operational efficiencies of the super dump trucks. Within the waste sites area, this favorable cost variance is partially offset by higher than planned costs associated with remediation of pipelines. A negative cost variance is associated with increased costs for the 212N/P/R Project due to the walls of the basins being much thicker than estimated.

### Base

#### CTD Schedule Performance: (+\$0.1M/+0.2%)

All variances are within thresholds.

#### CTD Cost Performance: (+\$7.7M/+10.7%)

Recognized efficiencies for demolition of the Industrial 7 Project (D4) as a result of utilization of existing site equipment and materials, surveillance and maintenance costs (D4) less than expected, completion of the sampling of Cell 30 with less resources than planned, Program Management utilizing less resources, capital equipment, Usage Base Services, and underrun in overhead allocations.

**Contract Performance Report Formats are provided in Appendix A and Appendix A-1.**

**Estimate at Completion (EAC)**

The BAC and EAC include FY2009 through FY2018.

The changes in EAC from November to December for both ARRA and Base, are within reporting thresholds.

**FUNDS vs. SPEND FORECAST  
(\$M)**

WBS 040/RL-0040 Nuclear Facility D&D	FY2012		
	Projected Funding	Spending Forecast	Spend Variance
<b>ARRA</b>	9.2	9.2	0.0
<b>Base</b>	11.3	11.2	0.1

Numbers are rounded to the nearest \$0.1M.

**Funds/Variance Analysis**

Funding includes FY2011 carryover and FY2012 new Budget Authority.

**Critical Path Schedule**

Critical path analysis can be provided upon request.

**Baseline Change Requests**

None currently identified.

**MILESTONE STATUS**

None currently identified.

**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.

# Section F

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



**K. L. Kehler**  
Vice President and  
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D&D Project

January 2012  
CHPRC-2012-01, Rev. 0  
Contract DE-AC06-08RL14788  
Deliverable C.3.1.3.1 - 1

## PROJECT SUMMARY

### American Recovery and Reinvestment Act (ARRA)

#### Facilities

Continued with disposal of large equipment to ERDF from the 190KW Main Pump House.

#### Base

#### Facilities

The conceptual design/construction specifications for the 105KE Reactor Disposition Interim Safe Storage (ISS) were completed. Initial review of the conceptual design began in November.

Continued sediment load-out of 183.2KE Basin on the east side.

Continued with erecting, scaffolding, and demolition preparation at 183.7KE Structure.

Continued with pipe cuts on 105KE tunnel.

Began planning for the 165KE structure and the non-boiler room asbestos.

## EMS OBJECTIVES AND TARGET STATUS

EMS Objectives and Target Status for RL-0041 are included as part of the Objectives and Target Status for RL-0040.

### TARGET ZERO PERFORMANCE

	CM Quantity	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	2	N/A
Total Recordable Injuries	0	2	N/A
First Aid Cases	0	19	N/A
Near-Misses	0	0	N/A

## KEY ACCOMPLISHMENTS

### ARRA

#### Facilities

- Continued with large equipment disposal to ERDF for 190KW Main Pump House.

### Base

#### Facilities

- Began repair work on the 105KE reactor building openings.
- Initiated 105KE Safe Storage Enclosure (SSE) 90% design review and prepared formal design review comments.
- Completed removal of rain water from the interior of the 105KE reactor building.
- Conducted walk down of 105KE reactor building with CHPRC EPC for material inventory removal.
- Continued sediment load-out of 183.2KE Basin sediment.
- Continued with asbestos abatement of 105KE tunnel.
- Continued with erecting scaffolding and demolition preparation at 183.7 Structure.
- Began planning for 165KE ahead of schedule.

#### Waste Sites

- Completed Planning and Scoping for Area AA Zone 1. AA Zone 1 Issued Excavation Release Checklist.
- Commenced Pipe Removal and remediation of AA Zone 1. Began Shipment of Pipe removed to ERDF.
- The Memorandum of Understanding (MOA) for Area AM is being reviewed. Work on the removal of the 1908K Structure and waste sites 100-K-80, 96, 81, 83, and 116-K-3 will not begin until the MOA is agreed upon.

## MAJOR ISSUES

**Issue** – RL-0041 Waste Site Remediation will not be able to complete the remediation work scope tied to waste sites 100-K-57 and 100-K-64 by December 31, 2012. The sites are located in an area of extreme cultural sensitivity. The inability to complete this work by December 31, 2012, is being driven by the lack of an approved cultural resources mitigation action plan.

**Corrective Action** – Discussions ongoing to move this waste site from TPA Phase 1 to TPA Phase 3.

**Status** – CHPRC drafted a TPA change package for RL to present to EPA for approval that will move this waste site from TPA Phase 1 to TPA Phase 3. RL presented the change package to EPA, but EPA is not inclined to move the sites into a later TPA Phase.

## 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	
WSR-007: More Extensive Contamination Than Expected	Cannot control extent of contamination; no mitigation.	●	↔	Level of contamination identified at waste site 116-KE-3 has been determined to be greater than what was anticipated.
<b>WSR-009: Different Remediation Approach</b>	Clean up remedies are consistent with direction received from RL in the PRC. There is a risk that the regulators will require a different cleanup remedy that what is planned.	●	↔	It has been demonstrated that with ISS of 105KE, two significant plumes will not be fully remediated under the RTD. The project is researching a long-term (i.e. 75 year) low cost stabilization that will retard water movement through the contaminated zone. Failure to retard precipitation will result in additional contamination to the ground water and possibly the Columbia river unless more drastic measures are taken. There are alternative remediation strategies being discussed for the following sites: 100-K-42 / UPR-100-K-1 (Fuel Storage Basin); 100-K-57 and 100-K-64 (100K East Flood Plain); and 100-KE-1 (Ventilation Condensate Crib with Carbon-14 and Tritium). The client is being kept informed on developments.
KBC-020: Ecological/Cultural Conditions Restrict Field Activities	This risk will be monitored throughout work execution.	●	↔	Due to the complexities of the MOA process, it is not likely and it is too early to tell if remediation can be accomplished by December 13, 2012, putting the associated TPA Milestone (M-016-53: due December 31, 2012) at risk.
KBC-044: 100 K Waste Sites Require Haz Cat Controls	Existing characterization data indicates the likelihood of this risk occurring is low; risk accepted without mitigation.	●	↔	Additional direct pushes and associated logging, along with pothole samples are being looked at as an option to better understand the path of contamination movement to the east and west and to the south around 105KE Reactor and former fuel storage basin. Logging data and sample results will be evaluated and used to assess the radiological inventory around and under the 105KE Reactor building.
KBC-045: 100 K East Basin Soil Disposition	Treatment will likely be in the form of waste blending in accordance with DSA for that site.	●	↔	This situation continues to be managed as load out effort continues from the 100-K-42 waste site.
KBC-048: Unexpected Industrial Contamination	D-4 activities are conducted in accordance with CHPRC IH and Rad protection programs to minimize contamination spread. Prior to D&D activities, the existing and historical records are reviewed to identify areas of likely industrial contamination.	●	↓	Field determination identified existing pipeline that had previously identified in site documents to have been used for raw water was actually used to carry some contaminants and requires remediation (100-K-102)
WSR-047: Unforeseen Waste Site Event	Perform routine surveillances and maintenance of waste sites including herbicide application.	●	↓	Lead pipe joints identified during field walkdown
<b>D4-038: In-Place Demolition of Asbestos Siding</b>	The remediation of asbestos was conducted in accordance with industry accepted techniques and processes. Residual Risk has arisen due to potential asbestos that remains at the work site.	●	↔	Recent site-wide notification regarding asbestos abatement areas identifies that as a potential concern for cost and schedule growth.
<b>PRC-010: Requirements Change</b>	The remediation of asbestos was conducted in accordance with industry accepted techniques and processes. CHPRC is working with DOE-RL and other site contractors to ensure the asbestos abatement and containment procedures are adequate.	●	↔	Recent site-wide notification regarding asbestos abatement areas could identify additional requirements regarding asbestos abatement and remediation from previously demolished structures.
<b>PRC-014: Site-Wide Occurrence</b>	The remediation of asbestos was conducted in accordance with industry accepted techniques and processes. All Hanford site Contractors have been requested to assess asbestos abatement and facility conditions.	●	↔	Recent site-wide notification regarding asbestos abatement areas identifies that as a potential concern for cost and schedule growth.
SGW-090: Contaminated Subcontractor Equipment	Perform radiological surveys prior to initiating activities. Perform rad surveys of equipment prior to release of the site. If the equipment becomes contaminated, attempt to remove contaminated portions.	●	↓	Subcontractor equipment radiologically contaminated beyond ability to successfully decontaminate

## 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>	0.5	0.1	1.0	(0.5)	-88.1	(0.9)	1470.7
<b>Base</b>	<u>3.5</u>	<u>2.2</u>	<u>2.0</u>	<u>(1.3)</u>	-36.0	<u>0.2</u>	8.5
<b>Total</b>	<b>4.0</b>	<b>2.3</b>	<b>3.0</b>	<b>(1.8)</b>	<b>-42.9</b>	<b>(0.7)</b>	<b>-32.3</b>

Numbers are rounded to the nearest \$0.1M

#### ARRA

##### CM Schedule Performance: (-\$0.5M/-88.1%)

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

100K Area Project (Facilities and Others) (-\$0.3M) The variance is within reporting threshold.

##### CM Cost Performance: (-\$0.9M/1470.7%)

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

100K Area Project (-\$0.9M) The negative variance is due to Waste Disposal costs for D4 structures that were completed late in FY2011, but the debris was not loaded and sent to ERDF until FY2012.

#### Base

##### CM Schedule Performance (-\$1.3M/-36.0%)

Waste Sites (-\$1.4M) The negative schedule variance is due to Area AM not being worked as schedule due to the MOA not being approved.

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

##### CM Cost Performance (+\$0.2M/+8.5%)

Waste Sites (-\$0.2M) The negative cost variance is due to completing waste sites planned for completion in FY2011.

100K Area Project (+0.4M) The variance is within reporting threshold.

## Contract-to-Date (\$M)

WBS 041/ RL-0041 Nuclear Facility D&D – River Corridor	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)
<b>ARRA</b>	177.6	177.4	179.0	-0.2	-0.1	(1.6)	-0.9	179.7	182.18	(2.3)
<b>Base</b>	<u>85.9</u>	<u>86.2</u>	<u>71.6</u>	<u>0.4</u>	0.5	<u>14.7</u>	17.0	<u>313.5</u>	<u>301.6</u>	<u>11.9</u>
<b>Total</b>	<b>263.5</b>	<b>263.6</b>	<b>250.6</b>	<b>-0.2</b>	<b>0.1</b>	<b>13.1</b>	<b>5.0</b>	<b>493.2</b>	<b>483.7</b>	<b>9.5</b>

Numbers are rounded to the nearest \$0.1M

### ARRA

#### CTD Schedule Performance: (-\$0.2M/-0.1%)

Waste Sites (-\$0.2M) The variance is within reporting thresholds.

100K Area Project (+\$0.0M) The variance is within reporting threshold.

#### CTD Cost Performance: (-\$1.6M/-0.9%)

Waste Sites (+\$9.0) The positive cost variance is due to Confirmatory Sampling No Action (CSNA) sites that were completed at less than anticipated cost. This is partially offset by greater than anticipated extent and severity of contamination on many waste sites resulting in more tons disposed and more controls required, thus higher than anticipated cost.

100K Area Project (-10.6M) The negative cost variance is due to numerous design changes and additional punch list items in the Utilities Reroute project; this also resulted in the project utilizing more vehicles and equipment than was originally planned as well as the Project Management costs to rise due to the corresponding increases for both labor and materials.

### Base

#### CTD Schedule Performance (+0.4M/+2.0%)

Waste Sites (+\$0.3M) The positive schedule variance is due mainly to CSNA sites that were completed ahead of schedule partially offset by delays with receiving approval of the MOA to work Area AM.

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

#### CTD Cost Performance (+\$14.7M/+17.0%)

Waste Sites (+\$10.4M) The positive cost variance is due to CSNA sites that were completed at less than anticipated cost. This is partially offset by greater than anticipated extent and severity of contamination on many waste sites resulting in more tons disposed and more controls required, thus higher than anticipated cost, as well as level-of-effort activities bearing additional costs for increased functional group support.

100K Area Project (Facilities and Others) (+\$4.3M) The positive cost variance is due to 105KE Reactor Disposition – ISS underrun as well as G&A and Direct Distributables.

#### Estimate at Completion (EAC)

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

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

## FUNDS vs. SPEND FORECAST (\$M)

WBS 041/RL-0041 Nuclear Facility D&D – River Corridor	FY2012		
	Projected Funding	Spending Forecast	Spend Variance
<b>ARRA</b>	6.5	6.5	0.0
<b>Base</b>	36.1	35.2	0.9

Numbers are rounded to the nearest \$0.1M.

### Funds/Variance Analysis:

Funding includes FY2011 carryover and FY2012 new Budget Authority.

### Critical Path Schedule

Critical Path Analysis can be provided upon request.

### Baseline Change Requests

BCR-041-12-002R0 - Waste Site 100-K-102 Realized Risks

BCR-041-12-005R0 - Realized Risk for the 116-KE-3; 105-KE Fuel Storage Basin Sub-Basin Drainage Disposal System Crib and Storage Basin French Drain.

## 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 PMB Revision 3, implemented in November 2011, and subsequent approved BCRs define CHPRC planning with respect to TPA milestones.

Number	Title	Type	Due Date	Actual Date	Forecast Date	Status/ Comment
<b>M-016-53</b>	Complete the Interim Response Actions for the 100 K Area Phase I	TPA	12/31/12			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.

# Section G

## Fast Flux Test Facility Closure (RL-0042)



**L.T. Blackford**  
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**Waste and Fuels**  
**Management Project**

**January 2012**  
**CHPRC-2012-01, Rev. 0**  
**Contract DE-AC06-08RL14788**  
**Deliverable C.3.1.3.1 - 1**

## PROJECT SUMMARY

The Fast Flux Test Facility (FFTF) is being maintained in a low-cost surveillance and maintenance condition. The 400 Area water system continues to operate providing service to other occupants of the 400 Area and water for fire protection. Roof leaks have developed that require ongoing repairs beyond normal patches.

## EMS OBJECTIVES AND TARGET STATUS

EMS Objectives and Target Status for RL-0042 are included as part of the Objectives and Target Status for RL-0040.

### TARGET ZERO PERFORMANCE

	Current Month	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	0	N/A
Total Recordable Injuries	0	0	N/A
First Aid Cases	0	0	N/A
Near-Misses	0	0	N/A

## KEY ACCOMPLISHMENTS

None identified.

## MAJOR ISSUES

None identified.

## KEY RISKS AND CHALLENGES

None identified.

## PROJECT BASELINE PERFORMANCE

### Current Month (CM)

#### (\$M)

RL-0042 FFTF Closure	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)
Base	0.1	0.1	0.0	0.0	0.1%	0.0	100.8%

Numbers are rounded to the nearest \$0.1M

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

The current month schedule variance is within reporting thresholds.

#### CM Cost Performance: (+\$0.1M/+100.8%)

The current month cost variance is within reporting thresholds.

## Contract-to-Date (CTD)

### (\$M)

RL-0042 FFTF Closure	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)
Base	12.6	12.6	11.1	0.0	0.0%	1.5	11.9%	25.4	23.9	1.5

Numbers are rounded to the nearest \$0.1M

#### CTD Schedule Performance (+\$0.0M/+0.0%)

The schedule variance is within reporting thresholds.

#### CTD Cost Performance (+\$1.5M/+11.9%)

The favorable cost variance reflects reduction in surveillance and maintenance requirements as the facility deactivation reached completion. Efficient use of resources to support deactivation activities with available time further aided in creating this favorable cost variance.

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

#### Estimate at Completion (EAC)

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

The VAC is primarily due to an increased amount of management reserve allocated for roof repairs (\$0.5M).

## FUNDS vs. SPEND FORECAST (\$M)

FY2012			
RL-0042 FFTF Closure	Projected Funding	Spending Forecast	Spend Variance
<b>Base</b>	2.0	1.6	0.4

Numbers are rounded to the nearest \$0.1M

### Funds Analysis:

Funding includes FY2011 carryover and FY2012 new Budget Authority.

### Critical Path Schedule

Critical path analysis is not applicable to this project. Remaining contract scope is performance of interim surveillance and maintenance activities.

### Baseline Change Requests

None currently identified.

## MILESTONE STATUS

None currently identified.

## 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.

# Appendix A

## Contract Performance Reports

Format 1 - Work Breakdown Structure

Format 2 - Organizational Categories

Format 3 - Baseline

Format 4 - Staffing

Format 5 - Explanation and Problem Analysis



January 2012  
CHPRC-2012-01, Rev. 0  
Contract DE-AC06-08RL14788  
Deliverable C.3.1.3.1 - 1

FORMAT 1, DD FORM 2734/1, WORK BREAKDOWN STRUCTURE

CONTRACT PERFORMANCE REPORT FORMAT 1 - WORK BREAKDOWN STRUCTURE														CLASSIFICATION (When Filled In)			FORM APPROVED OMB No. 0704-0188												
1. CONTRACTOR														2. CONTRACT			3. PROGRAM			4. REPORT PERIOD									
a. NAME														a. NAME			a. NAME			a. FROM (YYYYMMDD)									
b. LOCATION (Address and ZIP Code)														b. NUMBER			b. PHASE			b. TO (YYYYMMDD)									
5. CONTRACT DATA														c. TYPE			d. SHARE RATIO			c. EVMS ACCEPTANCE									
a. QUANTITY														b. NEGOTIATED COST		c. ESTIMATED COST OF AUTHORIZED UNPRICED WORK		d. TARGET PROFIT/FEE		e. TARGET PRICE		f. ESTIMATED PRICE		g. CONTRACT CEILING		h. ESTIMATED CONTRACT CEILING		i. DATE OF OTB/OTS	
6. ESTIMATED COST AT COMPLETION														7. AUTHORIZED CONTRACTOR REPRESENTATIVE															
a. BEST CASE														MANAGEMENT ESTIMATE AT COMPLETION (1)			CONTRACT BUDGET BASE (2)			VARIANCE (3)			a. NAME (Last, First, Middle Initial)			b. TITLE			
b. WORST CASE														c. SIGNATURE			d. DATE SIGNED												
c. MOST LIKELY																													
8. PERFORMANCE DATA																													
WBS[1]														CURRENT PERIOD					CUMULATIVE TO DATE					REPROGRAMMING ADJUSTMENTS			AT COMPLETION		
														BUDGETED COST		ACTUAL COST	VARIANCE		BUDGETED COST		ACTUAL COST	VARIANCE							
ITEM (1)														WORK SCHEDULED (2)	WORK PERFORMED (3)	WORK PERFORMED (4)	SCHEDULE (5)	COST (6)	WORK SCHEDULED (7)	WORK PERFORMED (8)	WORK PERFORMED (9)	SCHEDULE (10)	COST (11)	COST VARIANCE (12a)	SCHEDULE VARIANCE (12b)	BUDGET (13)	BUDGETED (14)	ESTIMATED (15)	VARIANCE (16)
011 RL-11 NM Stabilization and Disposition PFP														9,479	8,052	8,121	(1,427)	(69)	454,825	450,128	460,389	(4,697)	(10,260)	0	0	0	889,184	890,487	(1,303)
012 RL-12 SNF Stabilization and Disposition														6,091	5,880	5,830	(211)	50	274,367	274,806	275,642	440	(835)	0	0	0	625,569	625,604	(36)
013 RL-13 Solid Waste Stabilization & Disposition														5,907	5,882	5,301	(25)	580	643,026	642,094	641,590	(931)	504	0	0	0	1,828,285	1,827,017	1,267
030 RL-30 Soil & Wtr Remediati Grndwtr/Vadose Zone														8,227	7,799	8,667	(428)	(868)	724,452	723,925	731,837	(527)	(7,912)	0	0	0	1,498,368	1,512,772	(14,405)
040 RL-40 Nuclear Facility D&D Remainder of Hanford														896	1,113	1,510	217	(397)	355,549	355,568	328,365	19	27,202	0	0	0	970,127	934,636	35,492
041 RL-41 Nuclear Facility D&D - River Corridor														4,048	2,311	3,058	(1,737)	(747)	263,513	263,663	250,555	150	13,108	0	0	0	493,272	483,694	9,578
042 RL-42 FFTF Closure														125	125	(1)	0	126	12,551	12,551	11,052	0	1,498	0	0	0	25,429	23,908	1,521
b. Cost of Money														0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
c. Gen. and Admin.														0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
d. Undist. Budget																													
e. Sub Total														34,773	31,162	32,486	(3,611)	(1,324)	2,728,282	2,722,735	2,699,430	(5,546)	23,305	0	0	0	6,330,233	6,298,118	32,115
f. Management Reserve																											86,557		
g. Total														34,773	31,162	32,486	(3,611)	(1,324)	2,728,282	2,722,735	2,699,430	(5,546)	23,305	0	0	0	6,416,789		
9. Reconciliation to CBB																													
a. Variance Adjustment																													
b. Total Contract Variance																											6,416,789	6,298,118	118,671

FORMAT 2, DD FORM 2734/2, ORGANIZATIONAL CATEGORIES

CONTRACT PERFORMANCE REPORT FORMAT 2 - ORGANIZATIONAL CATEGORIES															DOLLARS IN Thousands of \$			FORM APPROVED OMB No. 0704-0188		
1. CONTRACTOR		2. CONTRACT				3. PROGRAM				4. REPORT PERIOD										
a. NAME CH2M HILL Plateau Remediation Company		a. NAME Plateau Remediation Contract				a. NAME Plateau Remediation Contract				a. FROM (YYYYMMDD) 2011 / 12 / 26										
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14738				b. PHASE				b. TO (YYYYMMDD) 2012 / 01 / 22										
c. TYPE CPAF		d. SHARE RATIO				c. EVMS ACCEPTANCE NO YES X 9/18/2009														
5. PERFORMANCE DATA																				
FOC	CURRENT PERIOD						CUMULATIVE TO DATE					REPROGRAMMING ADJUSTMENTS			AT COMPLETION					
	BUDGETED COST		ACTUAL	VARIANCE		BUDGETED COST		ACTUAL	VARIANCE		COST VARIANCE (12a)	SCHEDULE VARIANCE (12b)	BUDGET (13)	BUDGETED (14)	ESTIMATED (15)	VARIANCE (16)				
	WORK SCHEDULED (2)	WORK PERFORMED (3)	WORK PERFORMED (4)	SCHEDULE (5)	COST (6)	WORK SCHEDULED (7)	WORK PERFORMED (8)	WORK PERFORMED (9)	SCHEDULE (10)	COST (11)										
ITEM (1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12a)	(12b)	(13)	(14)	(15)	(16)				
<b>30A - Project Services &amp; Support</b>																				
011.A - Proj Services & Support	0	0	0	0	0	62,534	62,534	54,914	0	7,619	0	0	0	62,534	54,914	7,619				
012.A - Proj Services & Support	0	0	0	0	0	30,631	30,631	29,037	0	1,594	0	0	0	30,631	29,037	1,594				
013.A - Proj Services & Support	0	0	0	0	0	80,655	80,655	76,101	0	4,554	0	0	0	80,655	76,101	4,554				
030.A - Proj Services & Support	0	0	0	0	0	63,710	63,710	66,183	0	(2,473)	0	0	0	63,710	66,183	(2,473)				
040.A - Proj Services & Support	0	0	0	0	0	47,955	47,955	38,102	0	9,853	0	0	0	47,955	38,102	9,853				
041.A - Proj Services & Support	0	0	0	0	0	36,959	36,959	29,926	0	7,032	0	0	0	36,959	29,926	7,032				
042.A - Proj Services & Support	0	0	0	0	0	1,604	1,604	1,492	0	112	0	0	0	1,604	1,492	112				
	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>324,047</b>	<b>324,047</b>	<b>295,756</b>	<b>0</b>	<b>28,291</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>324,047</b>	<b>295,756</b>	<b>28,291</b>				
<b>30B - WBS 98 PSD Distribution</b>																				
011.A1 - Project Specific Distributables	0	0	0	0	0	16,561	16,561	17,047	0	(486)	0	0	0	16,561	17,047	(486)				
013.A1 - Project Specific Distributables	0	0	0	0	0	10,645	10,645	14,888	0	(4,244)	0	0	0	10,645	14,888	(4,244)				
030.A1 - Project Specific Distributables	0	0	0	0	0	8,173	8,173	10,290	0	(2,116)	0	0	0	8,173	10,290	(2,116)				
040.A1 - Project Specific Distributables	0	0	0	0	0	20,184	20,184	17,326	0	2,858	0	0	0	20,184	17,326	2,858				
041.A1 - Project Specific Distributables	0	0	0	0	0	12,155	12,155	10,176	0	1,979	0	0	0	12,155	10,176	1,979				
	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>67,718</b>	<b>67,718</b>	<b>69,727</b>	<b>0</b>	<b>(2,008)</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>67,718</b>	<b>69,727</b>	<b>(2,008)</b>				
<b>30C - WBS 98 R&amp;RP Distribution</b>																				
011.A2 - PSD R & RP	0	0	0	0	0	950	950	1,230	0	(280)	0	0	0	950	1,230	(280)				
012.A2 - PSD R & RP	0	0	0	0	0	0	0	1,409	0	(1,409)	0	0	0	0	1,409	(1,409)				
013.A2 - PSD R&RP	0	0	0	0	0	1,132	1,132	2,294	0	(1,162)	0	0	0	1,132	2,294	(1,162)				
030.A2 - PSD R&RP	0	0	0	0	0	989	989	3,154	0	(2,164)	0	0	0	989	3,154	(2,164)				
040.A2 - PSD R&RP	0	0	0	0	0	1,076	1,076	705	0	371	0	0	0	1,076	705	371				
041.A2 - PSD R&RP	0	0	0	0	0	854	854	604	0	250	0	0	0	854	604	250				
042.A2 - PSD R&RP	0	0	0	0	0	0	0	22	0	(22)	0	0	0	0	22	(22)				
	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5,000</b>	<b>5,000</b>	<b>9,417</b>	<b>0</b>	<b>(4,417)</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5,000</b>	<b>9,417</b>	<b>(4,417)</b>				
<b>30W - WBS 98 WFR Distribution</b>																				
011.A3 - PSD WFR	0	0	(77)	0	77	2,996	2,996	2,996	0	0	0	0	0	2,996	2,996	0				
012.A3 - PSD WFR	0	0	(1)	0	1	22	22	22	0	0	0	0	0	22	22	0				
013.A3 - PSD WFR	0	0	(306)	0	306	12,490	12,490	12,490	0	0	0	0	0	12,490	12,490	0				
040.A3 - PSD WFR	0	0	(33)	0	33	2,053	2,053	2,053	0	0	0	0	0	2,053	2,053	0				
041.A3 - PSD WFR	0	0	(98)	0	98	2,568	2,568	2,568	0	0	0	0	0	2,568	2,568	0				
	<b>0</b>	<b>0</b>	<b>(514)</b>	<b>0</b>	<b>514</b>	<b>20,128</b>	<b>20,128</b>	<b>20,128</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>20,128</b>	<b>20,128</b>	<b>0</b>				
<b>34 - Environmental Prog &amp; Strategic Planning</b>																				
030.2 - Envir Prog & Strategic Planning	356	445	429	89	16	33,366	33,065	30,419	(301)	2,646	0	0	0	76,695	74,466	2,228				
	<b>356</b>	<b>445</b>	<b>429</b>	<b>89</b>	<b>16</b>	<b>33,366</b>	<b>33,065</b>	<b>30,419</b>	<b>(301)</b>	<b>2,646</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>76,695</b>	<b>74,466</b>	<b>2,228</b>				
<b>35 - Business Services</b>																				
012.3 - Transition (PTB)	0	0	0	0	0	21,768	21,768	21,768	0	0	0	0	0	21,768	21,768	0				
030.9F - Ramp Up/Transition - Fac	0	0	(6)	0	6	23,047	23,047	23,324	0	(277)	0	0	0	23,047	23,324	(277)				
	<b>0</b>	<b>0</b>	<b>(6)</b>	<b>0</b>	<b>6</b>	<b>44,816</b>	<b>44,816</b>	<b>45,092</b>	<b>0</b>	<b>(277)</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>44,816</b>	<b>45,092</b>	<b>(277)</b>				
<b>3A - 100K Area Project</b>																				
012.1 - 100 K Area Project	2,503	2,445	2,390	(58)	55	95,060	95,060	97,927	1	(2,867)	0	0	0	247,243	249,654	(2,411)				
012.2 - Sludge Treatment Project	3,589	3,435	3,440	(153)	(5)	126,886	127,325	125,479	439	1,846	0	0	0	325,904	323,714	2,190				
040.1 - PRC D&D	132	349	670	217	(321)	189,647	189,554	184,953	(92)	4,601	0	0	0	418,247	406,299	11,947				
040.2 - D&D Fac Waste Site Remediation	0	0	9	0	(9)	67,490	67,601	60,099	111	7,502	0	0	0	378,476	371,085	7,391				
041.1 - River Zone	2,000	1,882	2,452	(118)	(570)	150,785	150,839	166,341	74	(15,502)	0	0	0	339,888	355,849	(15,961)				
041.3 - Waste Sites	2,048	428	606	(1,620)	(1,777)	60,213	60,289	40,941	77	19,348	0	0	0	100,849	84,571	16,277				
	<b>10,271</b>	<b>8,540</b>	<b>9,567</b>	<b>(1,731)</b>	<b>(1,027)</b>	<b>690,081</b>	<b>690,689</b>	<b>675,740</b>	<b>608</b>	<b>14,929</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,810,607</b>	<b>1,791,174</b>	<b>19,434</b>				
<b>3B - PFP Closure, BOS &amp; Infrastructure</b>																				
011.1 - Plutonium Finishing Plant	9,479	8,052	8,121	(1,427)	(69)	371,784	367,088	384,201	(4,697)	(17,113)	0	0	0	806,144	814,299	(8,156)				
	<b>9,479</b>	<b>8,052</b>	<b>8,121</b>	<b>(1,427)</b>	<b>(69)</b>	<b>371,784</b>	<b>367,088</b>	<b>384,201</b>	<b>(4,697)</b>	<b>(17,113)</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>806,144</b>	<b>814,299</b>	<b>(8,156)</b>				
<b>3C - Waste &amp; Fuels Management Project</b>																				
013.1 - Waste Management	5,907	5,882	5,301	(25)	580	538,104	537,173	535,817	(931)	1,355	0	0	0	1,723,363	1,721,244	2,118				
042.1 - FTF	125	125	(1)	0	126	10,947	10,947	9,538	0	1,409	0	0	0	23,825	22,393	1,432				
040.3 - PRC Fac & Waste Site Maint	764	764	830	0	(66)	27,145	27,145	25,128	(0)	2,017	0	0	0	102,138	99,067	3,071				
	<b>6,796</b>	<b>6,771</b>	<b>6,131</b>	<b>(25)</b>	<b>640</b>	<b>576,196</b>	<b>575,265</b>	<b>570,483</b>	<b>(931)</b>	<b>4,781</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,849,325</b>	<b>1,842,704</b>	<b>6,621</b>				
<b>3D - Soil &amp; Groundwater Remediation</b>																				
030.1 - Soil & GW Remediation	5,570	5,522	5,379	(49)	143	340,065	341,819	330,408	1,754	11,412	0	0	0	1,062,047	1,049,022	13,025				
	<b>5,570</b>	<b>5,522</b>	<b>5,379</b>	<b>(49)</b>	<b>143</b>	<b>340,065</b>	<b>341,819</b>	<b>330,408</b>	<b>1,754</b>	<b>11,412</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,062,047</b>	<b>1,049,022</b>	<b>13,025</b>				
<b>3F - Engineering, Projects &amp; Construction</b>																				
030.3 - EPC - Groundwater	2,301	1,832	2,864	(469)	(1,032)	255,101	253,121	268,060	(1,980)	(14,940)	0	0	0	263,706	286,333	(22,627)				
	<b>2,301</b>	<b>1,832</b>	<b>2,864</b>	<b>(469)</b>	<b>(1,032)</b>	<b>255,101</b>	<b>253,121</b>	<b>268,060</b>	<b>(1,980)</b>	<b>(14,940)</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>263,706</b>	<b>286,333</b>	<b>(22,627)</b>				
b. Cost of Money	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
c. Gen. and Admin.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
d. Undist. Budget	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
e. Sub Total	<b>34,773</b>	<b>31,162</b>	<b>31,971</b>	<b>(3,611)</b>	<b>(1,324)</b>	<b>2,728,282</b>	<b>2,722,735</b>	<b>2,699,430</b>	<b>(5,546)</b>	<b>23,305</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6,330,233</b>	<b>6,298,118</b>	<b>32,115</b>				
f. Management Resrv.	0	0	0	0	0	0	0	0	0	0	0	0	0	88,557	0	88,557				
g. Total	<b>34,773</b>	<b>31,162</b>	<b>31,971</b>	<b>(3,611)</b>	<b>(810)</b>	<b>2,728,282</b>	<b>2,722,735</b>	<b>2,699,430</b>	<b>(5,546)</b>	<b>23,305</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6,418,790</b>	<b>6,298,118</b>	<b>32,115</b>				

FORMAT 3, DD FORM 2734/3, BASELINE

January

CONTRACT PERFORMANCE REPORT													Form Approved														
FORMAT 3 - BASELINE										DOLLARS IN THOUSANDS			OMB No. 0704-0188														
1. CONTRACTOR CH2M HILL Plateau Remediation Company b. LOCATION: Richland, WA				2. CONTRACT a. NAME: Plateau Remediation Contract b. NUMBER: RL14788 c. TYPE: CPAF d. SHARE RATIO:				3. PROGRAM a. NAME: Plateau Remediation Contract b. PHASE c. EVMS ACCEPTANCE NO YES X 9/18/2009				4. REPORT PERIOD a. FROM: 2011/12/26 b. TO: 2012/01/22															
5. CONTRACT DATA			a. ORIGINAL NEGOTIATED COST 4,312.366	b. NEGOTIATED CONTRACT CHANGE \$1,089.044	c. CURRENT NEGOTIATED COST (A + B) \$5,401.410	d. ESTIMATED COST AUTH UNPRICED WORK 364.402	e. CONTRACT BUDGET BASE (C + D) \$5,765.812	f. TOTAL ALLOCATED BUDGET \$6,481.586	g. DIFFERENCE (E - F) (\$715.775)																		
h. CONTRACT START DATE 6/19/2008			i. DEFINITIZATION DATE 6/19/2008		j. PLANNED COMPL DATE 9/30/2018		k. CONT COMPLETION DATE 9/30/2018		l. EST COMPLETION DATE 9/30/2018																		
6. PERFORMANCE DATA													BUDGETED COST FOR WORK SCHEDULED (NON - CUMULATIVE)														
ITEM (1)	BCWS CUM TO DATE (2)	BCWS FOR REPORT PERIOD (3)	SIX MONTH FORECAST						FY09 (10)	FY10 (11)	FY11 (12)	FY12 (13)	OUT YEARS (14)	UNDISTRIB BUDGET (15)	TOTAL BUDGET (16)												
			+1 Feb-12 (4)	+2 Mar-12 (5)	+3 Apr-12 (6)	+4 May-12 (7)	+5 Jun-12 (8)	+6 Jul-12 (9)																			
a. PM BASELINE (BEGIN OF PERIOD)													2,693,509	34,773	36,438	43,884	33,809	41,577	32,046	32,044	653,429	960,017	1,002,105	426,911	3,351,761	0	6,394,223
b. BASELINE CHANGES AUTH DURING REPORT PERIOD																											
BCRA-PRC-12-005R0 - CEIS and P6 Reconciliation of "Closed" activities to Match Cobra																						0			0	0	
BCRA-PRC-12-007R0 - January 2012 PMB BCR Log Reconciliation to Cobra																						-3				-3	
BCRA-PRC-12-008R0 - January 2012 FEE BCR Log Reconciliation to Cobra																						0				0	
BCRA-PRC-12-009R0 - January 2012 MR BCR Log Reconciliation to Cobra																						0				0	
BCRA-PRC-12-010R0 - Admin BCR for Miscellaneous HPIC Changes																						0				0	
BCRA-030-12-005R0 - RL-30 January Baseline Administrative Changes																						0				0	
BCRA-041-12-003R0 - RL-41 EVM coding, logic, and WBS description changes																						0				0	
BCR-000-12-002R0 - Beryllium Program Revision to Estimate																						0				0	
BCR-000-12-004R0 - Functional Programs Labor Estimate Revision																						0				0	
BCR-R13-12-001R0 - W&FM ARRA Buy-Back																						123				123	
BCR-041-12-002R0 - Waste Site 100-K-102 Realized Risks																						422	150			572	
BCR-041-12-005R0 - Realized Risk for the 116-KE-3; 105-KE Fuel Storage Basin Sub-Basin Drainage Disposal System Crib and Storage Basin French Drain																						114				114	
c. PM BASELINE (END OF PERIOD)													2,728,282		35,574	43,884	33,809	41,577	32,046	32,162	653,426	960,017	1,002,105	427,570	3,351,911	0	6,395,029
7. MANAGEMENT RESERVE																										86,557	
8. TOTAL																										6,481,586	

CLASSIFICATION (When Filled In)

CONTRACT PERFORMANCE REPORT

FORMAT 4 - STAFFING

FORM APPROVED  
OMB No. 0704-0188

1. CONTRACTOR		2. CONTRACT				3. PROGRAM			4. REPORT PERIOD				
a. NAME CH2M HILL Plateau Remediation Company		a. NAME Plateau Remediation Contract				a. NAME Plateau Remediation Contract			a. FROM (YYYYMMDD) 2011 / 12 / 26				
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE			b. TO (YYYYMMDD) 2012 / 01 / 22						
		c. TYPE CPAF	d. SHARE RATIO	c. EVMS ACCEPTANCE NO 9/18/2009									
5. PERFORMANCE DATA (All figures in whole numbers of equivalent month. One equivalent month equals on person working one month)													
FOC Group by FOC	ACTUAL CURRENT PERIOD	ACTUAL END OF CURRENT PERIOD (Cumulative)	FORECAST (Non-Cumulative)									AT COMPLETION	
			SIX MONTH FORECAST						SPECIFIED PERIODS				
			+1 Feb	+2 Mar	+3 Apr	+4 May	+5 Jun	+6 Jul	REM FY12	FY13	FY14-18		
ITEM (1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(11)	(12)	(13)	(15)	
<b>30B - WBS 98 PSD Distribution</b>													
011.A1 - Project Specific Distributables	0	1	0	0	0	0	0	0	0	0	0	0	1
013.A1 - Project Specific Distributables	0	0	0	0	0	0	0	0	0	0	0	0	0
030.A1 - Project Specific Distributables	0	0	0	0	0	0	0	0	0	0	0	0	0
040.A1 - Project Specific Distributables	0	0	0	0	0	0	0	0	0	0	0	0	0
	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>
<b>31 - Communications &amp; Outreach</b>													
000.1 - Communications & Outreach	6	476	8	8	7	8	8	7	15	84	420		1,040
	<b>6</b>	<b>476</b>	<b>8</b>	<b>8</b>	<b>7</b>	<b>8</b>	<b>8</b>	<b>7</b>	<b>15</b>	<b>84</b>	<b>420</b>		<b>1,040</b>
<b>32 - Safety, Health, Security &amp; Quality</b>													
000.2 - Safety,Health,Security/Quality	63	3,977	81	86	81	81	81	88	162	730	2,889		8,256
	<b>63</b>	<b>3,977</b>	<b>81</b>	<b>86</b>	<b>81</b>	<b>81</b>	<b>81</b>	<b>88</b>	<b>162</b>	<b>730</b>	<b>2,889</b>		<b>8,256</b>
<b>34 - Environmental Prog &amp; Strategic Planning</b>													
000.4 - Environmental Prog & Strategic Planning	21	815	23	23	22	22	22	22	43	264	957		2,212
030.2 - Envr Prog & Strategic Planning	19	1,278	29	26	30	27	29	28	50	259	1,702		3,459
	<b>41</b>	<b>2,093</b>	<b>52</b>	<b>49</b>	<b>52</b>	<b>49</b>	<b>50</b>	<b>50</b>	<b>93</b>	<b>522</b>	<b>2,660</b>		<b>5,671</b>
<b>35 - Business Services</b>													
000.6A - Expense PSD	0	1,302	0	0	0	0	0	0	0	0	0		1,302
000.8 - Chief Financial Officer	92	4,496	103	102	102	101	102	102	201	1,190	5,579		12,076
000.9 - Chief Information Officer	0	4	0	0	0	0	0	0	0	0	0		4
011.9T - Ramp Up/Transition - Training	0	15	0	0	0	0	0	0	0	0	0		15
013.9F - Ramp Up/Transition - Fac	0	1	0	0	0	0	0	0	0	0	0		1
013.9T - Ramp Up/Transition - Training	0	11	0	0	0	0	0	0	0	0	0		11
030.9F - Ramp Up/Transition - Fac	0	272	0	0	0	0	0	0	0	0	0		272
030.9T - Ramp Up/Transition - Training	0	7	0	0	0	0	0	0	0	0	0		7
040.9F - Ramp Up/Transition - Fac	0	2	0	0	0	0	0	0	0	0	0		2
040.9T - Ramp Up/Transition - Training	0	18	0	0	0	0	0	0	0	0	0		18
041.9F - Ramp Up/Transition - Fac	0	1	0	0	0	0	0	0	0	0	0		1
041.9T - Ramp Up/Transition - Training	0	13	0	0	0	0	0	0	0	0	0		13
	<b>92</b>	<b>6,141</b>	<b>103</b>	<b>102</b>	<b>102</b>	<b>101</b>	<b>102</b>	<b>102</b>	<b>201</b>	<b>1,190</b>	<b>5,579</b>		<b>13,721</b>
<b>36 - Prime Contract &amp; Project Integration</b>													
000.7 - Contract and Baseline Management	40	1,580	43	43	42	42	42	42	84	492	2,313		4,721
	<b>40</b>	<b>1,580</b>	<b>43</b>	<b>43</b>	<b>42</b>	<b>42</b>	<b>42</b>	<b>42</b>	<b>84</b>	<b>492</b>	<b>2,313</b>		<b>4,721</b>
<b>39 - PS&amp;S G&amp;A Adder Offset</b>													
000.5B - PS&S G&A Adder Offset	0	0	0	0	0	0	0	0	0	0	0		0
	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>		<b>0</b>
<b>3A - 100K Area Project &amp; BOS D&amp;D</b>													
012.1 - 100 K Area Project	147	5,490	159	157	103	93	94	94	188	1,257	2,266		9,902
012.2 - Sludge Treatment Project	89	4,489	113	117	151	179	179	178	351	1,506	2,641		9,903
040.1 - PRC D&D	26	7,447	0	0	0	15	24	24	34	0	6,938		14,482
040.2 - D&D Fac Waste Site Remediation	0	1,341	0	0	0	0	0	0	0	0	3,813		5,154
041.1 - River Zone	64	5,114	86	92	80	80	81	84	202	715	3,707		10,242
041.3 - Waste Sites	9	1,002	5	5	4	7	7	7	12	7	911		1,966
	<b>335</b>	<b>24,884</b>	<b>362</b>	<b>370</b>	<b>339</b>	<b>374</b>	<b>385</b>	<b>387</b>	<b>786</b>	<b>3,485</b>	<b>20,276</b>		<b>51,649</b>
<b>3B - PFP Closure</b>													
011.1 - Plutonium Finishing Plant	464	23,109	488	482	482	481	504	508	1,015	6,496	8,349		41,913
	<b>464</b>	<b>23,109</b>	<b>488</b>	<b>482</b>	<b>482</b>	<b>481</b>	<b>504</b>	<b>508</b>	<b>1,015</b>	<b>6,496</b>	<b>8,349</b>		<b>41,913</b>
<b>3C - Waste &amp; Fuels Management Project</b>													
013.1 - Waste Management	334	28,459	342	342	342	342	342	364	729	4,347	31,798		67,405
013.3 - Solid Waste Variable	8	559	9	9	9	9	9	9	18	108	540		1,279
040.3 - PRC Fac & Waste Site Maint	41	1,753	45	45	45	45	45	45	90	600	2,821		5,535
042.1 - FTF	5	536	5	5	5	5	5	5	11	83	413		1,075
	<b>388</b>	<b>31,307</b>	<b>401</b>	<b>401</b>	<b>401</b>	<b>401</b>	<b>401</b>	<b>423</b>	<b>848</b>	<b>5,138</b>	<b>35,572</b>		<b>75,294</b>
<b>3D - Soil &amp; Groundwater Remediation</b>													
030.1 - Soil & GW Remediation	214	13,722	262	262	284	282	331	334	606	3,589	18,308		37,980
	<b>214</b>	<b>13,722</b>	<b>262</b>	<b>262</b>	<b>284</b>	<b>282</b>	<b>331</b>	<b>334</b>	<b>606</b>	<b>3,589</b>	<b>18,308</b>		<b>37,980</b>
<b>3F - Engineering, Projects &amp; Construction</b>													
000.F - Eng/Procurement & Construction	15	1,086	18	18	18	18	18	18	35	187	766		2,179
030.3 - EPC - Groundwater	96	3,128	79	64	57	29	18	10	8	26	128		3,546
	<b>111</b>	<b>4,214</b>	<b>97</b>	<b>81</b>	<b>75</b>	<b>46</b>	<b>35</b>	<b>27</b>	<b>43</b>	<b>213</b>	<b>894</b>		<b>5,725</b>
<b>Grand Totals:</b>	<b>1,755</b>	<b>111,506</b>	<b>1,896</b>	<b>1,884</b>	<b>1,865</b>	<b>1,863</b>	<b>1,939</b>	<b>1,968</b>	<b>3,854</b>	<b>21,940</b>	<b>97,260</b>		<b>245,973</b>



**FORMAT 5, DD FORM 2734/5, EXPLANATION AND PROBLEM ANALYSIS**

**Current Period Cost:** For PBS RL-11, performance is trending upward, improving 5% from last month. For RL-12, no significant impact. For PBS RL-13 there is no cost impact (correction of a MLLW contract cost error made in the prior period [December accrual was incorrectly made for the remaining value of the contract and corrected in this reporting period]). For RL-30, The cost for the Sludge Stabilization System will exceed the original plan. For PBS RL-40, current period cost variance is within threshold and there is no significant impact. For PBS RL-41 minimal impact is expected due to the overall positive variance. For PBS RL-42, there is no impact associated with the cost variance.

**CTD Schedule:** For PBS RL-11, work scope is projected to finish on schedule. TPA Milestone M-083-24, "Submit S&M Plan Pursuant to Agreement Section 8.5.4," due June 30, 2012, was completed September 30, 2011. The scheduled completion for other TPA Milestones—M-083-44, "Complete Transition of 234-5Z&ZA/243-Z/291-Z & 291-Z-1 Facilities," due 9/30/2015, and M-083-00A, "Complete PFP Facility Transition and Selected Disposition Activities," due 9/30/2016—is dependent on outyear funding of planned lifecycle activities in accordance with BCR-PRC-12-001R0. For RL-12, no significant impact. No schedule impacts for PBS RL-13. For PBS RL-30, the variance better reflects work completed to date. For PBS RL-40 CTD schedule variance is within threshold and there is no significant impact. RL-41 has no significant impacts. For PBS RL-42, the schedule variance is within threshold and has no significant impact.

**CTD Cost:** For RL-11, the VAC reflects expected improved efficiency in completing remaining work scope and the removal of PMB R3 error in PRF TRU waste disposal cost. For RL-12, no significant impact. There are no cost impacts for PBS RL-13. For RL-30, no significant impact. RL-40 cost variance has no significant impact. RL-41 cost variance is within threshold and has no significant impact. For PBS RL-42, the cost variance is within threshold and has no significant impact.

**Corrective Action:**

**Current Period Schedule:** For PBS RL-11 see CTD Schedule. For PBS RL-12, no corrective actions required. For PBS RL-13, no corrective action required. For PBS RL-30, no corrective actions are required. For PBS RL-40, no corrective actions are required at this time. For PBS RL-41, the current period schedule corrective actions are the same as CTD schedule corrective actions (see below). For PBS RL-42, no corrective actions required.

**Current Period Cost:** For RL-11, no corrections are planned. For PBS RL-12, no corrective actions required. No cost corrective actions are required for PBS RL-13. For PBS RL-30, no corrective actions are required. For PBS RL-40, no corrective actions are required at this time. For PBS RL-41 D&D, current cost variances are covered by efficiencies in other D&D areas. O-Zone Waste Site remediation current cost variances are favorable; no corrective action required. Cost overruns are being managed and actions are being taken to funds manage cost overruns and underruns. For PBS RL-42, no corrective actions required.

**CTD Schedule:** For PBS RL-11, overtime will be used in selected areas to recover schedule, a focused effort has been put in place to have multiple work packages available so alternative scope can be worked should problems arise with the package being worked, resources have been identified in the detailed field execution schedule to assist with more efficient resource utilization, ZB Complex is using two excavators to speed up size reduction of buildings and lighting will improve ERDF can load out efficiency, and sequencing 234-5Z pipe cutting to eliminate any inefficiency associated with two crews working the same area. The lifecycle performance measurement baseline underwent an independent joint CHPRC and DOE-RL review in December 2011; comment resolution is expected by February 2012. For PBS RL-12, no corrective actions required. For PBS RL-13, no corrective action required. For PBS RL-30, no corrective action required. For PBS RL-40, no corrective actions are required at this time. PBS RL-41 has implemented a BCR to address additional soil contamination (realized risk). Schedule recovery actions are being explored to recover the D&D structure demolition and waste site remediation schedule activities where they can to offset where other demolition and remediation activities have been delayed. For PBS RL-42, no corrective actions required.

**CTD Cost:** For PBS RL-11, no specific actions are planned at this time. The lifecycle performance measurement baseline underwent an independent joint CHPRC and DOE-RL review in December 2011; comment resolution is expected by February 2012. For PBS RL-12, no corrective actions required. For PBS RL-13 no corrective action required. For PBS RL-30, Cost overruns for the 200 West Pump and Treat System are being addressed and additional funding will be identified as required. For PBS RL-40, no corrective actions are required at this time. For PBS RL-41, change requests and REAs are being prepared to address additional soil contamination efforts not priced in the original contract. No corrective actions are required for D&D. For PBS RL-42, no corrective actions are required at this time.

**Monthly Summary (to include technical causes of VARs, Impacts, and Corrective Action(s):**

The cumulative to date cost and schedule variances are within reporting thresholds except for RL-40, RL-41 and RL-42 which have favorable cost variances of 7.7%, 5.0% and 11.9% respectively. Variance by PBS follows: RL-11 PFP, the cumulative to date cost and schedule variances are within reporting thresholds. RL-12 has no significant impacts. The RL-13 Solid Waste Stabilization and Disposition favorable monthly cost variance reflects the correction of a MLLW contract cost error made in the prior period (December accrual was incorrectly made for the remaining value of the contract and corrected in this reporting period). In addition, staff utilization was below plan due to holidays and weather impacts and was partially offset by resources being transferred from ARRA to base. The RL-13 Solid Waste Stabilization and Disposition unfavorable monthly schedule variance is within threshold. For RL-30 there is no impact associated with the current month positive variance. The favorable schedule variance in RL-40 is within reporting threshold and is the result of demobilization and surveys requiring increased resources and costs for MSA fleet services significantly greater than plan. The unfavorable cost variance in RL-40 is within reporting threshold. The cumulative to date cost and schedule variances for RL-41 Nuclear Facilities D&D RC Closure Project favorable current period schedule and cost variances are primarily due to the FY2012 Execution Plan BCR moving work that has been started from FY2011 to FY2012. The cumulative to date cost and schedule variances for RL-42 FTF continues to have no schedule variances and a favorable cost variance due to lower than anticipated cost of maintaining in a cold and dry status.

**Contractually Required Cost, Schedule, EAC variance, Management Reserve Use**

**Variance in Performance BAC and EAC:** The variance at complete (VAC) between the BAC and EAC this month is a positive \$32.1 million and +0.5%. This variance is within threshold for the Project. Furthermore, the VACs at each project baseline summary (PBS) are also within the threshold limit. For information, the VAC threshold limit is +or- 5% and +or- \$15 million.

**FORMAT 5, DD FORM 2734/5, EXPLANATION AND PROBLEM ANALYSIS**

**Format 1 and 3 Contract Data:**

**Contract Price Adjustments**

Base & ARRA		
CPs - In Process		
	Total Authorized Unpriced Work	364,401,620
Approved Adjustments to Contract Price (not reflected in B.4-1 Table)		
	Total Negotiated Cost Changes	122,898,037
	<b>Grand Total Adjustments</b>	<b>487,299,657</b>

**Use of Management Reserve (MR):** Base MR was reduced by (\$686K) for January 2012.

**Management Reserve Utilization**

BCR Number	Title	Fiscal Year	MR (ARRA) & PBS	MR (Base) & PBS
BCR-041-12-002R0	Waste Site 100-K-102 Realized Risks	2012 & 2017	N/A	RL-041/ 2012/ \$422.3K & RL-041/ 2017/ \$149.8K
BCR-041-12-005R0	Realized Risk for the 116-KE-3; 105-KE Fuel Storage Basin Sub-Basin Drainage Disposal System Crib and Storage Basin French Drain	2012	N/A	RL-041/ 2012/ \$113.9K
<b>Overall MR Change in January 2012 – (\$686K)</b>				

**Best/Worst/Most Likely Estimate:** The Best EAC is the EAC reported this month, which assumes all efficiencies gained contract-to-date will remain at completion with no use of management reserve. The most likely EAC is the EAC reported this month plus the to-go (available) management reserve, which assumes all efficiencies gained contract-to-date will remain at completion but all available management reserve is used (e.g., all identified risks realized). The worst EAC is the BAC reported this month plus the to-go (available) management reserve, which assumes all efficiencies gained contract-to-date will be eroded at completion and all available management reserve is used (e.g., all identified risks realized). The Best/Worst and Most Likely EAC values are documented in the Format 1 Report.

<b>Prepared by:</b> Project Control Staff	<b>Date:</b> 1/31/2012	<b>Approved by:</b>	<b>Date:</b>
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(1) = Trench Face Retrieval & Characterization System; (2) = Engineered Containers Retrieval and Transportation System; (3) PSD R&RP = Project Specific Distributables Rewards & Recognition Program; (4) DCAA = Defense Contract Audit Agency; (5) Powered Air Purifying Respirator; (6) Maintenance and Storage Facility (MASF)

# Appendix A-1

## Contract Performance Reports

### ARRA

Format 1 - Work Breakdown Structure

Format 3 - Baseline

Format 5 - Explanation and Problem Analysis



January 2012  
CHPRC-2012-01, Rev. 0  
Contract DE-AC06-08RL14788  
Deliverable C.3.1.3.1 - 1

FORMAT 1, DD FORM 2734/1, WORK BREAKDOWN STRUCTURE

CONTRACT PERFORMANCE REPORT FORMAT 1 - WORK BREAKDOWN STRUCTURE														CLASSIFICATION (When Filled In)			FORM APPROVED OMB No. 0704-0188																																				
1. CONTRACTOR														2. CONTRACT			3. PROGRAM			4. REPORT PERIOD																																	
a. NAME CH2M HILL Plateau Remediation Company														a. NAME Plateau Remediation Contract			a. NAME Plateau Remediation Contract			a. FROM (YYYYMMDD) 2011 / 12 / 26																																	
b. LOCATION (Address and ZIP Code) Richland, WA														b. NUMBER RL14788			b. PHASE			b. TO (YYYYMMDD) 2012 / 01 / 22																																	
c. TYPE CPAF														d. SHARE RATIO			c. EVMS ACCEPTANCE NO YES X 9/18/2009																																				
5. CONTRACT DATA														a. QUANTITY			b. NEGOTIATED COST 1,305,191			c. ESTIMATED COST OF AUTHORIZED UNPRICED WORK 0			d. TARGET PROFIT/FEE 70,807			e. TARGET PRICE 1,375,998			f. ESTIMATED PRICE 1,378,381			g. CONTRACT CEILING 1,375,998			h. ESTIMATED CONTRACT CEILING 1,378,381			i. DATE OF OTB/OTS (YYYYMMDD)															
6. ESTIMATED COST AT COMPLETION														MANAGEMENT ESTIMATE AT COMPLETION (1)			CONTRACT BUDGET BASE (2)			VARIANCE (3)			7. AUTHORIZED CONTRACTOR REPRESENTATIVE			a. NAME (Last, First, Middle Initial) Bang, M.V.			b. TITLE Prime Contract Manager																								
a. BEST CASE														1,307,574									c. SIGNATURE			d. DATE SIGNED (YYYYMMDD) 2012 / 01 / 22																											
b. WORST CASE														1,331,811																																							
c. MOST LIKELY														1,307,574			1,305,191			(2,383)																																	
8. PERFORMANCE DATA														CURRENT PERIOD						CUMULATIVE TO DATE						REPROGRAMMING ADJUSTMENTS			AT COMPLETION																								
WBS[1]														BUDGETED COST			ACTUAL COST			VARIANCE			BUDGETED COST			ACTUAL COST			VARIANCE			COST VARIANCE			SCHEDULE VARIANCE			BUDGET			BUDGETED			ESTIMATED			VARIANCE						
ITEM (1)														WORK SCHEDULED (2)		WORK PERFORMED (3)		WORK PERFORMED (4)		SCHEDULE (5)		COST (6)		WORK SCHEDULED (7)		WORK PERFORMED (8)		WORK PERFORMED (9)		SCHEDULE (10)		COST (11)		(12a)			(12b)			(13)			(14)			(15)			(16)				
RL-0011.R1 PFP D&D														6,138		5,000		5,441		(1,137)		(440)		285,223		281,344		289,953		(3,878)		(8,608)		0			0			0			293,726			295,838			(2,112)				
RL-0013C.R1.1 MLLW Treatment														0		0		5		0		(5)		47,707		47,699		42,690		(8)		5,009		0			0			0			47,707			42,726			4,981				
RL-0013C.R1.2 TRU Waste														(1,377)		(1,319)		145		58		(1,464)		255,312		255,312		255,003		(0)		308		0			0			0			255,312			253,546			1,765				
RL-0013C.R1.3 TRU Wst Facil Trans MinSafe														1,500		1,500		0		0		1,500		1,500		1,500		0		1,500		0		1,500		0			0			0			1,500			1,417			83		
RL-0030.R1.1 GW Capital Asset														0		0		114		0		(114)		175,008		175,008		174,703		0		305		0			0			0			175,008			174,972			36				
RL-0030.R1.2 GW Operations														0		0		11		0		(11)		92,146		92,146		89,327		(0)		2,818		0			0			0			92,146			89,327			2,818				
RL-0040.R1.1 U Plant/Other D&D														126		343		643		217		(300)		199,391		199,298		192,427		(92)		6,871		0			0			0			199,391			192,595			6,796				
RL-0040.R1.2 Outer Zone D&D														0		0		2		0		(2)		84,279		84,279		71,662		0		12,617		0			0			0			87,273			75,083			12,190				
RL-0041.R1.1 100 K Area Remediation														538		64		1,003		(474)		(939)		177,650		177,408		178,964		(242)		(1,556)		0			0			0			179,749			182,069			(2,321)				
b. Cost of Money														0		0		0		0		0		0		0		0		0		0		0			0			0			0			0			0				
c. Gen. and Admin.														0		0		0		0		0		0		0		0		0		0		0			0			0			0			0			0				
d. Undist. Budget														0		0		0		0		0		0		0		0		0		0		0			0			0			0			0			0				
e. Sub Total														6,924		5,588		7,363		(1,336)		(1,775)		1,318,214		1,313,993		1,294,729		(4,221)		19,264		0			0			0			1,331,811			1,307,574			24,237				
f. Management Resrv.														0		0		0		0		0		0		0		0		0		0		0			0			0			0			0			0				
g. Total														6,924		5,588		7,363		(1,336)		(1,775)		1,318,214		1,313,993		1,294,729		(4,221)		19,264		0			0			0			1,331,811										
9. Reconciliation to CBB														0		0		0		0		0		0		0		0		0		0		0			0			0			0			0			0				
a. Variance Adjustment														0		0		0		0		0		0		0		0		0		0		0			0			0			0			0			0				
b. Total Contract Variance														0		0		0		0		0		0		0		0		0		0		0			0			0			0			0			0				
														1,331,811		1,307,574		24,237						1,331,811		1,313,993		1,294,729		(4,221)		19,264		0			0			0			1,331,811			1,307,574			24,237				

**FORMAT 3, DD FORM 2734/3, BASELINE**

CONTRACT PERFORMANCE REPORT													Form Approved OMB No. 0704-0188			
FORMAT 3 - BASELINE											DOLLARS IN THOUSANDS				4. REPORT PERIOD	
1. CONTRACTOR CH2M HILL Plateau Remediation Company Richland, WA			2. CONTRACT a. NAME: Plateau Remediation Contract b. NUMBER: RL14788 c. TYPE: CPAF d. SHARE RATIO:				3. PROGRAM a. NAME: Plateau Remediation Contract b. PHASE c. EVMS ACCEPTANCE NO YES X 9/18/2009				a. FROM: 2011/12/26		b. TO: 2012/01/22			
5. CONTRACT DATA																
a. ORIGINAL NEGOTIATED COST 0				b. NEGOTIATED CONTRACT CHANGE \$1,305,191		c. CURRENT NEGOTIATED COST (A + B) \$1,305,191		d. ESTIMATED COST AUTH UNPRICED WORK \$0		e. CONTRACT BUDGET BASE (C + D) \$1,305,191		f. TOTAL ALLOCATED BUDGET \$1,331,811		g. DIFFERENCE (E - F) (\$26,620)		
h. CONTRACT START DATE 4/9/2009				i. DEFINITIZATION DATE			j. PLANNED COMPL DATE 9/30/2012			k. CONT COMPLETION DATE			l. EST COMPLETION DATE 9/30/2012			
6. PERFORMANCE DATA																
ITEM (1)	BCWS CUM TO DATE (2)	BCWS FOR REPORT PERIOD (3)	SIX MONTH FORECAST						FY09 (10)	FY10 (11)	FY11 (12)	FY12 (13)	OUT YEARS (14)	UNDISTRIB BUDGET (15)	TOTAL BUDGET (16)	
			+1 Feb-12 (4)	+2 Mar-12 (5)	+3 Apr-12 (6)	+4 May-12 (7)	+5 Jun-12 (8)	+6 Jul-12 (9)								
a. PM BASELINE (BEGIN OF PERIOD)	1,311,290	6,924	6,654	2,446	231	617	1,110	1,066	161,538	565,906	585,572	18,672	0	0	1,331,688	
b. BASELINE CHANGES AUTH DURING REPORT PERIOD BCR-R13-12-001R0 - W&FM ARRA Buy-Back												123			0 123	
c. PM BASELINE (END OF PERIOD)	1,318,214		6,654	2,446	231	617	1,110	1,066	161,538	565,906	585,572	18,795	0	0	1,331,811	
7. MANAGEMENT RESERVE															0	
8. TOTAL															1,331,811	

**FORMAT 5, DD FORM 2734/5, EXPLANATION AND PROBLEM ANALYSIS**

CLASSIFICATION (When Filled In)									
CONTRACT PERFORMANCE REPORT FORMAT 5 - EXPLANATIONS AND PROBLEM ANALYSES								FORM APPROVED OMB No. 0704-0188	
<b>1. CONTRACTOR</b>		<b>2. CONTRACT</b>			<b>3. PROGRAM</b>			<b>4. REPORT PERIOD</b>	
<b>a. NAME</b> CH2M HILL Plateau Remediation Company		<b>a. NAME</b> Plateau Remediation Contract			<b>a. NAME</b> Plateau Remediation Contract			<b>a. FROM (YYYY/MM/DD)</b>  2011/12/26	
<b>b. LOCATION (Address and ZIP Code)</b>  Richland, WA 99354		<b>b. NUMBER</b> RL		<b>b. PHASE</b> ARRA		<b>b. TO (YYYY/MM/DD)</b>  2012/01/22			
		<b>c. TYPE</b> CPAF	<b>d. SHARE RATIO</b>		<b>c. EVMS ACCEPTANCE 2009/09/18</b> NO YES X				
	<b>BCWS</b>	<b>BCWP</b>	<b>ACWP</b>	<b>SV in \$</b>	<b>SV in %</b>	<b>CV in \$</b>	<b>CV %</b>	<b>SPI</b>	<b>CPI</b>
Current:	6,924	5,589	7,364	(1,336)	-19.3%	(1,775)	-31.8%	0.81	0.76
Cumulative:	1,318,214	1,313,993	1,294,729	(4,221)	-0.3%	19,264	1.5%	1.00	1.01
	<b>BAC</b>	<b>EAC</b>	<b>VAC in \$</b>	<b>VAC in %</b>	<b>CPI to BAC</b>	<b>CPI to EAC</b>			
At Complete:	1,331,811	1,307,574	24,237	1.8%	0.5	1.4			
<b>Explanation of Variance/Description of Problem:</b>									
<p><b>Current Period Schedule Variance:</b> The Current Month unfavorable Schedule Variance (-\$1.3M) reflects the following:                      RL-0011 negative variance (-\$1.1M) is a result of inability to work planned shifts in RMA/RMC process lines due to key resource absence during holiday week, lack of work package backlog, and D&amp;D work restriction. Delays in demolition of the ZB Complex result from more effort required to ready 2736-ZB for demolition and time lost recovering from an un-sampled waste water incident. The Hanford site closure for inclement weather also contributes to the unfavorable variance. RL-0013 positive variance (+\$0.1M) is within reporting thresholds and reflects the following: RL-13C.R1.1 MLLW Treatment (+\$0.0M), RL13C.R1.2 TRU Waste (+\$0.1M) and RL13C.R1.3 TRU Waste Facility Trans MinSafe (+\$0.0M). The RL-0030 Current Month Schedule Variance is within thresholds. The RL-0040 positive variance (+\$0.2M) is within reporting threshold. However, the positive variance is due to schedule recovery for completion of 209E site stabilization and demobilization activities (scheduled in previous months, but behind due to issues with demolition of structures). The RL-0041 negative variance (-\$0.5M) is within reporting thresholds.</p> <p><b>Current Period Cost Variance:</b> The Current Month unfavorable Cost Variance (-\$1.8M) reflects the following:                      RL-0011 negative variance (-\$0.4M) is within reporting thresholds. The RL-13C.R1.1 MLLW Treatment (-\$0.0M), RL13C.R1.2 TRU Waste (-\$1.5M) and RL13C.R1.3 TRU Waste Facility Trans MinSafe (+\$1.5M) variances are within threshold. However, ARRA layup activities were replanned to a newly established DOE requested/authorized ARRA subproject. Costs associated with replanned scope will be corrected and/or transferred to the new subproject in the next reporting period (February 2012). The RL-0030 Current Month Cost Variance is within threshold. The RL-0040 negative variance (-\$0.3M) is within reporting threshold. The RL-0041 negative variance (-\$0.9M) is within reporting thresholds.</p>									
<p><b>Cumulative Schedule Variance:</b> An unfavorable cumulative schedule variance (-\$4.2M) is due to the following:                      The RL-0011 negative variance (-\$3.9M) is within reporting thresholds. The RL-0013 negative variance (-\$0.0M) is within reporting thresholds. The RL-0030 schedule variance is (\$0.0M) as all ARRA work scope has been completed. The RL-0040 negative variance (-\$0.1M) is within reporting thresholds. The RL-0041 negative variance (-\$0.2M) is within reporting thresholds.</p> <p><b>Cumulative Cost Variance:</b> The CTD favorable cost variance (+\$19.3M) reflects the following:                      RL-0011 negative variance (-\$8.6M) is within reporting thresholds. The RL-0013 positive variance (+\$6.8M) is due to efficiencies in TRU Characterization and Shipping, TRU Repackaging, T Plant and WRAP, Mixed Low Level Waste (MLLW) efficiencies created by treating waste at Energy Solutions (ES) - Clive rather than planned treatment at PFNW due to a waiver received from the Department of Energy (DOE), Environmental Restoration Disposal Facility (ERDF) negotiated rate reduction with vendor for waste containers, partially offset by increased materials and labor costs in support of the Trench Face Retrieval and Characterization System (TFRCs), and increased resources for TRU Retrieval deteriorated waste containers, increased allocations for additional office space and other assessments as a result of allocations to Recovery Act expenditures. The RL-0030 Contract to Date Cost variance is within threshold. The RL-0040 positive variance (+\$19.5M) reflects the following: RL-0040.R1.1 U Plant/Other D&amp;D (+\$6.9M) positive variance is due to performance of the Cold and Dark and Sampling and Characterization/Waste Identification Form teams (D4); overhead allocations, less than anticipated resources for Program Management and C-3 Sampling; lower than planned costs for capital equipment (D4), and less asbestos abatement required for 200W buildings. This is offset by increased material and equipment costs, increased use of masks and respirators due to the unexpected asbestos levels in the ancillary buildings in U Ancillary (D4), coupled with increased insulator staff and the use of overtime to recover schedule, 200E Administration and 209E Project delays, less resources required at U Canyon (D4), and Usage Based Services higher than planned. The RL-0040.R1.2 Outer Zone D&amp;D positive variance (+\$12.6M) is due to efficiencies in Arid Lands Ecology (ALE), North Slope Facilities, disposition of railcars D&amp;D, and Outer Area waste sites. The waste site favorable cost-to-date variance is primarily due to an O-Zone Remove, Treat, and Dispose (RTD) Waste Sites adjustments (pass back) to ERDF waste disposal costs reflecting the operational efficiencies of the super dump trucks. Within the waste sites area, this favorable cost variance is partially offset by higher than planned costs associated with remediation of pipelines. A negative cost variance is associated with increased costs for the 212N/P/R Project due to the walls of the basins being much thicker than estimated. The RL-0041 negative variance (-\$1.5M) is due to higher costs for the Utilities Project than planned.</p>									

**FORMAT 5, DD FORM 2734/5, EXPLANATION AND PROBLEM ANALYSIS**

<p><b>Impact:</b></p> <p><b>Current Period Schedule:</b> For RL-11R.1 current period reflects upward trend in schedule performance. The RMA/RMC process line schedule performance improved 3%. For RL-0013, current period, there is no impact. For RL-0030, there are no impacts, work complete. For RL-40.R1.1, and RL-40.R1.2, the current period schedule impacts are the same as the CTD schedule impacts (see below). For RL-41.R1.1 the current period schedule impacts are the same as the CTD schedule impacts (see below).</p> <p><b>Current Period Cost:</b> For RL-11.R1, cost performance improved this period 4.7%, and 11.6% in the RMA/RMC process line work. For RL-0013 no impacts at this time. For RL-0030, there are no impacts, work complete. For RL-40.R1.1, and RL-40.R1.2, there is no significant cost impact for the current period. For RL-40.R1.1, and RL-40.R1.2, there is no significant cost impact for the current period. For RL-41.R1.1 no impacts at this time.</p> <p><b>CTD Schedule:</b> For RL-11.R.1 work scope is projected to finish on schedule. Although the trend in the first quarter of FY12 is not favorable, the impacts during this period have (for the most part) been resolved and are not indicative of future work. For RL-0013 CTD there is no impact. For RL-0030, there are no impacts, work complete. For RL-40.R1.2 O-Zone waste sites the schedule variance will be accepted in order to achieve the footprint reduction goals. For RL-40.R.1.1 D&amp;D structure demolition activities are being accelerated where they can to offset where other demolition activities are delayed. For RL-41.R1.1 no impacts at this time.</p> <p><b>CTD Cost:</b> For RL-11.R1 the VAC reflects expected improved efficiency in completing remaining ARRA work scope. Also, the ARRA to Base change has been reflected in the EAC, but is not yet reflected in the BAC. BCR 011-R11-12-001R0, <i>Realignment of ARRA KPP Work Scope</i>, will be implemented in February. For RL-13, the overall positive cost impact is due to project efficiencies. For RL-0030, there are no impacts, work complete. For RL-40.R1.1, and RL-40.R.1.2 there is overall positive cost impact due to project efficiencies. For RL-41.R1.1, costs will be monitored.</p>
<p><b>Corrective Action:</b></p> <p><b>Current Period Schedule:</b> For RL-11.R.1 see CTD Schedule. For RL-0013, no corrective actions required. For RL-0030, no corrective actions required, work is complete. For RL-40.R1.1 and RL-41.R1.1 the current period schedule corrective actions are the same as CTD schedule corrective actions (see below). For RL-40.R1.2 O-Zone waste sites, there is no corrective action required. For RL-41.R1.1 the current period schedule corrective actions are the same as CTD schedule corrective actions (see below).</p> <p><b>Current Period Cost:</b> For RL-11.R1 no corrections are planned. For RL-0013, no corrective actions required. For RL-0030, no corrective actions required, work is complete. For RL-40.R1.1 U-Plant current cost variances can be covered by efficiencies in other D&amp;D areas. For RL-40.R1.2 O-Zone Waste Site there is no required corrective action for the current period cost variance. For RL-41.R1.1 current period cost corrective actions are the same as the CTD cost corrective actions (see below).</p> <p><b>CTD Schedule:</b> For RL-11.R1 overtime will be used in selected areas to recover schedule, and a focused effort is in place to have multiple work packages available so alternative scope can be worked should problems arise with the package being worked. Resources have been identified in the detailed field execution schedule, which assists with more efficient resource utilization. The lifecycle performance measurement baseline underwent an independent joint CHPRC and DOE-RL review in December 2011; comment resolution is expected by February 2012. For RL-0013, no corrective action required. For RL-0030, no corrective actions required, work is complete. For RL-40.R1.2 O-Zone waste sites the schedule variance will be accepted in order to achieve the footprint reduction goals. For RL-40.R.1.1 D&amp;D structure demolition activities are being accelerated where they can to offset where other demolition activities are delayed. For RL-41.R1.1 has implemented a baseline change request (BCR) to address additional soil contamination (realized risk). Schedule recovery actions are being evaluated to recover the D&amp;D structure demolition and waste site remediation schedule activities where they can to offset where other demolition and remediation activities have been delayed.</p> <p><b>CTD Cost:</b> For RL-11.R1 no specific actions are planned at this time. The lifecycle performance measurement baseline underwent an independent joint CHPRC and DOE-RL review in December 2011; comment resolution is expected by February 2012. For RL-0013, no corrective action required. For RL-0030, no corrective actions required, work is complete. For RL-40.R1.1 and RL-40.R.1.2, no corrective actions are required at this time. For RL-41.R1.1, no corrective actions are required at this time.</p>
<p><b>Monthly Summary:</b> (to include technical causes of VARs, Impacts, and Corrective Action(s):</p> <p>All ARRA Subproject's cumulative to date cost and schedule variances are within reporting thresholds. Overall, the current period schedule and cost variances are mixed between favorable and unfavorable performance. The RL-0011 current month schedule variance is a result of inability to work planned shifts in RMA/RMC process lines due to key resource absence during holiday week, lack of work package backlog, and D&amp;D work restriction. Delays in demolition of the ZB Complex result from more effort required to ready 2736-ZB for demolition and time lost recovering from an un-sampled waste water incident. The Hanford site closure for inclement weather also contributes to the unfavorable variance. The RL-0013 negative schedule variance is within reporting thresholds and is the result of schedule recovery for Layup activities partially offset by early completion of MLLW returns. The RL-0013 negative cost variance is the result of ARRA Layup schedule without commensurate costs, accruals reversed in December (no invoice or re-accrual made) and corrections of start-up anomalies from ARRA to base-funded work scope. Overall, the ARRA workscope in RL-30 was completed in FY2011. There will be a few remaining costs transactions as contracts are closed and final billing completed. The RL-40 R1.1 U Plant/Other D&amp;D unfavorable cumulative to date schedule variance was reduced slightly this month with the favorable cost variance slightly eroding due to current month cost and schedule variances resulting from reduced work schedule due to heat stress and increase effort required for the mock up for the 209E Stimulus-Semi Works Zone project. RL-40.R1.2 Outer Zone D&amp;D unfavorable current month schedule variance results from delaying RTD Waste Sites and pipelines and performance taken in prior months for disposition of rail cars and the favorable cumulative cost variance continue to increase mainly from pass-backs from ERDF. The RL-41.R1.1 100K Area is within reporting thresholds.</p>
<p><b>Contractually Required Cost, Schedule, EAC variance, Management Reserve Use</b></p> <p><b>Variance in Performance BAC and EAC:</b> The variance at complete (VAC) between the BAC and EAC this month is positive \$24.2 million and 1.8%. This variance is within threshold for the Project. For information, the VAC threshold limit is +or- 5% and +or- \$15 million.</p>

**FORMAT 5, DD FORM 2734/5, EXPLANATION AND PROBLEM ANALYSIS**

<b>Format 1 and 3 Contract Data:</b>			
<b>Contract Price Adjustments</b>			
<b>ARRA ONLY</b>			
<b>CPs - In Process</b>			
		<b>Total Authorized Unpriced Work</b>	-
<b>Approved Adjustments to Contract Price (not reflected in B.4-1 Table)</b>			
		<b>Total Negotiated Cost Changes</b>	<b>1,986,330</b>
		<b>Grand Total Adjustments</b>	<b>1,986,330</b>
<b>Use of Management Reserve:</b> ARRA MR was unchanged (\$0.0) in January 2012.			
<b>Best/Worst/Most Likely Estimate:</b> The Best EAC is the EAC reported this month, which assumes all efficiencies gained contract-to-date will remain at completion with no use of management reserve. The most likely EAC is the EAC reported this month plus the to-go (available) management reserve, which assumes all efficiencies gained contract-to-date will remain at completion but all available management reserve is used (e.g., all identified risks realized). The worst EAC is the BAC reported this month plus the to-go (available) management reserve, which assumes all efficiencies gained contract-to-date will be eroded at completion and all available management reserve is used (e.g., all identified risks realized). The Best/Worst and Most Likely EAC values are documented in the Format 1 Report.			
<b>Prepared by:</b> Project Control Staff	<b>Date:</b> 1/31/2012	<b>Approved by:</b>	<b>Date:</b>

(1) = Trench Face Process System; (2) = Trench Face Retrieval & Characterization System; (3) = Remove, Treat and Dispose; (4) = Confirmatory Sampling/No Action; (5) Project Specific Distributables Rewards & Recognition Program; (6) Defense Contract Audit Agency

# Appendix B

## Milestones

## Metrics



January 2012  
CHPRC-2012-01, Rev. 0  
Contract DE-AC06-08RL14788  
Deliverable C.3.1.3.1 - 1

## 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 PMB Revision 3, implemented in November 2011, and subsequent approved BCRs define CHPRC planning with respect to TPA milestones. The following table is a one year look ahead of commitments and TPA enforceable milestones and non-enforceable target due dates.

Milestone	Title	Type	Due Date	Actual Date	Forecast Date	Status/ Comment
<b>DNFSB 120W</b>	Complete Sludge Treatment	DNFSB	11/30/09			A pending Implementation Plan (IP) update will address this milestone.
<b>M-015-70-T01</b>	Submit Feasibility Study Report and Proposed Plan for the 100-HR-1, 100-HR-2, 100-HR-3, 100-DR-1 and 100-DR-2 Operable Units for Groundwater and Soil	TPA	11/24/11		1/12/12	Target due date missed; received RL contract direction to work toward indicated forecast date. New forecast date extension being discussed with RL to accommodate document modifications to be consistent with 100K RI/FS.
<b>M-015-68-T01</b>	Submit CERCLA RI/FS Report and Proposed Plan for the 100-BC-1, 100-BC-2 and 100-BC-5 Operable Units for groundwater and soil.	TPA	11/30/11		3/15/12	Target due date missed; received RL contract direction to work toward indicated forecast date. New forecast date extension being discussed with RL to accommodate document modifications to be consistent with 100K RI/FS.

Milestone	Title	Type	Due Date	Actual Date	Forecast Date	Status/ Comment
<b>M-015-64-T01</b>	Submit RI/FS Report and PP for 100-FR-1/2/3 and 100-IU-2/6	TPA	12/17/11		5/14/12	Target due date missed; received RL contract direction to work toward indicated forecast date. New forecast date extension being discussed with RL to accommodate document modifications to be consistent with 100K RI/FS.
<b>C-010-21</b>	Hanford Site Waste Mgmt Units Report Generated Annually	TPA	02/29/12			On Schedule
<b>M-091-40L-033</b>	Submit Oct-Dec 1 <sup>st</sup> Quarter Burial Ground Sample Results	TPA	3/15/12		2/28/12	On Schedule
<b>M-016-171</b>	Complete K Basin Sludge Treatment & Packaging Technology Evaluation Report	TPA	3/31/12			On Schedule
<b>C-026-07G</b>	Tritium Treatment Technology Developments to Ecology & EPA	TPA	3/31/12			On Schedule
<b>M-037-03</b>	Submit Revised Closure Plans for 216-B-3 and 216-S-10	TPA	4/30/12			At risk and not funded by CHPRC. RL is negotiating a 30-month extension of this milestone due date with Ecology. A 90-day notification to the regulator that the milestone is in jeopardy was provided to

Milestone	Title	Type	Due Date	Actual Date	Forecast Date	Status/ Comment
						Ecology January 30, 2012.
<b>M-024-58E</b>	Initiate Discussions of Well Commitments	TPA	6/1/12			On Schedule
<b>M-091-40L-034</b>	Submit Jan-Mar 2nd Quarter Burial Ground Sample Results	TPA	6/15/12			On Schedule
<b>M-015-110D</b>	Submit Tc-99 Pilot Scale Treat. Study Test Rpt for 200-WA-1/BC-1	TPA	6/30/12			On Schedule
<b>M-083-24</b>	Submit PFP S&M Plan Pursuant to Agreement Section 8.5.4	TPA	6/30/12			On Schedule – The plan has been transmitted to RL 9/29/11. The milestone will be complete once it is transmitted to the regulator.
<b>M-091-03F</b>	Submit Annual Revision of TRUM and MLLW PMP to Ecology	TPA	6/30/12			On Schedule
<b>M-024-63-T01</b>	Conclude Discussions of Well Commitments	TPA	8/1/12			On Schedule
<b>M-016-120</b>	GW Treatment System <50 gpm for Tc-99 Plume at S/SX Tank Farm	TPA	8/30/12			On Schedule

Milestone	Title	Type	Due Date	Actual Date	Forecast Date	Status/ Comment
<b>M-091-40L-035</b>	PMM Submittal Apr-Jun 3rd Qtr FY12 Burial Ground Sample Results	TPA	9/15/12			On Schedule
<b>M-015-62-T01</b>	Submit FS/PP for 100-NR-1/2 OUs Including GW and Soil	TPA	9/17/12			Target due date will be missed: currently negotiating new forecast date with RL to incorporate document modifications to be consistent with 100K RI/FS.
<b>M-016-172</b>	Complete KOP Material Removal from 105-KW Fuel Storage Basin	TPA	9/30/12			On Schedule
<b>M-085-01</b>	Submit Change Package to Establish Date for M-85-00	TPA	9/30/12			On Schedule
<b>M-091-40U-T01</b>	Retrieve a Minimum of 250 Cubic Meters CH RSW in FY 2012	TPA	9/30/12			Activity currently not funded
<b>M-091-46B-T01</b>	Certify 300 Cubic Meters of Small Container CH TRUM Waste	TPA	9/30/12			Activity currently not funded

## Metrics

### ARRA Metrics

Sub-Project	KPP	Key Metric	Unit of Measure	Cumulative through January 31, 2012
Plutonium Finishing Plant D&D	Building 234-5Z Process and Laboratory areas ready for demolition	Glove boxes removed from 234-5Z	# Glove boxes	134
		Low-level waste removed from PFP	m3	3,080
		TRU waste removed from PFP	m3	794
	20 Ancillary buildings ready for demolition	Ancillary facilities/structures and fuel vaults ready for demolition	# facilities	31
U-Plant/Other D&D	Complete deactivation, decontamination, decommissioning, and demolishing (D4) of 16 facilities	Nuclear facilities completed	# facilities	2
		Industrial facilities completed	# facilities	18
		Radiological facilities completed	# facilities	5
		Facility placed in cold and dark/demolition ready	Sq. feet	227,997
		Facility dispositioned	Sq. feet	235,060
	ARRA RL-0040.R1.1 U Plant/Other D&D	D&D Debris	m3	42,034

### Base Metrics

Measure/Units	PBS	1st Qtr	Jan	Feb	Mar	2nd Qtr	3rd Qtr	4th Qtr	FYTD	Contract-To-Date
Nuclear Facility Completions (# of facilities)	40/41	0	0	0	0	0	0	0	0	0
Radiological Facility Completions (# of facilities)	40/41	0	0	0	0	0	0	0	0	6
Industrial Facility Completions (# of facilities)	11/40/41	0	0	0	0	0	0	0	0	41
Remediation Complete (# of release sites)	40/41	4	0	0	0	0	0	0	4	11
PRF Canyon Pencil Tanks Removed	11	10	10	0	0	10	0	0	20	35
MultiCanister Overpacks Shipped	12	0	0	0	0	0	0	0	0	0
Settler Tubes Retrieved	12	0	0	0	0	0	0	0	0	10
Knock Out Pots Shipped	12	0	0	0	0	0	0	0	0	0
Sludge Transportation & Storage Canisters Shipped	12	0	0	0	0	0	0	0	0	0
CH Transuranic Waste shipped for disposal at WIPP (cubic meters)	13	0	0	0	0	0	0	0	0	0
Low level and Mixed Low-Level Waste Disposal (cubic meters)	13	0	0	0	0	0	0	0	0	2,885
WESF K3 Filter Measurements	13	3	1	0	0	1	0	0	4	16
SW Ops Complex Container Inspections	13	13	4	0	0	4	0	0	17	69
Contaminated Groundwater Treated (million gallons)	30	303	101	0	0	101	0	0	404	2,379
Preventive Maintenance Packages Completed	40	100	14	0	0	14	0	0	114	589

# Appendix C

## Project Services and Support (WBS 000)



**T. L. Vaughn**  
Vice President for  
Safety, Health, Security  
and Quality

**K. A. Dorr**  
Vice President for  
Engineering, Projects  
and Construction

January 2012  
CHPRC-2012-01, Rev. 0  
Contract DE-AC06-08RL14788  
Deliverable C.3.1.3.1 - 1

**M. N. Jaraysi**  
Vice President for  
Environmental Program  
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**K. G. Tebrugge**  
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**R. M. Millikin**  
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Prime Contract and  
Project Integration

**V. M. Bogenberger**  
Vice President for  
Business Services  
Chief Financial Officer

## PROGRAM SUMMARY

Project Services and Support functional activities continue to provide support and technical services to all CHPRC projects as well as central management of cross-cutting services.

### EMS Objectives and Target 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 PMB Revision 3, implemented in November 2011, and subsequent approved BCRs define CHPRC planning with respect to TPA milestones. The following table is a one year look ahead of commitments and TPA enforceable milestones and non-enforceable target due dates.

Objective #	Objective	Target	Due Date	Status
12-EMS-ADMIN-OB1-T1	Maximize the acquisition and use of environmentally preferable products.	Work with P-Card holders in 2420 Stevens Center Place to ensure 90% of all office supplies procured from PSS in 3rd and 4th quarter FY12 are recycled or biobased products, or have a justified exclusion.	10/5/12	On Schedule.
12-EMS-ADMIN-OB2-T1	Reduce the generation of waste at the source and depletion of environmental resources through post-consumer material recycling.	Implement zero waste practices at one CHPRC company events. Tally weight of food waste; aluminum, plastic, cardboard, and trash to establish first attempt baselines for CHPRC events.	9/15/12	On Schedule.
12-EMS-ADMIN-OB3-T1	Reduce depletion of environmental resources through post-consumer material recycling.	Consolidate all excess furniture, equipment, and office supplies from vacated buildings and reintroduce materials into the supply chain.	9/30/12	On Schedule.
12-EMS-EPC-OB1-T1	Maximize the acquisition and use of environmentally preferable products in the conduct of operations.	A bag of Nature's Broom Absorbent will be stationed at the 2610E Building and when a spill occurs, the Nature's Broom Absorbent will be used to absorb the spill. Following the use, an assessment will be made of the product's viability as an adequate substitute for the Balcones Minerals Corporation Absorb-n-Dry All Purpose Absorbent Clay.	9/30/12	On Schedule.

Objective #	Objective	Target	Due Date	Status
12-EMS-EPC-OB1-T2	Reduce depletion of environmental resources through post-consumer material recycling.	America's Choice Motor Oil, a Biopreferred product is 100% re-refined motor oil. The America's Choice Motor Oil will be substituted for Chevron Delo 400 in an EPC piece of equipment or machinery. An assessment will be made of the product's viability as an adequate substitute for Chevron Delo 400 motor oil.	9/30/12	On Schedule.

## TARGET ZERO PERFORMANCE

	Current Month	Rolling 12 Months	Comment
Days Away, Restricted or Transferred	0	0	N/A
Total Recordable Injuries	0	0	N/A
First Aid Cases	0	2	N/A
Near-Misses	0	0	N/A

## KEY ACCOMPLISHMENTS

### Safety, Health, Security, and Quality (SHS&Q)

- Project Services and Support functional activities continue to provide support and technical services to all CHPRC projects as well as central management of cross-cutting services. As of January, the PRC Functional Program organizations continued to be Recordable case-free having accumulated over 1,300,000 person hours worked without a recordable injury (over 1 3/4 years) and over 2,500,000 person hours worked (over 3 1/4 years) without a DART case.
  - o Occupational Safety and Industrial Hygiene (OS&IH) accomplishments:
    - Continued support of site wide standards committees.
    - Continued implementation of two new site wide standards: DOE-0346, *Hanford Site Fall Protection Program (HSFPP)*, and DOE-0360, *Hanford Site Confined Space Procedure (HSCSP)* for subcontractor work activities.
    - Continued progress with the corrective action plan associated with the CHPRC (and multi-contractor) Beryllium Characterization Project.
    - Completed and submitted the Annual Beryllium Registry to site occupational medical provider.

- Completed technical specifications and guidance for the procurement of chemical protective clothing.
- Participated in the 200W Pump & Treat Joint Quality Assurance and Safety oversight strategy meeting with RL.
- Revised PRC-PRO-SH-40078, *Contractor Safety Process*, to clarify the role of the Safety & Health professional performing oversight activities and provided additional guidance in the Job Hazard Analysis process.
- o Emergency Preparedness (EP) accomplishments:
  - Sixteen drills were performed in January; six operational drills and two actual upset events.
  - Supported RL in presenting CHPRC Emergency Preparedness Program and Waste Encapsulation and Storage Facility (WESF) Beyond Design Basis Accident presentations to Defense Nuclear Facilities Safety Board (DNFSB) technical staff.
- o Radiological Control accomplishments:
  - Implemented pilot to field test the next phase of the electronic radiological survey report process that will eliminate the need to print and maintain hard copies. Implementation CHPRC wide is set for April 2012.
  - Continued to test neutron detection instrumentation to replace current instruments.
  - Completed annual personal dosimeter exchange process on schedule and without issues.
- o Operations Program accomplishments:
  - Prepared draft operating program procedure revisions to support implementation of DOE O 422.1.
  - Assisting in the development of pilot conduct of operations training modules. These allow flexibility to insert project specific lessons as they relate to the overall operations topics.
  - Supporting development of system specific training for maintenance personnel.
  - Participating in preparation and conduct of a Readiness Assessment (RA-3) for found Fuel and Multi Canister Overpack (MCO) operations.
- o Deliverables prepared and transmitted to RL in January from Nuclear Safety include:
  - Transportation Safety:
    - Email, dated December 15, 2011, *CHPRC-01376, Rev. 2, "External Securement Plan for 9x5x5, 8x4x4, and SLB2 Containers on an Open Deck Transporter."*
    - Email, dated January 10, 2012, *Acid LSP (Load Securement Plan)*.
    - Email, dated January 19, 2012, *R-SPA: SWOC-2011-006, "RP Acids."*
  - Documented Safety Analysis:
    - Letter, CHPRC-1200066, dated January 17, 2012, *Submittal of Annual Update to the Cold Vacuum Drying Facility*.
    - Letter, CHPRC-1200110, dated January 26, 2012, *CHPRC Submittal of Annual Update to Plutonium Finishing Plant Authorization Agreement*.
  - Documents Received from RL:
    - Email, dated January 9, 2012, *Approval of CHPRC-01376, Rev. 2, "External Securement Plan for 9x5x5, 8x4x4, and SLB2 Containers on an Open Deck Transporter."*
    - Email, dated January 11, 2012, *Acid LSP (Load Securement Plan)*.
    - Email, dated January 25, 2012, *R-SPA: SWOC-2011-006, "RP Acids."*

- Letter, dated January 31, 2012, *Transmittal of the Canister Storage Building (CSB) Final Safety Analysis Report (FSAR), Revision 8, and CSB Building Technical Safety Requirements (TSR), Revision 7, for Approval.*
  - o Performance Assurance accomplishments:
    - Fieldwork for an RL/EM-22 assessment of the Contractor Assurance/Corrective Action Management program was completed. This assessment covered CHPRC, Mission Support Alliance, and Washington Closure Hanford. The out brief for CHPRC resulted in two good practices, five opportunities for improvement, and three track-until-fixed items.
    - Performance Oversight completed an assessment (SHS&Q-2012-MA-10728) of Integrated Corrective Action Plan (ICAP) sustainability. Overall, the assessment found that the improvement actions remain in place and are effective. Four opportunities for improvement and two trend only items were identified.
    - The Apparent Cause Evaluation report for the DNFSB-identified Weakness in the CHPRC Assessment program was completed in January. Analysis identified two causes: (1) The knowledge, skill, and ability of the assessment personnel were insufficient to identify regulatory and programmatic based issues, and (2) Organizational assessment authority and accountability were not enforced for identifying and resolving issues. Corrective actions are underway.
    - Project and program personnel completed four evaluations identified on the Integrated Evaluation Plan schedule as related to feedback and improvement.
  - o Quality Assurance Accomplishments:
    - Completed the Advanced Basic Quality Control Inspector certification.
- Status of SHS&Q Focus Areas:
  - o **Issue:** Beryllium program assessment findings from U. S. Department of Energy, Headquarters, Office of Safety, Health and Security Independent Oversight Inspection report.  
**Status:** Development of Beryllium Corrective Action Plan (CAP) products.  
**Action:** Implementing CHPRC actions and supporting site-wide actions per the approved CAP.
  - o **Issue:** Implementation of Integrated Corrective Action Plan.  
**Status:** Actions complete; RL closure is complete.  
**Action:** Assessment SHS&Q-2012-MA-10728 found that the ICAP improvement actions remain in place and are effective.
  - o **Issue:** Transfer of Radiological Site Services from Pacific Northwest National Laboratory to MSA. Concern regarding impact of these services on CHPRC.  
**Status:** RL has targeted April 2012 for transfer of Instrumentation Services and October 2012 for transfer of Dosimetry Services.  
**Action:** CHPRC will revise statements of work and internal procedures to support this transfer.
  - o **Issue:** Issuance of new DOE O 458.1, *Radiation Protection of the Public and the Environment*, without implementation guide.  
**Status:** Developing Environmental Radiation Protection Plan; RL to include in J.2 attachment of PRC contract.  
**Action:** Plan under development.
  - o **Issue:** Centralization of Project SHS&Q resources.  
**Status:** Complete.  
**Action:** Continuing to monitor interface with new SHS&Q organization within Projects.

- o **Issue:** Asbestos Employee Concern.  
**Status:** Site wide actions underway.  
**Action:** Working with other site contractors and RL to barricade, post, sample, and remediate areas of concern.

## **Environmental Program and Strategic Planning (EP&SP)**

### **Environmental Management System**

- Four EMS Targets have been completed and all other FY2012 Targets are on schedule.
- The 2012 EMS Communication Plan was finalized and includes Blog spots, Posters, Insight videos, Thinking Target Zero, and the Safety Tailgate. The first monthly theme (preparing for ISO 14001 registration) was implemented.
- Seven CHPRC nominations were submitted for the annual DOE E-Star Pollution Prevention awards:
  - o U Canyon Sustainable Practices for Demolition
  - o Avoiding Waste Generation via Excess Property Transfer for 16 Roll-off Boxes
  - o Rail Car Historic Preservation Project
  - o Halon Reuse via Transfer to Defense Logistics Agency
  - o Next Generation Waste Retrieval and Packaging
  - o Pump and Treat Resin Replacement
  - o Use of Soil from D&D Activities for Backfill.

### **Environmental Protection**

- The Eagle Take Permit Amendment for the 100K and 100H Areas was issued by U.S. Fish and Wildlife Service on January 12, 2012. This allows limited D&D/Soil and Groundwater activities to occur near the Bald Eagle roosts in these areas.
- EPCRA Tier 2 report information and certification was provided to MSA on January 23, 2012.
- Hanford Site Underground Injection Control (UIC) Wells – Results of a review of Hanford Site UIC wells for their relation to CHPRC projects and facilities were submitted to RL.
- Inspections:
  - o An inspection of the Interim Storage Area within in the 400 Area Waste Management Unit was conducted by Ecology. They have expressed concerns over the frequency of inspection of the area. No formal feedback on the inspection has been received.
  - o Three inspections were closed out by WDOH:
    - WRAP: No issues or findings.
    - 209E: No issues or findings.
    - CSB Radioactive Air Emissions Unit: Minor issues were noted and all have been resolved.
- Discharge to TEDF: On January 3, 2012, Liquid Waste and Fuel Storage (LWFS) was notified by PFP of an inadvertent discharge into the 200 Area TEDF system from D&D activities associated with demolition of a building at PFP. In consultation with Ecology and RL, a consensus decision to discharge the wastewater was obtained.

### **Environmental Quality Assurance**

- Completed Management Observations (MOPs) on CWC/LLBG 90-Day storage on Trench 31 and overall record keeping. One finding regarding missing SAA records was found and is being tracked in CRRS, CR-2012-0071.
- Developing tool that will help track and trend company-wide environmental assessment results.

## Business Services

### Acquisition Planning

- Project & System Integration developed coding for procurement activities to be added to the Project Field Execution Schedules. Projects requested to enter code into schedule by February 9, 2012. This will be used to create a company-wide procurement schedule.
- Developing two attachments for Acquisition Plan. One attachment will be a table of planned procurement activities for remaining years of Contract. Second attachment will be a summary of procurements listed by PBS.
- Continued to support and participate in Supply Chain Simplification project.

### Facilities

Demobilization activities continued for the removal of ARRA Mobile Offices at 209E, U Plant and the 12B Burial grounds. Facilities and Property Management is assisting the Sludge Treatment Project in providing facilities from existing locations for transfer to 100K in support of Annex Construction.

### Finance

- Submitted the 1<sup>st</sup> Quarter FY2012 Institutional cost report to RL.
- Continue to work closely with RL to ensure adequate funding is authorized on the CHPRC contract to cover planned costs.
- Submitted monthly RL cost invoice, Contract funding limitation of funds report and Contract funds status report.

### Procurement

- For the month of January 2012, the Procurement group awarded 51 new contracts with a total value of \$5.2M, amended 451 existing contracts with a total value of -\$8.7M, for a grand total of -\$1.8M. Awarded 179 new purchase orders valued at \$507K to support ongoing project objectives.
- As measured at the end of the first 40 months, procurement volume has been significant; \$1.88B in contract activity has been recorded with approximately 50% or \$937M in awards to small businesses. ARRA funded activity totals 37% or \$706M of the grand total. This includes 5,547 contract releases, 11,875 purchase orders, and over 190,000 P-Card transactions.
- Internal Audit performed an assessment on invoice payment practices, which was closed in January with no procurement findings. All invoices questioned by the auditor were resolved without issues.

### Material Services

- Held a meeting for all P-Card Holders to discuss changes that had been made to the P-Card system and updates made to Annual P-Card Training and the P-Card Holder User's Manual including new requirements for preapproval and acknowledgement of receipt of ordered items. The Environmental Management System (EMS) Coordinator presented EMS objectives and the Buying Green catalog. Also discussed gifts, gratuities, and rebates.
- Updates to Annual P-Card Holder and Approving Manager Training were completed and made available on line.
- Imbedded signed Commercial Grade Inspection (CGI) documents into a number of Quality Level 1 and 2 Asset Suite Catalog IDs. CGI documents are required whenever Quality Level parts are required but can't be purchased from a supplier on the Evaluated Supplier List. This practice ensures that the CGI documents are immediately accessible if an audit requires them.
- Spare Parts Subject Matter Expert provided spare parts training to Solid Waste Design Authorities (DAs). Also supported P-Card Administration with several database queries to proactively look at P-Card data.

- Worked with MSA, K-West DA and K-West Quality Assurance Engineer (QAE) to resolve a problem with Immersion Pail Inflatable Seals. These are Shelf Life Items, and were replenished last year because the old seals had expired. The normal method to replace Shelf Life items is to make sure the new ones come in, to excess the old ones. In this case, a miscommunication between CHPRC Spares and Asset Control kept the old ones on the shelf. To exacerbate the problem, the new seals were not entered into Asset Suite when they arrived, even though Warehouse personnel later found the new seals on the shelf. When the DA called for the seals to be pulled from inventory, the old expired seals were pulled. This led to a Nonconformance Report being written by the K-West QAE. MSA is working that issue with Asset Control and Warehouse personnel.

### Training & Procedures

- Software development for the new PRC Procedures System (PPS) continues. Conducting a full review of the PPS development status and estimated roll out is on schedule.

### Prime Contract and Project Integration (PC&PI)

- In January, Prime Contracts received and processed three (3) contract modifications (numbers 203, 208 and 209) from RL. The Correspondence Review Team reviewed and determined the distribution for 23 incoming letters and the Contract Compliance Manager reviewed 29 outgoing correspondence packages.
- Work continued on Change Order #180, *Sludge Transfer Annex Facility Construction*. During the month of January an Estimate Plan was prepared and a Kick Off Meeting held for the development of the associated Change Proposal. Change Order #180 is tracked in the RL FY 2012 Key Performance Goals as a Change Order Required to be finalized within 180 days of receipt by the Contractor. The due date for definitization of this Change Order to achieve the metric is June 17, 2012.
- Work continued on finalization of a Change Proposals in response to Change Order #111, *100-K Waste Sites, Operational Areas AA, AG, AH and AM*, prospective Change Order #112, *100-K Waste Sites, CSNA to RTD*, Change Order #173, *Pre-conceptual planning for K Basins Sludge Treatment Phase 2*. Final “Green Team” reviews were held for all 3 Change Proposals and each are in final preparation for formal submittal to RL. In addition, a briefing was provided to RL on Change Order #111 to address the method utilized to segregate the actual cost that comprises the value of the proposal. Change Order #173 is tracked in the RL FY 2012 Key Performance Goals as a Change Order Required to be finalized within 180 days of receipt by the Contractor. The due date for definitization of this Change Order to achieve the metric is March 19, 2012.
- During January, the draft estimate for Change Order #113, *Deductive Change, 216-Z-9 Facility Structural Evaluation and Lessons Learned*, was completed.
- During January, representatives of Contract Compliance & Change Management met with representatives of the Sludge Treatment Project to discuss scoping of a potential Change Order for 100 K West Basin Garnet Filter Media Disposition. The as found contamination characteristics of the Garnet Filter Media was identified to RL as a change in condition as they require a revised disposition strategy from that currently identified. The internal CHPRC discussions were held to determine the best strategy for “chunking” the scope of a potential Change Order should RL concur they constitute a change in condition.
- Work continued to implement the software, processes, documentation and training associated with the enhanced Timberline estimating system. Efforts during January focused on completion of open punch list items required to be complete for declaration of readiness for RL review of the system. The declaration of readiness for RL review of the system is planned for submittal to RL in early February 2012. Declaring readiness for the RL review is the remaining corrective action associated

with the Contract Change Management Processes and Deliverables Management Assessment conducted in April 2011.

- The CHPRC Estimating group prepared 21 waste site remediation estimates at the request of the CHPRC and RL K Basins Closure Projects to aid RL's preparation of our year budget requests for remediation of waste sites not current in the Plateau Remediation Contract. These estimates were prepared utilizing the waste site estimating assemblies developed using the Timberline estimating system.
- The CHPRC Estimating group prepared an estimate for the Strategic Integration Group regarding the cost of treatment equipment to be included in the Remedial Investigation Field Study (RIFS) for the UP-1 Operable Unit (an addition to the 200 West Pump and Treat system).
- Contract Compliance & Change Management along with the D&D Project and Strategic Planning & Risk Analysis organizations presented to RL CHPRC's initial proposal for a 100-K Area Waste Site Remediation Changes Model. CHPRC is evaluating RL's comments and concerns on the proposal and will respond to RL once this is complete.
- Completed three Control Account Manager (CAM) workshops regarding earned value management, readying CHPRC for EVMS surveillance, still targeted for early spring. In addition, preparations being made to perform mock interviews of selected CAMs, targeted for late February.

### **Engineering, Projects and Construction (EPC)**

- Central Engineering (CE) participated in the DOE-HQ led peer review of the Savannah River Site Mixed Oxide (MOx) Facility construction project. The review is a part of the ongoing RL effort to improve project management performance. Team members were selected from throughout the RL complex based on Project Management knowledge and performance on previous reviews.
- CE has prepared an interim Non-Conformance Report (NCR) disposition to address deficiencies with 3 repaired PVC joints in ASME B31.3 piping at the 200 West Pump & Treat facility. Specified qualification testing/demonstration will be performed to establish a basis to accept (as-is).
- George Jackson successfully completed the US Green Building Council exam to become the first CHPRC certified Green Associate. The Green Building Certification Institute (GBCI) has created the LEED Green Associate credential, which denotes basic knowledge of green design, construction and operations.
- CE prepared for the KW Annex final design review. CE staff members will be chairing and reviewing the design documents for the KW Annex structure that will support the Engineering Container Retrieval and Transport System (ECRTS).
- CE is performing welding procedure qualification activities in support of the planned repair of fan impeller weld cracks for the System 25A exhaust fans. A242 Stainless steel materials have been received at the PFP and will be utilized in the development of a Welding Procedure Specification.
- CE supported RL in the review and comments of WHC-SD-GN-ER-30038 Revision 1 – DRAFT, Assessment of Volcanic Hazards for the U.S. Department of Energy Hanford Site Richland, Washington and provided.
- CE is supporting questions regarding Commercial Grade Dedication (CGD) for lubrication used on safety systems. CE staff members met with the Energy Facilities Contractors Group (EFCOG) subcommittee chair on CGD to discuss complex wide application, site wide application and associated drivers. Staff also attended a PFP training session/discussion on CGD application at PFP.
- CE participated in the PFP Closure Project Disposition Planning for Analytical Laboratory Glovebox 145-1 D&D meeting to discuss/evaluate options for the removal of the large glovebox (14' long, 9'

high, and 4' wide) from 234-5Z for shipment to Perma-Fix NW without incurring the high cost estimated by CHPRC for penetrating the exterior wall of the 234-5Z building.

- CE is supporting Nuclear Safety in the resolution of the CHPRC Condition Report # CR-2011-1389 regarding the Super 7A Ductile Brittle Fracture Issue raised by RL; that the material does not have a fracture toughness to prevent failure by Brittle Fracture at -40 degrees F.
- CE reviewed draft presentation material for an implementation plan for DOE-0359, Hanford Site Electrical Safety Program, and provided comments to the CHPRC electrical safety SME.
- CE participated in the monthly EFCOG Engineering Practices Working Group Fire Protection Subgroup teleconference. Information from the call was shared with the CHPRC Fire Protection Engineering organization and the Project Chief Engineers (for sharing with the Fire Protection System Engineers).
- CE identified configuration baseline drawings for EPC assigned electrical systems and verified that work complete design changes have been incorporated to satisfy PRC-PRO-EN-20050.
- CE met with CWC personnel on two separate occasions to resolve issues regarding working clearance around electrical equipment located in the fire riser rooms at building 2403WA. The installation of air compressors resulted in inadequate working space as required by National Electric Code (NEC) article 110.26. A letter was sent to CWC projects describing 1) the as found condition 2) resulting Code Violations, and 3) corrective actions needed.
- CE conducted a review and evaluation of the K-Basin Clear Well Retaining Wall at Substation A9 and provided a summary position, conclusion, and recommendation regarding the structural integrity of the wall and the path forward for the backfill of the clear well.
- CE submitted Condition Report CR-2011-3783 as a result of EPC-CMOP-12-046 for 200W P&T installed pump motors with inadequate NRTL labeling. CE is currently resolving corrective actions for 200W P&T installed inadequate Nationally Recognized Testing Laboratory (NRTL) labeled pumps and performing a review of 200W P&T and other S&GRP P&Ts to determine the extent of condition for inadequate NRTL labeled pumps.
- CE completed the independent/peer review and verification of both the calculations and the Facility Modification Package (FMP) for the STP ECRTS - Ingress/Egress Transfer System Pipe Assembly Foundation & Shielding. The FMP modifies the KW Basin floor at the Dummy Elevator Pit that is required for the installation of the STP Project Ingress/Egress Pipe Assembly.
- CE revised calculation PRC-STP-CN-C-00564, Drop Analysis of Knockout Pot System (KPS) Size Separation Unit to determine if a drop of the KPS Size Separation Unit during the installation could perforate the basin floor.
- CE assisted S&GRP engineering personnel by preparing and delivering the computer files necessary to complete validation and verification of a new stand-alone version of Power Tools for Windows. In use testing was complete, and the authorized user accounts have been updated.
- CE completed calculations for the Multi-Canister Overpack (MCO) Basket Grapple Structural Analysis. The grapple device is designed for engaging and lifting the MCO baskets.

## Communications

### Internal Communications

- Published five issues of the Weekly Update, featuring blog messages from Communications Director Kimberly Tebrugge, SHS&Q Vice President Terry Vaughn, Chief Legal Counsel Stan Bensussen, Environmental Protection Director Allan Cawrse, and EPC Vice President Kent Dorr.

- Produced three episodes of InSite, the weekly news program.
- Continued communications support for the project-wide winter safety campaign, including bi-weekly bulletins and posters, and supported planning to raise awareness of the upcoming EMS assessment.
- Supported Legal and the Ethics Committee with communicating the “Just Ask” mailbox.
- Developed safety presentation for Quarterly Subcontractor Safety Meeting.

#### **Media Relations**

- Supported RL in response to inquiries and employee concerns regarding asbestos.
- CHPRC was featured in an EM Recovery News Flash highlighting post-Recovery Act job placement.
- Developed a fact sheet summarizing cost savings resulting from resin efficiencies at the 100-HX and 100-DX groundwater treatment facilities.
- Published an advertisement in the *Tri-City Herald* highlighting footprint reduction remediation efforts.
- Demolition innovations from the 209E Critical Mass Laboratory demolition project were featured in *Engineering News-Record*.
- Construction of the 100-HX Groundwater Treatment Facility was featured in the *Nuclear Decommissioning Report*.
- Submitted advertisements and articles for the Waste Management Insight newsletters.
- Provided DOE-RL social media information on latest developments at the Plutonium Finishing Plant. New SLB2 containers arrived and two are loaded and ready for shipment.

#### **Public Involvement**

- Developed and submitted to RL a draft River Corridor Decision Documents Communications Plan that provides the roadmap for communicating the rollout of the documents with the tribes, the state of Oregon, the Hanford Advisory Board (HAB), key stakeholders and the public. The crux of the plan is the public involvement strategy. It also includes a media component.
- Developed and submitted to RL a Communications Strategy for rolling out a change in the approach for Interim Safe Storage (ISS) of the 105 KE Reactor. The strategy provides a roadmap for notifying the tribes, the state of Oregon, the HAB, and key stakeholders about how the RL plans to use a different method of ISS on the 105 KE Reactor. Developed a draft fact sheet to support the notification process.
- Developed and provided a four-page information sheet on the Hanford Prototype Barrier to support the Landfill Barriers Conference held at the Washington State Department of Ecology Feb. 1 and 2, 2012. The information sheet was used for stakeholders who attended a tour of the Prototype Barrier on January 31. Also provided 2 CDs (80 copies each) containing barrier-related documents and existing posters to support the workshop.
- Provided CHPRC input to the agency update that will be given by RL at the February HAB Meeting
- Began developing presentation materials for HAB River and Plateau Committee Meeting: to be held February 15. The 300 Area Remedial Investigation/Feasibility Study will be on the agenda.
- Provided support to the D&D Environmental team in developing a CERCLA fact sheet on the Completion of Final Design for Removal of K Basin Knockout Pot Material.

## PROJECT BASELINE PERFORMANCE

### Current Month

### (\$M)

WBS 000 Project Services and Support	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)
<b>Indirect WBS 000 Total</b>	8.4	8.4	6.3	0.0	0.0%	2.1	24.6%	1,030.2
<b>Communications</b>	0.1	0.1	0.1	0.0	0.0%	0.0	5.7%	14.8
<b>Safety, Health, Security and Quality</b>	1.2	1.2	0.7	0.0	0.0%	0.5	39.5%	120.7
<b>Environmental Program and Strategic Planning</b>	0.3	0.3	0.3	0.0	0.0%	0.0	13.5%	30.3
<b>Business Services</b>	5.7	5.7	4.4	0.0	0.0%	1.3	22.6%	738.6
<b>Prime Contract and Project Integration</b>	0.8	0.8	0.4	0.0	0.0%	0.4	47.8%	83.9
<b>Engineering, Projects and Construction</b>	0.3	0.3	0.4	0.0	0.0%	-0.1	-48.5%	41.9

Numbers are rounded to the nearest \$0.1M.

#### Indirect WBS 000

**CM Schedule Performance: (\$0.0M/0.0%)** – Schedule is Level of Effort.

**CM Cost Performance: (+\$2.1M/+24.6%)**

The primary contributor to the Current Month positive variance is Business Services due to a partial Pension payment pending receipt of full funding from RL.

## Contract-to-Date (\$M)

WBS 000 Project Services and Support	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)
<b>Indirect WBS 000 Total</b>	383.3	383.3	357.1	0.0	0.0%	26.3	7.4%	1030.2
Communications	7.4	7.4	6.8	0.0	0.0%	0.6	9.1%	14.8
Safety, Health, Security and Quality	57.9	57.9	62.8	0.0	0.0%	-4.9	-7.8%	120.7
Environmental Program and Strategic Planning	11.3	11.3	11.0	0.0	0.0%	0.3	2.9%	30.2
Business Services	255.4	255.4	229.1	0.0	0.0%	26.3	11.5%	716.6
Prime Contract and Project Integration	31.3	31.3	27.6	0.0	0.0%	3.8	13.7%	83.9
Engineering, Projects and Construction	20.0	20.0	19.9	0.0	0.0%	0.2	0.8%	41.9

Numbers are rounded to the nearest \$0.1M.

### Indirect WBS 000

**CTD Schedule Performance: (\$0.0M/0.0%)** – Schedule is Level of Effort.

**CTD Cost Performance: (+\$26.3M/+7.4%)**

In FY2009 through FY2011, the positive variance for PRC G&A and D&D activities was distributed by weighted percentage to the Base and ARRA PBSs. For FY2009, the variance resulted from lower than expected G&A costs due to company level and Other Hanford Pass-back, lower assessments from MSA for Other Provided Services to PRC, and with a labor underrun in project support staff related to ARRA Ramp up (+\$17.3M). For FY2010, the positive cost variance (+\$5.5M) was primarily attributed to disallowed FY2009 and FY2010 Home Office costs, underruns in the Retiree Insurance Program, and estimating software earned but not yet purchased; offset by lower than planned G&A from the projects due to delays in capital projects. The FY2011 positive cost variance of \$0.4M was primarily due to lower pension plan contribution, lower retiree insurance premiums and higher G&A from GPP/CENRTC projects. This was offset by increased staffing to support safety and work control programs, increased beryllium program costs, cost of radiation protection program equipment, and increased construction program support due to higher FY2011 construction activity. Beginning in FY2012, Project Services and Support (PS&S) cost is being distributed via rates applied to total direct cost. The FY2012 G&A/DD Activities variance (+\$1.8M) is due to a partial Pension payment pending receipt of full funding from RL.

### Baseline Change Requests

BCRA-PRC-12-005R0 - CEIS and P6 Reconciliation of “Closed” activities to Match Cobra

BCRA-PRC-12-007R0 - January 2012 PMB BCR Log Reconciliation to Cobra

BCRA-PRC-12-008R0 - January 2012 FEE BCR Log Reconciliation to Cobra

BCRA-PRC-12-009R0 - January 2012 MR BCR Log Reconciliation to Cobra

BCRA-PRC-12-010R0 - Admin BCR for Miscellaneous HPIC Changes

BCR-000-12-002R0 - Beryllium Program Revision to Estimate

BCR-000-12-004R0 - Functional Programs Labor Estimate Revision

## FY2012 G&A and DD Analysis (\$M)

FY 2012						
WBS 000	FYTD	FYTD	FYTD	FY 2012	FY 2012	FY 2012
Project Services and Support	BCWS	Actual	Variance (O)/U	BCWS	Fore cast	Variance (O)/U
<b>Total</b>	<b><u>32.9</u></b>	<b><u>29.0</u></b>	<b><u>3.9</u></b>	<b><u>110.9</u></b>	<b><u>111.7</u></b>	<b><u>(0.9)</u></b>
<b>General &amp; Administrative (G&amp;A)</b>	<b>20.8</b>	<b>22.5</b>	<b>(1.6)</b>	<b>70.1</b>	<b>71.7</b>	<b>(1.6)</b>
Communications	0.4	0.3	0.0	1.2	1.1	0.1
Safety, Health, Security and Quality	3.6	3.9	(0.4)	12.1	14.0	(2.0)
Prime Contract and Project Integration	2.9	2.5	0.4	9.8	8.8	0.9
Business Services	12.9	14.4	(1.5)	43.5	43.7	(0.1)
Engineering, Projects & Construction	1.1	1.3	(0.2)	3.6	4.1	(0.5)
<b>Direct Distributables (DD)</b>	<b>12.1</b>	<b>6.6</b>	<b>5.5</b>	<b>40.8</b>	<b>40.0</b>	<b>0.7</b>
Env. Program & Strategic Planning	1.0	1.2	(0.2)	3.6	3.9	(0.3)
Business Services: Retiree Insurance	1.9	0.9	1.0	6.4	5.1	1.3
Business Services: Pension Plan Contr.	9.1	4.5	4.7	30.8	31.0	(0.2)
		<b>FYTD</b>			<b>FY 2012</b>	
<b>Total Distribution</b>		<b>(32.8)</b>			<b>(102.5)</b>	
<b><u>Total Liquidation (Over)/Under</u></b>		<b><u>(3.7)</u></b>			<b><u>9.2</u></b>	
G&A Distribution		(20.1)			(62.9)	
<b>G&amp;A Liquidation (Over)/Under</b>		<b>2.4</b>			<b>8.8</b>	
DD Distribution		(12.7)			(39.6)	
<b>DD Liquidation (Over)/Under</b>		<b>(6.1)</b>			<b>0.4</b>	

### Liquidation Analysis

For FY2012, Project Services and Support (PS&S), is being distributed via rates applied to total direct cost. For the month of January, application of the G&A and DD rates has over liquidated the PS&S accounts by a total of \$3.7M. The FY2012 year end projected liquidation assumes an increase in the PS&S cost as well as a decrease in the G&A base, which results in a under liquidation projection of \$9.2M.

Consistent with CHPRC prospective Cost Accounting Disclosure Statement Revision 6, under liquidations would be distributed to users at a minimum, when the combined (including Continuity of Service (COS) and Absence Adder rates) projected year end under liquidation is equal to or greater than \$4M. Over liquidations would be distributed to users at a minimum, when the combined projected year end over liquidation is equal to or greater than \$6M. Variances may be liquidated to users at lower thresholds if variances are determined to be significant to cost control. All remaining variances will be distributed at fiscal year end.

## **MAJOR ISSUES**

None identified.

## **MILESTONE STATUS**

None identified.

## **SELF-PERFORMED WORK**

The Section H.20 clause entitled, "Self-Performed Work," is addressed in the Monthly Report Overview.

## **GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)**

None identified.