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Monthly Performance Report

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EXECUTIVE SUMMARY

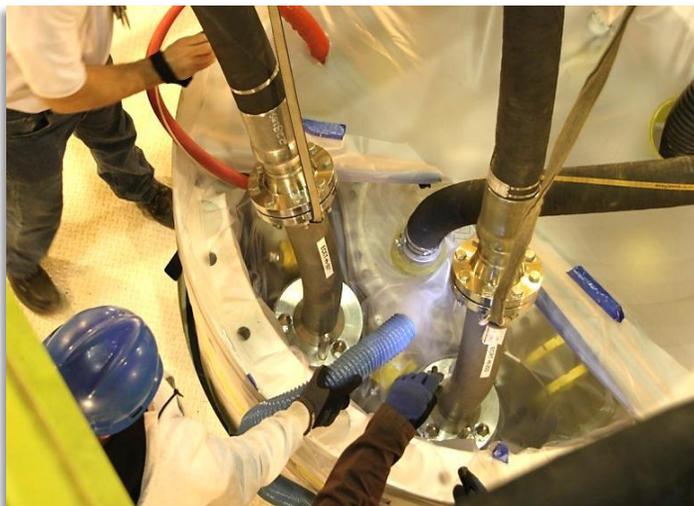
The Waste & Fuels Management (W&FM) Engineering, Projects and Construction (EPC) and Decommissioning and Demolition (D&D) Projects are preparing for retrieval and shipment of “knock-out pot” (KOP) sludge material in multi-canister overpack containers (MCOs). The shipments are the next phase of the Sludge Treatment Project (STP) and will mark a major step forward in removing highly radioactive sludge materials from the K West Basin along the river.

At the Maintenance and Storage Facility (MASF), workers also continued working with technologies and equipment that will support sludge retrieval, including long-reach shears and crimpers that will be used for size reducing materials underwater in the K West Basin.

The Soil & Groundwater Remediation Project (S&GRP) has treated 589 million gallons of contaminated groundwater through the end of March, moving toward the project goal of reaching 1 billion gallons treated in FY2012.



Inside the Cold Vacuum Drying Facility where multi-canister overpack containers are prepared for shipment to the Canister Storage Building.



Workers are testing equipment at the Maintenance and Storage Facility that will support sludge retrieval at the K West Basin.

The Plutonium Finishing Plant (PFP) completed demolition of the 2736-ZA and 2731-ZA buildings. Demolition of the 2736-ZB Vault Complex continued – the last of the six buildings was demolished to the ground level and the waste is being loaded out.

CHPRC was awarded CH2M Hill Supplier Diversity & Small Business Program’s Subcontracting Diamond Award for 2011. The corporate award recognizes efforts in meeting/exceeding all of the small business subcontracting goals incorporated in a company’s contract during the fiscal year.

Focus on Safety

The March 2012 President's Zero Accident Council (PZAC) meeting was hosted by the Safety, Health, Security, and Quality organization. The focus areas for the meeting were:

- “Eye” Care About Your Safety
- Summer Safety Campaign
- Continuing Injury Reduction

The opening presentation gave a glimpse into the subject of Eye Health and Wellness. The audience's eyes were opened to the world of eye hazards and diseases, risk factors, and the importance of combating eye problems through medical screening and healthy eating. The next presenter focused the crowd's vision on protecting eyes while at work. The presentation revealed how to see physical eye hazards, eliminating those hazards through engineering controls (such as enclosing processes or shields), and looked at the proper selection and use of safety glasses and goggles. The Summer Safety Campaign, scheduled to take place from April through September, was announced. This year, in addition to focusing on heat related illnesses and insects, the campaign will turn up the heat through unannounced field observations by CHPRC President and Chief Executive Officer, John Lehew, as well as sizzling communications that will relate summer safety to the Environmental Management System (EMS) as well as to home safety. An injury report was given and updates were provided on injury and illness performance metrics, the Voluntary Protection Program and EMS. Good News Stories from across the CHPRC landscape closed the PZAC meeting on a positive note.



A Special Safety Bulletin was issued in March to caution workers to inspect respirator sets for potentially mislabeled Mine Safety Appliance Advantage 200 LS cartridges. In addition, four “Thinking Target Zero” bulletins were issued, on the following topics:

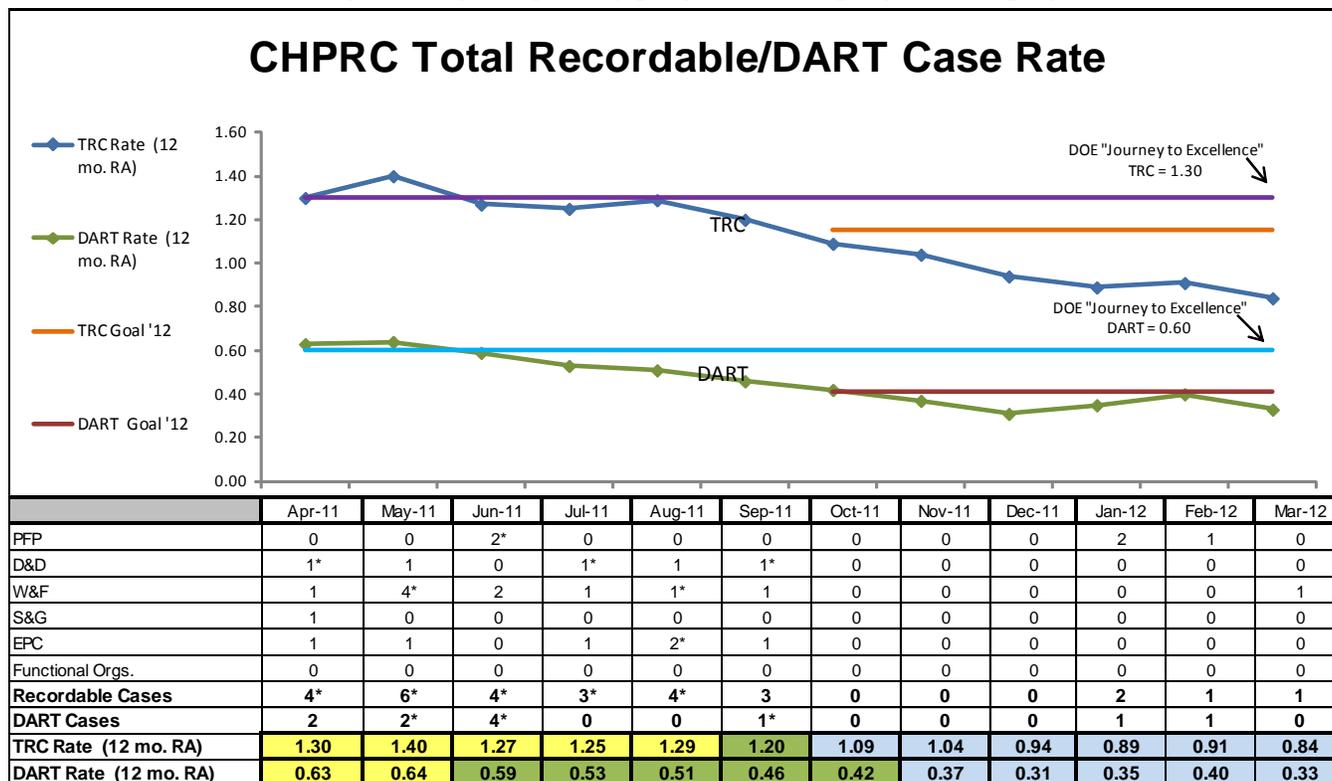
- Eye Safety
- Cultural Sensitive Areas and Responsibilities
- ISO 14001 Certification
- Proper Body Positioning When Lifting and Carrying

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

- Lessons Learned on safe rigging practices
- Government vehicle use
- Updates on the Hanford Asbestos Action Plan
- Avenues available to employees needing information about asbestos
- Information on National Nutrition Month
- Pre-job briefing expectations
- Details on the recall of a utility knife
- Foot protection and protective footwear requirements
- Proper clearing of snow and ice from vehicles for enhanced safety
- Slips, trips, and falls
- Avoiding bumps to the head
- Enhancing Safety Shares
- Recent updates to the Safety Communications process
- Changing batteries in smoke and carbon monoxide detectors
- Work involving electrical hazards
- EMS tenets Compliance, Continual improvement, and Pollution Prevention (C2P2)
- Summaries of injuries, illnesses, and close calls

TARGET ZERO PERFORMANCE March 2012

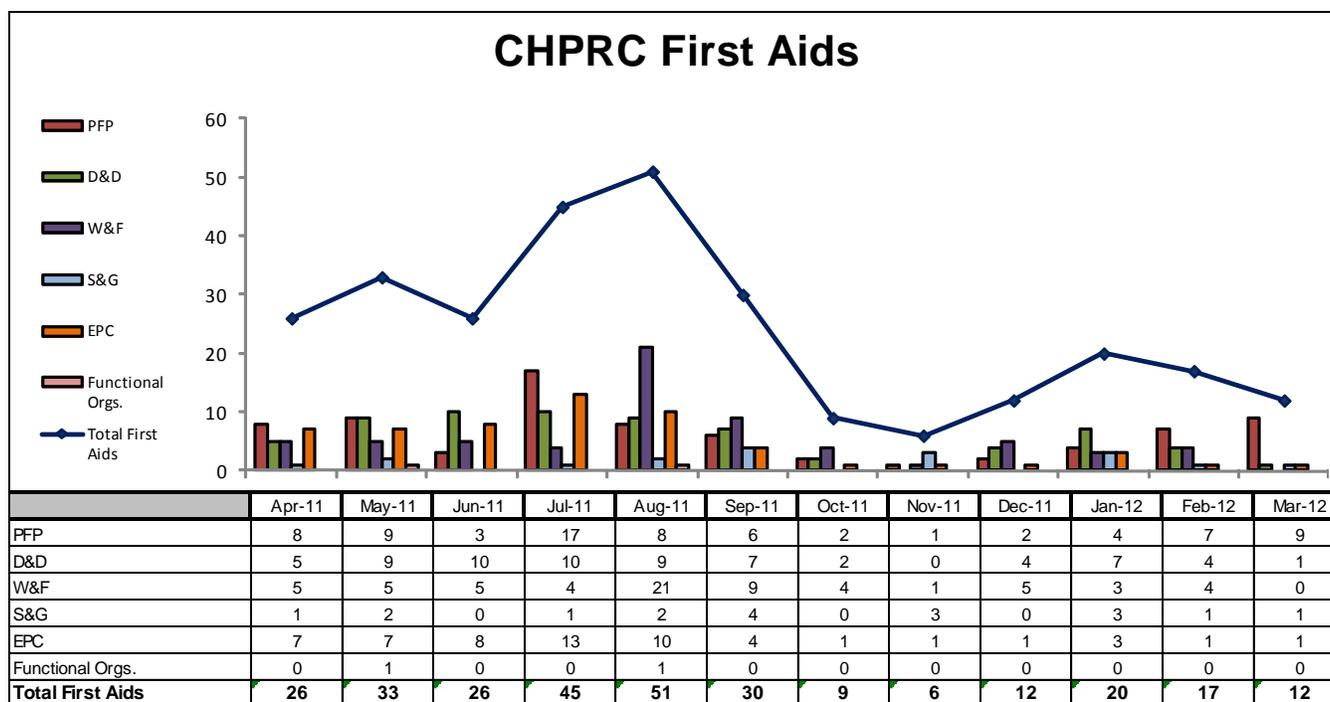
CHPRC continued focusing on integrating safety programs in all program and project areas.



Total Recordable Injury Case (TRC) Rate – The 12 month rolling average TRC rate of 0.84 is based upon a total of 28 recordable injuries. There was one Recordable case in March.

Days Away, Restricted or Transferred (DART) Workdays Case Rate – The 12 month rolling average DART rate of 0.33 is based upon a total of 11 cases (three Restricted, eight Days Away Cases). There were two cases from previous months that were updated; one from January and February that became DART cases due to days away. There are currently five 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 12 first-aid cases in March. The biggest contributors were five sprains, strains and/or pains from awkward positions, overexertion’s and slips/trips/falls at same level. There were four abrasions/contusions from contact/being struck by an object. The other injuries were varied. Preparations are underway to help prevent or reduce insect bites/stings over the next several months.

KEY ACCOMPLISHMENTS

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

RL-0011 Nuclear Materials Stabilization and Disposition

Disposition PFP Facility – ARRA

The portion of HA-23S lead shielding planned for removal was completed in Room 235B.

The 480vac power source for the HA-23S rigging equipment was installed in Room 235B.

Mechanical and electrical interferences were removed to support the removal of the wall between Rooms 235A-1 and 235A-2.

The portion of the wall between Rooms 235A-1 and 235A-2 that was planned for removal was completed.

The remaining large emergency exhaust valve over the HC-1 conveyor in Room 228A was removed.

Base

Disposition PFP Facility – Base

Backside Rooms (Rooms 158-172) D&D

HRB comments on the second work package for mechanical isolation of Room 166 were dispositioned and the package is approved and available ‘on the shelf’ as contingent work for the crew.

Reactivated the 160-1,2 Hoods and installed temporary containment sashes for enhanced radiological control

Disposition PFP (234-5Z) Facility

Process vacuum piping removal is just over 30 percent complete with a total of 1,210 feet removed.

A total of 594 feet of chemical piping transfer line has been removed.

230 feet of asbestos containing material was removed during the month of March. The cumulative total is 16,243 feet of asbestos removed.

2736Z/ZB Vault Complex

Demolition continued on 2736-ZB; the building is 72.5% demolished.

Plutonium Reclamation Facility (PRF)

Size reduction of Pencil Tank Assemblies 36, 45, 46, and 49 was completed.

Size reduction of Pencil Tank Assembly 128 was initiated.

Beryllium sampling of the MT gloveboxes was completed.

RL-0012 Spent Nuclear Fuel Stabilization and Disposition

The project successfully completed Level 3 Readiness Assessment for Found Fuel Processing.

RL-0013 Waste and Fuels Management Project**ARRA****Lay-Up Activities**

No American Recovery and Reinvestment Act (ARRA) funded M/LLW was received during March 2012.

Base**Project Management**

Continued Project Management support for high priority projects.

Continued Business Case Analysis for deinventory of Cat I nuclear material from the Hanford Site in support of reducing site security costs.

Capsule Storage & Disposition

Relocated 245 capsules out of 1098 as part of thermal balancing the capsule inventory in the pool cells.

Completed annual visual inspection of 225B for degradation.

Completed Waste Encapsulation and Storage Facility (WESF) Maintenance System training.

Canister Storage Building (CSB)

Completed 31 capsule moves (370 completed of 998 scheduled)

Completed exhaust fan K3-7-2 bearing and belt replacement

Completed annual test of pool cell sump leak detectors

WRAP

Completed eight Technical Safety Requirement (TSRs) surveillances

Completed 23 Preventive Maintenance (PMs) packages

Completed 165 Rad Operational Surveillances

T-Plant

Completed eight Technical Safety Requirement (TSRs) surveillances

Completed 25 Preventive Maintenance (PMs) packages

Central Waste Complex (CWC)

Completed nine Technical Safety Requirement (TSRs) surveillances

Completed nine Preventive Maintenance (PMs) packages

Liquid Effluent Facilities (LEF)

Received 5 tankers (calendar year [CY] 29k gallons)

Treated effluent to State-Approved Land Disposal Site: 0M gallons (CY 1.8M)

200A Treated Effluent Disposal Facility (TEDF) discharged .99M gallons (CY 2.8M)

Received Environmental Restoration Disposal Facility (ERDF) leachate (197k gallons) at Liquid Effluent Retention Facility (LERF) Basin 44 (CY 669k)

RL-0030 Soil and Groundwater Remediation

Base

GW Remedy Implementation

200WP&T: Continued Acceptance Test (CAT) Procedures (31 of 33 complete) on schedule.

Commissioning of all Membrane Biological Reactors (MBRs) completed. Acceptance Test Procedures (ATPs) (12 of 23 complete) on schedule. Preparation for the Integrated Acceptance Test Procedure (IATP) and readiness continues on schedule.

Operations

Strategic Integration

Remediation Optimization Study: Completed work group evaluations for all Central Plateau implementation areas; developed preliminary P6 schedules and draft Appendix A. Sub-unit boundaries are being adjusted to minimize constraints to implementation and logic ties are being developed.

Systematic Planning Integration

RI/FS Documents:

- Technical Agreements - Began facilitating weekly conference calls with RL to focus management attention on items that may be inhibiting progress on the RI/FS documents.
- Cost Estimating - Continued to provide changes as needed to assist in the completion of the 100-K and 100-DH cost estimates as well as prepare the 100-BC, 100-F/IU, and the 300 Area workbooks for the upcoming cost estimates.

Environmental Databases

HEIS/Sample Data Tracking Training and Support – Provided training to MSA personnel (Public Safety and Resource Protection department) in the use of the Sample Data Tracking (SDT) application and Hanford Environmental Information System (HEIS). SDT was modified to allow its use for input to the HEIS database to support the Ecological Monitoring and Compliance program.

Central Plateau

200-BP-5 Operable Unit – Base

Pump and Transducer installations for wells at Site One and Site Two have been completed. The fabrication of mechanical and electrical well racks were completed and installed on-site with 99% field activities completed with electrical terminations and piping connections. Effluent Treatment Facility (ETF) pipeline tie-in activities have also been completed.

200-UP-1 Operable Unit – Base

Construction and Acceptance Test Procedure (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 April 2012. Punch list items from field walkdowns of the system with Operations are being worked.

200-ZP-1 Operable Unit – Base

The interim P&T system is currently operating at 310 gpm. Discharge lines for off-line interim extraction wells are being flushed as part of layup process.

Pump and Treat Operations – Base

P&T Operations is trending ahead of the goal of reaching one billion gallons of treated contaminated groundwater in FY2012.

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

Completed 12 operational surveillances
Completed 54 Radiological Operations surveillances.
Completed 14 preventive maintenance (PM) activities.

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

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

Base**Facilities**

Continued repair work on the 105KE reactor building openings. Overall work is 80 percent complete.
Completed Final Design for 105KE Interim Safe Storage.
Continued working hazardous material removal including the removal of core drilling slurry waste water drums from the 105KE facility.

Waste Sites

Initiated remediation of waste sites 100-K-3, 100-K-68, 100-K-69, 100-K-70, and 100-K-71.
Development of plan for modeling to determine protectiveness for waste sites around the 105KE reactor building is underway.
Performed detailed sampling of soil east of the 105KE reactor building in Area AH to determine the extent of contamination.

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.

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 – The Hazard Review Board completed their review of the repair package for Exhaust Fan 5 on April 6, 2012. Performance of weld repair activities is scheduled to begin the week of April 9, 2012. Upon successful completion of the welding and balancing of Exhaust Fan 5, the installation of switches to shut down the fans on high vibration will begin. The exhaust ventilation system Enhanced Maintenance Program procedures have been completed and will be implemented when Exhaust Fan 5 is returned to service. Approval of the Justification for Continued Operation was received March 27, 2012.

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 CERCLA document comments and the need for policy and technical decisions is impacting contractual delivery due dates and decreasing float on major TPA Milestone M-015-00D “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) Maintain list of policy and technical decisions that remain open and have been resolved
- 2) Development of detailed Field Execution Schedules
- 3) Engagement of Assistant Manager for Central Plateau (AMCP) Management for technical decisions
- 4) Identified additional resources necessary to meet schedule
- 5) Partnering sessions between RL and CHPRC

Status - AMCP Management is working with the Regulators to determine the appropriate path forward on policy level decisions. Additional resources have been obtained and are fully engaged in the completion of the CERCLA documents.

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 continue to work with Soil & Groundwater Operations to work the funding issues by:

- 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

Status - BCRs were implemented in February utilizing DOE RL-0030.C Capital Asset Project Management Reserve for the realized risks discussed above. Funds issues remain to be resolved within the project and the overall Project Baseline Summary (PBS).

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

No major issues to report this month.

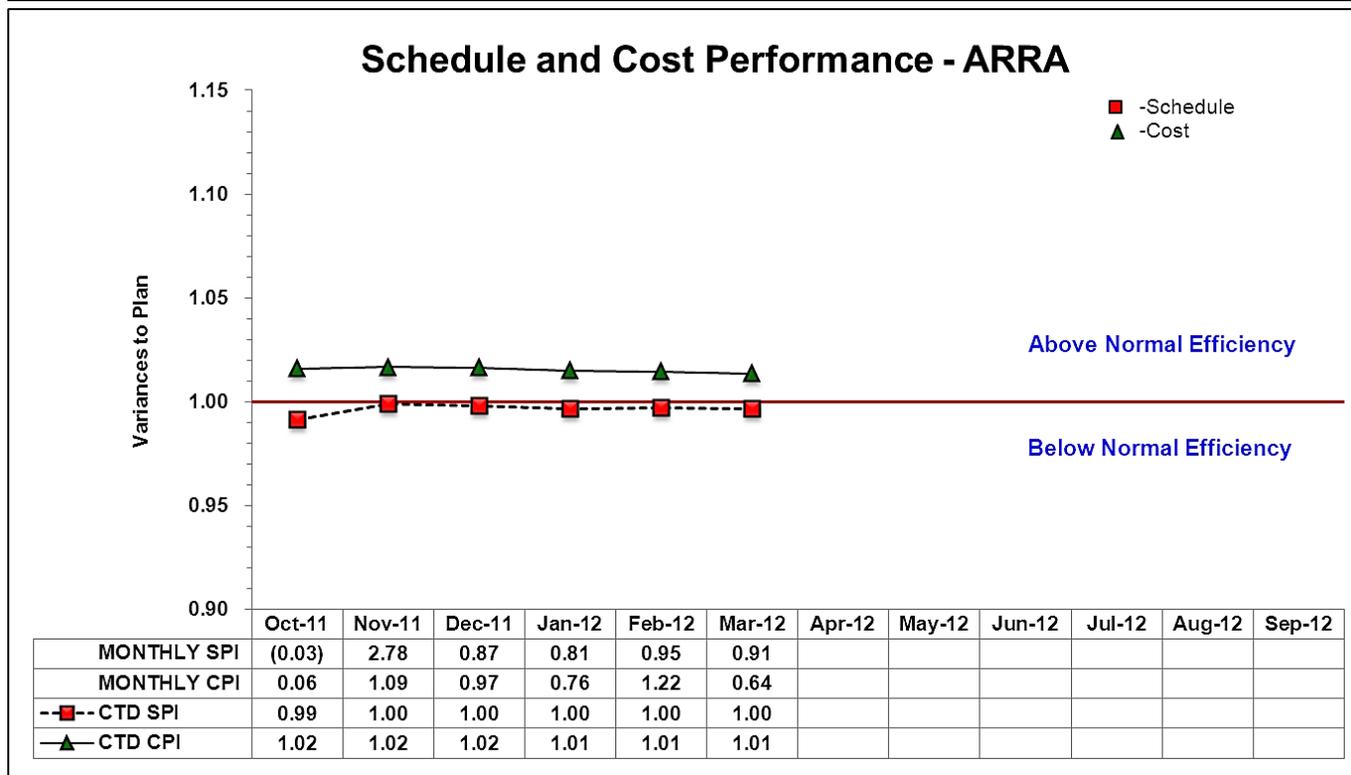
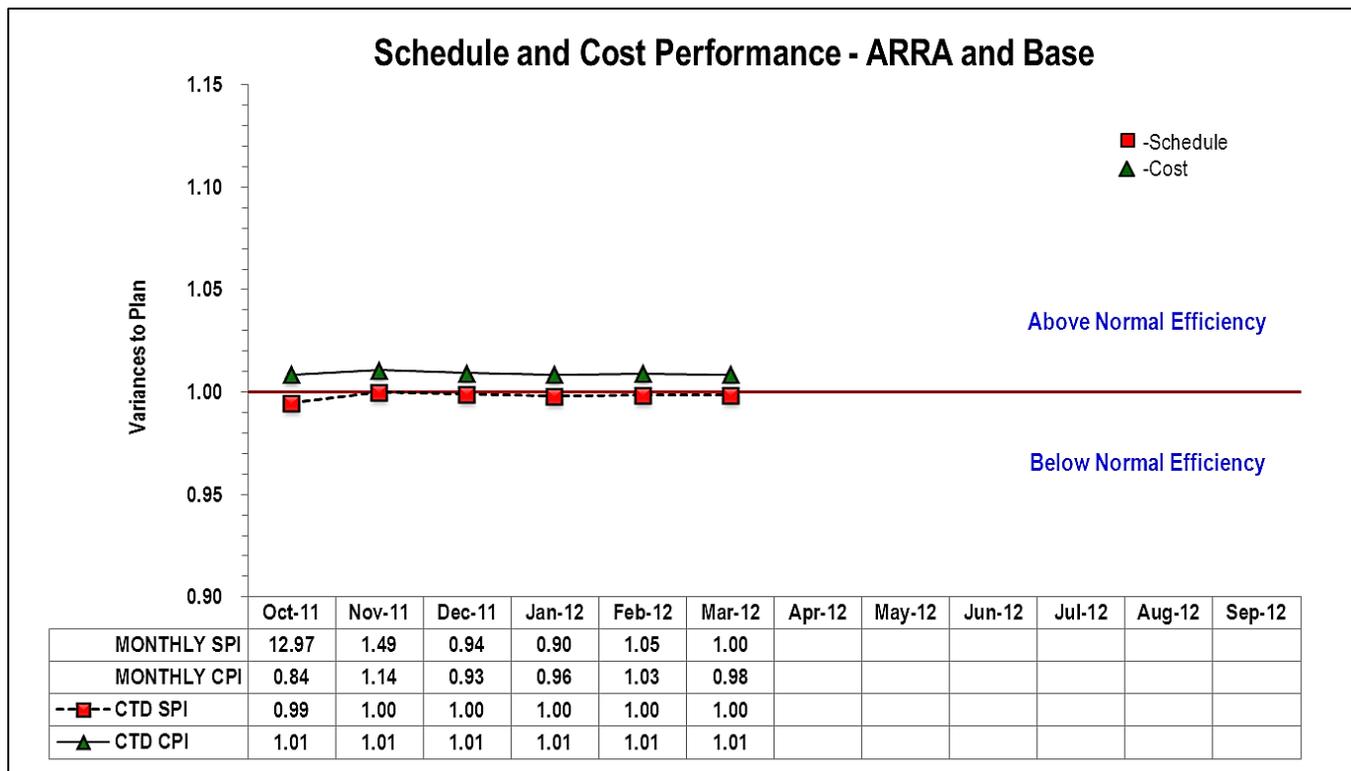
RL-0041 Nuclear Facility D&D, River Corridor

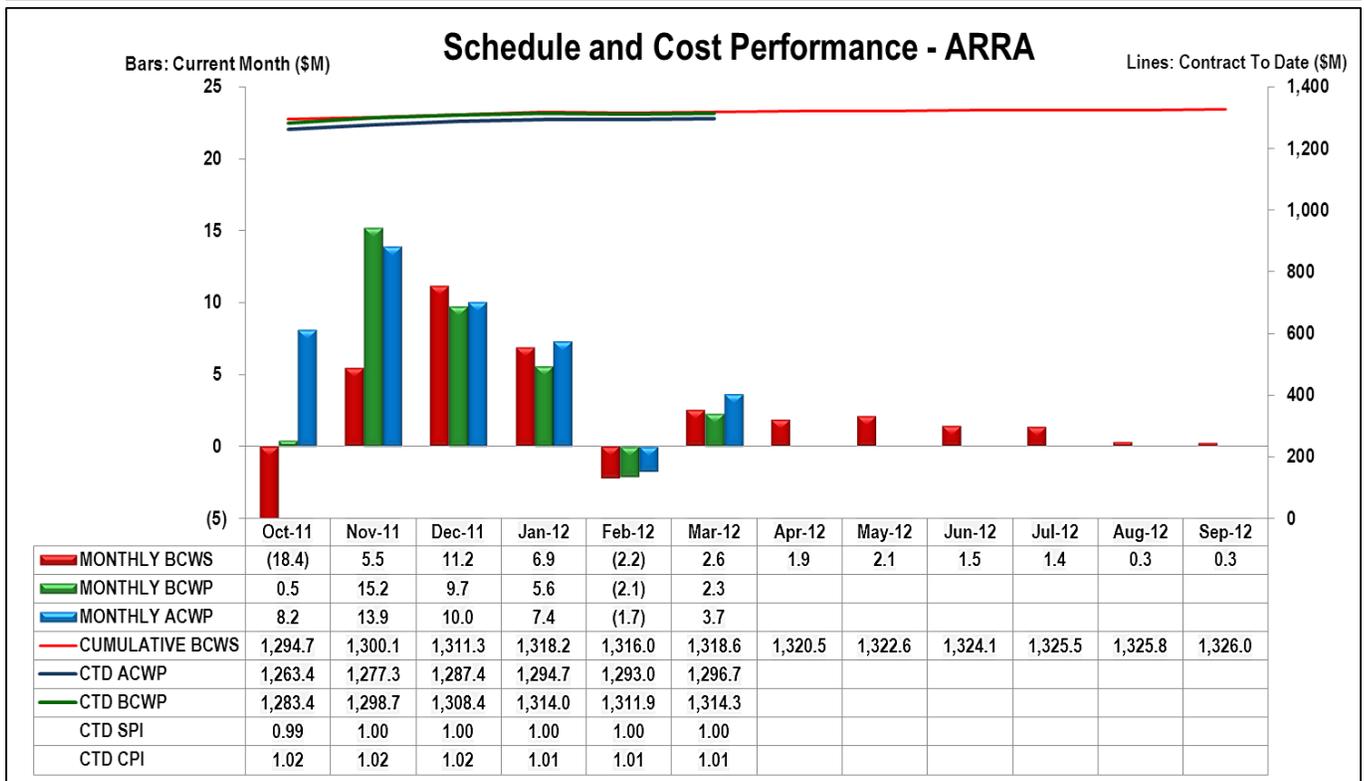
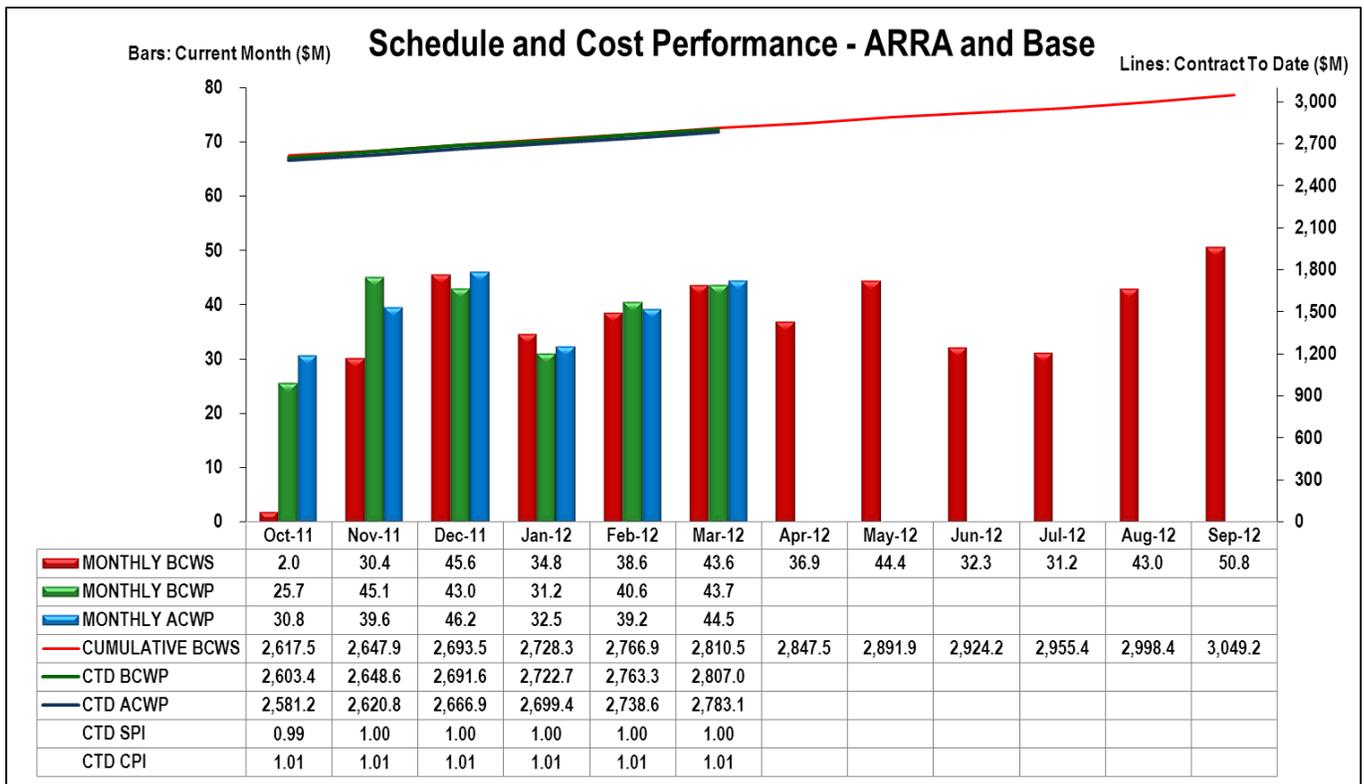
No major issues to report this month.

RL-0042 Fast Flux Test Facility Closure

No major issues to report this month.

EARNED VALUE MANAGEMENT





Performance Analysis – March

ARRA Performance by PBS

	\$M					
	Current Period					
	Budgeted Cost		Actual Cost	Variance		
	BCWS	BCWP	ACWP	Schedule	Cost	
RL-0011 - PFP D&D	2.3	2.0	1.7	(0.2)	0.3	
RL-0013 - MLLW Treatment	0.0	0.0	(0.0)	0.0	0.0	
RL-0013 - TRU Waste	0.0	0.0	(0.1)	0.0	0.1	
RL-0013 - TRU Wst Facil Trans MinSafe	0.0	0.0	0.1	0.0	(0.1)	
RL-0030 - GW Capital Asset	0.0	0.0	0.1	0.0	(0.1)	
RL-0030 - GW Operations	0.0	0.0	0.2	0.0	(0.2)	
RL-0040 - U Plant/Other D&D	0.0	0.0	0.5	0.0	(0.5)	
RL-0040 - Outer Zone D&D	0.0	0.0	(0.0)	0.0	0.0	
RL-0041 - 100K Area Remediation	0.3	0.3	1.2	0.0	(0.9)	
(Numbers are rounded to the nearest \$0.1M)	Total	2.6	2.3	3.7	(0.2)	(1.3)

ARRA

The Current Month unfavorable Schedule Variance (-\$0.2M/-9.2%) is within reporting thresholds.

The Current Month unfavorable Cost Variance (-\$1.3M/-57.0%) reflects:

- The RL-0011 positive variance (+\$0.3M) is within reporting thresholds.
- The RL-0013 negative variance (-\$0.0M) is within reporting thresholds.
- The RL-0030 negative variance (-\$0.3M) is within reporting thresholds.
- The RL-0040 negative variance (-\$0.5M) is within reporting thresholds.
- The RL-0041 negative variance (-\$0.9M) reflects the following:
 - Waste Sites negative variance (-\$0.4M) is due to a cost transfer the month that was completed earlier in the fiscal year and charged to Base funding.
 - 100K Area Project (Facilities and Others) negative variance (-\$0.5M) 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 and unplanned equipment rentals costs.

Base Performance by PBS

	\$M					
	Current Period					
	Budgeted Cost		Actual Cost	Variance		
	BCWS	BCWP	ACWP	Schedule	Cost	
RL-0011 - Nuclear Materials Stab & Disp PFP	8.4	10.0	9.8	1.6	0.1	
RL-0012 - SNF Stabilization & Disposition	8.1	7.3	7.6	(0.8)	(0.3)	
RL-0013 - Solid Waste Stab & Disposition	8.4	8.5	8.5	0.1	0.0	
RL-0030 - Soil & Water Rem-Grndwtr/Vadose	12.9	11.9	11.2	(0.9)	0.7	
RL-0040 - Nuc Fac D&D - Remainder	1.3	1.1	1.4	(0.2)	(0.3)	
RL-0041 - Nuc Fac D&D - RC Closure Project	1.8	2.3	2.1	0.5	0.2	
RL-0042 - Nuc Fac D&D - FFTF Project	0.2	0.2	0.2	0.0	(0.0)	
(Numbers are rounded to the nearest \$0.1M)	Total	41.0	41.3	40.8	0.3	0.5

Base

The Current Month favorable Schedule Variance (+\$0.3M/+0.7%) is within reporting thresholds and reflects:

- The RL-0011 positive variance (+\$1.6M) is due to a single point adjustment associated with BCR-011-12-002R0, *PFP PMB R3 Update per RCR Response*. Continued efficiencies in the size reduction of the PRF pencil tank assemblies, including experience gained and the use of overtime to mitigate the delay in the transfer of the field work team for Q shift, also contribute to the positive variance.
- The RL-0012 negative variance (-\$0.8M) is due to containerized sludge activities ahead of schedule in previous periods and realizing BCWS in the current period, K West fuel processing as there have been delays in the construction testing for the equipment installation and manufacturing delays in the delivery of the Copper Inserts for the KOP project.
- The RL-0013 positive variance (+\$0.1M) is within reporting thresholds.
- The RL-0030 negative variance (-\$0.9M) reflects the following subproject performance:
 - RL-0030.C1 GW Remedy Implementation negative variance (-\$0.8M) is due to the project being slightly ahead of schedule and the negative variance for the current period is the result of realized BCWS for work completed in previous months.
- The RL-0040 negative variance (-\$0.2M) is within reporting thresholds.
- The RL-0041 positive variance (+\$0.5M) is primarily due the following:
 - Waste Sites positive variance (+\$1.7M) is due to implementation of BCR-008 and 009 which deferred scope to out years.
 - 100K Area Project (Facilities and Others) negative variance (-\$1.2M) is due to K East Sedimentation Basin, 165KE Structure and 105KE Water Tunnel are behind schedule due to limited resources.

- The RL-0042 positive variance (+\$0.0M) is within reporting thresholds.

The Current Month favorable Cost Variance (+\$0.5M/+1.3%) reflects:

- The RL-0011 positive variance (+\$0.1M) is within reporting thresholds.
- The RL-0012 Combined 100K and STP negative variances (-\$0.3M) are within reporting thresholds.
- The RL-0013 positive variance (+\$0.0M) is within reporting thresholds.
- The RL-0030 positive variance (+\$0.7M) reflects the following subproject performance:
 - RL-0030.C1 GW Monitoring & Performance Assessments (+\$0.5M) is due to BCR-030-12-010R0 for the Impact of the WSCF Ventilation Hood and resulting stop work was implemented and resulted in a current month point adjustment. The WSCF laboratory stop work was a realized risk and management reserve was utilized to mitigate the impact. The RL-0040 negative variance (-\$0.3M) is within reporting thresholds.
- The RL-0041 positive variance (+\$0.2M) is within reporting thresholds.
- The RL-0042 negative variance (-\$0.0M) is within reporting thresholds.

Performance Analysis – Contract to Date

ARRA Performance by PBS

	\$M								
	Contract to Date					Contract Period			Variance
	Budgeted Cost		Actual Cost	Variance		BAC	EAC		
BCWS	BCWP	ACWP	Schedule	Cost					
RL-0011 - PFP D&D	285.0	281.3	289.1	(3.7)	(7.8)	290.9	296.7	(5.8)	
RL-0013 - MLLW Treatment	47.7	47.7	42.7	(0.0)	5.0	47.7	42.7	5.0	
RL-0013 - TRU Waste	255.3	255.3	253.7	(0.0)	1.6	255.3	253.7	1.6	
RL-0013 - TRU Wst Facil Trans MinSafe	1.5	1.5	1.3	0.0	0.2	1.5	1.3	0.2	
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	89.5	(0.0)	2.6	92.1	89.5	2.6	
RL-0040 - U Plant/Other D&D	199.4	199.3	193.2	(0.1)	6.1	199.4	193.5	5.9	
RL-0040 - Outer Zone D&D	84.3	84.3	71.7	0.0	12.6	84.3	71.7	12.6	
RL-0041 - 100K Area Remediation	178.2	177.7	180.9	(0.5)	(3.2)	179.7	182.6	(2.9)	
(Numbers are rounded to the nearest \$0.1M)	Total	1,318.6	1,314.3	1,296.7	(4.3)	17.6	1,326.0	1,306.7	19.4

ARRA

The CTD unfavorable Schedule Variance (-\$4.3M/-0.3%) is within reporting thresholds.

The CTD favorable Cost Variance (+\$17.6M/+1.3%) is within reporting thresholds and reflects:

- The RL-0011 negative variance (-\$7.8M) is within reporting thresholds.
- The RL-0013 positive variance (+\$6.8M) reflects the following subproject performance:
 - RL-0013 MLLW Treatment (+\$5.0M), TRU Waste (+\$1.6M) and TRU Waste Facility Tans MinSafe (+\$0.2M) 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 (+\$2.9M) 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 (+\$2.6M) 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 (-\$2.8M) The negative variance was driven by increased Project Services Distribution to RL-0030.
- The RL-0040 positive variance (+\$18.7M) reflects the following subproject performance:
 - ARRA RL-0040.R1.1 U Plant/Other D&D (+\$6.1M) 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 (-\$3.2M) is due to the following:
 - Waste Sites (+\$8.5M) – 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 (-\$11.7M) – 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	190.6	191.3	193.1	0.7	(1.8)	598.2	605.1	(6.9)	
RL-0012 - SNF Stabilization & Disposition	289.1	288.5	289.8	(0.6)	(1.2)	625.6	627.9	(2.3)	
RL-0013 - Solid Waste Stab & Disposition	353.6	352.7	359.1	(0.8)	(6.3)	1,524.2	1,529.7	(5.5)	
RL-0030 - Soil & Water Rem-Grndwtr/Vadose	480.9	483.5	491.3	2.6	(7.8)	1,324.6	1,325.8	(1.2)	
RL-0040 - Nuc Fac D&D - Remainder	74.1	74.0	66.7	(0.1)	7.3	686.7	667.9	18.7	
RL-0041 - Nuc Fac D&D - RC Closure Project	90.9	89.8	75.1	(1.1)	14.7	313.5	303.2	10.3	
RL-0042 - Nuc Fac D&D - FFTF Project	12.9	12.9	11.4	0.0	1.5	25.4	24.3	1.2	
(Numbers are rounded to the nearest \$0.1M)	Total	1,491.9	1,492.7	1,486.4	0.8	6.3	5,098.1	5,083.9	14.3

Base

The CTD favorable Schedule Variance (+\$0.8M/+0.1%) is within reporting thresholds and reflects:

- The RL-0011 positive variance (+\$0.7M) is within reporting thresholds.
- The RL-0012 negative variance (-\$0.6M) the combined 100K and STP variances are within reporting thresholds.
- The RL-0013 negative variance (-\$0.8M) 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 positive variance (+\$2.6M) reflects the following subproject performance:
 - RL-0030.01 RL 30 Operations positive variance (+\$1.4M) 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 positive variance (+\$1.2M) is within reporting threshold and due to:
 - 200 ZP-1 Operable Unit (+\$1.2M) The positive variance is due to Performance of ATP activities being slightly ahead of the Baseline Schedule. MBR recirculation and piping modifications, including those for sludge stabilization system, have occurred slightly faster than planned in the baseline.

- The RL-0040 negative variance (-\$0.1M) is within reporting thresholds.
- The RL-0041 negative variance (-\$1.1M) is due to the following:
 - Waste Sites (+\$1.1M) The positive cost variance is due to CSNA sites that were completed at less than anticipated cost. This is offset by Area AM not being worked as schedule due to the MOA not being approved.
 - 100K Area Project (-\$2.2M) The negative variance is due to being behind on K East Sedimentation, 105KE Water Tunnel and 1908K Structure due to limited resources. 1908 is also impacted by the MOA not being approved.
- The RL-0042 positive variance (+\$0.0M) is within reporting thresholds.

The CTD favorable Cost Variance (+\$6.3M/+0.4%) is within reporting thresholds and reflects:

- The RL-0011 negative variance (-\$1.8M) is within reporting thresholds.
- The RL-0012 negative variance (-\$1.2M) 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 (-\$7.8M) primary contributors that exceed the reporting thresholds are as follows:
 - RL-0030.01 RL 30 Operations negative variance (-\$1.9M) can be attributed to:
 - Integration & Assessments (+\$4.3M) 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 (-\$2.4M) 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 (+\$2.8M) 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 (-\$3.6M) 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 The acceptance test plan (ATP) and the operational test plan (OTP) was more involved than planned with resource

requirements exceeding the budget for the scope, additionally the work was performed in freezing weather requiring 24/7 attention to prevent freezing of pipes to continue water flow to and from wells, cost of realigning wells from DR-5 to 100 DX, 100 HX copper material costs increased significantly between estimate and procurement of materials resulting in cost over-runs. Additionally the ATP was more involved than planned with resource requirements exceeding the budget for the scope and additional time and resources being spent on internal CERCLA (RI/FS) document development as a result of extensive RL comments.

- 200-ZP-1 Operable Unit (+\$1.0M) 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 (+\$1.2M) 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 (-\$1.1M) 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.
- Ramp-up and Transition (-\$2.8M) The negative variance was driven by increased Project Services Distribution to RL-0030.
- o RL-0030.C1 GW Remedy Implementation negative variance (-\$5.9M) can be attributed to:
 - 200-ZP-1 Operable Unit (-\$5.9M) 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. 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 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 (+\$7.3M) 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 (+\$10.0M) 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) (+\$4.6M) 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	FY2012		Variance
		Projected Funding	Spending Forecast	
RL-0011	Nuclear Materials Stabilization and Disposition	33.4	33.4	0.0
RL-0013	Waste and Fuels Management Project	4.6	4.6	0.0
RL-0030	Soil, Groundwater and Vadose Zone Remediation	0.6	0.6	0.0
RL-0040	Nuclear Facility D&D, Remainder of Hanford	9.2	9.2	0.0
RL-0041	Nuclear Facility D&D, River Corridor	6.5	6.5	0.0
Total ARRA:		54.2	54.2	0.0
RL-0011	Nuclear Materials Stabilization and Disposition	99.4	95.3	4.1
RL-0012	Spent Nuclear Fuel Stabilization and Disposition	87.5	85.9	1.6
RL-0013	Waste and Fuels Management Project	88.3	85.2	3.1
RL-0030	Soil, Groundwater and Vadose Zone Remediation	121.1	123.4	(2.3)
RL-0040	Nuclear Facility D&D, Remainder of Hanford	11.3	12.2	(0.9)
RL-0041	Nuclear Facility D&D, River Corridor	36.1	34.2	1.9
RL-0042	Fast Flux Test Facility Closure	2.0	1.9	0.1
Total Base:		445.7	438.0	7.6

Funds/Variance Analysis:

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. There were no changes to Base funding in March.

BASELINE CHANGE REQUESTS

In March 2012, CHPRC approved and implemented thirteen (13) BCRs, of which three (3) were administrative in nature and did not change scope, schedule or budget. The thirteen change requests are identified in the table below:

Change Request #	Title	Summary of Change
Implemented into the Earned Value Management System for March 2012		
BCRA-013-12-001R0	<i>W&FM PMB Rev3 RCR Administrative Changes</i>	This Administrative BCR: <ol style="list-style-type: none"> 1. Implemented administrative changes to the PBS-013 PMB Rev 3 in accordance with the RCR comments provided by DOE-RL 2. Updated/corrected WBS and CEIS Dictionary sheets. Standardized formatting and content for the PBS. 3. Updated TPA coding in the current P6 schedule. 4. Updated the TPA titles in the current P6 schedule. 5. RCR comment sheet completed and attached for specific items addressed by this BCR.
BCRA-030-12-017R0	<i>RL-30 March General Administrative Changes</i>	This Administrative BCR: <ol style="list-style-type: none"> 1. Corrected disconnects between COBRA, P6 & CEIS historical activities & resources 2. Corrected resource identification 3. Redistributed resources
BCRA-041-12-006R0	<i>RL-41 Waste Site Milestones & EVM Coding Correction</i>	This Administrative BCR: <ol style="list-style-type: none"> 1. Changed EVM code on future activities. No work has been started. 2. Removed logic ties to TPA phases that are no longer correct. The logic ties were not driving and there were no budget or schedule changes required. 3. Updated TPA codes and logic to reflect TPA-CN-498 / 499 / 502. 4. Added waste site completion milestones to WBS 041.02.02.02.03.02.
BCR-011-12-002R0	<i>PFM PMB R3 Update per RCR Response</i>	BCR-PRC-12-001R0, <i>PRC Baseline, Rev. 3</i> , was submitted to DOE-RL on 11/30/2011. DOE-RL provided Review Comment Records (RCR) in January 2012. This BCR implemented changes pursuant to DOE-RL RCR comments:
BCR-013-12-002R0	<i>SNM De-Inventory Analysis</i>	This BCR addressed the DOE-RL directed support for detailed Business Case Analysis for offsite shipment of the balance of Category 'I' Special Nuclear Material (SNM) at Hanford, letter 12-AMCP-0044.
BCR-030-12-006R0	<i>Incorporation of Definitization of Change Order #072 for Operation and Maintenance of the 200 West Pump and Treat System</i>	This BCR incorporated the Operations and Maintenance for the 200 West Pump and Treat definitized in Change Order 72, Contract Modification 206
BCR-030-12-010R0	<i>RL-30 drawdown of MR for realized risk related to WSCF analysis</i>	RL-30 realized risk SGW-062 - WSCF Ability or Performance; due to WSCF shutdown for ventilation and fume hood issues. This BCR draws down Management Reserve to increase BCWS in the impacted areas of the PMB Baseline.

Change Request #	Title	Summary of Change
BCR-030-12-014R0	<i>RL-30 Misc. Corrections after PMB rev-3.</i>	This BCR incorporated changes into the Baseline resulting from PMB Rev-3 implementation.
BCR-040-12-001R0	<i>Defer 6652L and Add U Canyon S&M Turnover</i>	DOE/RL FPD determined that this work scope should not be accomplished in FY2012. This BCR deferred the FY 2012 work scope (demolition of the 6652L facility), and implements the transfer back to Base work scope.
BCR-040-12-002R0	<i>Steam Repair in 200West</i>	This Baseline Change Request documents the authorization/direction to perform repairs as needed on sections of the 500 linear feet of steam piping located West of the 284 power house going South bound to U Plant. A Not to Exceed value of \$200K has been assigned
BCR-041-12-007R0	<i>105KE ISS Revised Estimate</i>	This Change request implements the revised cost estimate and improved schedule integration logic and revised WBS Structure into the PMB. The impacts of this change have been incorporated in the March Spend Forecast.
BCR-041-12-008R0	<i>100K Waste Sites Associated with 105KE ISS</i>	This BCR is one part of three integrated BCR's (BCR-041-12-007R and BCR-041-12-009R0). Each BCR has an impact of the successful completion of TPA Milestone M-016-053 for Phase 1 Waste Sites due December 31, 2012 and TPA Milestone M-093-22 for 105KE Reactor ISS due July 31, 2014.
BCR-041-12-009R0	<i>100K Waste Sites Phase 1 TPA, Sampling, and 115KW and 117KW Deferral</i>	This Baseline Change Request addressed four specific issues: <ol style="list-style-type: none"> 1. potential safety hazards to the on-going work for Sludge Treatment 2. Tribal and Cultural issues 3. Revision of the methodology planned to determine the extent of contamination 4. 100K Waste Site tonnage issues that arise when a Waste Site exceeds the number of tons of contaminated soil disposed

Overall the contract period performance measurement baseline (PMB) budget is *increased* \$81M in March 2012.

Management Reserve Activity

BCR Number	Title	Fiscal Year	MR (ARRA) & PBS	MR (Base) & PBS
BCR-013-12-002R0	<i>SNM De-Inventory Analysis</i>	2012	N/A	(\$453K)
BCR-030-12-010R0	<i>RL-30 drawdown of MR for realized risk related to WSCF analysis</i>	2012	N/A	(\$479K)
Overall MR Change in March 2012 – (\$932K)				

There were no Fee adjustments in March 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 March 2012, would be an of *increase* of \$81M and is summarized by fiscal year in the tables below (dollars in thousands, negative number represents reduction):

March 2012 Summary of Changes

	FY2009	FY2010	FY2011	FY2012	FY2013	FYs 2009-2013	FYs 2014-2018	Contract Period Total	Post Contract Total	Total PMB
February 2012 Estimate										
PMB	653,426	960,017	1,002,105	440,490	474,199	3,530,237	2,812,947	6,343,185	64,797	6,407,982
Mgmt Rsrv (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	250,206	0	250,206
Total	693,138	1,008,789	1,034,427	468,641	502,686	3,707,681	2,972,266	6,679,948	64,797	6,744,745
Change by Funding Source in March 2012										
PMB										
ARRA										
All ARRA WBSs	0	0	0	-2,994	0	-2,994	0	-2,994	0	-2,994
Base										
All Base WBSs	0	0	0	-3,817	16,724	12,907	71,085	83,992	0	83,992
Change to PMB	0	0	0	-6,811	16,724	9,913	71,085	80,998	0	80,998
MR										
ARRA										
All ARRA WBSs	0	0	0	0	0	0	0	0	0	0
Base										
All Base WBSs	0	0	0	-932	0	-932	0	-932	0	-932
Change to MR	0	0	0	-932	0	-932	0	-932	0	-932
Fee										
ARRA										
All ARRA WBSs	0	0	0	0	0	0	0	0	0	0
Base										
All Base WBSs	0	0	0	0	0	0	0	0	0	0
Change to Fee	0	0	0	0	0	0	0	0	0	0
Total Change	0	0	0	-7,743	16,724	8,981	71,085	80,066	0	80,066
March 2012 Estimate										
PMB	653,426	960,017	1,002,105	433,679	490,923	3,540,150	2,884,032	6,424,183	64,797	6,488,980
MR	0	0	0	10,219	10,487	20,706	64,919	85,625	0	85,625
Fee	39,712	48,772	32,322	17,000	18,000	155,806	94,400	250,206	0	250,206
Total	693,138	1,008,789	1,034,427	460,898	519,410	3,716,662	3,043,351	6,760,014	64,797	6,824,811

Changes to/Utilization of Management Reserve in March 2012

		FY2009	FY2010	FY2011	FY2012	FY2013	FY2009-2013	FY2014-2018	Total
February 2012 MR Totals									
ARRA	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
ARRA Total	0	0	0	0	0	0	0	0	0
Base	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
Base Total	0	0	0	11,151	10,487	21,638	64,920	86,557	
MR Total	0	0	0	11,151	10,487	21,638	64,920	86,557	
March 2012 MR Changes/Utilization									
ARRA	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
ARRA Total	0	0	0	0	0	0	0	0	
Base	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	-453	0	-453	0	-453
	RL-0030	0	0	0	-479	0	-479	0	-479
	RL-0040	0	0	0	0	0	0	0	0
	RL-0041	0	0	0	0	0	0	0	0
	RL-0042	0	0	0	0	0	0	0	0
Base Total	0	0	0	-932	0	-932	0	-932	
MR Total	0	0	0	-932	0	-932	0	-932	
March 2012 MR Totals									
ARRA	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
ARRA Total	0	0	0	0	0	0	0	0	
Base	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	47	400	447	21,687	22,134
	RL-0030	0	0	0	2,353	2,032	4,385	13,639	18,024
	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
Base Total	0	0	0	10,219	10,487	20,706	64,920	85,625	
MR Total	0	0	0	10,219	10,487	20,706	64,920	85,625	

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 -4/1/2012							Planned Subcontracting*	\$2,524,483,195	
							Contract-to-date awards	\$1,910,728,953	
	ARRA		BASE		Total \$	Total %	Goal	Bal remaining to award =	
	\$	%	\$	%			%	Goal award \$	Bal to goal \$
SB	\$376,546,657	53.50%	\$579,363,445	48.01%	\$955,910,102	50.03%	49.30%	\$1,244,570,215	\$288,660,113
SDB	\$78,194,904	11.11%	\$94,462,848	7.83%	\$172,657,752	9.04%	8.20%	\$207,007,622	\$34,349,870
SWOB	\$87,215,773	12.39%	\$102,395,799	8.48%	\$189,611,572	9.92%	7.50%	\$189,336,240	(\$275,332)
HUB	\$22,561,374	3.21%	\$22,401,956	1.86%	\$44,963,330	2.35%	2.20%	\$55,538,630	\$10,575,301
VOSB	\$53,494,350	7.60%	\$58,673,385	4.86%	\$112,167,735	5.87%	3.50%	\$88,356,912	(\$23,810,823)
SDVO	\$13,889,252	1.97%	\$38,689,054	3.21%	\$52,578,306	2.75%	1.30%	\$32,818,282	(\$19,760,025)
NAB	\$17,127,892	2.43%	\$10,487,678	0.87%	\$27,615,570	1.45%	0.00%	* 10-year subcontracting projection	
Large	\$241,168,806	34.26%	\$300,808,668	24.92%	\$541,977,474	28.36%	0.00%		
GOVT	\$125,046	0.02%	\$1,564,696	0.13%	\$1,689,741	0.09%	0.00%	PRC clause H.20 small business (SB) requirement:	
GOVT CONT	\$85,936,232	12.21%	\$321,999,467	26.68%	\$407,935,699	21.35%	0.00%	≥17% of Total Contract Price performed by SB	
EDUC	\$9,526	0.00%	\$107,611	0.01%	\$117,137	0.01%	0.00%	Total Contract Price:	\$5,859,877,357
NONPROFIT	\$39,338	0.01%	\$2,861,793	0.24%	\$2,901,131	0.15%	0.00%	17% requirement:	\$996,179,151
FOREIGN	\$28,773	0.00%	\$165,518	0.01%	\$194,291	0.01%	0.00%	SB Awarded:	\$955,910,102
Total	\$703,854,378		\$1,206,874,575		\$1,910,728,953			Balance to Requirement:	\$40,269,048

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 2011. 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
CONTRACT			
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

March 2012
CHPRC-2012-03, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

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

<i>Key Performance Indicators</i>	<i>Current Month</i>	<i>Contract To Date</i>
Glovebox/ Hood Removed or Dispositioned in Place	-	162 gloveboxes/hoods
KPP Rooms/Areas Dispositioned	-	53 rooms/areas
Asbestos/ACM Removed	230 feet	16,243 feet
Process Vacuum Piping Removed	-	1,210 feet
Process Transfer Line Removed	-	594 feet
Pencil Tank Units Removed	15	75 pencil tank units
Buildings Ready for Demo	-	32 structures
Buildings Demolished or Relocated	1	30 structures
Non-radioactive Waste Shipped	1 m ³	35 m ³
TRU/TRU-M Shipped	31 m ³	861 m ³
LLW/MLLW Shipped	42 m ³	3,563 m ³

The project achieved more than one million hours worked since the last lost or restricted workday case. 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. 162 (70 percent) of the gloveboxes have been removed to date. Two sections (A and K) of conveyor HC-1 were removed from building ventilation and transferred to Solid Waste Operations. The final section of HC-1 and glovebox HC-10 are fully isolated for removal early next month. Large glovebox HC-21C was ready for removal from Room 230A at month end. Walls were removed from two areas (wall between 235A-1 and 235A-2 and wall between 230A and 230B), which will provide additional working space and facilitates removal of gloveboxes in those areas. The project cut and removed nearly 100 feet of highly contaminated process vacuum lines, which are awaiting size reduction, and an additional 230 feet of asbestos was removed.

Demolition of the buildings in and around the 2736 Vault Complex continued. Five of the six buildings have been demolished, with waste load out remaining on 2736-Z. Demolition of the largest of the facilities—the 2736-ZB Vault Support Facility—is 60 percent complete.

Several process improvements in the size reduction of the 50 liter pencil tank assemblies, experienced gained and the use of overtime has resulted in the size reduction proceeding ahead of schedule. The third increment for the pencil tank Performance Incentive (PI) was completed.

Field work activities for the preparation of the Miscellaneous Treatment (MT) gloveboxes, column gloveboxes and column criticality drains for removal was initiated.

A week long Value Engineering sessions was conducted jointly with representatives from PFP, DOE-RL and the CHPRC Waste & Fuel Management Project. Four significant initiatives and 20 discrete actions were identified with the potential to accelerate schedule and reduce cost (life cycle).

The D&D workforce made good progress this period. Schedule performance continued in a favorable direction, improving eight percent over last month. The cost performance index also continued the favorable trend. Resource utilization declined slightly—91% this month compared to 93% last month.

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	100%
			Research improved hydraulic line technology	06/29/2012	20%
			Report recommendations to management	07/30/2012	
12-EMS-PFP-OB2-T1	Reduce vehicle miles/greenhouse 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	15%
			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	4	N/A
Total Recordable Injuries	0	5	N/A
First Aid Cases	9	76	<p>Base - 3/1/2012 - Employee experienced lower back pain after missing a step leaving the building. (22686)</p> <p>Base - 3/8/2012 - Employee experienced ringing in the ears after doing hearing protection work. (22689)</p> <p>Base - 3/8/2012 - Employee received contusion to finger while removing a door. (22690)</p> <p>Base - 3/11/2012 - Employee received contusion to left shoulder when a piece of metal tube from scaffolding fell and hit their right shoulder. (22695)</p> <p>Base - 3/19/2012 - Employee experienced a bite to their right arm during a meeting. (22704)</p> <p>Base - 3/22/2012 - Employee experienced pain in their left knee. (22710)</p> <p>Base - 3/26/2012 - Employee experienced neck strain while unloading laundry bags. (22715)</p> <p>Base - 3/26/2012 - Employee received a Cyst on right wrist. (22716)</p> <p>Base - 3/28/2012 - Employee received a laceration to right finger on DOE prescribed metal badge holder. (22718)</p>
Near Misses	0	0	N/A

KEY ACCOMPLISHMENTS

ARRA

11.05 Disposition PFP Facility – ARRA

- The portion of HA-23S lead shielding planned for removal was completed in Room 235B.
- The 480vac power source for the HA-23S rigging equipment was installed in Room 235B.
- Mechanical and electrical interferences were removed to support the removal of the wall between Rooms 235A-1 and 235A-2.
- The portion of the wall between Rooms 235A-1 and 235A-2 that was planned for removal was completed.
- The remaining large emergency exhaust valve over the HC-1 conveyor in Room 228A was removed.
- Conveyor section HC-1K was removed from Room 228A.
- Activities to support the removal of HC-1B conveyor section and glovebox HC-10 were started in Room 228A.
- Glovebox HC-21C was taken off line in Room 230A and is awaiting completion of the 2736-Z demolition to support a travel route out the South side of 234-5Z.

Base

11.02 Maintain Safe & Compliant PFP - Base

- 291-Z Exhaust Fans
 - Continued work package development in preparation for HRB scheduled for first week of April.
 - Continued Preparations for EF-5 weld repairs
 - Continued weekly fan vibration and thermal monitoring
 - Completed fabrication of inspection windows for exhaust fans and back up steam turbines

11.05 Disposition PFP Facility – Base

Backside Rooms (Rooms 158-172) D&D

- HRB comments on the second work package for mechanical isolation of Room 166 were dispositioned and the package is approved and available ‘on the shelf’ as contingent work for the crew
- Reactivated the 160-1,2 Hoods and installed temporary containment sashes for enhanced radiological control
- Reactivated HC-4 and HC-6 Gloveboxes in preparation for mechanical isolation work
- Installed hot taps on nitric acid and distilled water pipes feeding Room 166 in preparation for piping removal work

Disposition PFP (234-5Z) Facility

- Process vacuum piping removal is just over 30 percent complete with 1,210 total feet removed.
- A total of 594 feet of chemical piping transfer line has been removed.
- 230 feet of asbestos containing material was removed during the month of March. The total is 16,243 feet of asbestos removed.

2736Z/ZB Vault Complex

- Demolition continued on 2736-ZB Complex; which is now 72.5% complete overall.

Plutonium Reclamation Facility (PRF)

- Size reduction of Pencil Tank Assemblies 36, 45, 46, and 49 was completed.
- Size reduction of Pencil Tank Assembly 128 was initiated.
- Beryllium sampling of the MT gloveboxes was completed.
- Field work for the removal of the MT gloveboxes nitric acid lines was initiated.
- Field work was initiated on the removal of the electrical equipment and conduit that will interfere with the removal of the 3rd column criticality drain.
- An electrical intrusive walk down was completed for the removal of the Product Receiver (PR) can load-out station.

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.

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 – The Hazard Review Board completed their review of the repair package for Exhaust Fan 5 on April 6, 2012. Performance of weld repair activities is scheduled to begin the week of April 9, 2012. Upon successful completion of the welding and balancing of Exhaust Fan 5, the installation of switches to shut down the fans on high vibration will begin. The exhaust ventilation system Enhanced Maintenance Program procedures have been completed and will be implemented when Exhaust Fan 5 is returned to service. Approval of the Justification for Continued Operation was received March 27, 2012.

RISK MANAGEMENT STATUS

Unassigned Risk
 Risk Passed
 New Risk
 Change

 Working - No Concerns  Increased Confidence
 Working - Concern  No Change
 Working - Critical  Decreased Confidence

Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
RL-011/WBS 011				
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.			The duct level of the 234-5Z building will remain on Airborne Radioactivity Area status pending further evaluation and characterization, which is impacting on staffing requirements for work in this area, and on schedule performance for removal of highly contaminated piping and ductwork. Development of a detailed PFP-wide characterization plan is continuing, and two Radiological Control Technicians were added to support implementation of the plan later in the year. Regular meetings have been initiated to further define ready-for-demolition criteria for the Plutonium Reclamation Facility (236-Z), the most challenging of the facilities.
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.			The PRF canyon crane continued to operate as expected in March, and pencil tank disposition continued at an accelerated pace, regaining previously lost schedule. Work on D&D of the seven galleries and column gloveboxes, which are linked directly to the canyon, is proceeding as planned. Reporting on this risk will be discontinued unless and until additional issues are experienced.
PFP-009: Problems with Aging Building Systems/Components Impacts D&D	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.			Preparations continued for repair of minor cracks observed on the blades of two of PFP's main exhaust fans. Planning is also underway to increase exhaust flow through the ventilation system to reduce system stresses created by insufficient flow. Minor but recurring problems continue to be experienced with air monitoring equipment and the PRF and 234-5Z air sample vacuum systems.
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.			No additional locations with unexpected levels of holdup were identified in March, and reporting on this risk will be discontinued unless and until additional issues arise.
PFP-042, Increased Attrition Impacts Availability of Qualified Resources PRC-021A, Workforce restructuring caused by funding changes	Risks have historically been accepted without mitigation.			All of the field work teams impacted by the September 2011 workforce restructuring and subsequent "bump and roll" are staffed with qualified replacement personnel and working. However, some impacts were also experienced in March due to an unanticipated mid-year ramp-up in Tank Farm operations. Competition for personnel is increasing from the Office of River Protection, Waste Treatment Project, which is aggressively recruiting for staff experienced in nuclear safety analysis and a few other disciplines.

PFP-006: Overall D4 Schedule Impacts from Interferences Between Subprojects PFP-061, Experienced Demolition Crews/Equipment Not Available	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.	●	↑	Most of the historical interferences between the various subprojects have been resolved. An expansion of the demolition safety boundary for removal of the vault complex buildings heavily impacted on progress in D&D of the 234-5Z backside rooms, and had more limited impacts on the Balance of 234-5Z D&D work. By month's end this work was nearly complete and work to reduce the boundaries was in progress. With no other near term demolition work planned, reporting on PFP-061 will be discontinued unless additional issues are anticipated. Staffing forecasts by craft/discipline for other near-term work continue to be analyzed to better anticipate and avoid future resource conflicts.
PFP-064 OPP: Reduced Size Reduction Required Consistent With SLB2 Packaging	Implementation of the use of SLB-2s has been identified as a site wide initiative by CHPRC and RL. A specific plan of action was developed and is being executed to support this opportunity.	●	↑	This opportunity has now been fully realized and incorporated in the project baseline. Reporting will be discontinued next month.
PRC-014, Site-Wide Occurrence	None	●	↑	Approval has been received and asbestos removal work was restarted at PFP in March. Reporting on this risk will be discontinued next month.
PRC-020, Weather Delays	None	●	↓	High winds impacted vault complex demolition work for an unusual number of days during March, extending completion of this work into April. Work packages were modified to support continuation of lower risk work during higher wind speeds, but average wind speeds were the second highest on record since 1945 and continued to impact this work through the end of the month.
PRC-029: Unforeseen Facility Conditions	None	●	↑	Two issues identified during January are fully resolved and no new occurrences were experienced in February or March. Reporting on this risk will be discontinued unless additional issues arise in April.

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 (%)
ARRA	2.3	2.0	1.7	(0.2)	-10.5	0.3	15.2
Base	<u>8.4</u>	<u>10.0</u>	<u>9.8</u>	<u>1.6</u>	18.4	<u>0.1</u>	1.5
Total	10.7	12.0	11.6	1.3	12.3	0.5	3.8

Numbers are rounded to the nearest \$0.1M

ARRA

CM Schedule Variance: (-\$0.2M/-10.5%)

The schedule variance is within reporting thresholds.

CM Cost Variance: (+\$0.3M/+15.2%)

The cost variance is within reporting thresholds.

Base

CM Schedule Variance: (+\$1.6M/+18.4%)

The positive current period schedule variance is primarily due to a single point adjustment associated with BCR-011-12-002R0, PFP PMB R3 Update per RCR Response. Continued efficiencies in the size

reduction of the PRF pencil tank assemblies, including experience gained and the use of overtime to mitigate the delay in the transfer of the field work team for Q shift, also contribute to the positive variance.

CM Cost Variance: (+\$0.1M/+1.5%)

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)
ARRA	285.0	281.3	289.1	(3.7)	-1.3	(7.8)	-2.8	290.9	296.7	(5.8)
Base	<u>190.6</u>	<u>191.3</u>	<u>0.7</u>	<u>(0.8)</u>	0.5	<u>(1.8)</u>	-0.9	<u>598.2</u>	<u>605.1</u>	<u>(6.9)</u>
Total	475.6	472.6	482.1	(3.0)	-0.6	(9.6)	-2.0	889.1	901.8	(12.7)

Numbers are rounded to the nearest \$0.1M

ARRA

CTD Schedule Performance: (-\$3.7M/-1.3%)

The schedule variance is within reporting thresholds.

CTD Cost Performance: (-\$7.8M/-2.8%)

The cost variance is within reporting thresholds.

Base

CTD Schedule Variance (+\$0.7M/+0.4%)

The schedule variance is within reporting thresholds.

CTD Cost Variance (-\$1.8M/-0.9%)

The cost variance is within reporting thresholds.

Variance at Completion (-\$12.7M/-1.4%)

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 February to March, for both ARRA and Base, are within reporting thresholds.

FUNDS vs. SPEND FORECAST (\$M)

WBS 011/RL-0011 Nuclear Matl Stab & Disp PFP	FY2012		
	Projected Funding	Spending Forecast	Spend Variance
ARRA	33.4	33.4	0.0
Base	99.4	95.3	4.1
RL-0011 Total	132.8	128.7	4.1

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

BCR-R11-12-002R0 – PFP PMB Rev 3 Update Per RCR Response

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)



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

March 2012
CHPRC-2012-03, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

RL personnel have completed their review of the Safety Basis documents that were submitted on 12/02/11 in support of knockout pot (KOP) processing operations. A Safety Evaluation Report (SER) was issued to CHPRC for the 105KW Basin on 02/21/12, for the Canister Storage Building (CSB) on 03/13/12, and for the Cold Vacuum Drying Facility (CVDF) on 03/23/12.

RL and CHPRC personnel met with DNFSB Staff on 02/28–29/12 to answer technical and programmatic questions the DNFSB Staff had submitted pertaining to the KOP Subproject. The information exchange was productive and no issues were identified that CHPRC personnel believe hinder proceeding with execution of the KOP Processing System Campaign.

Installation of the KOP Processing System hardware was completed early in calendar March. This included successfully connecting all underwater hoses, resolving an interference between the support table extension structure and an existing spent nuclear fuel rack, installing the size separations unit (the screened table), and providing the water supply and installation of a grating panel to facilitate efficient operation. The water supply line, however, failed a leak test upon being pressurized. The work management documentation has been reworked and the current plan is to obtain formal approval for this revised plan, complete rework of the failed water supply components, and retest the system the week of 04/01/12.

CH2MHILL Corporate completed their annual OCRWM Audit of CHPRC Activities. The Lead Auditor indicated there were no findings after completing review of the KOP Subproject equipment design, procurement, testing, and inspection portions of the audit.

CHPRC Engineering & Quality Assurance personnel completed source inspection of the first 38 MCO Scrap Basket Copper Inserts at the supplier's facility in New Mexico. Successful source inspection will facilitate completion of the OCRWM Certification Documentation and delivery of these safety significant components to the Hanford Site by the end of March. Forty additional copper inserts are being machined at the supplier's facility with delivery to the Hanford Site forecast for mid-April.

Final Design of the Engineered Container Retrieval and Transport System (ECRTS) Process Equipment continued this month as planned. In addition, contracts were placed with a subcontractor, HiLine, for five control panels that will be used for upcoming system tests at the Maintenance and Storage Facility (MASF). The Valve Cycling and Leak Test Procedure was also approved.

Comment resolution associated with the formal review of the modified K West Annex design package continued all month. The Safety Evaluation Board completed the Award Recommendation Report for the Annex construction contract this week and has initiated the preparation of the associated consent package. The consent package will be submitted to DOE in late calendar March as planned.

Preparations for the second STP ECRTS Technology Readiness Assessment (TRA) continue as planned. The Joint Test Group has approved Technology Readiness Level-6 checklists for all critical technology elements. Information required for the DOE TRA team was provided to DOE on 03/01/12.

The K West Annex construction project self-perform crew has made significant progress at the future construction mobile office site, removing existing railroad rails, ties and fencing, preparing for site fill and leveling starting next week. The majority of the future ECRTS mobile offices have been disconnected, furniture removed, and readied for transport to 100K Area.

On 03/05/12 MSA and the Benton County Sheriff's Office satisfactorily completed the performance of the river closure drill. The purpose of this drill was to demonstrate the ability to establish boat pickets at the Vernita Bridge boat launch and the White Bluffs Ferry Landing within one-hour of notification. The results of the drill and the establishment of the pickets demonstrated that they were able to meet the one hour time period with the most limiting time during the drill being 49 minutes. This completes one of the actions required for the readiness process for the found fuel multi-canister overpack (MCO) activity.

CVDF Operations continued to qualify Operators on the systems, bay, and control room qualification cards in order to support processing of MCOs. One additional Operator was qualified for the CVDF control room.

Work to support the last Fuel MCO was initiated in March with fuel scrap washing and sorting operations.

RL provided technical direction for management of the less than 600 micron particulate matter collected during the KOP material pretreatment campaign. This 21 liters of material will be placed in SCS-CON-230, consistent with all other material that has passed through a 600 micron screen, so long as no DOE-approved safety bases are violated.

RL also provided authorization for shipments of KOP material in the MCO and MCO cask from the K West Basin to CVDF and to CSB. These shipments will be bounded by checklist F-SPA-STP-2011-002, Revision 0, and meet the intent of the Fuel-Special Packaging Authorization (F-SPA).

HNF-SD-SNF-TI-015, Rev. 18, Spent Nuclear Fuel Project Technical Databook, Volume 2, Sludge, was approved this week. This revision provides design and safety basis values for density, total uranium, uranium metal, radionuclide concentrations and dose equivalent curies for sludge captured in Engineered Container 220.

The Phase 2 Preliminary Technology Maturation Plan was transmitted from the contractor to RL on 03/12/12. Minor comments were returned, and final submittal scheduled for the final week of the calendar month.

A meeting attended by RL, EPA, and CHPRC was held to discuss the completion of the TPA M-016-171 milestone (due 03/31/12). It was agreed that RL will transmit the Phase 2 Technology Evaluation and Alternatives Analysis along with a draft change request proposing two interim milestones in 2013 and 2014. EPA requested additional clarification in the description of the milestones, with a focus on completion of testing and technology selection. An alternative set of milestone descriptions was prepared and reviewed by RL and EPA the week of 03/19/12. Negotiation of the final wording is ongoing with everything in place to meet TPA Milestone M-016-171 before the 3/31/2012 due date.

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	1	24	3/22/2012 – Worker tripped over box and landed on left elbow which resulted in a contusion to elbow. (22708)
Near-Misses	0	0	N/A

KEY ACCOMPLISHMENTS

The project successfully completed Level 3 Readiness Assessment for Found Fuel Processing.

MAJOR ISSUES

No major issues to report this month.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

 Working - No Concerns  Increased Confidence
 Working - Concern  No Change
 Working - Critical  Decreased Confidence

Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
RL-012/WBS 012				
STP-057: PWC & IWTS IXM Change Out	Physical properties of the KOP material are not expected to result in change out of the PWC & IWTS ion exchange media. 8 Additional IXM on hand to change out as required.			No issues at this time. The physical properties of the material will not be the driver to cause a required change out. Due to normal operation of the IWTS a change out may be required sometime during the KOP material processing, this activity would result in an up to one week delay in the current schedule.
STP-030: 100K KOP Systems Operation (CHPRC Risk)	Perform aggressive CM & PM Program for the IWTS, RRS, CLS, and other system to support MCO Loading.			No issues at this time. MLS/CLS Gantry and the 32 Ton KW crane PMs due in June & August.
STP-054: KOP Startup	Initiate startup/readiness activities to minimize impacts.			KOP Startup activities may be impacted by Found Fuel processing due to USQ prestart item.
STP-ANX-002: Ecological/Cultural Conditions Restrict Field Activities	Accelerate cultural resource review to minimize schedule impact of cultural resource mitigation is required prior to initiating Annex Construction.			Cultural resource review initiated. No issues.
STP-007 Competing Priorities	Develop detailed working schedules and institute interface meetings to communicate priorities and progress. Overtime used to mitigate impacts of schedule delay.			Found Fuel MCO processing may be delayed by unknown impacts to resolve USQ. This will impact KOP startup and processing activities.

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 (%)
Base	8.1	7.3	7.6	(0.8)	-9.5	(0.3)	-3.7

Numbers are rounded to the nearest \$0.1M

CM Schedule Performance (-\$0.8M/-9.5%)

The negative schedule variance is primarily due to containerized sludge activities ahead of schedule in previous periods and realizing BCWS in the current period, K West fuel processing as there have been delays in the construction testing for the equipment installation and manufacturing delays in the delivery of the Copper Inserts for the KOP project.

CM Cost Performance (-\$0.3M/-3.7%)

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)
Base	289.1	288.5	289.8	0.6	0.2	(1.2)	-0.4	625.6	628.3	-2.7

Numbers are rounded to the nearest \$0.1M

CTD Schedule Performance (-\$0.6M/-0.2%)

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

CTD Cost Performance (-\$1.2M/-0.4%)

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 is within reporting thresholds.

FUNDS vs. SPEND FORECAST (\$M)

FY2012			
RL-0012 Spent Nuclear Fuel Stabilization and Disposition	Projected Funding	Spending Forecast	Spend Variance
Base	87.5	85.9	1.6

Numbers are rounded to the nearest \$0.1M.

Funds/Variance Analysis

The spend variance to funding reflects forecasted efficiencies achieved by the project team.

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	3/29/12		Complete

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

March 2012
CHPRC-2012-03, 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 were completed.

Base

The W&FMP continued maintaining facilities in a safe and compliant condition. Both Waste Receiving and Processing Facility (WRAP) and T Plant completed eight Technical Safety Requirement (TSR) surveillances. T Plant completed four shipments of the remaining Puck drums to Environmental Restoration Disposal Facility (ERDF). T Plant also set-up and performed venting of both 55 and 85 gallon clean drums in 2706-T to maintain proficiency with procedures and workers performance/qualifications (could support actual waste venting if required). Central Waste Complex (CWC) and Low Level Burial Ground (LLBG) supported Washington Department of Health (WDOH) and Ecology with inspections of the expansion area. CWC and LLBG also supported WDOH with air and liquid sampling evolutions. Central Waste Complex (CWC) shipped 209-E slab tanks and Hanford Engineering Development Laboratory (HEDL) 4B and 12 B Transuranic (TRU) acid drums to Perma-Fix North West (PFNW). Liquid Effluent Facilities (LEF) received five tankers (calendar year [CY] 29k gallons). 200A Treated Effluent Disposal Facility (TEDF) discharged 0.99 million gallons (CY 2.8M). At Liquid Effluent Retention Facility (LERF) Basin 44 received 197k gallons of ERDF leachate (CY 669k). Canister Storage Building (CSB) shipped Cask Transport Trailer HO-64-5260/Cask TN-WHC-01/Cold MCO H-159 to K Basin. Waste Encapsulation and Storage Facility (WESF) relocated 31 capsules out of approximately 1,000 as part of thermal balancing the capsule inventory in the pool cells.

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	5	N/A
Total Recordable Injuries	1	11	3/10/2012: Employee was walking on grating, looking down for a valve. Hit head on pipe. Body part affected: Head/Neck strain. (22694)
First Aid Cases	0	66	N/A
Near Misses	0	1	N/A

KEY ACCOMPLISHMENTS

ARRA

Lay-Up Activities

- No American Recovery and Reinvestment Act (ARRA) funded M/LLW was received during March 2012

Base

13.01 Project Management

- Continued Project Management support for high priority projects.
- Continued Business Case Analysis for deinventory of Cat I nuclear material from the Hanford Site in support of reducing site security costs.

13.02 Capsule Storage & Disposition

- Completed 31 capsule moves (370 completed of 998 scheduled)
- Completed exhaust fan K3-7-2 bearing and belt replacement
- Completed annual test of pool cell sump leak detectors
- Repaired supply fan K2 bag filter door latch and replaced roll and bag filters
- Isolated water to the canyon
- Fabricated pool cell capsule push tool
- Repaired differential pressure indicator recorder..

13.03 Canister Storage Building (CSB)

- Completed 6 month sample hood flow indicator and differential pressure indicator calibrations
- Completed 6 month AH-004 aerosol testing
- Completed readiness activities for receipt of spent nuclear fuel from K Basin
- Completed annual tube and vent cart test/inspection

- Completed repair and retest of Fire Water pump LP-500-2A
- Shipped Cask Transport Trailer HO-64-5260/Cask TN-WHC-01/Cold MCO H-159 to K Basin
- Completed quarterly stack monitoring inspections
- Completed semi-annual test on operating area heating, ventilation, and air conditioning air handler high efficiency particulate air (HEPA) filter banks PF-001/PF-00
- Completed Annual Stack Monitor Detector Calibration
- Completed annual multi-canister overpack (MCO) handling machine inspection and lubrication

13.07 WRAP

- Completed eight Technical Safety Requirement (TSRs) surveillances
- Completed 23 Preventive Maintenance (PMs) packages
- Completed 165 Rad Operational Surveillances
- Completed 197 Operational Surveillances
- Shipped five waste packages to the CWC and PFNW

13.08 T-Plant

- Completed eight Technical Safety Requirement (TSRs) surveillances
- Completed 25 Preventive Maintenance (PMs) packages
- Completed 350 Rad Operational Surveillances
- Completed 231 Operational Surveillances
- Installed new air supply for required tank level indicators enabling the facility to avoid maintenance of 2 large compressors

13.09 Central Waste Complex (CWC)

- Completed nine Technical Safety Requirement (TSRs) surveillances
- Completed nine Preventive Maintenance (PMs) packages
- Completed 130 Rad Operational Surveillances
- Completed 75 Operational Surveillances

13.11 Liquid Effluent Facilities (LEF)

- Received 5 tankers (calendar year [CY] 29k gallons)
- Treated effluent to State-Approved Land Disposal Site: 0M gallons (CY 1.8M)
- 200A Treated Effluent Disposal Facility (TEDF) discharged .99M gallons (CY 2.8M)
- Received Environmental Restoration Disposal Facility (ERDF) leachate (197k gallons) at Liquid Effluent Retention Facility (LERF) Basin 44 (CY 669k)
- Continued operating the 310 Retention Transfer System (RTS): CY 67k gallons
- Maintenance activities:
 - Completed repairs and retest of valve actuator/positioner on process control valve 60H-013
 - Completed pumping primary sump at Mixed Waste Burial Trench #31 and initiated new 90-day waste clock
 - Completed calibration of Flow Transmitter #150 in the valve vault at 310 Retention Transfer System
 - Received ERDF leachate transfer into LERF Basin 43; no leaks noted at vacuum valves
 - Completed all repairs on the Thin Film Dryer (TFD) mechanical seal and related components,

and performed retests

- Completed replacement of failed boiler drain valve
- Initiated repairs to the leak on 12-inch fire main at base to fire hydrant
- Repaired positioners on the TFD conveyor system
- Replaced two failed solenoid operating calves (SOV-1B-029/ SOV-1D-017) on air dryer system
- Installed personnel entry doors on four maintenance connex containers
- Installed spool piece and strainer assembly on outlet to Concentrate Pump 60J-P-1A
- Initiated groundwater tie-in with extraction well BP-5
- Completed annual Third Party Inspection on TFD and evaporator boilers
- Replace carbon adsorbers on Vessel Off -Gas system

13.12 Integrated Disposal Facility

- Completed four Preventive Maintenance (PMs) packages
- Completed 22 Operational Surveillances
- Completed 42 annual calibrations at the Integrated Disposal Facility (IDF)

13.16 Off Site Spent Nuclear Fuel Disposition

- Maintained coordination for offsite Spent Nuclear Fuel Disposition.

13.21 Mixed Waste Disposal Trenches

- Maintained the facility in a safe and compliant condition.
- Completed 30 Radiological and five operational surveillances.
- Disposed of four shipments totaling ten Mixed-Low-Level Waste packages receive drom PFNW.

MAJOR ISSUES

No major issues to report this month.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

Working - No Concerns
 Working - Concern
 Working - Critical

Increased Confidence
 No Change
 Decreased Confidence

Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
RL-013/WBS 013				
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.			Forecasted volumes may not allow commercial capability to remain viable. Working with vendor(s) to understand impacts.
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, However, as capability/capacity has been adjusted to align with projections peak transportation needs are problematic.
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 will document current status.
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.			Unplanned repackaging activities are nearing completion at WRAP. Legacy containers in expansion area are requiring additional resources. The Long-Term Box Storage is not in the contract Statement of Work, and will be addressed as part of the contract alignment process.
WSD-120: WESF Major System/Equipment Failure	Continue with the current maintenance program and aggressive PM and CM program.			No significant maintenance issues this month at WESF.
WSD-132: Aging Building/Systems/Components	Perform critical system reliability assessments, continue with PM/CM program, and procure critical spares.			Continue CM activities for equipment at ETF and 400 Area.
WSD-133: Results of External Audits/Assessments Impact Operations	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	0.0	0.0	(0.1)	0.0	0.0%	(0.1)	0.0%
TRU Wst Facil Trans MinSafe	<u>0.0</u>	<u>0.0</u>	<u>0.1</u>	<u>0.0</u>	0.0%	<u>(0.1)</u>	0.0%
ARRA Total	0.0	0.0	0.0	0.0	0.0%	(0.0)	-0.0%
Base	<u>8.4</u>	<u>8.5</u>	<u>8.5</u>	<u>0.1</u>	1.1%	<u>0.0</u>	0.2%
Total	8.4	8.5	8.5	0.1	1.1%	0.0	0.2%

Numbers are rounded to the nearest \$0.1M

ARRA

Current Month (CM) Schedule Performance (+\$0.0M/+0.0%)

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/-0.0%)

RL-0013 MLLW Treatment / RL-0013 TRU Waste/ RL-0013 TRU Waste Facility Transition to Min Safe
The unfavorable cost variance is within threshold.

Base

CM Schedule Performance (+\$0.1M/+1.1%)

The favorable schedule variance is within threshold.

CM Cost Performance (+\$0.0M/+0.2%)

The favorable cost variance is within threshold.

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	253.7	(0.0)	(0.0)%	1.6	0.6%
TRU Wst Facil Tran MinSafe	<u>1.5</u>	<u>1.5</u>	<u>1.3</u>	<u>0.0</u>	0.0%	<u>0.2</u>	15.0%
ARRA Total	304.5	304.5	297.7	(8.4)	(0.0)%	6.9	2.3%
Base	<u>353.6</u>	<u>352.7</u>	<u>359.0</u>	<u>(0.8)</u>	(0.2)%	<u>(6.3)</u>	(1.8)%
Total	658.1	657.3	656.7	(0.8)	(0.1)%	0.6	0.1%

Numbers are rounded to the nearest \$0.1M

ARRA

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

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

CTD Cost Performance (+\$6.9M/+2.3%)

The positive cost variance due to efficiencies in Transuranic Waste (TRU) Characterization and Shipping, TRU Repackaging, T Plant and Waste Receiving and Processing Facility (WRAP), Mixed Low Level Waste (MLLW) efficiencies created by treating waste at Energy Solutions (ES) - Clive rather than planned treatment at Perma-Fix Northwest (PNW) 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 (-\$0.8M/-0.2%)

The negative CTD schedule variance is within threshold and is due to Canister Storage Building (CSB) and Effluent Treatment Facility (ETF) activities delayed due to resource availability (assigned to higher priority activities).

CTD Cost Performance (-\$6.3M/-1.8%)

The unfavorable CTD cost variance is the result of MSA assessments above plan, TRU Retrieval additional resources to deal with FY09 deteriorated containers and drum wedge issue, FY09 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 February to March, 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
ARRA	4.6	4.6	0.0
Base	88.3	85.2	3.1
RL-0013 Total	92.9	89.8	3.1

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

BCRA-013-12-001R0 – *W&FM PMB Rev 3 RCR Administrative Changes*

BCR-013-12-002R0 – *SNM De-Inventory Analysis*

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
M-091-03F	Submit Annual Revision of TRUM and MLLW PMP to Ecology	TPA	6/30/12			On schedule
M-091-40U-T01	Retrieve a minimum of 250 cubic meters of CH RSW in FY 2012	TPA	9/30/12			To be missed. Activity currently not funded. Ltr in draft to DOE-RL.
M-091-46B-T01	Certify 300 cubic meters of small container CH TRUM waste	TPA	9/30/12			To be missed. Activity currently not funded. Ltr in draft to DOE-RL.
M-016-93B	Submit Implementation Workplan To Prepare TRU/TRUM Waste	TPA	12/31/12			On schedule
M-091-44P	Designate all RH TRUM Waste & Lrg Containers of CH TRUM Waste	TPA	12/31/12			Ahead of schedule
M-091-44Z-003	Annual PMM or Qtrly Notification of Cert of CH/RH TRUM	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)

Contract Section	Project	GFS/I	Status
CONTRACT			
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

March 2012
CHPRC-2012-03, 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 (P&T) 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 March includes the following:

- Collected 699 samples, resulting in 4,268 analyses.
- 14.8M gallons groundwater treated by ZP-1 treatment facility
- 17.8M gallons groundwater treated by KX treatment facility
- 8.8M gallons groundwater treated by KW treatment facility
- 7.0M gallons groundwater treated by KR-4 treatment facility
- 27.2M gallons groundwater treated by HX treatment facility
- 23.2M gallons groundwater treated by DX treatment facility
- .83M gallon groundwater treated by TX/TY well pumps
- 99.7M 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	589.8M Gallons through 3/31/12

TARGET ZERO PERFORMANCE

	CM Quantity	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	0	N/A
Total Recordable Injuries	0	7	N/A
First Aid Cases	2	73	<p>3/13/2012 – Employee felt pain in his hand after reviewing a large document for a couple of days. 22702 (S&GRP)</p> <p>3/29/2012 – Employee caught another employee while they were losing their balance resulting discomfort in their right shoulder. 22719 (EPC)</p>
Near-Misses	0	1	N/A

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 (CAT) Procedures (31 of 33 complete) on schedule. Commissioning of all Membrane Biological Reactors (MBRs) completed. Acceptance Test Procedures (ATPs) (12 of 23 complete) on schedule. Preparation for the Integrated Acceptance Test Procedure (IATP) and readiness continues on schedule.

Base - RL-0030.01 RL 30 Operations

Strategic Integration

- Remediation Optimization Study: Completed work group evaluations for all Central Plateau implementation areas; developed preliminary P6 schedules and draft Appendix A. Sub-unit boundaries are being adjusted to minimize constraints to implementation and logic ties are being developed.

Systematic Planning Integration

- RI/FS Documents:
 - Technical Agreements - Began facilitating weekly conference calls with RL to focus management attention on items that may be inhibiting progress on the RI/FS documents.
 - Cost Estimating - Continued to provide changes as needed to assist in the completion of the 100-K and 100-DH cost estimates as well as prepare the 100-BC, 100-F/IU, and the 300 Area workbooks for the upcoming cost estimates.
- 100 K RI/FS:
 - Document Quality Improvement - Completed coordination of Connectivity Review and Senior

Consistency Review of the 100-K RI/FS Report. Results are being incorporated into the Rev 0 working draft for RL/EPA and are also being cascaded to the remaining River Corridor RI/FS efforts.

- RI/FS Corporate Subject Matter Expert - CH2MHILL corporate RI/FS expert met with team members to review and make recommendations on the 100-K RI/FS. Results are being presented and discussed with RL.

Environmental Databases

- HEIS/Sample Data Tracking Training and Support – Provided training to MSA personnel (Public Safety and Resource Protection department) in the use of the Sample Data Tracking (SDT) application and Hanford Environmental Information System (HEIS). SDT was modified to allow its use for input to the HEIS database to support the Ecological Monitoring and Compliance program.
- Graphic Information System (GIS) Support for Stakeholders – Modified the external Environmental Dashboard Application to provide access to spatial data associated with groundwater, wells, and WIDS sites. This was done in response to multiple requests to RL from stakeholders for GIS data and information that has been cleared for public release.
- Sample Management Integrated Lifecycle Environment (SMILE) – Application SMILE Version Number 1.3.0 was implemented on March 9, 2012. This release included updates and bug fixes for the Analytical Services, Sample Planning, and Task Planning modules.

Central Plateau

200-BP-5 Operable Unit – Base

- Pump and Transducer installations for wells at Site One and Site Two have been completed. The fabrication of mechanical and electrical well racks were completed and installed on-site with 99% field activities completed with electrical terminations and piping connections. Effluent Treatment Facility (ETF) pipeline tie-in activities have also been completed.

200-UP-1 Operable Unit – Base

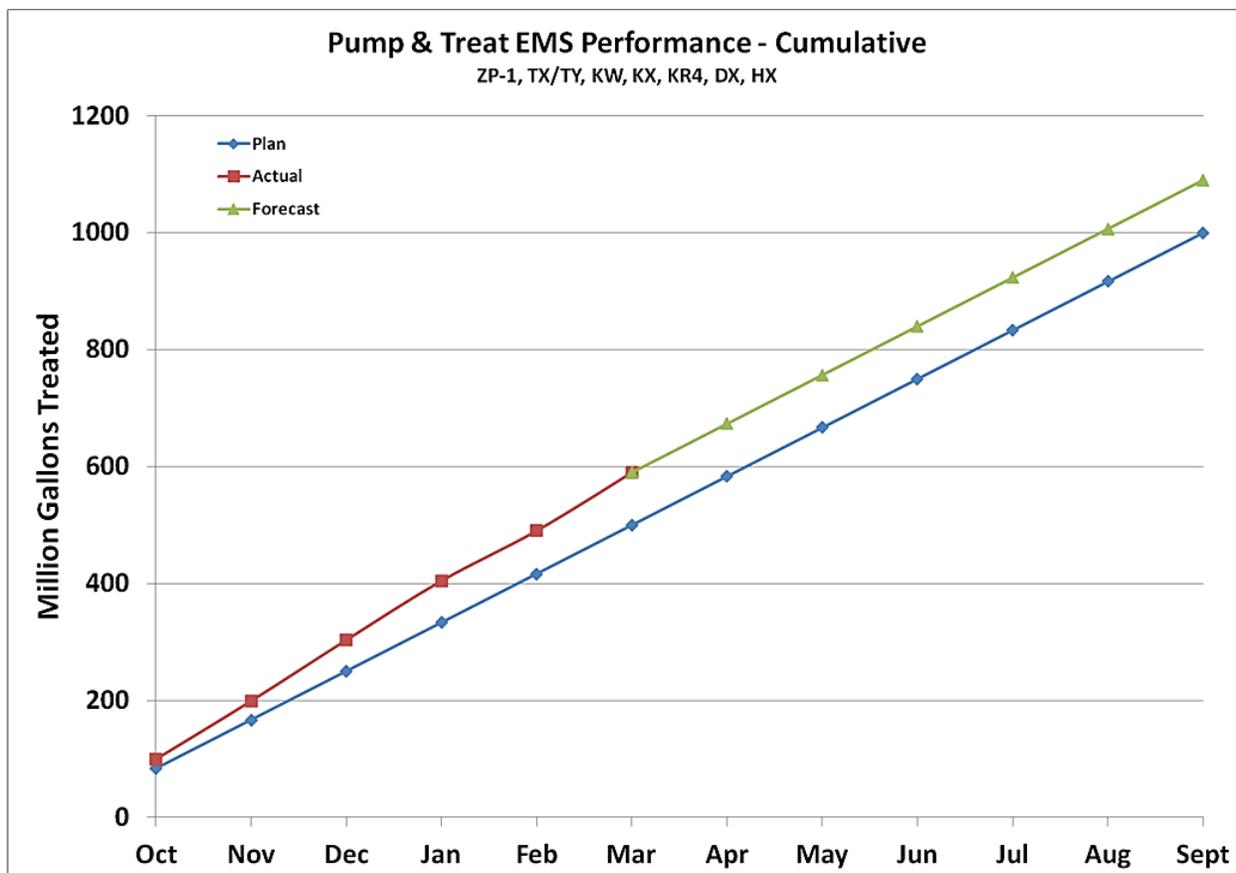
- Construction and Acceptance Test Procedure (ATP) of the Waste Management Area (WMA) S-SX extraction system was completed, except for final pipeline connects to the 200 West Treatment Facility and the well racks, which are scheduled to be made by April 2012. Punch list items from field walkdowns of the system with Operations are being worked.
- Received EPA comments on the final Draft Remedial Investigation/Feasibility Study (RI/FS). A series of comment resolution meetings were held with EPA the last week of February and early March. Comment resolutions are currently in the process of being incorporated into the document.

200-ZP-1 Operable Unit - Base

- The interim P&T system is currently operating at 310 gpm. Discharge lines for off-line interim extraction wells are being flushed as part of layup process.
- Locations for final water level monitoring stations for the 200 West P&T system are currently being defined through modeling.

Pump and Treat Operations - Base

- P&T Operations is trending ahead of the goal of reaching one billion gallons of treated contaminated groundwater in FY2012.



MAJOR ISSUES

Issue - The number of comments on CERCLA document comments and the need for policy and technical decisions is impacting contractual delivery due dates and decreasing float on major TPA Milestone M-015-00D “DOE shall complete the RI/FS process through the submittal of a Proposed Plan for all 100 and 300 Area operable units”.

Corrective Action -

- Maintain list of policy and technical decisions that remain open and have been resolved
- Development of detailed Field Execution Schedules
- Engagement of Assistant Manager for Central Plateau (AMCP) Management for technical decisions
- Identified additional resources necessary to meet schedule
- Partnering sessions between RL and CHPRC

Status - AMCP Management is working with the Regulators to determine the appropriate path forward on policy level decisions. Additional resources have been obtained and are fully engaged in the completion of the CERCLA documents.

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 continue to work with Soil & Groundwater Operations to work the funding issues by:

- 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

Status - BCRs were implemented in February utilizing DOE RL-0030.C Capital Asset Project Management Reserve for the realized risks discussed above. Funds issues remain to be resolved within the project and the overall Project Baseline Summary (PBS).

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

 Working - No Concerns
 Working - Concern
 Working - Critical

 Increased Confidence
 No Change
 Decreased Confidence

Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
RL-030/WBS 030				
SGW-062: WSCF Availability or Performance	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.
SGW-080: 100-BC-5 Pump and Treat Required	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.
SGW-081: 100-FR-3 Pump and Treat Required	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. Examples include the addition of irrigation within the unrestricted land use which has overarching impacts on other projects. Potential additional impacts due to EPA questions regarding sampling of UPR-100K-1, 116-KE-3 and 116-KE-1.
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. The 100-K EPA comments will also be addressed in 100-HR-3.
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.			Routine meetings with Ecology began late March and will continue through document development.
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.			Final EPA comments were received in February resulting in several meetings to resolve. Significant effort is underway to revise the RI/FS & PP to incorporate the changes in the documents. No changes in risk until EPA's concurrence on the revised documents are received.

SGW-017: Groundwater Flow Less Than Planned -200 West P&T	Well installation was accelerated to provide more definitive basis for well production rates. Since it was determined that additional wells would be required to meet 2000 gpm, resources have already been utilized to update the test plan and perform associated construction activities (e.g. installation of well racks, tie-in of wells, lay HDPE). If performance of facility is unacceptable during testing or startup of operations, new wells may be required to meet ROD requirements. Interim injection wells are being hooked up at this time for additional injection capacity.	●	↔	Modifications performed at ITB #2. Additional modifications may be required at other ITB #1. This issue will be addressed through acceptance testing process.
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.	●	↔	As readiness continues, additional design modifications may be requested to facilitate turnover of facility (e.g. fiber optic cable).
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.	●	↔	Overtime is utilized to keep scope on schedule for readiness/turnover. 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.	●	↔	Cost impacts continue as emergent work is identified and to meet targeted turnover date.
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.	●	↔	Final integration of instruments and software will continue to present until ATP/IATP is complete (i.e. profibus connections, analytical, instruments).

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-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.			Turnover requires a more rigorous approach to readiness prior to turnover that is different than the commercial type of approach in the baseline. Cost and schedule impacts are realized as IATP strategy has changed.

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	4.5	3.7	3.8	(0.8)	-17.7	(0.1)	-1.5
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
Subtotal RL-0030.C	4.5	3.7	3.9	(0.8)	-17.7	(0.2)	-4.8
Base RL-0030.O1 RL 30 (Operations)	8.4	8.3	7.5	(0.1)	-1.5	0.8	9.5
ARRA RL-0030.R1.3 Support Operations	<u>0.0</u>	<u>0.0</u>	<u>0.2</u>	<u>0.0</u>	0.0	<u>(0.2)</u>	0.0
Total	12.9	11.9	11.5	(0.9)	-7.2	0.4	3.4

Numbers are rounded to the nearest \$0.1M.

CM Schedule Performance

Current month schedule variances that exceed thresholds are as follows:

RL-0030.C (-\$0.8M/-17.7%)

Base RL-0030.C1 GW Remedy Implementation (-\$0.8M)

200 ZP-1 Operable Unit (-\$0.8M)

The project is slightly ahead of schedule and the negative variance for the current period is the result of realized BCWS for work completed in previous months.

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) (-\$0.1M)

All current month variances are within reporting thresholds.

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 cost variances that exceed thresholds are as follows:

RL-0030.C (-\$0.2M/-4.8%)**Base RL-0030.C1 GW Remedy Implementation (-\$0.0M)**

All current month variances are within reporting thresholds.

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) (+\$0.8M/+9.5%)****GW Monitoring & Performance Assessments (+\$0.5)**

BCR-030-12-010R0 for the Impact of the WSCF Ventilation Hood and resulting stop work was implemented and resulted in a current month point adjustment. The WSCF laboratory stop work was a realized risk and management reserve was utilized to mitigate the impact.

RL-0030.R1.3**ARRA RL-0030.R1.3 Support Operations (-\$0.2M)**

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	63.6	64.8	70.7	1.2	1.9	(5.9)	-9.1	73.4	80.1	(6.7)
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	40.7	38.4	2.4
Subtotal RL-0030.C	279.3	280.5	283.8	1.2	0.4	(3.3)	-1.2	289.1	293.5	(4.4)
Base RL-0030.O1 RL 30 (Operations)	417.3	418.7	420.4	1.4	0.3	(1.7)	-0.4	1,251.2	1,245.7	5.5
ARRA RL-0030.R1.3 Support Operations	<u>51.4</u>	<u>51.4</u>	<u>51.1</u>	<u>(0.0)</u>	-0.0	<u>0.3</u>	0.5	51.4	51.1	0.3
Total	<u>748.0</u>	<u>750.6</u>	<u>755.5</u>	<u>2.6</u>	0.4	<u>(4.9)</u>	-0.6	1,591.7	1,590.3	1.4

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 (+\$1.2M/+0.4%)**Base RL-0030.C1 GW Remedy Implementation (+\$1.2M)**

Contract to Date variances are within threshold. See variance explanation below.

200 ZP-1 Operable Unit (+\$1.2M)

Performance of ATP activities is slightly ahead of the Baseline Schedule. MBR recirculation and piping modifications, including those for sludge stabilization system, have occurred slightly faster than planned in the baseline.

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) (+\$1.4M/+0.3%)

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 (-\$3.3/-1.2%)

Base RL-0030.C1 GW Remedy Implementation (-\$5.9M)

200-ZP-1 Operable Unit (-\$5.9M)

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) (-\$1.9M/-0.4%)**Integration & Assessments (+\$4.3M)

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 (-\$2.4M)

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 (+\$2.8M)

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 (-\$3.6M)

Primary contributors to the negative cost variance are as follows:

- 100 DX- Extensive effort required to design the pH adjustment system as the design components were more difficult and required more resources than budgeted, cost overruns in completing the OU Remedial Process Optimization studies.
- 100 DX -The acceptance test plan (ATP) and the operational test plan (OTP) was more involved than planned with resource requirements exceeding the budget for the scope, additionally the work was performed in freezing weather requiring 24/7 attention to prevent freezing of pipes to continue water flow to and from wells.
- Cost of realigning wells from DR-5 to 100 DX was greater than planned as a result of continuing operation of DR-5, until DX was fully operational.
- 100 HX- copper material costs increased significantly between estimate and procurement of materials resulting in cost over-runs. Additionally the ATP was more involved than planned with resource requirements exceeding the budget for the scope.
- Additional time and resources being spent on internal CERCLA (RI/FS) document development as a result of extensive RL comments.

200-ZP-1 OU (+\$1.0M)

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 (+\$1.2M)

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 (-\$1.1M)

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.

Ramp-up and Transition (-\$2.8M)

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

RL-0030.R1.3**ARRA RL-0030.R1.3 Support Operations (+\$0.3M/+0.5%)**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 (-\$2.0M)

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 +1.0%.

Base – The projected variance at completion of +0.1% 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		
	Projected Funding	Spending Forecast	Spend Variance
ARRA	0.6	0.6	0.0
Base	121.1	123.4	(2.3)
RL-0030 Total	121.7	124.1	(2.3)

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-030-12-006R0 - *Incorporation of Definitization of Change Order #072 for Operation and Maintenance of the 200 West Pump and Treat System*

BCR-030-12-010R0 - *RL-30 WSCF Ventilation Fume Hood Impacts*

BCR-030-12-014R0 - *RL-30 Miscellaneous Corrections after PMB Rev-3.*

BCRA-030-12-017R0 - *RL-30 March General Administrative Changes*

FY2012 Management Reserve (Funded):

ARRA = \$0.0M

Base = \$2.4M

\$479K of MR was used in March for BCR-030-12-010R0, 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-091-40L-033	Submit Oct-Dec 1 st Quarter Burial Ground Sample Results	TPA	3/15/12		3/15/12	Complete
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		11/14/12	Working with DOE regarding a recovery schedule and path forward
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		11/20/12	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

Number	Title	Type	Due Date	Actual Date	Forecast Date	Status/ Comment
M-015-110D	Submit Technicum-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		6/13/12	On Schedule
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 rd 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		12/13/12	Currently DOE is working with Ecology to adjust milestone date

Number	Title	Type	Due Date	Actual Date	Forecast Date	Status/ Comment
M-016-110-T01	Take Actions to Contain or Remediate Hexavalent Cr 100A GW Plumes	TPA	12/31/12		9/28/12	On Schedule
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		12/13/12	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)



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

March 2012
CHPRC-2012-03, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

ARRA

No significant activity.

Base

Completed 12 operational surveillances and 54 Radiological Operations surveillances.

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	1	N/A
Total Recordable Injuries	0	4	N/A
First Aid Cases	0	29	N/A
Near-Misses	0	0	N/A

KEY ACCOMPLISHMENTS

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

- Nothing reported

Base

- Completed 12 operational surveillances
- Completed 54 Radiological Operations surveillances.
- Completed 14 preventive maintenance (PM) activities.
- Developing the Change Proposal for Contract Change Order 174, Central Plateau surplus steam line landlord responsibilities.

MAJOR ISSUES

No major issues to report this month.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

 Working - No Concerns
 Working - Concern
 Working - Critical

 Increased Confidence
 No Change
 Decreased Confidence

Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
RL-040/WBS 040				
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.			No issues at this time.
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.
WSR-006: Decision Document Approval Delays	Work with RL and regulators to establish priorities and need dates.			No issues at this time.
WSR-007: More Extensive Contamination Than Expected	Cannot control extent of contamination; no mitigation.			No issues at this time.
WSR-008: No Action Waste Sites	Using L-8 table data; no mitigation.			No issues at this time.
WSR-021: Remediation Subcontractor Performance	This risk is accepted as written and will be monitored throughout work execution.			No issues at this time.
WSR-028: Unexpected Liquid in Pipelines/Tanks	Anticipate liquids in field work plans; include spill response plans in RD/RAWPs.			No issues at this time.

D4-038: In-Place Demolition of Asbestos Siding	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.
PRC-010: Requirements Change	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.
PRC-014: Site-Wide Occurrence	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	0.0	0.0	0.5	0.0	0.0	(0.5)	(0.0)
Outer Zone	0.0	0.0	(0.0)	0.0	0.0	0.0	0.0
ARRA Total	0.0	0.0	0.5	0.0	0.0	(0.5)	(0.0)
Base	1.3	1.1	1.4	(0.2)	(14.4)	(0.3)	(23.8)
Total	1.3	1.1	1.8	(0.2)	(14.4)	(0.7)	(64.5)

Numbers are rounded to the nearest \$0.1M

ARRA

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

ARRA RL-0040.R1.1 U Plant/Other D&D Positive variance is within reporting threshold.

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

CM Cost Performance: (-\$0.5M/-0.0%)

ARRA RL-0040.R1.1 U Plant/Other D&D Negative variance is within reporting threshold.

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

Base

CM Schedule Performance: (+\$0.2M/-14.4%)

Positive variance is within reporting threshold.

CM Cost Performance: (-\$0.7M/-64.5%)

Unfavorable Cost variance is due to demobilization and surveys requiring increased resources and costs for MSA fleet services (equipment rental) significantly greater than plan.

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)
U Plant/Other	199.4	199.3	193.2	(0.1)	-0.0	6.1	3.1	199.4	193.5	5.9
Outer Zone	<u>84.3</u>	<u>84.3</u>	<u>71.7</u>	<u>0.0</u>	0.0	<u>12.6</u>	15.0	84.3	71.7	12.6
ARRA Total	283.7	283.6	264.9	(0.1)	-0.0	18.7	6.6	286.7	265.2	18.5
Base	<u>74.1</u>	<u>74.0</u>	<u>66.7</u>	<u>(0.1)</u>	<u>(0.1)</u>	<u>7.3</u>	<u>9.8</u>	686.7	667.9	18.8
Total	357.7	357.6	331.6	0.1	0.0	26.0	7.3	970.4	93.1	37.3

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: (+\$18.7M/+6.6%)

ARRA RL-0040.R1.1 U Plant/Other D&D - 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 - 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/-0.1%)

All variances are within thresholds.

CTD Cost Performance: (+\$7.3M/+9.8%)

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 February to March for both ARRA and Base, are within reporting thresholds.

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

WBS 040/RL-0040 Nuclear Facility D&D	FY2012		Spend Variance
	Projected Funding	Spending Forecast	
ARRA	9.2	9.2	0.0
Base	11.3	12.2	(0.9)
RL-0040 Total	20.5	21.4	(0.4)

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-040-12-001R0 - *Defer 6652L and Add U Canyon S&M Turnover*

BCR-040-12-002R0 - *Steam Repair in 200West*

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)



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

March 2012
CHPRC-2012-03, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

American Recovery and Reinvestment Act (ARRA)

Facilities

Completed disposal of large equipment to the Environmental Restoration and Disposal Facility (ERDF) from the 190KW Main Pump House.

Base

Facilities

Completed the Final Design for the 105KE Reactor Disposition Interim Safe Storage (ISS).

Began removal of core drilling slurry waste water drums from within 105KE Reactor building.

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

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

Continued with pipe cuts on 105KE tunnel.

Continued non-boiler room asbestos removal on 165KE structure. Continue with below grade demolition on 183K Emergency Water Reservoir Pump House.

Began asbestos removal of 165KW structure.

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	1	N/A
Total Recordable Injuries	0	1	N/A
First Aid Cases	0	16	N/A
Near-Misses	0	0	N/A

KEY ACCOMPLISHMENTS

ARRA

Facilities

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

Base

Facilities

- Continued repair work on the 105KE reactor building openings. Overall work is 80 percent complete.
- Completed Final Design for 105KE Interim Safe Storage.
- Continued working hazardous material removal including the removal of core drilling slurry waste water drums from the 105KE facility.
- Completed the load-out of 183.2KE Basin sediment.
- Continued with asbestos abatement of 105KE tunnel and pipe cuts.
- Continued with erecting scaffolding and demolition preparation at 183.7 structure when resources allow.
- Continued non-boiler room asbestos removal at 165KE ahead of schedule.

Waste Sites

- Initiated remediation of waste sites 100-K-3, 100-K-68, 100-K-69, 100-K-70, and 100-K-71.
- Development of plan for modeling to determine protectiveness for waste sites around the 105KE reactor building is underway.
- Performed detailed sampling of soil east of the 105KE reactor building in Area AH to determine the extent of contamination.
- Completed Verification Sampling Instructions (VSI's) for Area AA Zone 1 and Area AA Zone 2 and transmitted to DOE for review.
- The Memorandum of Agreement (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

No major issues to report this month.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

 Working - No Concerns
 Working - Concern
 Working - Critical

Increased Confidence
 No Change
 Decreased Confidence

Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
RL-041/WBS 041				
KBC-004: Contamination Depth Greater Than Planned	Cannot control extent of contamination; Mitigate risk utilizing total tons within the PMB volume for 100-K waste sites Remediation.		↔	The 100K waste sites that have been remediated to date realized more tons of waste than planned. CHPRC will continue to use planned BCWS up to the planned PMB total tons estimated.
WSR-009: Different Remediation Approach	Clean up remedies are consistent with direction received from RL in the PRC. There is a risk that the regulators will require a different cleanup remedy that what is planned.		↔	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 percolation 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	Accelerate cultural resource reviews; work with team to provide necessary information to mitigate resources issues. This risk will be monitored throughout work execution.		↔	TPA-CN-499 moved waste sites associated with TPA milestone M-16-53 into Phase 2 TPA Milestone M-16-143 due December 29, 2015.
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.		↔	Developing modeling data associated with KE waste sites to determine remediation. Model results will be shared with stakeholders for path forward.
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.		↔	Contaminated Pipe Remediation initiated – Progressing as scheduled. No concerns.
WSR-047: Unforeseen Waste Site Event	Perform routine surveillances and maintenance of waste sites including herbicide application.		↔	Contaminated Pipe Remediation initiated – Progressing as scheduled. No concerns.
PRC-010: Requirements Change	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.
PRC-014: Site-Wide Occurrence	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 041/RL-0041 Nuclear Facility D&D – River Corridor	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)
ARRA	0.3	0.3	1.2	0.0	1.2	(0.9)	-293.4
Base	<u>1.8</u>	<u>2.2</u>	<u>2.1</u>	<u>0.5</u>	29.1	<u>0.2</u>	9.0
Total	2.1	2.6	3.3	0.5	25.1	(0.7)	-25.6

Numbers are rounded to the nearest \$0.1M

ARRA

CM Schedule Performance: (+\$0.0M/+1.2%)

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

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

CM Cost Performance: (-\$0.9M/-293.4%)

Waste Sites (-\$0.4M) The negative variance is due to a cost transfer the month that was completed earlier in the fiscal year and charged to Base funding.

100K Area Project (-\$0.5M) 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 and unplanned equipment rentals costs.

Base

CM Schedule Performance (+\$0.5M/-29.1%)

Waste Sites (+\$1.7M) The positive schedule variance is due to implementation of BCR-008 and 009 which deferred scope to out years.

100K Area Project (Facilities and Others) (-\$1.2M) The negative variance is due to K East Sedimentation Basin, 165KE Structure and 105KE Water Tunnel are behind schedule due to limited resources.

CM Cost Performance (+\$0.2M/+9.0%)

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

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)
ARRA	178.2	177.7	180.9	-0.5	-0.3	(3.2)	-1.8	179.7	183.0	(3.3)
Base	<u>90.9</u>	<u>89.8</u>	<u>75.1</u>	<u>-1.1</u>	-1.2	<u>14.6</u>	16.3	<u>313.5</u>	<u>299.0</u>	<u>14.5</u>
Total	269.1	267.5	256.0	-1.6	-0.6	11.4	4.3	493.2	482.0	11.3

Numbers are rounded to the nearest \$0.1M

ARRA

CTD Schedule Performance: (-\$0.5M/-0.3%)

Waste Sites (-\$0.5M) The negative variance is due to backfills for Waste Sites being behind. Sub-contract has been issued and work has been initiated.

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

CTD Cost Performance: (-\$3.2M/-1.3%)

Waste Sites (+\$8.5) 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 (-11.7M) 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 (-\$1.1M/-1.8%)

Waste Sites (+\$1.1M) The positive cost variance is due to CSNA sites that were completed at less than anticipated cost. This is offset by Area AM not being worked as schedule due to the MOA not being approved

100K Area Project (Facilities and Others) (-\$2.2M) The negative schedule variance is due to being behind on K East Sedimentation, 105KE Water Tunnel and 1908K Structure due to limited resources. 1908 is also impacted by the MOA not being approved.

CTD Cost Performance (+\$14.6M/+16.5%)

Waste Sites (+\$10.0M) 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) (+\$4.6M) 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
ARRA	6.5	6.5	0.0
Base	36.1	34.2	1.9
RL-0041 Total	42.6	40.7	1.9

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

BCRA-041-12-006R0 - *RL-0041 Waste Site Milestones & EVM Coding Correction*

BCR-041-12-007R0 - *105KE ISS Revised Estimate*

BCR-041-12-008R0 - *100K Waste Sites Associated with 105KE ISS*

BCR-041-12-009R0 - *100K Waste Sites Phase 1 TPA, Sampling, and 115KW and 117KW Deferral*

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
M-016-53	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
Vice President and
Project Manager for
Waste and Fuels
Management Project

March 2012
CHPRC-2012-03, 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

(\$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	0.2	0.2	0.2	0.0	0.0%	-0.0	-13.6%

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: (-\$0.0M/-13.6%)

The current month cost variance is within reporting thresholds.

Contract-to-Date

(\$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	12.9	12.9	11.4	0.0	0.0%	1.5	11.5%	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/+11.5%)

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 changes in EAC from February to March for both ARRA and Base, are within reporting thresholds.

FUNDS vs. SPEND FORECAST (\$M)

FY2012			
RL-0042 FFTF Closure	Projected Funding	Spending Forecast	Spend Variance
Base	2.0	1.9	0.1

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



March 2012
CHPRC-2012-03, 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) 2012 / 02 / 20																																		
b. LOCATION (Address and ZIP Code) Richland, WA										b. NUMBER RL14788			b. PHASE			b. TO (YYYYMMDD) 2012 / 03 / 25																																		
										c. TYPE CPAF			d. SHARE RATIO			c. EVMS ACCEPTANCE NO YES X 9/18/2009																																		
5. CONTRACT DATA																																																		
a. QUANTITY		b. NEGOTIATED COST 5,401,410		c. ESTIMATED COST OF AUTHORIZED UNPRICED WORK 364,422		d. TARGET PROFIT/ FEE 250,237		e. TARGET PRICE 5,651,647		f. ESTIMATED PRICE 6,726,411		g. CONTRACT CEILING 5,651,647		h. ESTIMATED CONTRACT CEILING 6,726,411		i. DATE OF OTB/OTS																																		
6. ESTIMATED COST AT COMPLETION													7. AUTHORIZED CONTRACTOR REPRESENTATIVE																																					
													a. NAME (Last, First, Middle Initial) Bang, M.V.					b. TITLE Prime Contract Manager																																
													c. SIGNATURE					d. DATE SIGNED 3/28/2012																																
8. PERFORMANCE DATA																																																		
WBS[1]													CURRENT PERIOD					CUMULATIVE TO DATE					REPROGRAMMING ADJUSTMENTS					AT COMPLETION																						
													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)		VARIANCE (12a)			VARIANCE (12b)			BUDGET (13)			(14)			(15)			(16)		
011 RL-11 NM Stabilization and Disposition PFP													10,709		12,022		11,562		1,313		460		475,584		472,585		482,148		(2,998)		(9,563)		0			0			0			889,114			901,787			(12,673)		
012 RL-12 SNF Stabilization and Disposition													8,078		7,315		7,586		(764)		(271)		289,078		288,517		289,765		(562)		(1,249)		0			0			0			625,569			627,912			(2,343)		
013 RL-13 Solid Waste Stabilization & Disposition													8,420		8,514		8,495		94		19		658,091		657,251		656,693		(841)		557		0			0			0			1,828,738			1,827,442			1,295		
030 RL-30 Soil & Wtr Remediatn Grndwtr/Vadose Zone													12,874		11,949		11,539		(925)		411		748,010		750,641		755,505		2,631		(4,864)		0			0			0			1,591,709			1,590,288			1,422		
040 RL-40 Nuclear Facility D&D Remainder of Hanford													1,308		1,119		1,841		(189)		(722)		357,744		357,590		331,563		(154)		26,027		0			0			0			970,350			933,063			37,287		
041 RL-41 Nuclear Facility D&D - River Corridor													2,052		2,569		3,227		516		(659)		269,158		267,523		256,025		(1,635)		11,498		0			0			0			493,274			485,808			7,466		
042 RL-42 FTF Closure													182		182		206		0		(25)		12,877		12,877		11,398		0		1,479		0			0			0			25,429			24,250			1,178		
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													43,624		43,669		44,456		45		(787)		2,810,542		2,806,984		2,783,098		(3,558)		23,886		0			0			0			6,424,182			6,390,550			33,633		
f. Management Reserve													0		0		0		0		0		0		0		0		0		0		0			0			0			85,625								
g. Total													43,624		43,669		44,456		45		(787)		2,810,542		2,806,984		2,783,098		(3,558)		23,886		0			0			0			6,509,807								
9. Reconciliation to CBB																																																		
a. Variance Adjustment																																																		
b. Total Contract Variance																																																		

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) 2012 / 02 / 20										
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14738				b. PHASE				b. TO (YYYYMMDD) 2012 / 03 / 25										
c. TYPE CPAF		d. SHARE RATIO				c. EVMS ACCEPTANCE NO YES X 9/18/2009														
5. PERFORMANCE DATA																				
FOC ITEM (1)	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)										
30A - Project Services & Support																				
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				
	0	0	0	0	0	324,047	324,047	295,756	0	28,291	0	0	0	324,047	295,756	28,291				
30B - WBS 98 PSD Distribution																				
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				
	0	0	0	0	0	67,718	67,718	69,727	0	(2,008)	0	0	0	67,718	69,727	(2,008)				
30C - WBS 98 R&RP Distribution																				
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)				
	0	0	0	0	0	5,000	5,000	9,417	0	(4,417)	0	0	0	5,000	9,417	(4,417)				
30W - WBS 98 WFR Distribution																				
011.A3 - PSD WFR	0	0	0	0	0	2,996	2,996	2,996	0	0	0	0	0	2,996	2,996	0				
012.A3 - PSD WFR	0	0	0	0	0	22	22	22	0	0	0	0	0	22	22	0				
013.A3 - PSD WFR	0	0	0	0	0	12,490	12,490	12,490	0	0	0	0	0	12,490	12,490	0				
040.A3 - PSD WFR	0	0	0	0	0	2,053	2,053	2,053	0	0	0	0	0	2,053	2,053	0				
041.A3 - PSD WFR	0	0	0	0	0	2,568	2,568	2,568	0	0	0	0	0	2,568	2,568	0				
	0	0	0	0	0	20,128	20,128	20,128	0	0	0	0	0	20,128	20,128	0				
34 - Environmental Prog & Strategic Planning																				
030.2 - Envir Prog & Strategic Planning	515	535	418	19	116	34,291	34,053	31,307	(238)	2,745	0	0	0	76,695	74,125	2,570				
	515	535	418	19	116	34,291	34,053	31,307	(238)	2,745	0	0	0	76,695	74,125	2,570				
35 - Business Services																				
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	191	0	(191)	23,047	23,047	23,516	0	(468)	0	0	0	23,047	23,516	(469)				
	0	0	191	0	(191)	44,816	44,816	45,284	0	(468)	0	0	0	44,816	45,285	(469)				
3A - 100K Area Project																				
012.1 - 100 K Area Project	3,618	3,426	3,492	(191)	(66)	101,555	101,318	104,419	(238)	(3,101)	0	0	0	247,243	251,088	(3,845)				
012.2 - Sludge Treatment Project	4,461	3,889	4,094	(572)	(205)	135,102	134,778	133,111	(324)	1,667	0	0	0	325,904	324,588	1,316				
040.1 - PRC D&D	26	13	724	(14)	(711)	189,680	189,590	186,083	(90)	3,507	0	0	0	418,469	404,397	14,072				
040.2 - D&D Fac Waste Site Remediation	0	0	3	0	(3)	67,490	67,601	60,099	111	7,502	0	0	0	378,476	371,088	7,388				
041.1 - River Zone	3,202	2,061	2,093	(1,141)	(32)	156,405	154,149	170,460	(2,256)	(16,312)	0	0	0	339,967	354,160	(14,193)				
041.3 - Waste Sites	(1,149)	508	1,134	1,657	(627)	60,219	60,840	42,291	621	18,549	0	0	0	100,772	88,374	12,398				
	10,157	9,896	11,540	(261)	(1,644)	710,451	708,275	696,463	(2,176)	11,812	0	0	0	1,810,832	1,793,695	17,137				
3B - PFP Closure, BOS & Infrastructure																				
011.1 - Plutonium Finishing Plant	10,709	12,022	11,562	1,313	460	392,543	389,545	405,961	(2,998)	(16,416)	0	0	0	806,074	825,599	(19,526)				
	10,709	12,022	11,562	1,313	460	392,543	389,545	405,961	(2,998)	(16,416)	0	0	0	806,074	825,599	(19,526)				
3C - Waste & Fuels Management Project																				
013.1 - Waste Management	8,420	8,514	8,495	94	19	553,170	552,329	550,921	(841)	1,408	0	0	0	1,723,816	1,721,670	2,146				
042.1 - FTF	182	182	206	0	(25)	11,273	11,273	9,883	0	1,390	0	0	0	23,825	22,736	1,089				
040.3 - PRC Fac & Waste Site Maint	1,282	1,106	1,114	(175)	(7)	29,307	29,132	27,196	(175)	1,936	0	0	0	102,138	99,394	2,744				
	9,883	9,802	9,815	(82)	(19)	593,750	592,734	588,000	(1,016)	4,734	0	0	0	1,849,778	1,843,799	5,979				
3D - Soil & Groundwater Remediation																				
030.1 - Soil & GW Remediation	7,898	7,750	7,086	(148)	664	354,399	356,051	343,874	1,652	12,177	0	0	0	1,142,452	1,122,735	19,717				
	7,898	7,750	7,086	(148)	664	354,399	356,051	343,874	1,652	12,177	0	0	0	1,142,452	1,122,735	19,717				
3F - Engineering, Projects & Construction																				
030.3 - EPC - Groundwater	4,461	3,665	3,844	(796)	(179)	263,400	264,618	277,182	1,218	(12,564)	0	0	0	276,643	290,286	(13,643)				
	4,461	3,665	3,844	(796)	(179)	263,400	264,618	277,182	1,218	(12,564)	0	0	0	276,643	290,286	(13,643)				
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	43,624	43,669	44,456	45	(787)	2,810,542	2,806,984	2,783,098	(3,558)	23,886	0	0	0	6,424,182	6,390,550	33,633				
f. Management Resrv.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
g. Total	43,624	43,669	44,456	45	(787)	2,810,542	2,806,984	2,783,098	(3,558)	23,886	0	0	0	6,509,807						

FORMAT 3, DD FORM 2734/3, BASELINE

March 2012 Monthly Report

CONTRACT PERFORMANCE REPORT													Form Approved OMB No. 0704-0188			
FORMAT 3 - BASELINE						DOLLARS IN THOUSANDS										
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: 2012/02/20 b. TO: 2012/03/25				
5. CONTRACT DATA			a. ORIGINAL NEGOTIATED COST 4,312,366		b. NEGOTIATED CONTRACT CHANGE \$1,089,043		c. CURRENT NEGOTIATED COST (A + B) \$5,401,410		d. ESTIMATED COST AUTH UNPRICED WORK 364,422		e. CONTRACT BUDGET BASE (C + D) \$5,765,831		f. TOTAL ALLOCATED BUDGET \$6,574,604		g. DIFFERENCE (E - F) (\$808,773)	
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 Apr-12 (4)	+2 May-12 (5)	+3 Jun-12 (6)	+4 Jul-12 (7)	+5 Aug-12 (8)	+6 Sep-12 (9)							
a. PM BASELINE (BEGIN OF PERIOD)		2,766,919	43,624	36,271	44,499	33,958	32,446	43,998	51,013	653,426	960,017	1,002,105	440,490	3,351,944	0	6,407,982
b. BASELINE CHANGES AUTH DURING REPORT PERIOD																
BCRA-013-12-001R0 - W&FM PMB Rev3 RCR Administrative Changes													0	0		0
BCRA-030-12-017R0 - RL-30 March General Administrative Changes													0	0		0
BCRA-041-12-006R0 - RL-41 Waste Site Milestones & EVM Coding Correction													0	0		0
BCR-011-12-002R0 - PFP PMB R3 Update per RCR Response													(3,360)	3,275		(85)
BCR-013-12-002R0 - SNM De-Inventory Analysis													227	226		453
BCR-030-12-006R0 - Incorp. of Definitization of Change Order #072 for Operation and Maint. of the 200 West P&T System													0	82,669		82,669
BCR-030-12-010R0 - RL-30 drawdown of MR for realized risk related to WSCF analysis													479	0		479
BCR-030-12-014R0 - RL-30 Misc. Corrections after PMB rev-3.													(8)	(2,735)		(2,743)
BCR-040-12-001R0 - Defer 6652L and Add U Canyon S&M Turnover													(2,994)	3,216		222
BCR-040-12-002R0 - Steam Repair in 200West													0	0		0
BCR-041-12-007R0 - 105KE ISS Revised Estimate													1	2		3
BCR-041-12-008R0 - 100K Waste Sites Associated with 105KE ISS													2,082	(2,082)		0
BCR-041-12-009R0 - 100K Waste Sites Phase 1 TPA, Sampling, and 115KW and 117KW Deferral													(3,237)	3,236		(1)
c. PM BASELINE (END OF PERIOD)		2,810,542		36,916	44,431	32,313	31,222	43,015	50,789	653,426	960,017	1,002,105	433,680	3,439,751	0	6,488,979
7. MANAGEMENT RESERVE																85,625
8. TOTAL																6,574,604

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) 2012 / 02 / 20				
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE			b. TO (YYYYMMDD) 2012 / 03 / 25						
		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 Apr	+2 May	+3 Jun	+4 Jul	+5 Aug	+6 Sep	REM FY12	FY13	FY14-18		
ITEM (1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(11)	(12)	(13)	(15)	
30B - WBS 98 PSD Distribution													
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
	0	1	0	0	0	0	0	0	0	0	0	0	1
31 - Communications & Outreach													
000.1 - Communications & Outreach	8	490	7	8	8	7	8	7	0	84	420		1,039
	8	490	7	8	8	7	8	7	0	84	420		1,039
32 - Safety, Health, Security & Quality													
000.2 - Safety,Health,Security/Quality	60	4,098	73	73	73	80	79	73	0	730	2,889		8,167
	60	4,098	73	73	73	80	79	73	0	730	2,889		8,167
34 - Environmental Prog & Strategic Planning													
000.4 - Environmental Prog & Strategic Planning	20	856	24	23	23	23	23	23	0	264	957		2,216
030.2 - Envr Prog & Strategic Planning	13	1,303	21	22	24	24	23	23	0	259	1,702		3,403
	33	2,159	45	45	47	47	46	46	0	522	2,660		5,619
35 - Business Services													
000.6A - Expense PSD	0	1,302	0	0	0	0	0	0	0	0	0		1,302
000.8 - Chief Financial Officer	91	4,686	101	101	101	101	100	100	0	1,190	5,579		12,059
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
	91	6,331	101	101	101	101	100	100	0	1,190	5,579		13,704
36 - Prime Contract & Project Integration													
000.7 - Contract and Baseline Management	32	1,649	36	36	36	36	36	36	0	504	2,373		4,743
	32	1,649	36	36	36	36	36	36	0	504	2,373		4,743
39 - PS&S G&A Adder Offset													
000.5B - PS&S G&A Adder Offset	0	0	0	0	0	0	0	0	0	0	0		0
	0	0	0	0	0	0	0	0	0	0	0		0
3A - 100K Area Project & BOS D&D													
012.1 - 100 K Area Project	142	5,782	103	93	94	94	94	94	0	1,257	2,266		9,877
012.2 - Sludge Treatment Project	91	4,671	151	179	180	179	177	176	0	1,506	2,641		9,861
040.1 - PRC D&D	6	7,461	4	11	1	0	0	0	0	0	6,938		14,415
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	63	5,239	105	80	55	55	55	55	0	805	3,767		10,216
041.3 - Waste Sites	5	1,011	7	7	6	4	4	4	0	7	911		1,962
	307	25,505	370	370	337	333	330	329	0	3,575	20,336		51,485
3B - PFP Closure													
011.1 - Plutonium Finishing Plant	385	23,904	501	499	501	506	505	518	0	6,641	8,531		42,108
	385	23,904	501	499	501	506	505	518	0	6,641	8,531		42,108
3C - Waste & Fuels Management Project													
013.1 - Waste Management	306	29,084	344	341	344	344	344	341	0	4,347	31,798		67,287
013.3 - Solid Waste Variable	8	576	9	9	9	9	9	9	0	108	540		1,278
040.3 - PRC Fac & Waste Site Maint	32	1,824	44	44	44	44	44	44	0	600	2,821		5,512
042.1 - FTF	6	545	8	8	8	8	8	8	0	83	413		1,088
	352	32,029	405	402	405	406	405	402	0	5,138	35,572		75,164
3D - Soil & Groundwater Remediation													
030.1 - Soil & GW Remediation	198	14,133	273	266	283	283	264	265	0	3,851	19,361		38,979
	198	14,133	273	266	283	283	264	265	0	3,851	19,361		38,979
3F - Engineering, Projects & Construction													
000.F - Eng/Procurement & Construction	14	1,116	18	18	18	18	18	18	0	187	766		2,174
030.3 - EPC - Groundwater	40	3,204	64	45	34	19	10	2	0	26	128		3,533
	54	4,320	82	63	52	37	28	19	0	213	894		5,707
Grand Totals:	1,520	114,620	1,895	1,861	1,844	1,837	1,801	1,797	0	22,449	98,614		246,719

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		
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 (YYYY/MM/DD) 2012/02/20		
b. LOCATION (Address and ZIP Code) Richland, WA 99354		b. NUMBER RL		b. PHASE Base and ARRA		b. TO (YYYY/MM/DD) 2012/03/25			
		c. TYPE CPAF	d. SHARE RATIO		c. EVMS ACCEPTANCE 2009/09/18 NO YES X				
	BCWS	BCWP	ACWP	SV in \$	SV in %	CV in \$	CV %	SPI	CPI
Current:	43,624	43,669	44,456	45	0.1%	(787)	-1.8%	1.00	0.98
Cumulative:	2,810,542	2,806,984	2,783,098	(3,558)	-0.1%	23,886	0.9%	1.00	1.01
	BAC	EAC	VAC in \$	VAC in %	CPI to BAC	CPI to EAC			
At Complete:	6,424,182	6,390,550	33,633	0.5%	1.0	1.0			
Explanation of Variance/Description of Problem:									
<p>Current Period Schedule Variance: The favorable Schedule Variance (+\$0.0M) is within reporting thresholds and reflects the following:</p> <p>The RL-11 variance (+\$1.3M) is primarily due to a single point adjustment associated with BCR-011-12-002R0, <i>PPF PB R3 Update per RCR Response</i>. Continued efficiencies in the size reduction of the PRF pencil tanks assemblies, including experienced gained and the use of overtime to mitigate the delay in the transfer of the field work team for Q shift, also contribute to the positive variance. The RL-12 combined 100K and STP negative variance (-\$0.8M) is due to BCWS realized in the current period for work performed in previous periods for the Containerized Sludge Project, delays loading the baskets for the found fuel due to extra time required to sort the final cans of fuel that had a high content of trash compared with previous evolutions because the final cans were from the final collection in the basin and contained additional trash materials, and the impact of delays in the fuel sorting impacting KOP retrieval activities. The RL-13 (+\$0.1M) positive variance is within reporting thresholds. The RL-30 negative variance (-\$0.9M) is due to 200W P&T Project work performed in previous periods with BCWS planned for this period. The RL-40 negative variance (-\$0.2M) is within reporting threshold. The RL-41 (+\$0.5M) positive variance is due to two BCRs that were approved and implemented this month which deferred workscope to outyears. Offsetting the positive variance is the fact that the MOA is still not approved to remediate Waste Site AM and also affects planned demolition of several facility structures. The RL-42 variances are within reporting thresholds (+\$0.0M).</p> <p>Current Period Cost Variance: The unfavorable Cost Variance (-\$0.8M) is within reporting thresholds and reflects the following: The RL-11 negative variance (+\$0.5M) is within reporting thresholds. The RL-12 combined 100K and STP negative variance (-\$0.3M) is within reporting thresholds. The positive variance in RL-13 (+\$0.0M) is within reporting thresholds. The RL-30 positive variance (+\$0.4M) is variance is within thresholds. The RL-40 negative variance (-\$0.7M) is due to demobilization and surveys requiring increased resources and costs for MSA fleet services significantly greater than plan. The RL-41 (-\$0.7M) is due to working several Waste Sites in FY2012 that were stasured as complete but workscope remains to be completed. Also, several facilities in FY2011 were demolished but the debris was not loaded and sent to ERDF until FY 2012. The RL-42 negative variances are within reporting thresholds (-\$0.0M).</p> <p>Cumulative Schedule Variance: The unfavorable Cumulative Schedule Variance (-\$3.6M) is within reporting thresholds. The RL-11 negative variance (-\$3.0M) is within reporting thresholds. The RL-12 negative variance (-\$0.6M) is within reporting thresholds. The RL-13 negative variance (-\$0.9M) variance is in within threshold however, is the result of the Canister Storage Building (CSB) and ETF activities delayed due to resource availability (assigned to higher priority activities) and is partially offset by early completion of MLLW returns. The RL-30 positive variance (+\$2.6M) is within reporting thresholds. The RL-40 negative variance (-\$0.2M) is within reporting thresholds. The RL-41 negative variance (-\$1.6M) is within reporting thresholds. The RL-42 variances are within reporting thresholds.</p> <p>Cumulative Cost Variance: The favorable cost variance (+\$23.9M) is within reporting thresholds and consists of favorable and unfavorable cost variances in direct projects (+\$2.0M) and prior year G&A/DD/PSD distribution variances (+21.9M).</p>									
Impact:									
<p>Current Period Schedule: For RL-11, current period performance reflects an upward trend. For RL-12, no significant impact. For PBS RL-13 there is no current period schedule impact. For RL-30 there is no impact associated with the current month positive schedule variance. For PBS RL-40 current period schedule variance is within threshold and there is no significant impact. For PBS RL-41, current period schedule impacts are the same as the CTD schedule impacts (see below). For RL-42, there is no impact associated with the schedule variance.</p> <p>Current Period Cost: For PBS RL-11, cost performance continued to trend upward. For RL-12, no significant impact. For PBS RL-13, there is no Cost impact. 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.</p>									

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

CTD Schedule: For PBS RL-11, Although the performance was poor in the first quarter of FY12, this quarter it continued to trend in a positive direction. Performance has leveled off at a rate below the baseline plan; however, it is expected with implementation of ideas identified during the Value Engineering Workshop that this trend will be reversed. PRF has been delayed approximately three months in initiating field work on the Miscellaneous Treatment (MT) and column glove boxes. Size reduction of pencil tank assemblies, which has been progressing ahead of schedule, is expected to eliminate the need for a D&D team to support P/Q shift efforts. This will result in cost savings which can be applied to other high risk D&D work at PFP. 234-5Z Labs is projecting to finish one-month later than planned due to low priority and resource constraints. Recent contamination events precipitated planning rework due to changes in controls for the duct level. Activities will now be performed using more stringent Airborne Radioactive Area (ARA) controls. It was anticipated that work would be performed under these controls in the out-years. However, schedule impacts for FY12 are being evaluated. Because of the change in controls, additional RCT support will be needed to support 26" vacuum and asbestos removal activities (~2 FTEs). The critical path runs through process vacuum removal, process support equipment removal, and 291-Z-001 Stack demolition, with 104 days of negative float; complete D&D of PRF and 243-Z with 56 days of negative float; and glovebox size reduction with 44 days of negative float. Completing Phase II Demolition is forecast to finish 154 days behind schedule. It is expected that efficiencies will be recognized, with implementation of VE initiatives, to recover this behind schedule status. TPA Milestone M-083-24, Submit S&M Plan Pursuant to Agreement Section 8.5.4 Due: June 30, 2012 - Completed September 30, 2012. TPA Milestone M-083-44, Complete Transition of 234-5Z&ZA/243-Z/291-Z & 291-Z-1 Facilities. Due: September 30, 2015 - Forecast: August 26, 2015. TPA Milestone M-083-00A, Complete PFP Facility Transition and Selected Disposition Activities. Due: September 30, 2016 - Forecast: September 13, 2016. 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, A slight over-run at completion is forecast, primarily due to prior years' unrecoverable cost variance. The FYTD trend has been factored into the FY12 ETC. Cost savings or cost impact, resulting from schedule impacts discussed above, continue to be evaluated. 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, see CTD Cost. 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, the following corrective actions are in place. No other specific corrective actions are planned at this time.

1. ZB Complex demolition: Last Month: BOS D&D is exploring the use of overtime, because temporary resources are reaching the end of their assignment and the demolition project needs to complete prior to that time. STATUS: BOS D&D will use resources from 100K project to finish demolition activities. (COMPLETE). NEW: In order to mitigate wind impacts, D&D worked with radiological control, allowing demolition of 2736-ZB "clean" buildings to occur under slightly higher wind speeds than original constraint. (COMPLETE). 2. Value Engineering (VE) Study: Last Month: The recommendations will be evaluated for viability by PFP senior management and an individual will be assigned to spearhead the VE initiatives. STATUS: COMPLETE (selection made). April 2012: PFP will begin to develop the implementation plan. 3. Balance of 234-5Z: additional insulation is being removed on overtime so that the impediment to pipe removal is eliminated. STATUS: SWB plating needs to be installed prior to scaffold erection to support follow-on removal efforts (ECD Apr 2012). The Field Execution schedule is loaded to deploy iron worker, NDA and insulator resources in an accelerated fashion to get work completed in follow-on areas and remain out of the way of pipe cutting crews (ECD End of April for first three field work packages). Areas to be accessed in the future are being reviewed to see if interferences can be removed to enhance worker and equipment movement (ECD for identification of targets of opportunity May 2012). The project is planning to take advantage of the nine days the work teams are in block training to erect scaffold. This will put the project in a good position to complete the NDA shots for future work packages as well as helping get ahead of the removal teams (ECD May 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 corrective actions are planned at this time. 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 and RL-42 which have favorable cost variances of 7.3% and 11.5% respectively. The cost variance in RL-40 is largely due to efficiencies realized by Cold and Dark, Sampling and Characterization/Waste Identification and D&D work teams. The RL-42 cost variance is due to lower than anticipated cost of maintaining FFTF in a cold and dry status.

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

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 \$33.6 million and +0.5%. This variance is within threshold for the Project. The VACs for 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 1 and 3 Contract Data:

Contract Price Adjustments

Base & ARRA		
CPs - In Process		
	Total Authorized Unpriced Work	364,421,620
Approved Adjustments to Contract Price (not reflected in B.4-1 Table)		
	Total Negotiated Cost Changes	122,898,037
	Grand Total Adjustments	487,319,657

Use of Management Reserve (MR):

Management Reserve Utilization

BCR Number	Title	Fiscal Year	MR (ARRA) & PBS	MR (Base) & PBS
BCR-013-12-002R0	<i>SNM De-Inventory Analysis</i>	2012	N/A	(\$453K)
BCR-030-12-010R0	<i>RL-30 drawdown of MR for realized risk related to WSCF analysis</i>	2012	N/A	(\$479K)
Overall MR Change in March 2012 – (\$932K)				

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.

Prepared by: Project Control Staff	Date: 4/18/2012	Approved by:	Date:
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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



March 2012
CHPRC-2012-03, 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)					
b. LOCATION (Address and ZIP Code) Richland, WA										b. NUMBER RL14788					b. PHASE			2012 / 02 / 20					
										c. TYPE CPAF					d. SHARE RATIO			c. EVMS ACCEPTANCE NO YES X 9/18/2009			b. TO (YYYYMMDD) 2012 / 03 / 25		
5. CONTRACT DATA																							
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 (YYYYMMDD)										
		1,305,191	0			70,807	1,375,998	1,377,474	1,375,998	1,377,474													
6. ESTIMATED COST AT COMPLETION																							
a. BEST CASE		MANAGEMENT ESTIMATE AT COMPLETION (1)			CONTRACT BUDGET BASE (2)			VARIANCE (3)			7. AUTHORIZED CONTRACTOR REPRESENTATIVE			d. DATE SIGNED (YYYYMMDD)									
		1,306,667									a. NAME (Last, First, Middle Initial) Bang, M.V.			b. TITLE Prime Contract Manager									
b. WORST CASE		1,326,035									c. SIGNATURE			2012 / 03 / 25									
c. MOST LIKELY		1,306,667			1,305,191			(1,476)															
8. PERFORMANCE DATA																							
WBS[1]	ITEM (1)	CURRENT PERIOD				CUMULATIVE TO DATE					REPROGRAMMING ADJUSTMENTS			AT COMPLETION									
		BUDGETED COST		ACTUAL COST WORK PERFORMED (4)	VARIANCE		BUDGETED COST		ACTUAL COST WORK PERFORMED (9)	VARIANCE		COST VARIANCE (12a)	SCHEDULE VARIANCE (12b)	BUDGET (13)	BUDGETED (14)	ESTIMATED (15)	VARIANCE (16)						
		WORK SCHEDULED (2)	WORK PERFORMED (3)		SCHEDULE (5)	COST (6)	WORK SCHEDULED (7)	WORK PERFORMED (8)		SCHEDULE (10)	COST (11)												
	RL-0011.R1 PFP D&D	2,289	2,049	1,738	(241)	311	285,024	281,303	289,094	(3,721)	(7,791)	0	0	0	290,945	296,726	(5,781)						
	RL-0013C.R1.1 MLLW Treatment	0	0	(0)	0	0	47,707	47,699	42,679	(8)	5,020	0	0	0	47,707	42,740	4,967						
	RL-0013C.R1.2 TRU Waste	0	0	(122)	0	122	255,312	255,312	253,668	(0)	1,643	0	0	0	255,312	253,685	1,627						
	RL-0013C.R1.3 TRU Wst Facil Trans MinSafe	0	0	134	0	(134)	1,500	1,500	1,275	0	225	0	0	0	1,500	1,273	227						
	RL-0030.R1.1 GW Capital Asset	0	0	127	0	(127)	175,008	175,008	174,736	0	272	0	0	0	175,008	175,011	(3)						
	RL-0030.R1.2 GW Operations	0	0	187	0	(187)	92,146	92,146	89,512	(0)	2,634	0	0	0	92,146	89,514	2,632						
	RL-0040.R1.1 U Plant/Other D&D	0	0	460	0	(460)	199,391	199,315	193,199	(76)	6,115	0	0	0	199,391	193,458	5,933						
	RL-0040.R1.2 Outer Zone D&D	0	0	(5)	0	5	84,279	84,279	71,654	0	12,625	0	0	0	84,279	71,656	12,623						
	RL-0041.R1.1 100 K Area Remediation	291	294	1,157	3	(863)	178,246	177,708	180,889	(538)	(3,181)	0	0	0	179,749	182,604	(2,855)						
	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						
	e. Sub Total	2,580	2,343	3,677	(237)	(1,335)	1,318,613	1,314,269	1,296,706	(4,344)	17,563	0	0	0	1,326,035	1,306,667	19,368						
	f. Management Resrv.														0								
	g. Total	2,580	2,343	3,677	(237)	(1,335)	1,318,613	1,314,269	1,296,706	(4,344)	17,563	0	0	0	1,326,035								
	9. Reconciliation to CBB																						
	a. Variance Adjustment									0	0												
	b. Total Contract Variance									(4,344)	17,563				1,326,035	1,306,667	19,368						

FORMAT 3, DD FORM 2734/3, BASELINE

CONTRACT PERFORMANCE REPORT													Form Approved		
FORMAT 3 - BASELINE											OMB No. 0704-0188				
1. CONTRACTOR			2. CONTRACT				3. PROGRAM				4. REPORT PERIOD				
March FY2012 - ARRA CH2M HILL Plateau Remediation Company b. LOCATION: Richland, WA			a. NAME: Plateau Remediation Contract b. NUMBER: RL14788 c. TYPE: CPAF d. SHARE RATIO:				a. NAME: Plateau Remediation Contract b. PHASE c. EVMS ACCEPTANCE NO YES X 9/18/2009				a. FROM: 2012/02/20 b. TO: 2012/03/25				
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 \$1,326,035		g. DIFFERENCE (E - F) (\$20,844)			
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 Apr-12 (4)	+2 May-12 (5)	+3 Jun-12 (6)	+4 Jul-12 (7)	+5 Aug-12 (8)	+6 Sep-12 (9)							
a. PM BASELINE (BEGIN OF PERIOD)	1,316,033	2,580	1,885	2,455	2,361	2,218	1,136	1,110	161,538	565,906	585,572	16,014	0	0	1,329,029
b. BASELINE CHANGES AUTH DURING REPORT PERIOD BCR-040-12-001R0 - Defer 6652L and Add U Canyon S&M Turnover												(2,994)			0 (2,994)
c. PM BASELINE (END OF PERIOD)	1,318,613		1,885	2,125	1,469	1,366	307	270	161,538	565,906	585,572	13,020	0	0	1,326,035
7. MANAGEMENT RESERVE															0
8. TOTAL															1,326,035

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	
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 (YYYY/MM/DD) 2012/02/20	
b. LOCATION (Address and ZIP Code) Richland, WA 99354		b. NUMBER RL		b. PHASE ARRA		c. EVMS ACCEPTANCE 2009/09/18 NO YES X		b. TO (YYYY/MM/DD) 2012/03/25	
		c. TYPE CPAF	d. SHARE RATIO						
	BCWS	BCWP	ACWP	SV in \$	SV in %	CV in \$	CV %	SPI	CPI
Current:	2,580	2,343	3,677	(237)	-9.2%	(1,335)	-57.0%	0.91	0.64
Cumulative:	1,318,613	1,314,269	1,296,706	(4,344)	-0.3%	17,563	1.3%	1.00	1.01
	BAC	EAC	VAC in \$	VAC in %	CPI to BAC	CPI to EAC			
At Complete:	1,326,035	1,306,667	19,368	1.5%	0.4	1.2			
Explanation of Variance/Description of Problem:									
<p>Current Period Schedule Variance: The Current Month unfavorable Schedule Variance (-\$0.2M) is within reporting thresholds.</p> <p>Current Period Cost Variance: The Current Month unfavorable Cost Variance (-\$1.3M) reflects the following:</p> <p>The RL-0011 positive variance (+\$0.3M) primarily results from the following: 1) a portion of ZB demolition work was planned to complete December 27, 2011, however, it was delayed and completed/earned this month. All other ZB demolition work is planned under Base, and all actual costs are incurred under the Base account; 2) final cost transfer from ARRA to Base control accounts. The RL-0013 negative cost variance (-\$0.0M) is within threshold. The RL-0030 Current Month Cost Variance (-\$0.3M) is within threshold. The RL-0040 negative variance (-\$0.5M) is within reporting threshold, but due to demobilization and surveys requiring increased resources and costs for MSA fleet services (equipment rental) significantly greater than plan. The RL-0041 negative variance (-\$0.9M) is due to due to a cost transfer for work completed earlier in the fiscal year and charged to Base funding, Waste Disposal costs for D4 structures that were completed late in FY2011, but the debris was not loaded and sent to ERDF until FY2012, and unplanned equipment rentals costs.</p> <p>Cumulative Schedule Variance: The unfavorable Cumulative Schedule Variance (-\$4.3M) is within reporting thresholds.</p> <p>Cumulative Cost Variance: The CTD favorable Cost Variance (+\$17.6M) is within reporting thresholds and reflects the following:</p> <p>The RL-0011 negative variance (-\$7.8M) 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 (+\$18.7M) reflects the following: RL-0040.R1.1 U Plant/Other D&D (+\$6.1M) 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&D positive variance (+\$12.6M) 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 and 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 (-\$3.2M) is due to higher costs for the Utilities Project than planned.</p>									

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

<p>Impact:</p> <p>Current Period Schedule: For RL-11R.1, current period reflects a slight decline in schedule performance. 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, there is no significant schedule impact for the current period. For RL-41.R1.1 the current period schedule impacts are the same as the CTD schedule impacts (see below).</p> <p>Current Period Cost: For RL-11.R1, cost performance continued to improve this period. 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-41.R1.1 no impacts at this time.</p> <p>CTD Schedule: For RL-11.R1 Responses were provided on the lifecycle performance measurement baseline DOE-RL review comments and BCR-011-12-002R0, <i>PFP PB R3 Update per RCR Response</i>, was implemented in March 2012 (COMPLETE). Value Engineering (VE) Study, assigned to spearhead the VE initiatives (COMPLETE). PFP will begin to develop the implementation plan (ECD April 2012). For RL-0013 CTD there is no impact. For RL-0030, there are no impacts, work complete. For RL-40.R1.1, and RL-40.R1.2, there are no significant CTD schedule impacts. For RL-41.R1.1 no impacts at this time.</p> <p>CTD Cost: For RL-11.R1 no specific actions are planned at this time. Responses were provided on the lifecycle performance measurement baseline DOE-RL review comments, and BCR-011-12-002R0, <i>PFP PB R3 Update per RCR Response</i>, was implemented in March 2012 (COMPLETE). 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>Corrective Action:</p> <p>Current Period Schedule: 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-40.R1.2 no corrective actions are required at this time. For RL-41.R1.1 the current period schedule corrective actions are the same as CTD schedule corrective actions (see below).</p> <p>Current Period Cost: 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, and RL-40.R1.2 no corrective actions are required at this time. For RL-41.R1.1 current period cost corrective actions are the same as the CTD cost corrective actions (see below).</p> <p>CTD Schedule: For RL-11.R1, overtime is being used in selected areas to recover schedule (ongoing; COMPLETE), and a focused effort is in place to have multiple work packages (WP) available so alternative scope can be worked should problems arise with the package being worked (WP backlog has increased; COMPLETE). Resources have been identified in the detailed field execution schedule, which assists with more efficient resource utilization (COMPLETE). Responses will be provided on the lifecycle performance measurement baseline DOE-RL review comments in March 2012. The recommendations from a Value Engineering (VE) Study, held the week of 02/27/12, will be evaluated for viability by PFP senior management. An individual will be assigned to spearhead the VE initiatives (ECD March 2012). April 2012: PFP will begin to develop the implementation plan. 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.R1.2 no corrective actions are required at this time. 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&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>CTD Cost: For RL-11.R1 no specific actions are planned at this time. Responses will be provided on the lifecycle performance measurement baseline RL review comments in March 2012. For RL-13C.R1.1 the favorable cost variance is expected to continue. For RL-13C.R1.2 no corrective actions required. For RL-13C.R1.3 no corrective actions required. For RL-0030, no corrective actions required, work is complete. For RL-40.R1.1, and RL-40.R1.2 no corrective actions are required at this time. For RL-41.R1.1, no corrective actions are required at this time.</p>
<p>Monthly Summary: (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 except for RL-13C.R1.1 MLLW Treatment and RL-40.R1.2 Outer Zone D&D which have favorable cost variances of 10.5% and 15% respectively. 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&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-41.R1.1 100K Area negative cost variance is due to a cost transfer, waste disposal costs and unplanned equipment rental. No significant impacts or corrective actions noted.</p>
<p>Contractually Required Cost, Schedule, EAC variance, Management Reserve Use</p> <p>Variance in Performance BAC and EAC: The variance at complete (VAC) between the BAC and EAC this month is positive \$19.4 million and 1.5%. This variance is within threshold for the Project. For information, the VAC threshold limit is +or- 5% and +or- \$15 million.</p>

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Format 1 and 3 Contract Data:			
Contract Price Adjustments			
ARRA ONLY			
CPs - In Process			
		Total Authorized Unpriced Work	-
Approved Adjustments to Contract Price (not reflected in B.4-1 Table)			
		Total Negotiated Cost Changes	0
		Grand Total Adjustments	0
Use of Management Reserve: ARRA MR was unchanged (\$0.0) in March 2012.			
<p>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.</p>			
Prepared by:	Date:	Approved by:	Date:
Project Control Staff	3/26/2012		

(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



March 2012
CHPRC-2012-03, 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
DNFSB 120W	Complete Sludge Treatment	DNFSB	11/30/09			A pending Implementation Plan (IP) update will address this milestone.
M-015-70-T01	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		10/26/12	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.
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	11/30/11		11/14/12	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.

Milestone	Title	Type	Due Date	Actual Date	Forecast Date	Status/ Comment
M-015-64-T01	Submit RI/FS Report and PP for 100-FR-1/2/3 and 100-IU-2/6	TPA	12/17/11		11/20/12	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.
M-091-40L-033	Submit Oct-Dec 1 st Quarter Burial Ground Sample Results	TPA	3/15/12	2/23/12		Complete
M-016-171	Complete K Basin Sludge Treatment & Packaging Technology Evaluation Report	TPA	3/31/12	3/28/12		Complete
C-026-07G	Tritium Treatment Technology Developments to Ecology & EPA	TPA	3/31/12	3/21/12		Complete
M-024-58E	Initiate Discussions of Well Commitments	TPA	6/1/12			On Schedule
M-091-40L-034	Submit Jan-Mar 2nd Quarter Burial Ground Sample Results	TPA	6/15/12			On Schedule
M-015-110D	Submit Tc-99 Pilot Scale Treat. Study Test Rpt for 200-WA-1/BC-1	TPA	6/30/12			On Schedule

Milestone	Title	Type	Due Date	Actual Date	Forecast Date	Status/ Comment
M-083-24	Submit PFP S&M Plan Pursuant to Agreement Section 8.5.4	TPA	6/30/12			On Schedule
M-091-03F	Submit Annual Revision of TRUM and MLLW PMP to Ecology	TPA	6/30/12			On Schedule
M-024-63-T01	Conclude Discussions of Well Commitments	TPA	8/1/12			On Schedule
M-016-120	GW Treatment System <50 gpm for Tc-99 Plume at S/SX Tank Farm	TPA	8/30/12			On Schedule
M-091-40L-035	PMM Submittal Apr-Jun 3rd Qtr FY12 Burial Ground Sample Results	TPA	9/15/12			On Schedule
M-015-62-T01	Submit FS/PP for 100-NR-1/2 OUs Including GW and Soil	TPA	9/17/12		12/13/12	Target due date will be missed: currently negotiating new forecast date with RL to incorporate document modifications to be consistent with 100K RI/FS.
M-016-172	Complete KOP Material Removal from 105-KW Fuel Storage Basin	TPA	9/30/12			On Schedule

Milestone	Title	Type	Due Date	Actual Date	Forecast Date	Status/ Comment
M-085-01	Submit Change Package to Establish Date for M-85-00	TPA	9/30/12			On Schedule
M-091-40U-T01	Retrieve a Minimum of 250 Cubic Meters CH RSW in FY 2012	TPA	9/30/12			To Be Missed - Activity currently not funded; letter to RL in review to request contract relief from target date.
M-091-46B-T01	Certify 300 Cubic Meters of Small Container CH TRUM Waste	TPA	9/30/12			To Be Missed - Activity currently not funded; letter to RL in review to request contract relief from target date.
M-037-03	Submit Revised Closure Plans for 216-B-3 and 216-S-10	TPA	4/30/13			Dispute resolution provided agreement with regulator to delay milestone due date one year to April 30, 2013. On schedule.

Metrics

ARRA Metrics

Sub-Project	KPP	Key Metric	Unit of Measure	Cumulative through March 28, 2012
Plutonium Finishing Plant D&D	Building 234-5Z Process and Laboratory areas ready for demolition	Glove boxes removed from 234-5Z	# Glove boxes	131
		Low-level waste removed from PFP	m ³	3,066
		TRU waste removed from PFP	m ³	788
	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	m ³	42,037

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	1	6
Industrial Facility Completions (# of facilities)	11/40/41	0	0	0	1	1	0	0	1	42
Remediation Complete (# of release sites)	40/41	4	0	0	0	0	0	0	4	11
PRF Canyon Pencil Tanks Removed	11	10	10	25	15	50	0	0	60	75
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	1	1	3	0	0	6	18
SW Ops Complex Container Inspections	13	13	4	4	5	13	0	0	26	78
Contaminated Groundwater Treated (million gallons)	30	303	101	86	100	287	0	0	589	2,564
Preventive Maintenance Packages Completed	40	100	14	37	38	89	0	0	189	664

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

March 2012
CHPRC-2012-03, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

M. N. Jaraysi
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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 March, the PRC Functional Program organizations continued to be Recordable case-free having accumulated over 1,460,000 person hours worked without a recordable injury (over 1 3/4 years) and over 2,660,000 person hours worked (over 3 1/2 years) without a DART case.
 - o Occupational Safety and Industrial Hygiene (OS&IH) accomplishments:
 - Continued support of site wide standards committees and site wide steering committees
 - Continued progress with the corrective action plan associated with the CHPRC (and multi-contractor) Beryllium (Be) Characterization Project.
 - Provided trainers and for the IH/IHT Beryllium Work Permit training.
 - Continued interface with site occupational provider on a routine basis
 - Participated in the 200W Pump & Treat Joint Quality Assurance and Safety oversight strategy meeting with RL.
 - Implementing a pilot for testing a bumper guard around the Mine Safety Appliance TL respirator cartridge to resolve dislodging of cartridges.
 - Participated and provided support to site wide Asbestos concerns.

- Provided recommended changes to the Hanford General Employee Training for the Hazard Communications module.
- Supported the company initiative on the development of the site wide Hanford Site Workers Eligibility Tool (HSWET) Steering Committee
- Developing a revised Safety Improvement Plan based on Voluntary Protection Program (VPP) assessment and input from Employee Zero Accident Council (EZAC) committee members.
- Participating and planning for the Hanford Site Safety EXPO.
- Providing support for the technical evaluation of arc flash rating for respiratory equipment.
- o Emergency Preparedness (EP) accomplishments:
 - Fifteen drills were performed in March; eight operational drills and one actual upset event.
 - Submitted Cold Vacuum Drying Facility Emergency Planning Hazards Assessment (EPHA) Addendum and received RL approval
 - Received RL approval of the 224-T EPHA
 - Submitted 105KW EPHA to RL for approval
- o Radiological Control accomplishments:
 - Continued to support Hanford Site Radiological Control Forum as Chairperson.
 - Performed review of Radiological Control Technician qualification examinations.
 - Completed procedure revisions to support transition of instrument calibration services to Mission Support Alliance, LLC (MSA).
 - Participated in the Energy Facility Contractors Group (EFCOG) Radiation Safety Subgroup Spring Meeting
- o Operations Program accomplishments:
 - Continued to support site Be CAP development to create the work control standard.
 - Continued meetings with CHPRC and fire systems maintenance/Hanford Fire Department MSA personnel to discuss interface requirements with work packages.
 - Developed and issued operations program procedure updates to PRC-PRO-OP-24382, *Logkeeping*, PRC-PRO-OP-28033, *Operations Turnover*, PRC-PRO-OP-40120, *Shift Routines and Operating Practices*, and PRC-PRO-OP-696, *Operations*, to incorporate DOE O 422.1, *Conduct of Operations*.
 - Received RL approval of the Nuclear Maintenance Management Program which implements DOE O 433.1B (Supp Rev. 1).
 - System specific maintenance training for the Cold Vacuum Drying Facility and KW Basin is completed.
 - Conduct of Operations Champions project representatives continuing improvement efforts for developing and conducting project tailored training for their operations personnel.
 - Conduct of Work Mentors continuing focus on procedure use, development and field validation in addition to work management implementation.
 - Assisting the Plutonium Finishing Plant company level corrective actions for conduct of operations, work control and hazard analysis following DNFSB visit.
 - Completed development and comment resolution phase of the EFCOG developed Work Control Guide.
 - Implemented weekly Conduct of Operations Safety Share for SAC.
- o Nuclear Safety deliverables prepared and transmitted to RL in March include:
 - Documented Safety Analysis:
 - Letter, CHPRC-1200566, dated March 7, 2012, *Transmittal of a Canister Storage Building Evaluation of Safety of the Situation Related to the Cold Vacuum Drying Facility Proof of Dryness Test*.

- Letter, CHPRC-1200113, dated March 7, 2012, *Transmittal of the Annual Update to the 224B Facility Documented Safety Analysis, CP-18179, Revision 6, and the Unreviewed Safety Question Determination Summary.*
- Letter, CHPRC-1105368 R1, dated March 21, 2012, *Submittal of the Replacement Package Specific Document.*
- o Performance Assurance accomplishments:
 - A training workshop (Course No. 600082), *Developing Effective Corrective Action Plans*, was presented to RL, CHPRC, MSA, Washington Closure Hanford, and Pacific Northwest National Laboratory personnel.
 - A value engineering study was begun evaluating the process steps a “problem” goes through from identification to final close out of the resolution, including the interrelationship among the issue evaluation and reporting arenas (initial investigation, critique, cause/ORPS, PAAA, CRRS) that may be required.
 - Presented the FY2012 annual assessment plan to, and received approval by, the Executive Safety Review Board.
 - Completed a surveillance of CHPRC’s compliance to the standards of 10 CFR 835 Subpart J, Radiation Safety Training.
 - Participated in the annual Office of Civilian Radioactive Waste Management (OCRWM) internal audit.
 - Presented multiple “Road Shows” on the CHPRC assessment procedure changes to the projects and functional organizations to facilitate implementation of the changes.
 - Continued ongoing development of upgrades to the CHPRC Assessment Program Plan, the ISMS Program Description, the CHPRC Project Execution Plan, and the suite of ISMS related procedures to address alignment with DOE Order 226.1B, support process improvements, re-organization and restructuring.
 - Developed and published the Nuclear Safety Performance Evaluation Board (NSPEB) charter.
 - Developed and launched the NSPEB Computer Based Training (CBT) module for key executive staff, directors, independent assessors and NSPEB members.
 - Submitted the Quarterly Start-up Notification Report for the CHPRC managed facilities to RL.
- o Quality Assurance Accomplishments:
 - Completed annual independent assessment of the CHPRC Office of Civilian Radioactive Waste Management program.
 - Quality Systems manager invited to speak at the 2012 Facility Representative/Safety System Oversight Workshop in May. A single overview of the DOE Suspect/Counterfeit Items program will be presented and two training sessions on Suspect/Counterfeit Electronics will also be conducted.
- 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. Beryllium work permit implementation is forth coming.
 - o **Issue:** Implementation of Integrated Corrective Action Plan.
Status: Actions complete; RL closure is complete. Monitoring effectiveness of actions.
Action: Planned assessments include
 - SHS&Q-2012-IA-10730, *Review the Overall Effectiveness of the Organizational Improvement Actions, Issues Management, and the Work Management ICAP Focus Area,*

- planned for May 2012.*
- SHS&Q-2012-IA-11771, *Independent Assessment of Work Management Processes related to the Integration of ESH&Q into Work Packages as Identified by ICAP Actions, planned for September 2012.*
 - 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 included 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

- All FY2012 Targets are on schedule.
- EMS awareness activities during the month included:
 - o A poster campaign highlighting the tenets of CHPRC Environmental Policy,
 - o Bi-weekly in-service training for Environmental Compliance Officers,
 - o Briefings to project work groups to help individual workers understand their role in the EMS, and
 - o All employee communications in the Safety Tailgate, video clip in InSite and updates to the EMS webpage.

Environmental Protection

- **EPA NOV on 1717K Asbestos Removal:** A letter dated March 13, 2012, from EPA cited RL for violation of Section 4.2.3.4 of the *Removal Action Work Plan for 105-KE/105-KW Reactor Facilities and Ancillary Facilities*. The letter calls for RL to identify the actions it has taken or will take to correct the violation and to prevent future violations. RL provided the response in a letter dated March 22, 2012.
- **TPA Milestone M-037-03:** On March 7, 2012, Ecology signed TPA Change Request M-037-12-01; extending the date for submittal of closure plans to April 30, 2013 (original date was April 30, 2012). This resolves the TPA dispute initiated in February.
- **Central Waste Complex Box 231ZDR-11:** As a result of liquid being discovered dripping along the base of the south side of box 231ZDR-11 located in the CWC expansion area, several inspections were conducted in March including:
 - o March 1: Ecology met with RL and CHPRC as a follow up to the February 21 inspection to discuss collection of samples.
 - o March 7: Ecology staff, including an inspector from the Olympia office inspected the box.
 - o March 8: Ecology collected samples.
 - o March 14: Ecology interviewed RCTs and operations personnel.

Environmental Quality Assurance

- **Independent Assessments:** Completed two Independent Assessments 1) NESHAP Method 114 Program of the CHPRC major stacks, which identified four findings and two OFI's; and 2) a review of Sample Management including compliance with HASQARD, which identified four findings and four OFI's.
- **Management Observations (MOPs):**
 - PCB Inventory at T-Plant and CWC - no findings and no OFI's.
 - Chemical Management at T-Plant - one finding and one trend-only issue identified.
 - Daily surveillance at T-Plant - one finding identified.
 - Pre-inspection of <90 day DW pad - no findings identified.
- **Work Site Assessments:** Three WSA's were performed on PFP Safety Management Program, Underground Injection Control (UIC) and Criteria/Toxic Air Permitting Compliance with no findings or OFI's identified.
- EQA performed a review of WIDS files for determination of destination and found no discrepancies.

Business Services

Acquisition Planning

- Submitted new Acquisition Planning procedure for formal review and approval.

Facilities

- The FY2012 Physical Inventory of Sensitive Property commenced in February. 4,750 items valued at \$7.2M will be inventoried. At month end 2,864 or 60% of the items have been inventoried. One loss had been initially reported (Laptop), however, the questioning attitude of Property Management personnel and a renewed search effort located the item.

Finance

- Received KPMG exit briefing from KPMG Accounting Systems audit. KPMG indicated response to RL would be that the CHPRC accounting system is substantially compliant. There were 2 findings which will result in strengthening procedures and processes for time card recording and for processing accruals.
- Submitted revised overhead rates to RL for FY2012

Procurement

- For the month of March 2012, the Procurement group awarded 63 new contracts with a total value of \$4.7M, amended 172 existing contracts with a total value of \$4.0M, for a grand total of \$8.8M. Awarded 385 new purchase orders valued at \$333K to support ongoing project objectives.
- As measured at the end of the first 42 months, procurement volume has been significant; \$1.9B in contract activity has been recorded with approximately 50% or \$955M in awards to small businesses. ARRA funded activity totals 37% or \$703M of the grand total. This includes 5,667 contract releases, 12,428 purchase orders, and over 193,000 P-Card transactions.
- In the procurement simplification process, the following new procedures were submitted to CHPRC Procedure publication organization for the formal review process. Acquisition Planning, Contracted Labor Resources, Acquiring Products or Services from Other Hanford Prime Contractors, Procurement of Materials, and Lease/Rental of Real Property.

Material Services

- Received February warehouse receiving report from MSA. This is an independent and random

review of CHPRC P-Card orders received at the 2355 Stevens warehouse by MSA Storekeepers. Content matched the packing slip.

- Drafted a new Procurement of Materials procedure as part of the Procurement Simplification effort.
- Resolved final comment on Use and Control of Purchasing Card procedure and submitted to CHPRC Procedure group. Anticipate publication of revised procedure in April 2012.
- Continued to run P-Card queries to proactively review P-Card transactions.
- Assisted HEPA Filter SME in creating a Quality Level 1 transaction for 80 HEPA filters on behalf of Washington Closure Hanford (WCH). These filters will be used at the 324 facility to support D&D activities. WCH does not have the extensive HEPA Filter procurement experience or procedures in place to order these items. When the QL-1 filters arrive, WCH will purchase them from CHPRC. They are required to be on site prior to August 1st.

Training & Procedures

- The PRC Procedures System (PPS) development team is working to an April 20, 2012, date for a test-ready Phase I implementation.
- CHPRC-PFP planning for Block-training at the HAMMER facility (April 23 - May 4, 2012) is complete, to include: classroom and individual scheduling, logistical requirements, and communications. During this timeframe, 150 workers will complete the majority of their annual training requirements.

Human Resources

- The annual Report of Contractor Expenditures for Employee Supplementary Compensation for CH2M Hill Plateau Remediation Company for 2011 was submitted in WFIS on March 5, 2012.
- EEO/Diversity presentation statistics and company goals were discussed with each Vice President and Directors at staff meetings completed during the month of March.
- John Lehew issued the yearly Equal Opportunity Policy Statement for CHPRC on March 3, 2012.

Information Technology & Services

- Sage Timberline cost estimating system, Phase 1+ (all of the assemblies built, etc.) is complete and in production environment ready for RL performance audit.
- Completed conversion of 80 boxes of Waste Information Data Systems (WIDS) Library packages to electronic records in IDMS. Environmental Quality Assurance (EQA) performed quality check and Environmental Program & Strategic Planning authorized the recycle of the hardcopy documents.
- Completed establishment of a Centralized Records Processing facility in MO-287/200W area for scanning, indexing, and management of CHPRC backlog record material. All material from the 3790 temporary storage area was transferred to this facility resulting in a reduction in facility space charges.
- Established an onsite computer training center in MO-287/200W for CHPRC related computer training needs. This allows the instructor to provide instruction where the workforce is located and reduces attendee travel and attendance time commitment to offsite locations.
- The CHPRC Invoice to IDMS Automation (IIA) has been placed into production this week. The IIA automation interface with the metadata placed in Ventyx Asset Suite and converts various formats of invoices that have been received to a standard PDF format. The metadata and PDF invoice are then auto loaded into IDMS. This automation is a marked improvement and efficiency over the old process for records capture.
- In support of PFP cleanup activities, CHPRC management requested that NCO's (Nuclear Chemical Operators) receive access to IDMS. Over 100 users were put in ARI (Access Request for IDMS) to

start the process of issuing IDMS licenses.

Prime Contract and Project Integration (PC&PI)

- In March, Prime Contracts received and processed seven (7) contract modifications (numbers 211, 216, 217, 219, 218, 205, and 221) from RL. The Correspondence Review Team reviewed and determined the distribution for 39 incoming letters and the Contract Compliance Manager reviewed 45 outgoing correspondence packages.
- Change Orders tracked in the RL FY 2012 Key Performance Goal as required to be finalized within 180 days of receipt by the Contractor:
 - On March 22, 2012 RL and CHPRC reached agreement on the definitization of CHPRC's Change Proposal in response to Change Order #173, *Pre-conceptual planning for K Basins Sludge Treatment Phase 2*, achieving the metric ahead of schedule. The contract modification to document this agreement is pending.
 - Work continued on preparation of the Change Proposal in response to Change Order #174, *Assume Landlord Responsibilities for Surplus 200 Areas Steam Lines*. The internal CHPRC Green Team review of the draft Change Proposal was held March 27, 2012.
 - Work continued on preparation of the Change Proposal in response to Change Order #180, *Sludge Transfer Annex Facility Construction*. Several estimate reviews were held with the Project and a peer review was conducted. With the completion of the evaluation of the proposals for the subcontract for construction of the annex facility, the proposal will be ready for submittal in early April, 2012.
- The Change Proposal to RL in response to Change Order #111, *100-K Waste Sites, Operational Areas AA, AG, AH and AM*, was withdrawn on March 23, 2012 in response to RL indicating their preference to address this change through the ongoing RL/CHPRC effort to develop and agree on a 100-K Area Waste Site Changes Model.
- Work continued on finalizing the Change Proposal in response to prospective Change Order #112, *100-K Waste Sites, CSNA to RTD*. CHPRC Finance has completed analysis and has developed new labor and overhead rates that will be submitted to DOE in April 2012. Accordingly, CO 112 was re-priced so that it will be compliant with the newly declared CHPRC rates when submitted.
- The Change Proposal in response to Change Order #113, *Deductive Change, 216-Z-9 Facility Structural Evaluation and Lessons Learned*, was formally submittal to RL on March 13, 2012.
- Work was initiated on the Change Proposal in response to Change Order #186, *Prospective Change, Change in Condition for 105 KW Garnet Filter Media Disposition*. Discussions were held with RL on the work scope to be included in the Change Proposal.
- Work on a well decommissioning estimate was initiated upon request from WCH and issuance of an RFS to the Soil and Groundwater project. Estimating will assist in developing a cost estimate at the direction of Soil and Groundwater, which will be submitted to WCH for their use in a work proposal to RL.
- The Estimating group supported D&D Project in development of options costs associated with the recent Asbestos remediation effort. A Change Proposal completed in FY2011 was used as a basis from which to develop options ranging from temporary patching to steam line removal, and the cost of each choice. Ultimately, the estimate was used as the basis for a BCR that was implemented to the PMB in fiscal March.

Engineering, Projects and Construction (EPC)

- Central Engineering (CE) met with the Architect/Engineer (A/E) for the KE Interim Safe Storage (ISS) to go over the Final Design Review Comment Records (RCRs) open items. CE helped resolve multiple comments and questions involving civil/structural, electrical, HVAC, welding design and construction associated with the 95% design review for the K East Interim Safe Storage (KE ISS) project. RCR form resolutions were agreed to and provided to the A/E. A new revision (Rev. E) to the design media, incorporating the closed RCRs, was issued by the Architect/Engineer (Meier) for review and concurrence. A final revision (Rev. 0) to the design media will be issued by March 23, 2012.
- CE supported Waste and Fuels & Environmental Program & Strategic Planning in the evaluation and response to the Department of Ecology regarding the 231-Z-DR-11 mixed-waste container contamination issue. CE identified an independent structural engineer for assessing the structural integrity of the container. CE participated in the meeting between Ecology, DOE RL, & CHPRC to review the scope and present the qualifications of the Independent Professional Engineer. CE prepared and submitted a structural integrity assessment scope for the 231-Z-DR-11 mixed-waste container.
- CE is supporting the of the 200W Pump & Treat facility by performing analysis of the flanged mechanical joint assembly fit-up of SST gasket ring between lug butterfly valves and elastomeric bellows to determine the structural integrity of the gasket ring. CE conducted a field walk-down of the 200W Pump & Treat facility in support of the evaluation of the mechanical joint fit-up of SST gasket ring between lug butterfly valves and elastomeric bellows. CE will be providing analysis of the flanged mechanical joint assembly to determine the structural integrity of the gasket ring.
- CE provided direct engineering support for WCH in resolution of UL Recognized (non-NRTL) components procured as part of the work to convert outdated pneumatic control parameter data recorders. CE relayed information that the components weren't available with NRTL and were normally installed as a UL Recognized component in UL 508A enclosure assemblies. The WCH AHJ approved the procurement of the components on the basis that the components weren't available with NRTL and UL 508A wasn't applicable for the designed enclosure.
- CE assisted 100K engineering with an asbestos shower trailer (PO 43099) that was NEC inspected and found to have electrical discrepancies that the project agreed to fix. The discrepancies are documented in nonconformance report NCR-11-MSA/AVS-0040. CE walked down the NEC discrepancies with 100K engineering and the NEC inspector and is working with 100K electricians to determine the work/materials involved for the work package that will be completed to correct the NEC discrepancies and allow disposition of the NCR.
- CE completed a Safety Management Program (SMP) Human Factors (13.1 and 13.2) Management Assessment. (EPC-2012-WSA-10802) The assessment resulted in 0 Findings, 0 Opportunities for Improvement, and 3 Noteworthy Practices. The assessment results were shared on the March 21, 2012 Daily Safety Analysis Center Call.
- CE has completed testing in support of the final disposition for NCR CHPRC-2012-00000057. This NCR addresses deficiencies associated with 3 repaired PVC joints in ASME B31.3 piping at the 200 West Pump & Treat facility.
- CE provided direct I&C engineering and checker support for WCH, providing a design to convert outdated pneumatic control parameter data recorders into electric signal types in Building 324. A DCN was generated for the essential drawing changes and a bill of materials was created to support procurement. Assembly details and a wiring diagram were designed to insert into the work package.
- CE verified the acceptability of the KW STP ECRTS Annex Building contractor's RCR dispositions

and closed out RCR's generated from the 90% design document review.

- CE assisted PFP staff in the resolution/actions taken section of condition report CR-2012-0662 dealing with work planning and justification for energized work. This CR was initiated due to work associated with Lighting Panel J at PFP. The applicable references from PRC-PRO-SH-40435 Rev 0 and DOE-0359 Rev 2 that should close the concern were provided to PFP staff.
- CE assisted PFP with AHJ approval on non-NRTL electrical connectors used on a roof load test robot. CE originated AHJ approval packages CHPRC-2012-05 and CHPRC-2012-06 that were AHJ approved on the basis of mil-spec standards and like-for-like replacement of existing legacy equipment.
- CE continued to chair and review/accept RCR dispositions for the Final design review of design documents for the 105 KW Annex Building. CE verified the acceptability of the 105 KW Annex Building contractor's RCR dispositions and closed out RCR's generated from the preliminary and 90% design document review.
- CE chaired the Quarterly Energy Facilities Contractor Group (EFCOG) Engineering Practices Working Group (EPWOG) teleconference. The focus of the call was on preparations for the EPWOG semi-annual meeting in Washington D.C. (Forrestal Building) May 1-2. Other upcoming meetings are a joint meeting in Las Vegas May 14-16 of the DOE Site Safety Officers, the DOE Facility Representatives, the EPWOG Cognizant System Engineers Subgroup and the EPWOG Fire Protection Subgroup and a meeting of the EPWOG Commercial Grade Dedication Subgroup in Vancouver Washington May 22-23.
- CE assisted W&FM with a work process to approve non-NRTL certified Ludlum brand radiation monitors. Current W&FM Ludlum brand radiation monitors in use have been accepted through NRTL certified through field evaluation. The AHJ has agreed to evaluate and approve future procurements of Ludlum brand radiation monitors of the same model type, based on the NRTL field evaluation. W&FM will contact CE in the future when the Ludlum brand radiation monitors are received to start the AHJ evaluation and approval process.
- CE assisted 100K with procurement of non-NRTL certified electrically powered pallet trucks. CE checked NRTL listing directories and found no alternative NRTL certified pallet trucks were manufactured. CE provided 100K with a procurement process to order the non-NRTL electrically powered pallet trucks and have them drop shipped to an NRTL field evaluator (CE provided an NRTL field evaluator Point of Contact to 100K).
- CE issued a Hanford Lessons Learned Information Bulletin regarding failed control components in wall-hung electric room heaters installed at S&GRP DX and HX pump and treat facilities.
- CE completed initial procurement paperwork and approved the procurement requisition within passport for procurement of HEPA filters for WCH at the 324 building.

Communications

Internal

- Published six issues of the Weekly Update, CHPRC's weekly news bulletin, including one special issue with updates from the President's Office. The bulletin included blog messages from Ty Blackford, Vice President of Waste & Fuels Management Project; Moses Jaraysi, Vice President of Environmental Program & Strategic Planning; Vicki Bogenberger, Vice President and Chief Financial Officer; John Lehew, President and Chief Executive Officer; and Al Cawrse, Director of Environmental Protection.
- Produced three episodes of InSite, the weekly internal news broadcast, and a special message from

CHPRC President John Lehew addressing recent employee questions and concerns about the current status of the budget.

Media

- The Sludge treatment Project and plans for the interim safe storage of the K East Reactor were featured in an article in the Tri-City Herald.
- Interim safe storage plans for the K East Reactor were featured in Engineering News-Record.
- A team of CHPRC employees attended the 2012 Waste Management Conference to present on CHPRC progress and lessons learned in environmental remediation and waste management.
- Construction of the 200 West Groundwater Treatment Facility, sustainable remediation technologies, and progress in the deep vadose zone project were featured in the 2012 Waste Management Conference newsletter, Insight.
- Supported RL with media about the Plutonium Finishing Plant and the Central Waste Complex.
- Supported RL with media on pencil tank removal, including a fact sheet and video. The accomplishment was featured in the Tri-City Herald as well as on the Hanford Site social media sites, including Facebook and YouTube.
- Efficiencies and cost savings related to a resin being used at the 100-DX and HX Groundwater Treatment Facilities were featured in the EM Update newsletter and on the Hanford social media.
- Supported RL with the asbestos action plan, including an Asbestos 101 educational tool.
- Developing displays and video to support public tours to the Plutonium Finishing Plant.

Public Involvement

- Provided CH2M Hill Plateau Remediation Company input for DOE-RL's Agency Update presentation to the Hanford Advisory Board (HAB). The presentation will be made at the April 12, HAB meeting.
- Developed presentations on the status of the River Corridor Decision Documents and the Groundwater Program for DOE-RL to support DOE-RL's briefings to the Oregon Hanford Cleanup Board.
- Developed a fact sheet and display advertisement to support a 60-day public comment period on RCRA Permit Class 2 modifications for the 400 Area Waste Management Unit and the Liquid Effluent Retention Facility and 200 Area Effluent Treatment Facility. These modifications are currently on hold and there is no projected date for the public comment period.

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)
Indirect WBS 000 Total	11.2	11.2	9.4	0.0	0.0%	1.8	16.0%	110.9
Communications	0.1	0.1	0.1	0.0	0.0%	0.0	-1.7%	1.2
Safety, Health, Security and Quality	1.2	1.2	1.3	0.0	0.0%	(80.2)	-6.6%	12.1
Environmental Program and Strategic Planning	0.3	0.3	0.4	0.0	0.0%	(95.3)	-27.4%	3.6
Business Services	8.1	8.1	6.7	0.0	0.0%	1.4	18.2%	80.7
Prime Contract and Project Integration	1.0	1.0	0.6	0.0	0.0%	0.4	37.6%	9.8
Engineering, Projects and Construction	0.4	0.4	0.3	0.0	0.0%	0.1	30.9%	3.6

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: (+\$1.8M/16.0%)

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)
Indirect WBS 000 Total	403.4	403.4	380.2	0.0	0.0%	23.2	6.1%	1030.2
Communications	7.6	7.6	7.0	0.0	0.0%	0.6	8.8%	14.8
Safety, Health, Security and Quality	60.0	60.0	65.1	0.0	0.0%	(5.0)	-7.7%	120.7
Environmental Program and Strategic Planning	11.9	11.9	11.8	0.0	0.0%	0.1	1.2%	30.3
Business Services	270.1	270.1	246.8	0.0	0.0%	23.3	9.4%	738.6
Prime Contract and Project Integration	33.1	33.1	29.0	0.0	0.0%	4.2	14.3%	83.9
Engineering, Projects and Construction	20.6	20.6	20.5	0.0	0.0%	0.1	0.4%	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: (+\$23.2M/+6.1%)

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-013-12-001R0 - *W&FM PMB Rev3 RCR Administrative Changes*

BCRA-030-12-017R0 - *RL-0030 March General Administrative Changes*

BCRA-041-12-006R0 - *RL-0041 Waste Site Milestones & EVM Coding Correction*

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

FY2012							
WBS 000	FYTD	FYTD	FYTD		FY 2012	FY 2012	FY 2012
Project Services and Support	BCWS	Actual	Variance (O)/U		BCWS	Forecast	Variance (O)/U
Total	53.0	52.2	0.8		110.9	108.6	2.3
General & Administrative (G&A)	33.5	33.9	(0.4)		70.1	68.7	1.5
Communications	0.6	0.5	0.0		1.2	1.1	0.1
Safety, Health, Security and Quality	5.8	6.3	(0.5)		12.1	12.9	(0.8)
Prime Contract and Project Integration	4.7	3.9	0.7		9.8	8.2	1.6
Business Services	20.8	21.2	(0.4)		43.5	42.4	1.1
Engineering, Projects & Construction	1.7	2.0	(0.3)		3.6	4.1	(0.5)
Direct Distributables (DD)	19.4	18.3	1.2		40.8	39.9	0.8
Env. Program & Strategic Planning	1.6	2.0	(0.3)		3.6	4.1	(0.5)
Business Services: Retiree Insurance	3.1	1.4	1.6		6.4	4.8	1.5
Business Services: Pension Plan Contr.	14.7	14.8	(0.1)		30.8	31.0	(0.2)
		FYTD			FY 2012		
Total Distribution		(51.0)			(103.9)		
Total Liquidation (Over)/Under		1.2			4.6		
G&A Distribution		(31.2)			(63.6)		
G&A Liquidation (Over)/Under		2.7			5.0		
DD Distribution		(19.8)			(40.3)		
DD Liquidation (Over)/Under		(1.6)			(0.4)		

Liquidation Analysis

For FY2012, Project Services and Support (PS&S), is being distributed via rates applied to total direct cost. For the month of March, application of the G&A and DD rates has under liquidated the PS&S accounts by a total of \$1.2M. 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 an under liquidation projection of \$4.6M.

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.