CH2MHILL
Plateau Remediation Company

Monthly Performance Report

J. C. Fulton
President and Chief Executive Officer

U.S. Department of Energy Contract,
DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

October 2013

CHPRC-2013-10, Rev. 0

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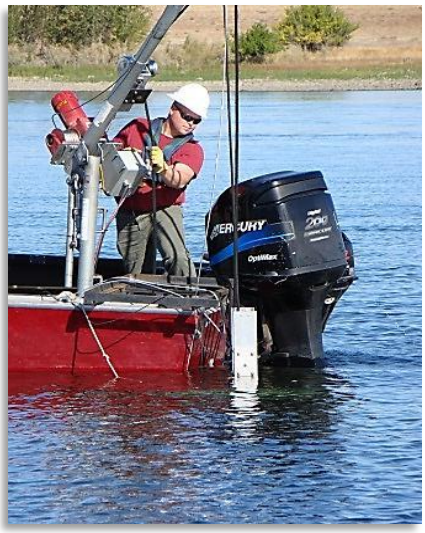
PROJECT BASELINE SUMMARY SECTIONS

APPENDICES

EXECUTIVE SUMMARY

- October 2013 marked the beginning of CH2M HILL Plateau Remediation Company's execution of the 5-year option period of the Plateau Remediation Contract.
- CHPRC-represented employees voted to accept the proposed new five-year Collective Bargaining Agreement (CBA) recently negotiated between the parties.
- CHPRC supported Department of Energy Richland Operations (DOE-RL) in hosting a series of public tours at the T-Plant in honor of a 70th anniversary celebration for the Hanford Site.
- The Plutonium Finishing Plant (PFP) resumed crane operations for dispositioning pencil tanks in the Plutonium Reclamation Facility. PFP removed glovebox 227-T, with the remaining 12 KPP gloveboxes on schedule to be removed within the upcoming calendar year. In addition, to date, CHPRC has removed 110 of 196 pencil tank units.
- The Soil and Groundwater Remediation Project (S&GRP) completed installation of aquifer tubes on October 2, 2013, an activity that is part of a Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) milestone. The tubes, accessible from the river surface, allow scientists to pump and sample water for contamination.
- Progress on the Sludge Treatment Project (STP) continued with completed concrete placement, removal of MEVA form walls for the north and west loading bay walls and continuation of the Integrated Process Optimization Demonstration (IPOD). Two additional concrete pours are planned in November for preparation of grade beam placements and flatwork.



Installation of aquifer tubes along the river

The south loading bay of the Annex after removal of the MEVA forming walls

Focus on Safety

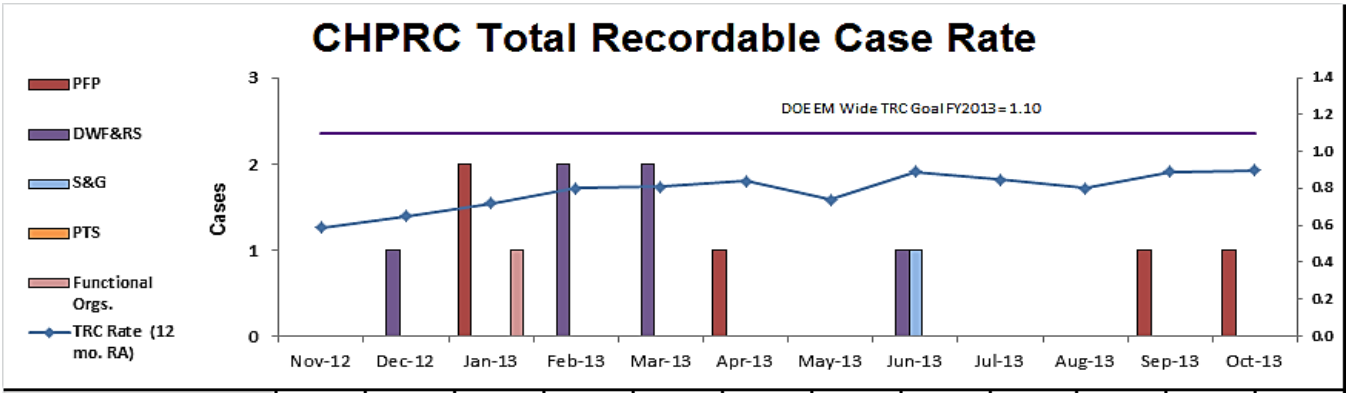
- The Decommissioning, Waste, Fuels & Remediation Services (DWF&RS) Project hosted the October 2013 President's Zero Accident Council (PZAC). The meeting's three main themes were:
  - Prevent Cold and Flu
  - Fall Into Safety
  - Target Zero Waste

- A presentation on seasonal safety warmed up the audience with tips on the proper use of furnaces, fireplaces, space heaters, candles and detectors for smoke and carbon monoxide. These topics naturally segued into a reminder about the return to standard time and associated safety issues involving rest and traveling to and from work in the dark. The following presentation by a site occupational medical representative provided remedies for preventing cold and flu. Keys to staying healthy included recognizing warning signs and employing techniques to minimize the spread of viruses. The Environmental Management System (EMS) presentation announced that CHPRC made its competitors green with envy by winning the 2013 City of Richland Green Event of the Year Award for the successful Zero-Waste Family Picnic. The Environmental organization took the opportunity to teach the crowd how to throw a waste-free party at work and at home. The meeting was completed following an injury report, the safety performance review, Stretch and Flex, Good News Stories and a report on the Voluntary Protection Program (VPP).

- Four "*Thinking Target Zero*" (TTZ) bulletins were published in October to convey important environmental and occupational safety and health messages:
  - Drive Safe Work Week
  - VPP: Continuous Improvement
  - Employee Zero Accident Council (EZAC)/PZAC
  - Sprains and Strains
- October *Weekly Safety Tailgate* briefing packages communicated relevant topics and safety information to the workforce:
  - Using Cell Phones While Driving is Prohibited
  - Hard Hats
  - PPE Compliance
  - Injury Case Management
  - Real Life Example of the Importance of Protective Footwear
  - Fall Protection Requirements
  - Daylight Savings Time Ends
  - Carbon Monoxide Detection
  - VPP's Employee Involvement
  - "What Would You Do?" Ethics Awareness messages
  - Injury/Illness Summaries and the TTZ of the week

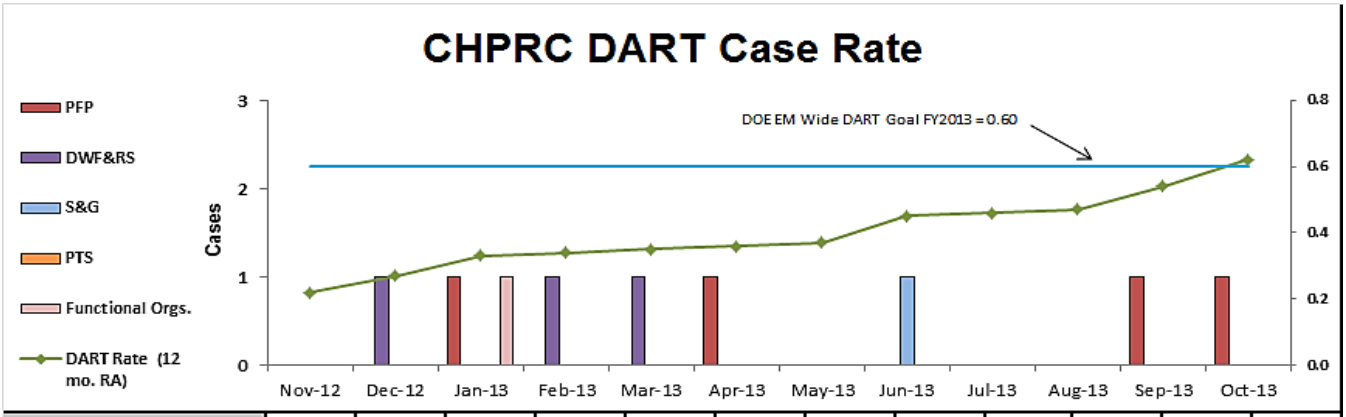
TARGET ZERO PERFORMANCE
October 2013

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



	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13
PFP	0	0	2	0	0	1	0	0	0	0	1	1
DWF&RS	0	1	0	2	2	0	0	1	0	0	0	0
S&G	0	0	0	0	0	0	0	1	0	0	0	0
PTS	0	0	0	0	0	0	0	0	0	0	0	0
Functional Orgs.	0	0	1	0	0	0	0	0	0	0	0	0
Recordable Cases	**0**	**1**	**3**	**2**	**2**	**1**	**0**	**2**	**0**	**0**	**1**	**1**
TRC Rate (12 mo. RA)	**0.59**	**0.65**	**0.72**	**0.80**	**0.81**	**0.84**	**0.74**	**0.89**	**0.85**	**0.80**	**0.89**	**0.90**

Total Recordable Injury Case (TRC) Rate – The 12 month rolling average TRC rate of 0.90 is based on a total of 13 recordable injuries (four Recordables and nine DART cases). There was one Recordable/DART case in October 2013. There are three cases being reviewed as potentially Recordable. Through October, hours worked since last Recordable Case = 126,775.



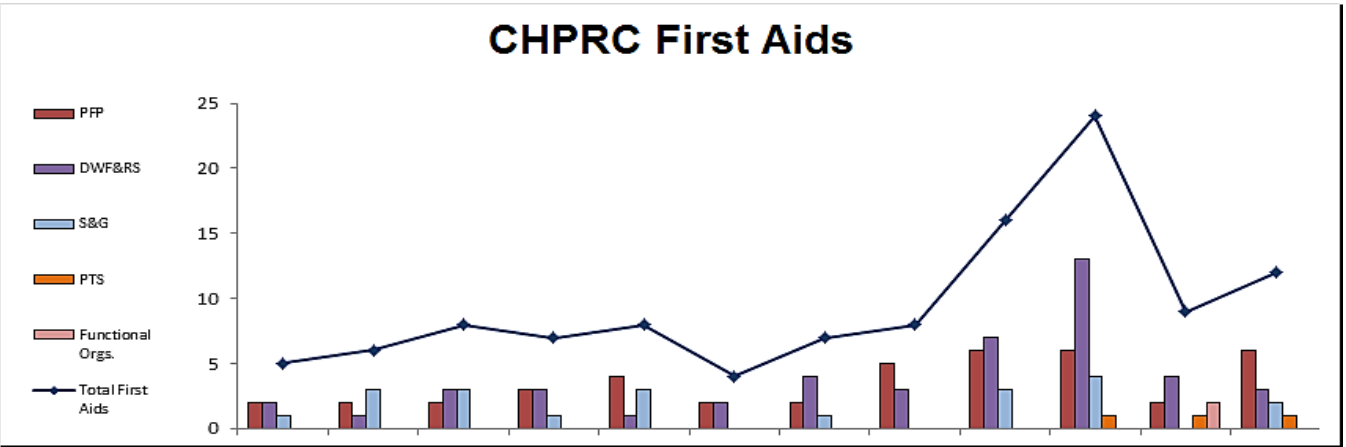
	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13
PFP	0	0	1	0	0	1	0	0	0	0	1	1
DWF&RS	0	1	0	1	1	0	0	0	0	0	0	0
S&G	0	0	0	0	0	0	0	1	0	0	0	0
PTS	0	0	0	0	0	0	0	0	0	0	0	0
Functional Orgs.	0	0	1	0	0	0	0	0	0	0	0	0
DART Cases	**0**	**1**	**2**	**1**	**1**	**1**	**0**	**1**	**0**	**0**	**1**	**1**
DART Rate (12 mo. RA)	**0.22**	**0.27**	**0.33**	**0.34**	**0.35**	**0.36**	**0.37**	**0.45**	**0.46**	**0.47**	**0.54**	**0.62**

Days Away, Restricted or Transferred (DART) Workdays Case Rate – The 12 month rolling average DART rate of 0.62 is based upon a total of nine Days Away cases. There was one DART case in October 2013 and one case from February upgraded to DART. Through October, hours worked since last DART Case = 126,775.

Actions to address DART cases include: Developed briefing materials for supervisors to help them better understand and manage occupational injuries and illnesses; safety communication campaign emphasizing injury precursors and reduction techniques for common injury types; working closely with site medical provider to provide ergonomic review and recommendations to prevent strains and soft tissue injuries.

NOTE: DOE-EM has revised their TRC rate goal to 1.1, while the DOE-EM DART rate goal is unchanged (0.6) for FY2013.

* 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.



	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13
PFP	2	2	2	3	4	2	2	5	6	6	2	6
DWF&RS	2	1	3	3	1	2	4	3	7	13	4	3
S&G	1	3	3	1	3	0	1	0	3	4	0	2
PTS	0	0	0	0	0	0	0	0	0	1	1	1
Functional Orgs.	0	0	0	0	0	0	0	0	0	0	2	0
Total First Aids	**5**	**6**	**8**	**7**	**8**	**4**	**7**	**8**	**16**	**24**	**9**	**12**

First Aid Case Summary – CHPRC reported 12 first-aid cases in October 2013. The biggest contributors were six sprains / strains / pains, two eye irritations from foreign bodies, two miscellaneous injuries, one abrasion / bruise / contusion, and one insect bite.

KEY ACCOMPLISHMENTS

Projects

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

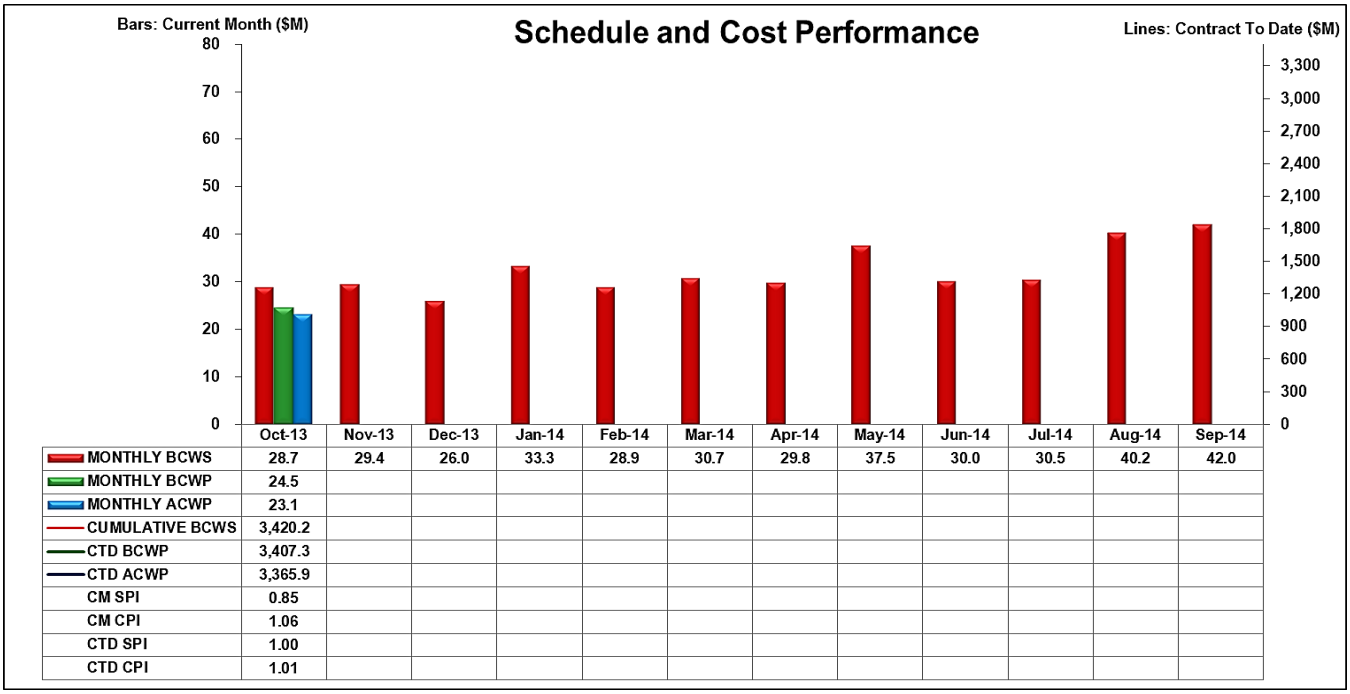
Project Services and Support

- Refer to the Appendix B section of this report for specific Project Services & Support accomplishments.

MAJOR ISSUES

Refer to Sections A through G of this report for the project specific Major Issues.

EARNED VALUE MANAGEMENT



	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14
MONTHLY BCWS	28.7	29.4	26.0	33.3	28.9	30.7	29.8	37.5	30.0	30.5	40.2	42.0
MONTHLY BCWP	24.5											
MONTHLY ACWP	23.1											
CUMULATIVE BCWS	3,420.2											
CTD BCWP	3,407.3											
CTD ACWP	3,365.9											
CM SPI	0.85											
CM CPI	1.06											
CTD SPI	1.00											
CTD CPI	1.01											

	$M Current Period					$M Contract to Date					$M Contract Period		
	Budgeted Cost		Actual Cost	Variance		Budgeted Cost		Actual Cost	Variance				
	BCWS	BCWP	ACWP	Schedule	Cost	BCWS	BCWP	ACWP	Schedule	Cost	BAC	EAC	Variance
RL-0011 - Nuclear Materials Stab & Disp PFP	7.8	5.2	6.6	(2.6)	(1.4)	629.3	619.1	648.4	(10.2)	(29.3)	934.9	962.3	(27.4)
RL-0012 - SNF Stabilization & Disposition	4.5	4.4	4.0	(0.1)	0.4	386.9	386.7	394.5	(0.1)	(7.8)	688.4	698.4	(10.0)
RL-0013 - Solid Waste Stab & Disposition	7.3	6.3	5.6	(1.0)	0.7	796.6	795.8	777.2	(0.8)	18.5	1,325.0	1,256.9	68.0
RL-0030 - Soil & Water Rem-Grndwtr/Vadose	7.6	7.1	6.1	(0.5)	1.0	912.1	910.3	904.3	(1.8)	6.0	1,489.3	1,486.9	2.4
RL-0040 - Nuc Fac D&D - Remainder	0.7	0.7	0.7	(0.0)	0.1	377.0	377.0	347.7	(0.0)	29.2	484.1	453.5	30.5
RL-0041 - Nuc Fac D&D - RC Closure Project	0.6	0.6	0.1	0.0	0.4	302.2	302.2	280.1	0.0	22.1	390.5	367.5	23.0
RL-0042 - Nuc Fac D&D - FFTF Project	0.2	0.2	0.1	0.0	0.2	16.1	16.1	13.6	0.0	2.6	26.5	24.6	1.9
(Numbers are rounded to the nearest $0.1M) Total	28.7	24.5	23.1	(4.2)	1.5	3,420.2	3,407.3	3,365.9	(12.9)	41.4	5,338.6	5,250.1	88.4

Performance Summary

CHPRC continues to track completion of contract scope within budget and is currently projecting a Variance at Completion of $88.4M with $74.5M of Management Reserve for a total positive variance of $162.9M. For FY2014, the project is ~14.5% behind schedule and 6% under planned cost. Schedule performance in October was primarily due to:

- RL-0011 – (1) process vacuum and transfer line removal efforts deferred due to field work teams reassigned to high-hazard work scope and the continued PRF canyon crane failure, and (2) initiating layup activities in preparation of going to a MinSafe condition in anticipation of the FY2014 budget and debt-ceiling impasse. The fallout from ongoing HAMTC negotiations continued to impact completion of work scope due to the inability to achieve increased time on respirators.

- RL-0013 - Delay in the return of repackaged TRU waste from commercial repackaging facility.

Cost performance in October was primarily attributed to:

- RL-0011 - Continuation of completion of FY2012 carryover work scope on the RMA/RMC gloveboxes and Plutonium Reclamation Facility (PRF) crane repairs and initiating layup activities in preparation of going to a MinSafe condition in anticipation of the FY2014 budget and debt-ceiling impasse.
- RL-0013 – Result of continued implementation of efficiencies.
- RL-0030 - Efficiencies and savings achieved in various WBSs, including the BC-5 and BP-5 drilling campaigns.

FUNDING ANALYSIS
FY2014 Funds vs. Fiscal Year Spend Forecast ($M)

		FY2014		
PBS	Project	Projected Funding	Spending Forecast	Variance
RL-0011	Nuclear Materials Stabilization and Disposition	120.5	107.5	13.0
RL-0012	Spent Nuclear Fuel Stabilization and Disposition	64.1	57.1	7.0
RL-0013	Waste and Fuels Management Project	81.2	77.8	3.4
RL-0030	Soil, Groundwater and Vadose Zone Remediation	106.9	108.7	(1.7)
RL-0040	Nuclear Facility D&D, Remainder of Hanford	11.1	10.8	0.3
RL-0041	Nuclear Facility D&D, River Corridor	5.4	6.5	(1.1)
RL-0042	Fast Flux Test Facility Closure	2.3	2.2	0.1
	Total Base:	**391.6**	**370.5**	**21.1**

Funds/Variance Analysis:

FY2014 work authorization received from RL reflects revised projected funding from $391.6M to $374.5M. A reallocation of projected funding at $374.5M will be incorporated in next month's reporting. The Spending Forecast includes actions anticipated to achieve the reduced targets.

BASELINE CHANGE REQUESTS

In October 2013, CHPRC approved and implemented three (3) BCRs. The change requests are identified in the table below:

Change Request #	Title	Summary of Change
Implemented into the Earned Value Management System for October 2013		
BCR-013-14-001R0	*EPA Consent Agreement and Final Order (CAFO)*	This BCR adds scope to PBS RL-0013 to incorporate the NTE for Contract Modification 278 / Change Order 232, which requires CHPRC to take actions in order to comply with the Environmental Protection Agency Consent Agreement and Final Order (CAFO). This NTE increased the PMB by $353K.
BCR-042-13-002R0	*RL-42 400 Area Sanitary Sewer*	This BCR adds scope to PBS RL-0042, FFTF Project to provide a new sanitary sewer system servicing the 400 Areas in order to eliminate sewer discharges to Energy Northwest. This change is necessary to incorporate the definitization of Contract Modification 286, Change order 195. This change increased the PMB by $284K.
BCR-PRC-14-001R0	*FY2014 Work Authorization*	This BCR adds scope to PBS RL-0030 in accordance with RL Letter 13-PIC -0015, "Work Authorization for Fiscal Year 2014." Scope was transferred from CLIN 7 to the PMB and scope was added to FY14 pertaining to Contract Mod 285, Change Order 237, 200 DV-1 Perched Water NTE and Contract Mod 295, Change Oder 238, 100-NR-2 Aquifer Barrier Expansion (additional 500 feet) NTE. The total change increased the PMB by $9,354K.

Management Reserve Activity

BCR Number	Title	Fiscal Year	MR
N/A	*N/A*	2013 - 2018	$0

Fee Activity

BCR Number	Title	Fiscal Year	Fee
BCR-042-13-002R0	*RL-42 400 Area Sanitary Sewer*	2013 - 2018	$15K

See the Format 3 Report in Appendix A for a complete listing of the specific change requests and the impact on the PMB budget by fiscal year. The PMB values of change requests are summarized by fiscal year in the tables below (dollars in thousands):

October 2013 Summary of Changes

	FYs 2009-2013	FY2014	FY2015	FY2016	FY2017	FY2018	FYs 2014-2018	Contract Period Total	Total PMB
September 2013 Estimate									
PMB	3,391,477	376,913	414,745	416,030	360,361	369,041	1,937,090	5,328,567	5,328,567
MR	0	5,000	7,527	25,295	23,666	13,035	74,523	74,523	74,523
Fee	155,504	13,900	13,100	19,800	8,800	16,600	72,200	227,704	227,704
Total	***3,546,981***	***395,813***	***435,371***	***461,125***	***392,827***	***398,677***	***2,083,813***	***5,630,794***	***5,630,794***
October 2013 Change									
PMB									
Change to PMB	***0***	***9,975***	***4***	***4***	***4***	***4***	***9,992***	***9,992***	***9,992***
MR									
Change to MR	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
Fee									
Change to Fee	***0***	***15***	***0***	***0***	***0***	***0***	***15***	***15***	***15***
Total Change	***0***	***9,990***	***4***	***4***	***4***	***4***	***10,007***	***10,007***	***10,007***
October 2013 Estimate									
PMB	3,391,477	386,888	414,749	416,034	360,365	369,046	1,947,082	5,338,559	5,338,559
MR	0	5,000	7,527	25,295	23,666	13,035	74,523	74,523	74,523
Fee	155,504	13,915	13,100	19,800	8,800	16,600	72,215	227,719	227,719
Total	***3,546,981***	***405,803***	***435,375***	***461,129***	***392,831***	***398,681***	***2,093,820***	***5,640,800***	***5,640,800***

Changes to/Utilization of Management Reserve in October 2013

	FY2009-2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2014-2018	Total
September 2013 MR Totals								
RL-0011	0	1,800	3,000	8,000	8,000	0	20,800	20,800
RL-0012	0	1,300	2,000	6,000	5,000	0	14,300	14,300
RL-0013	0	500	500	2,000	2,066	3,500	8,566	8,566
RL-0030	0	750	1,277	3,660	2,700	4,400	12,787	12,787
RL-0040	0	300	400	2,135	1,800	2,256	6,891	6,891
RL-0041	0	300	300	3,450	4,000	2,779	10,829	10,829
RL-0042	0	50	50	50	100	100	350	350
Total	***0***	***5,000***	***7,527***	***25,295***	***23,666***	***13,035***	***74,523***	***74,523***
October 2013 MR Changes/Utilization								
RL-0011	0	0	0	0	0	0	0	0
RL-0012	0	0	0	0	0	0	0	0
RL-0013	0	0	0	0	0	0	0	0
RL-0030	0	0	0	0	0	0	0	0
RL-0040	0	0	0	0	0	0	0	0
RL-0041	0	0	0	0	0	0	0	0
RL-0042	0	0	0	0	0	0	0	0
Total	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
October 2013 MR Totals								
RL-0011	0	1,800	3,000	8,000	8,000	20,800	20,800	20,800
RL-0012	0	1,300	2,000	6,000	5,000	14,300	14,300	14,300
RL-0013	0	500	500	2,000	2,066	5,066	8,566	8,566
RL-0030	0	750	1,277	3,660	2,700	8,387	12,787	12,787
RL-0040	0	300	400	2,135	1,800	4,635	6,891	6,891
RL-0041	0	300	300	3,450	4,000	8,050	10,829	10,829
RL-0042	0	50	50	50	100	250	350	350
Total	***0***	***5,000***	***7,527***	***25,295***	***23,666***	***61,488***	***74,523***	***74,523***

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 10/1/2008 -10/31/2013				Projection to FY 2018	
				Planned Subcontracting: $	2,406,850,559
				Contract-to-date awards: $	2,064,001,142
Reporting Category			Goal	Bal remaining to award: $	342,849,417
	$ Value	%	%	Goal award$	Bal to Goal
SB	$1,017,049,301	49.28%	49.30%	$ 1,186,577,326	$169,528,025
SDB	$177,143,997	8.58%	8.20%	$ 197,361,746	$20,217,749
SWOB	$198,578,442	9.62%	7.50%	$ 180,513,792	($18,064,650)
HUB	$54,214,595	2.63%	2.20%	$ 52,950,712	($1,263,882)
VOSB	$119,426,388	5.79%	3.50%	$ 84,239,770	($35,186,618)
SDVO	$56,490,403	2.74%	1.30%	$ 31,289,057	($25,201,345)
NAB	$28,214,406	1.37%	N/A		
Large	$558,471,202	27.06%	N/A	PRC clause H.20 small business (SB) requirement	
*GOVT	$2,119,262	0.10%	N/A	≥ 17% of total Contract Price performed by SB.	
*GOVT CONT	$482,866,522	23.39%	N/A		
*EDUC	$89,941	0.00%	N/A	Total Contract Price:	$5,679,329,866
*NONPROFIT	$3,207,620	0.16%	N/A	17% rqmt:	$965,486,077
*FOREIGN	$197,293	0.01%	N/A	SB actual:	$1,017,049,301
Total	$2,064,001,142	100.00%	N/A	Bal to rqmt	($51,563,223)

Notes:

1. Since the CHPRC contract award in October 2008, CHPRC has subcontracted over $2.06B in goods and services with over 49.2% going to small businesses. Nearly all subcontracting goals have been exceeded.
2. Approximately 93% of the total dollars arise from service and staffing contracts and contract amendments with five percent of the remaining expenditures arising from P-Card purchases and the balance in purchase orders for materials and equipment.
3. 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)

CH2MHILL
Plateau Remediation Company

J. M. Swartz
Vice President for
PFP Closure Project

October 2013
CHPRC-2013-10, 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.

Key Performance Indicators	*Current Month*	*Contract To Date*
Glovebox/ Hood Removed or Dispositioned in Place	1	196 gloveboxes/hoods
KPP Rooms/Areas Ready for Demo	-	60 rooms/areas
Asbestos/ACM Removed	- ft.	17,491 feet
Process Vacuum Piping Dispositioned	-	2,545 feet
Process Transfer Line Dispositioned	0 ft.	1,153 feet
Pencil Tank Units Removed	-	110 pencil tank units
Buildings Ready for Demo	-	32 structures
Buildings Demolished or Removed	-	32 structures
Non-radioactive Waste Shipped	0 m^3	39 m^3
TRU/TRU-M Shipped	11 m^3	1,270 m^3
LLW/MLLW Shipped	32 m^3	4,272 m^3

- Removal of plutonium-contaminated process equipment continued, with a particular focus on removing gloveboxes, associated piping, and ductwork. Glovebox (GB) 227T was removed from ventilation in the month of October. Hood 166-H1 was removed prior to October reporting. The total gloveboxes removed to date is now at 84 percent complete.
- The replacement canyon hoist motor was received and installed on the canyon crane. The bad terminal strip for the hoist motor was bypassed, the trolley cable reel was inspected, the hoist motor stator was inspected, and the festoon cable truck was adjusted. After completion of the replacement of the motor and other activities, the crane was functionally tested. All functions were operating correctly and the crane was readied to return to service.
- Work continued on the mechanical isolation of the Miscellaneous Treatment (MT) gloveboxes. The abandoned D-1 line, criticality drain lines, and pipe chases were removed.
- Work continued on removal of the interferences preventing access to the 3rd floor criticality drain. Sections of the ANN and CAS lines were removed.
- Cleanout of the 1st floor east gallery glovebox was completed.
- Continued on the development of the overall strategy, work packages for entry into 242-Z, and the engineering analysis to support the work packages. One work package of specific interest will result in a substantial increase in air flow within 242-Z, thereby improving contamination control and reducing work risk.

EMS Objectives and Target Status

Objective #	Objective	Targets	Actions to Achieve Targets	Due Date	Status
14-EMS-PFP-OB2-T1	Establish/verify NESHAP compliance under CERCLA for a major emissions unit	Provide basis for minimum requirements based on lesson learned from the Federal Government shutdown and NESHAP compliance matrix for 291-Z-1 stack under CERCLA	Obtain current DOH inspection check list and determine applicability to 291-Z-1	12/31/13	On schedule
			Combine applicable parts of past air license compliance matrix and internal NESHAP inspection checklist	3/31/14	On schedule
			Develop a basis for minimum required maintenance activities for 291-Z-1 and incorporate into document from action #2.	6/30/14	On schedule
			Obtain concurrence from Central EP&SP	9/30/14	On schedule
14-EMS-PFP-OB1-T1	Demonstrate compliance with all asbestos requirements that are pertinent to PFP	Establish a defensible and conservative asbestos compliance program at PFP that will stand up to the scrutiny of federal, state and local regulators	Review & comment on development of the new CHPRC level asbestos Regulatory Analysis Memorandum (CERCLA based).	11/15/13	On schedule
			Review & comment on the modification of an existing asbestos characterization plan Desk Instruction (DI)	1/31/14	On schedule
			ECO asbestos requirements education and training.	7/31/14	On schedule

TARGET ZERO PERFORMANCE

	Current Month	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	1	4	• 10/15/13 – Employee tripped while walking and sustained an abrasion on their right forearm.
Total Recordable Injuries	1	5	See explanation above.
First Aid Cases	6	42	• 10/4/13 – Employee sustained a wrist injury after falling up while ascending a flight of stairs. • 10/8/13 – Employee felt moderate pain and irritation while walking outside during windy conditions. • 10/18/13 – While moving furniture, employee sustained a small abrasion on the inside of right forearm. • 10/21/13 – Employee sustained an injury to the right shoulder while holding equipment-to-be-installed in an awkward position. • 10/28/13 – Employee felt pain in the lower-back while crouching and holding equipment awkwardly • 10/29/13 – Employee sustained an injury to their elbow
Near Misses	0	0	N/A

KEY ACCOMPLISHMENTS

11.02 Maintain Safe & Compliant PFP

- Continued Preventative Maintenance (PM) scope/frequency reduction efforts in the month of October.
- Completed inspection and repair of 234-5Z Zone 3 dampers in preparation for upcoming flow test.

11.05 Disposition PFP Facility

242-Z

- Short form 2Z-13-05655 for reroute of 242-Z roof drain was approved, ready to be scheduled and worked.
- D&D team performed field walk-down of 2Z-13-00782, 242-Z Ventilation Modifications.
- Continued the development of the overall strategy, work packages for entry into 242-Z, and the engineering analysis to support the work packages.

RMA

- Completed conveyor and guide-rail removal from HA-10 GB
- Completed glove-port activations, clean-out, and wet-wipe-downs for the lower level of the HA-9A GB
- Completed final clean-out of HA-7A glovebox, and applied fixative to glovebox internal surfaces

RMC

- For the HC-18BS, -5C, -18M glovebox assembly:
  - Completed removal of internal equipment, vacuuming of internal surfaces
  - Commenced wet-wipe internal decontamination

- Completed fixative application and air-gapping of the two 10-in cross-connects between the 227-S and 227-T gloveboxes. These gloveboxes are now completely isolated (including E4 connections), have internal fixative applied, and will remain in place until extraction at time of demolition.
- Removed three remnant drain lines under the HC-9B mezzanine in preparation for the start of D&D work on this glovebox.

Backside Rooms

- Room 170 Hood D&D effort:
  - Completed isolation of all process piping to the hood
  - Completed removal of two drain lines from the hood
  - Completed wet-wipe decontamination of hood internal surfaces
  - Completed application of fixative to hood internal surfaces

Plutonium Reclamation Facility (PRF)

- The replacement canyon hoist motor was received and installed on the canyon crane.
- The bad terminal strip for the hoist motor was bypassed, the trolley cable reel was inspected, the hoist motor stator was inspected, and the festoon cable truck was adjusted.
- After completion of the replacement of the motor and other activities, the crane was functionally tested. All functions were operating correctly and the crane is ready to be returned to service.
- The MT gloveboxes' abandoned D-1 line, criticality drain lines, and pipe chases were removed.
- Preparations were initiated for the removal of the remaining services to the MT gloveboxes.
- Work continued on removal of the interferences preventing access to the 3rd floor criticality drain. Sections of the ANN and CAS lines were removed.

MAJOR ISSUES

Issue – During transfer of the Tank 126 strongback to the canyon wall on Tuesday, April 30, the hoist functions stopped working. The fuses for the hoist were blown. The trolley and bridge functions continued to operate.

Corrective Action – A new hoist motor was delivered in October. Konecrances (crane vendor) fabricated a supporting shaft, and it will be placed in spares to mitigate future impacts associated with the shaft. The motor has been installed and operational testing verified the operability of the crane. After demobilization is complete pencil tank size reduction activities will continue.

Issue – When polyurethane foams react, the result is in an exothermic reaction that could cause a self-ignition. To understand the potential impacts of fire concerns two densities of fire retardant foam were evaluated (2lb; 6lb) at Southwest Research Institute (SwRI). The Hughes Associates Inc. (HAI) report recommended that a single large volume pour test be performed to fully understand the potential for self-ignition events. CHPRC/PFP has determined that this test is not necessary.

The following issues are not related directly to the exothermic reaction, but are general fire concerns:

1. The foam products tested represent a significant fire hazard. Even with the fire retardants added, the foam will be consumed in a fire event. The HAI report recommended that foamed gloveboxes be protected from exposure fire with non-combustible materials.
2. In addition to the fire hazard, the foam products produce a significant quantity of soot when burned. Will need to re-evaluate the soot loading calculations and incorporate information into the FHA and DSA. This calculation derives the required number of on-line HEPA filter rooms.
3. As a result of the HAI report, RL is asking questions about the decision process and is recommending that other, non-combustible products be evaluated.

Corrective Action – PFP will evaluate HAI recommendations and will also ensure to follow the manufacturer's procedures to safely deploy foam in lifts that are ≤18" in rise and allow subsequent cure times between lifts. PFP will also monitor the exothermic reactions during the second mockup demonstration conducted at ERDF. Alternatives analysis will be based on the results and conclusions of the Hazards Analysis.

Status – During the month of October the Initiative to implement capabilities to Foam components within 234-5Z, 242-Z, and 236-Z progressed.

- CHPRC awarded a contract to support the readiness activities to allow for foaming at PFP.
- CHPRC and RL continued to interface during the hazard assessment identification process. Expected to complete late November.
- Draft Fire Hazard Analysis was received and the final is expected to be delivered 21 November, 2013.
- Successful discussion with WCH to perform work for others with Carter Environmental Services (CES) during the campaign efforts to foam selected components within PFP.
- Teams continue to clean tent 4 in PFP's laydown yard to allow for glovebox foaming mockup. Expected to complete mid-December.
- Efforts began to identify facility equipment routing through PFP.

Issue – During a value engineering study that was conducted in the spring of 2013, an initiative to procure breathing air compressors and Level B encapsulating suits with PremAire respirators to support intrusive entries when working in the 242-Z Americium Facility was discussed and is now actively being pursued to support timely completion of the PFP Facility to Slab on Grade by September 30, 2013.

Compressor Status – Proposals have been received from (2) potential bidders for this contract. Technical evaluations are currently being completed for each proposal by the evaluation team to the criteria set. These evaluations will be completed and returned to Procurement by November 26, 2013 and at that time estimates will be passed to us to overlay cost and delivery schedule. Temp Power for the installation is design ready and part of the DEMO Prep activities. A siting location for the compressors, filtration and air storage systems enclosure has been determined to support 242-Z entries. A PFWE has been completed for this installation but not yet determined pending detail of the accepted proposal. Engineering design work for the compressor connection to the end point user connections in 242-ZA is in progress.

242-Z PPE Status – Level B Rich Industries encapsulating suits have been received and are in protective storage. PremAire respirators were shipped this last week and will be received early next week. Issues: A specific 15" hose that is part of dual feed design was not shipped correctly with each unit and will be shipped in 1-2 weeks. Also Vortex coolers are the long lead item and will not be shipped to us from MSA until December. Training modules for HAMMER MSA Respiratory Training is ready and on the shelf and OJE/OJT Dress/Undress lesson plans are being developed. PFP worker trainers are assigned and qualified at this time to perform the training.

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-011/WBS 011				
Overarching PFP Risks				
PFP-009: Aging Building Systems/Components Problems Impact Planned D&D Activities	Included life extension upgrades as part of FY2013 Annual Baseline Update and include HEPA filter replacement, replacement of air compressors, and electrical switchgear upgrades. Perform critical system reliability assessments; maintenance practices; procure critical spares, and maintain existing redundancies.	Working - Concern	No Change	Letter from RL was received to address EMP Rev.1 actions to complete by March of 2014. Completed transition of 234-5Z from 291-Z Air Sample Vacuum (ASV) system to portable pumps. Aged motor EM-5 in 291-Z declared out-of-service and scheduled for replacement in early November.
PFP-062: Ability to Use Permafix Northwest for Glovebox Size Reduction	An extension to the work turndown will be requested from HAMTC.	Working - Concern	No Change	A new work turndown is being prepared and in the event we are unsuccessful, size reduction capabilities at PFP will need to be established or more waste will be shipped to CWC for long term storage.
PFP-080 – Unforeseen Chemical Hazards	CHPRC completed investigations and identified potential lines that contain chemical hazards. CHPRC believes this to be an imminent safety hazard and, as such, has and continues to take actions to mitigate the immediate hazard. Continue to collect data and take photographs to document actions and conditions.	Working - Concern	No Change	Notice of Change letter transmitted to DOE on February 13. Investigation completed in the month of March. The path forward, based on investigation results, has been integrated into the field schedule to mitigate hazards to workers. Change Order 240, Mitigation of Chemical Lines at PFP was received by CHPRC on October 7, 2013 with a limitation not to exceed $500K prior to the definitization of the change. A formal change proposal has been developed, formally submitted to RL and discussions were initiated on the definitization of the change.
PFP- 079 – Extend Respiratory Protection Time & Operating Efficiencies	Establishing expectations and behaviors that streamline the shift/pre-job briefings, dress/undress times to allow for additional on-tool time and achieve 2-entries per day. Monitor stay-times and work patterns to establish efficiency increases to 2.5 hours per entry. Achieve consistency in work package preparation to minimize down-time.	Working - Concern	Increased Confidence	Negotiations were successful to extend respiratory protection time during the month of October, and are expected to implement extended dives in the month of November. Continue to implement Breakthrough Initiative #1, Tool Time actions. A recent VE study for PFP was held and planning continues with a special project team to implement actions to accomplish the new vision for the D&D path forward.
PFP-083: System Back-Out Plan Implementation Extends Schedule	Identify Back-out Plan implementation activities, durations, logic ties, and resources; and integrate these activities in the project execution schedule. Work activities may be re-sequenced to minimize impacts to the critical path schedule. Where needed, utilize subcontractors with credibility and experience for analysis and document preparation support. Work closely with DOE-RL and Regulators to identify review points to streamline approval process and reduce approval turnaround durations.	Working - No Concerns	No Change	Back-out Plan has been reviewed and updates have been identified. Logical Sequence flowchart has been updated. Implementation activities, durations, and logic ties have been identified and these activities are in the process of being integrated in the project execution schedule.
PFP-084: System Backout Plan Necessitates Changes to Demolition Preparation	Create integrated teams to develop and review the requirements and criteria documents (i.e. fire, nuclear, environmental, waste, etc.). Work closely with DOE-RL and Regulators to identify Go/No-Go criteria for remaining material stabilization to defer removal until final demolition. Project specific risks are in place to address individual projects.	Working - No Concerns	No Change	Back-out Plan and Logical Sequence flowchart are being updated to reflect current approach and methodology for demolition preparation and end-point determination. Implementation activities, durations, and logic ties have been identified and these activities are in the process of being integrated in the project execution schedule.

Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
RL-011/WBS 011				
PFP-086: Alternate/Temporary System Capabilities Required Prior to Building Demolition	Management Reserves may be required to acquire equipment and services to provide the required alternate temporary facility system services and functions during demolition preparation. Identify MAR that may remain and identify CHPRC and DOE decision points to deactivate ventilation and fire systems. Evaluate air flow and required air changes to minimize contamination spread and establish air flow utilizing existing ducting to the extent practical with air movers and HEPA filtration through existing stack and monitoring.			Alternate temporary facility system services and functions needed during demolition preparation are being identified. Activities to identify MAR to remain and decision points to deactivate ventilation and fire systems are being identified. Activities are being identified to evaluate air flow and required air changes to minimize contamination spread and establish air flow utilizing existing ducting to the extent practical with air movers and HEPA filtration through existing stack and monitoring.
242-Z Risks				
PFP-242-04: Dose Rates in 242-Z are Higher Than Planned	Characterization is built into the baseline to perform characterization including dose rate maps. The characterization plan will be utilized in work planning efforts to place temporary shielding around higher dose rate components. The work team is trained to stop work when conditions exceed planning information. This will prevent overexposure and prolonged work stoppages. However, if work is stopped, an alternate plan will need to be developed. Minimal mitigation is available for unknown/newly discovered higher than planned dose rates.			Contingent teams are being deployed for work package development and field work prep activities to enable a smooth transition when field work is schedule to start.
PFP-242-06: More RH-TRU than Planned from 242-Z	Utilize results from radiological and analytical characterization to develop size reduction plans. Work with the waste packaging and characterization group to understand requirements for RH-TRU waste and packaging techniques to minimize RH-TRU waste.			Contingent teams are being deployed for work package development and field work prep activities to enable a smooth transition when field work is schedule to start.
291-Z Risks				
PFP-291-01: 291-Z Characterization Unknowns	Develop characterization plans and objectives. Review historical documentation of facility construction and accident event reports. Incorporate characterization information into facility work plans and execution documents.			Opportunities are being evaluated to characterize early during maintenance activities which cause fans to be terminated. The plan of the week/day will be the communication tool to determine when early characterization can be conducted.
Balance of Plant Decontamination/Decommissioning Risks				
PFP-BOP-02: Overall D4 Schedule Impacts From Interferences Between Sub-projects	The facility has developed an integrated priority list for all in-plant activities for resource assignment in accordance with priority. PFP has developed team communication meetings to prioritize resources on a daily basis. External facility resources are prioritized through MSA between PRC subprojects. These techniques ensure the resources are assigned to the highest priority work. Identify new D&D filed teams to conduct Walkdowns and Work package development to improve interfaces within subprojects.			Evaluation of additional field teams to start duct level scope is underway in the month of October. To mitigate schedule slippage characterization efforts are underway for E4 ducting to determine waste disposition paths.

Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
RL-011/WBS 011				
PFP Demolition Risks				
PFP-DEMO-08: Experienced Demolition Crews	Initiate demo planning early to establish mechanisms at least one year prior to the need to begin demolition activities in order to have experienced staffing in place to meet schedule. Complete more detailed facility characterization to support needed contract statement of work.			Currently discussions are being held with WCH to identify when D&D workers will be available to perform D&D of 9 ancillary facilities in the spring of 2014. CHPRC is evaluating follow-on scope to keep the D&D work force on staff to ensure that the PFP will be able to be demolished as scheduled by September, 2013. Currently D&D workers are projected to be available to support the PFP Project in March, 2014.
PRF Cleanout/Decontamination Risks				
PFP-PRF-01: PRF Canyon Cleanout Scope Increases	Characterization data will be collected as early as feasible to allow early identification of any issues associated with the planned approach. Failure to achieve end-point criteria to support open air demolition is a basis for Change Request to DOE.			The Characterization strategy is currently under development and meetings were held with project managers to prioritize the approach. Continue efforts to interface with the PRF to further define ready-for-demolition criteria for the Plutonium Reclamation Facility (236-Z), the most challenging of the facilities.
PFP-PRF-02: PRF Canyon Crane Reliability Issues Result in Cost/Schedule Growth	Perform necessary preventative maintenance actions associated with canyon crane and ensure appropriate spares are on site to minimize schedule impacts in the event of equipment failure. Minimize the use of the crane to the extent practical. Obtain independent assessments of the crane. In the event of a crane failure, attempt to utilize work force on other projects to minimize down-time for work force.			Due to the number of failures to the crane, a new motor was delivered in October. Konecrances (crane vendor) fabricated a supporting shaft, and it will be placed in spares to mitigate future impacts associated with the shaft. The motor has been installed and demobilization of crane repair activities is being performed. After demobilization is complete pencil tank size reduction activities will continue.
PFP-PRF-10: Unable to Eliminate Need for Supplied Air for PRF	Initiate planning efforts to obtain Nondestructive Assay information on the condition of the canyon as early in the project as feasible. As characterization data is obtained, the approach to the cleanup of the canyon will be adjusted according. Additional activities may have to be performed remotely.			To mitigate supplied air entries planning is underway, with the special projects group, to implement a 2013 Value Engineering initiative to deliver breathing air systems into 236-Z if needed.
RMA/RMC Glovebox Removal Risks				
OPPORTUNITY: PFP-GB-01A: High Gram Box Disposition - FOAM	The responsibility for the implementation on the use of expanding foam at PFP has been assigned to personnel within the PFP Special Projects organization and is essentially being managed as a project. Lessons learned from other DOE sites that have used expanding polyurethane foam for similar applications are being used to facilitate implementation at PFP. The Risk Evaluation Board (REB) will be used to employ senior management personnel from CHPRC and DOE-RL to help resolve any significant issues associated with the use of foam.			Efforts continue under the special projects organization to implement the foaming initiative to foam selected components throughout 234-5Z and 236-Z. In the month of October the following activities commenced: •Hazard assessment commenced with RL participation •Development of statement of work to support Readiness Activities •Development of plant force work review on to foam components throughout 234-5Z and 236-Z •Identify additional mock-up gloveboxes for demonstration/tooling development

Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
RL-011/WBS 011				
PFP-GB-05: Dose Rates for RMA/RMC Removal Higher than Planned	Characterization is built into the baseline to perform characterization including dose rate maps. The characterization plan will be utilized in work planning efforts to place temporary shielding around higher dose rate components. The work team is trained to stop work when conditions exceed planning information. This will prevent overexposure and prolonged work stoppages. However, if work is stopped, an alternate plan will need to be developed. Minimal mitigation is available for unknown/newly discovered higher than planned dose rates other than requesting dose-rate extensions for workers.			As an integral part of the work planning process, dose rates are measured at the work site(s) and evaluated by radiological engineering personnel. Appropriate mitigating steps are then implemented through the planning process (e.g., use of temporary shielding, remote handling, work sequencing, additional dosimetry, etc.). Real-time Dosimetry is used for most GB D&D workers, which gives individuals a constant readout for their dose; this will alert workers and management to changed conditions and allow tracking of cumulative dose relative to applicable limits. In addition, NDA data are evaluated as part of the planning process to indicate high-holdup areas of a GB, which often correlates to dose. This can help identify areas of work requiring additional controls and enables target removal of high-hold up materials earlier in the process to reduce dose rates for subsequent activities.

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 (%)
Total	7.8	5.2	6.6	(2.6)	-33.7%	(1.4)	-26.2%

Numbers are rounded to the nearest $0.1M

CM Schedule Variance: (-$2.6M/-33.7%)

Current Month negative schedule variance is due to process vacuum and transfer line removal efforts deferred due to field work teams reassigned to high-hazard work scope and the continued PRF canyon crane repair. In addition, initiating layup activities in preparation of going to a MinSafe condition in anticipation of the FY2014 budget and debt-ceiling impasse also contributed to this negative variance.

CM Cost Variance: (-$1.4M/-26.2%)

The current month negative cost variance is associated with continuation of completion of FY2012 carryover work scope on the RMA/RMC gloveboxes and PRF crane repairs. In addition, the amount of radioactive material discovered in the HA-10 glovebox caused removal of significantly more internal equipment to access and cleanout than originally had been planned. Finally, initiating layup activities in preparation of going to a MinSafe condition in anticipation of the FY2014 budget and debt-ceiling impasse also contributed to this negative variance.

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)
Total	629.3	619.1	648.4	(10.2)	-1.6%	(29.3)	-4.7%	934.9	962.3	(27.4)

Numbers are rounded to the nearest $0.1M

CTD Schedule Variance (-$10.2M/-1.6%)
The CTD Schedule Variance is within reporting thresholds.

CTD Cost Variance (-$29.3M/-4.7%)
The cost variance is within reporting thresholds.

Variance at Completion (-$27.4M/-2.9%)

The variance at completion is primarily a result of FY2013 Sequestration impacts to D&D work scope and prior year unrecoverable costs. The project is advancing a strategic path forward to achieve the slab-on-grade completion date of 2016.

Estimate at Completion (EAC)
The BAC and EAC include FY2009 through FY2018, the PRC contract period.

The EAC changes from August to September are a result of re-planning remaining work-scope to get the PFP Project to Slab on Grade by September 2016.

Contract Performance Report Formats are provided in Appendix A.

FUNDS vs. SPEND FORECAST ($M)

WBS 011/RL-0011 Nuclear Matl Stab & Disp PFP	FY2014 Projected Funding	FY2014 Spending Forecast	FY2014 Spend Variance
RL-0011	120.5	107.5	13.0

Numbers are rounded to the nearest $0.1M

Funds/Variance Analysis

FY2014 work authorization received from RL reflects revised projected funding from $391.6M to $374.5M. A reallocation of projected funding at $374.5M will be incorporated in next month's reporting. The Spending Forecast includes actions anticipated to achieve the reduced targets.

Critical Path Schedule

Critical Path consists of cutting and size reducing the PRF Pencil Tanks, then decontaminating and fixing the PRF Canyon. Once ventilation is no longer needed to the PRF Canyon, the next step is removing the final E4 filters and performing 291-Z isolation activities. In order to shorten the critical path, the majority of final filter removal will be done prior to ventilation being powered down. Once ventilation is off and the final two filter banks are removed, demolition preparation and demolition of the 291-Z stack commence and lead to the final Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) Milestone – M-083-00A, *PFP Facility Transition and Selection Disposition Activities*.

Baseline Change Requests

None identified at this time.

MILESTONE STATUS

None identified 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)

CH2MHILL
Plateau Remediation Company

L. T. Blackford
Vice President and
Project Manager for
Decommissioning, Waste,
Fuels, and Remediation
Services (DWF&RS)

October 2013
CHPRC-2013-10, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

- The Preliminary Documented Safety Analysis (PDSA) for the Sludge Treatment Project (STP) Engineered Container Retrieval and Transport System (ECRTS) has been revised to incorporate the disposition of all RL comments, and a redline/strikeout of the document has been informally submitted to RL for their review of the changes. The revised PDSA has been formally transmitted by letter to RL, requesting approval by December 13, 2013.
- Sludge Treatment Project (STP) technical staff have initiated an evaluation of alternative strategies that have the potential to simplify the ECRTS design and operation. These evaluations include:
  - Identifying alternative strategies for controlling the hydrogen explosion hazard.
  - Updating the spray release accident consequence calculation method and associated control strategy.
  - Optimizing the number of Sludge Transport and Storage Container (STSCs) required for transporting and storing K West Basin sludge by combining sludge from different engineered containers within a STSC and/or increasing the quantity of one sludge type added to a given STSC.
- Integrated Process Optimization Demonstration (IPOD)
  - Successfully performed transfer and retrieval system set-ups, water runs, and system flow optimizations.
  - Performed ventilation system balancing Test Deficiency Report (TDR) retests and found that STSC low-pressure inlet ventilation system may need improvements. Improvements are needed to meet the two criteria of 1) the inlet pressure control valves performing their intended back flow prevention function and 2) getting the inlet airflow to overcome the nitrogen flow to automatically shut off the nitrogen purge system when ventilation flow is re-established to the STSC. A new less restrictive STSC inlet flow meter was purchased and sent to calibration to reduce the STSC inlet ventilation system head loss.
  - Overfill recovery system demonstrations were successfully performed for system set-up, water runs, and flow optimizations.
  - In performing the initial steps of sand filter set-up, dry run steps were successfully performed to remove the sand filter media. The opportunity provided many procedural optimizations to perform the task in such a way as to reduce the potential for line plugging.
  - Maintenance and Storage Facility (MASF) personnel removed the instrument spool density flow meter for calibration so it can be ready for the upcoming divider plate simulant removal tests. They also installed a temporary flow meter to take its place for further IPOD demonstrations.
  - Successfully performed sand filter media washing with ~6,000 gallons of water. Decant system water runs and optimizations were initiated.
  - Successfully completed decant system water runs and optimizations. Section 5.0, Pre-Demonstration System Set-up and Water Runs, was successfully completed (with noted test discrepancies).
  - The transfer line service box duckbill check valve performance was demonstrated. The results showed that water would discharge through the hi-point vent filters in the event of a vent valve misalignment rather than diverting through the duckbill check valve as intended by the system design. ECRTS engineering is evaluating system impacts.
  - Removed sand filter media from STSC in preparation for Procedure Section 6.0, Interlock Demonstrations.
- The Knock-Out Pot (KOP) Disposition Subproject Closeout document (PRC-STP-00750, *Project Transition/Closeout Report for the Sludge Treatment Project Knockout Pot Disposition Subproject*) was completed. This report provides a comprehensive assessment of project performance, the transition to Operations, and lessons learned that might benefit other projects utilizing DOE Order

413.3B, *Program and Project Management for the Acquisition of Capital Assets*.

- Testing activities for K West garnet filter media testing continued at MASF. The testing will explore and develop viable options for retrieval of the garnet filter media and filtered fines from the filter vessels. Initial testing to establish the test bed has focused on bottom retrieval testing using the coarser simulant material. Testing is now moving forward with finer material added on top of the coarse material. The K Basin garnet filter vessels are filled with three layers of different mesh sizes of sand.
- K West Annex Construction
  - Completed the concrete placement for the south and east loading bay walls.
  - Completed the concrete placement for the north and west loading bay walls.
  - Completed the Design Change Notices (DCN) related to the grade beam installation in the stem wall to support concrete placement scheduled for November 1, 2013.
  - Approved the Flanders ventilation system design.
  - Completed the removal of the MEVA wall forms. Completed the cleanup and radiological surveys for the transportation off-site of the removed MEVA wall forms.
- Work continued on design of T Plant modifications to receive sludge (STSCs). The functional criteria document, prepared in 2001, was updated to reflect current design. The document was approved and released (HNF-6579, Rev 3, *Design Criteria for the T Plant Storage for Sludge Transport and Storage Containers [STSCs])*. Design drawings for the containment, leveling frames, leak detectors and several lifting apparatus were completed. The facility modification package for removing the north load out pit equipment was approved. The nitrogen purge system design is continuing to progress. Critical lift plans and engineering calculations are in process. The Facility Modification Package (FMP) releasing the design drawings for the containment, leveling frames, leak detectors, and several lifting devices were completed. The STP project completed their review of the T Plant Fire Hazards Analysis (FHA) and submitted Review Comment Record (RCR) Comments.
- STP/Operations Interface
  - Operations, Engineering, and Nuclear Safety continued evaluation and development of a work plan to perform water injection into the engineered containers in order to release and observe any retained gas, which includes additional ventilation blower testing performed at MASF. This included development of a comprehensive field execution schedule.
  - Continuing development of disposition plans for fuel fragments found during sludge depth measurements.
- 105KW Operations
  - Worked 12 work packages throughout. These work packages covered Preventive Maintenance (PM) and calibrations of basin systems and equipment as well as routine work packages and field walk-downs. Also worked/supported 11 additional maintenance packages including Continuous Air Monitor (CAM) and Personnel Contamination Monitor (PCM) functional checks, CAM calibrations, safety equipment inspections/checks, and routine driver, mechanical, and electrical work activities.
  - Performed preparations for running the Integrated Water Treatment System (IWTS) including:
    - Assisted in package preparation for amphenol control.
    - Developed eight criteria checklist for amphenol control.
    - Worked electrical and valve lineups.
  - Performed preparations for Motor Control Center (MCC)-2B outage and inspection including:
    - Electricians and Operations prepared work area around MCC-2B, ran extension cords, temporary lighting, and distribution boxes.
    - Fire Systems Maintenance installed and removed jumpers on 105KW Fire Alarm Control Panel.

  - Engineering, Fire Protection, and Operations held meetings to determine path forward for alternate power for 105KW Fire Alarm Control Panel.
  - Work Control continued to add steps to the work package to enhance the ability to perform the work without additional surveillances. New steps will allow alternate 120V power to be supplied to the 105KW Fire Alarm Control Panel. This change will remove the requirement for once-per-shift surveillance.
- Performed preparations including decontamination activities for Ion Exchange Module (IXM)-4 change-out and supported shipment of spent IXM for burial. Completed IXM-4 hose re-connection, removed lockout/tagout, and placed IXM-4 in service.
- Supported Construction activities including concrete wall pours associated with ECRTS Annex construction.
- Performed a Management Observation Program (MOP) on the revised monthly preventive maintenance procedure to inspect the monorail safety rail latches. This revision removes the wording such that a material problem with the latch would be an automatic failure even if it still adequately performed its function. No issues were identified.
- Prepared an Operational Drill Report to obtain credit for the walk-down and analysis of Emergency Preparedness Drill K-EPDE-062713 performed by Building Emergency Directors, Facility Operations Specialist, Incident Command Post Communicators, Radiation Hazards Assessor, and Radiation Hazards Communicators.

EMS OBJECTIVES AND TARGET STATUS

None currently identified.

TARGET ZERO PERFORMANCE

	CM Quantity	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	2	N/A
Total Recordable Injuries	0	4	N/A
First Aid Cases	0	10	N/A
Near-Misses	0	0	N/A

KEY ACCOMPLISHMENTS

- The KOP Disposition Subproject Closeout document (PRC-STP-00750, *Project Transition/Closeout Report for the Sludge Treatment Project Knock-Out Pot Disposition Subproject*) was completed. This report provides a comprehensive assessment of project performance, the transition to Operations, and lessons learned that might benefit other projects utilizing DOE Order 413.3B, *Program and Project Management for the Acquisition of Capital Assets*.
- Revised PDSA has been formally transmitted by letter to RL, requesting approval by December 13, 2013.
- K West Annex Construction
  - Completed the concrete placement for the south and east loading bay walls.
  - Completed the concrete placement for the north and west loading bay walls.
  - Completed the DCN related to the grade beam installation in the stem wall to support concrete placement scheduled for November 1, 2013.
  - Approved the Flanders ventilation system design.
  - Completed the removal of the MEVA wall forms. Completed the cleanup and radiological surveys for the transportation off-site of the removed MEVA wall forms.
- IPOD
  - Successfully performed transfer and retrieval system set-ups, water runs, and system flow optimizations.
  - Performed ventilation system balancing TDR retests and found that STSC low-pressure inlet ventilation system may need improvements.
  - Overfill recovery system demonstrations were successfully performed for system set-up, water runs, and flow optimizations.
  - Successfully performed sand filter media washing with ~6,000 gallons of water. Decant system water runs and optimizations were initiated.
  - Successfully completed decant system water runs and optimizations. Section 5.0, Pre-Demonstration System Setup and Water Runs, was successfully completed (with noted test discrepancies).
  - The transfer line service box duckbill check valve performance was demonstrated. Removed sand filter media from STSC in preparation for Procedure Section 6.0, Interlock Demonstrations.

MAJOR ISSUES

None currently identified.

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-0012/WBS 012				
STP-002: STP Uncertainties	The majority of the risk mitigation strategy has been completed; only IPOD and cold commissioning runs with final design and production hardware remains prior to installation in the basin. The project has utilized bounding design parameters to limit control systems to the extent practicable. Testing of integrated components/systems will ensure technologies are transferable to the basin application/environment. Demonstrated TRL-4 at CD-0/1 and TRL-6 at CD-2/3.	Working - No Concerns	No Change	CD 2/3 information submitted to RL for review.
STP-067A: Safety Significant Components **STP-067B – OPPORTUNITY: Safety Classification of SSC's**	Integrate nuclear safety representation on design team to minimize potential for an increase in the classification of safety significant SSCs in the ECRTS Process System Design. The project will conduct in-process reviews of the draft PDSA with DOE to ensure reviewers fully understand the basis for current SSC safety classifications. The PDSA has been submitted to RL.	Working - No Concerns	No Change	Continuing to evaluate strategies to reduce SSC Safety Classification for out-year procurements.
STP-ANX-020: Contractor/Subcontractor Performance	Mitigation strategy is to provide extensive oversight on subcontractors work scope. Implement a Corrective Action Plan for contractor to implement to address shortfalls in performance. Closely coordinate, plan, and monitor construction using detailed field schedules to minimize impacts.	Working - Concern	No Change	Continued funding uncertainties are causing several sub-contractor impacts due to stop/restart cycles.
STP-ANX-024: K-Annex Design or Requirements Change or Errors & Omissions	Identify required design changes early in the process to minimize schedule impacts. The design reviews and constructability reviews have been completed, the potential requirements change, and related impacts are accepted without mitigation due to the action required. Develop a streamlined approach for handling contractor submittals and RCIs.	Working - No Concerns	No Change	Annex construction is progressing. Design change process is minimizing impact.
STP-ANX-028: Annex Acquisition – Programmatic Risk	CHPRC is proceeding with contract strategy for the Annex Construction.	Working - No Concerns	No Change	Ongoing negotiations with FE&C for construction of Annex. Several CHPRC project personnel were seconded to support the 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 (%)
Total	4.5	4.4	4.0	(0.1)	-2.4%	0.4	9.3%

Numbers are rounded to the nearest $0.1M

CM Schedule Performance (-$0.1M/-2.4%)
Variance is within reporting thresholds.

CM Cost Performance ($0.4M/9.3%)
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)
Total	386.9	386.7	394.5	(0.1)	-0.0%	(7.8)	-2.0%	688.4	698.4	(10.0)

Numbers are rounded to the nearest $0.1M

CTD Schedule Performance (-$0.1M/-0.0%)
Variance is within reporting thresholds.

CTD Cost Performance (-$7.8M/-2.0%)
Variance is within reporting thresholds.

Estimate at Completion (EAC)
Variance is within reporting thresholds.

Contract Performance Report Formats are provided in Appendix A.

FUNDS vs. SPEND FORECAST ($M)

RL-0012 Spent Nuclear Fuel Stabilization and Disposition	FY2014 Projected Funding	FY2014 Spending Forecast	FY2014 Spend Variance
RL-0012	64.1	57.1	7.0

Numbers are rounded to the nearest $0.1M.

Funds/Variance Analysis
FY2014 work authorization received from RL reflects revised projected funding from $391.6M to $374.5M. A reallocation of projected funding at $374.5M will be incorporated in next month's reporting. The Spending Forecast includes actions anticipated to achieve the reduced targets.

Critical Path Schedule
The STP Critical Path is funding constrained in FY2014 resulting in the process equipment procurement deferred into FY2015/2016. The critical path subsequently flows through the installation of process equipment, then operational acceptance testing of the facility modifications, annex process equipment, readiness activities at the K West basin, the operational readiness review, and finally containerized sludge retrieval operations. Retrieval operations includes the filling of STSCs with sludge and transferring them to T Plant, completing Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) milestone M-016-176, *Complete Sludge Removal from 105-KW Fuels Storage Basin*.

Baseline Change Requests
None currently identified.

MILESTONE STATUS

(Tri-Party Agreement) 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 Annual Update, implemented in September 2013, and subsequent approved BCRs define CHPRC planning with respect to Tri-Party Agreement milestones. The following table is a one year look ahead of commitments and Tri-Party Agreement enforceable milestones and non-enforceable target due dates. Tri-Party Agreement Milestones are currently being renegotiated between the Parties to align milestone work scope with anticipated FY2014 funding scenarios and Hanford site priorities.

Number	Title	Due Date	Actual Date	Forecast Date	Status/ Comment
M-016-175	Begin sludge removal from 105-KW Fuel Storage Basin	09/30/2014		09/01/2018	This Tri-Party Agreement completion has been greatly impacted by funding reductions and sequestration. It is currently unattainable and needs to be re-negotiated.

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)

CH2MHILL
Plateau Remediation Company

L. T. Blackford
Vice President and
Project Manager for
Decommissioning, Waste,
Fuels, and Remediation
Services (DWF&RS)

October 2013
CHPRC-2013-10, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

The Waste and Fuels Management Project (W&FMP) continued maintaining facilities in a safe and compliant condition. Overall, the project is delivering planned efficiencies but continues to be impacted by emerging work and realized risks. Completed work to repair the WESF roof with the exception of the non-skid walkway. T-Plant hosted eight Hanford 70th Anniversary weekend tours and supported a 291-T Major Stack Inspection by Washington State Department of Health (WSDOH). Liquid Effluent Facilities (LEF) received five tankers, 22k gallons. Developed plans to maintain facilities in the event of a Government shutdown.

EMS Objectives and Target Status

Objective #	Objective	Target	Due Date	Status
14-EMS-DWF&RS-OB1-T1	Reduce the risk of noncompliance with environmental requirements.	Develop 6 compliance matrices for DWF&RS Permits or CERCLA Work Plans.	09/30/14	On Schedule

TARGET ZERO PERFORMANCE

	CM Quantity	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	1	N/A
Total Recordable Injuries	0	2	N/A
First Aid Cases	3	35	• 10/4/13 - Employee reported hyperextending knee when leg slid down the side of a ditch. Body part affected: Knee (23191) • 10/21/13 - Employee reported throat irritation while conducting air monitoring. Body part affected: Throat (23217) • 10/31/13 - Employee stepped wrong while getting out of truck and experienced pain in low back. Body part affected: Low back (23216)
Near Misses	0	0	N/A

KEY ACCOMPLISHMENTS

13.01 Project Management

- Continued Project Management support for high priority projects
- Developed plans in the event of Government Shut Down
- Continued update of FY2014 Performance Measurement Baseline to incorporate reduced funding levels

13.02 Capsule Storage & Disposition

- Completed Waste Encapsulation and Storage Facility (WESF) roof repairs
  - o Non-skid walkway surfaces to be installed in spring (pending favorable weather conditions)

- Continued with 10-ton crane brake repairs
- Repaired safety-significant Multi-Canister Overpack (MCO) cask lifting device LFT-1

13.03 Canister Storage Building (CSB)

- Completed:
  - Monthly Technical Safety Requirement (TSR) and environmental preventive maintenance (PM)
  - Repair of operations area heating, ventilation and air conditioning return plenum

13.07 Waste Receiving and Processing Facility (WRAP)

- Completed cleanup of absorbed battery acid (forklift) at 2404WC
- Repaired Isokinetic Stack Effluent Monitoring System (ISEMS) Continuous Air Monitor (CAM) detector and achieved mid-interval calibration
- Completed performance test for Pacific Northwest National Lab (PNNL) In-Situ Object Counting System (ISOCS) units in support of repack activities at Permafix Northwest (PFNW)
- Completed:
  - Six Technical Safety Requirement (TSR) surveillances
  - 11 Preventive Maintenance (PM) packages
  - 82 Radiological (Rad) surveillances
  - 44 Operational surveillances

13.08 T Plant

- Supported unscheduled 291-T Major Stack Inspection by Washington State Department of Health (WSDOH)
- Hosted eight Hanford 70th Anniversary weekend tours
- Completed:
  - Emergency light upgrades
  - Two TSR surveillances
  - 298 Rad surveillances
  - 20 PM packages
  - 197 Operational surveillances
- Shipments:
  - Shipped four containers from T Plant to Centralized Consolidation/Recycling Center (CCRC)

13.09 Central Waste Complex (CWC) and Low Level Burial Grounds (LLBG)

- Rearranged 2402-WK Special Nuclear Material containers to support receipt of additional containers from the Plutonium Finishing Plant (PFP) (including standard waste boxes)
- Initiated liquid bottle collection change out activities for the 231ZDR-11 waste box
  - Overpacked drum of containerized liquid low level waste (LLW) from the CWC Outside Storage Area
- Completed:
  - Size reduction of waste boxes from FRP # ZBB78164.B and 315962.10 at PFNW
  - Fifteen TSR surveillances
  - 12 PM packages
  - 172 Rad surveillances
  - 61 Operational surveillances
- Shipments:
  - Received three shipments totaling five standard waste boxes and nine 55-gallon drums of transuranic mixed (TRU/M) waste from PFP

13.11 Liquid Effluent Facilities (LEF)

- Annual tank inspections on schedule to support startup of processing Basin 42
- Completed change out of vapor compressor
- Issued Request for Proposal (RFP) for replacement heat exchanger
- Received five tankers:

- 22K gallons (382K gallons CY)
- Treated effluent to State-Approved Land Disposal Site:
  - 0.6M gallons (8.0M CY)
- Discharged to 200A Treated Effluent Disposal Facility (TEDF):
  - 1.70M gallons (21.76M CY)
- Received Environmental Restoration Disposal Facility (ERDF) Leachate
  - 138K gallons (1.81M CY)

Liquid Effluent Retention Facility (LERF) Basin activities

- **All Basins**
  - Continued with surveys/posting verification activities
  - Completed monthly inspections with no cover breaches identified
- **Basin 44:**
  - Completed vegetation removal
  - Completed water removal
  - Removed 12,000 pounds of soil
- **Basin 43**
  - Completed water removal
- **Basin 42:**
  - Completed vegetation removal
  - Completed water removal
  - Initiated soil removal

13.12 Integrated Disposal Facility

- Completed required monthly, quarterly and annual calibrations and inspections

13.16 Off Site Spent Nuclear Fuel Disposition

- Maintained coordination for offsite Spent Nuclear Fuel Disposition

13.21 Mixed Waste Disposal Trenches

- Completed one TSR surveillance
- Completed 16 Rad surveillances
- Completed four Operational surveillances
- Shipments
  - Received two shipments of mixed low-level waste (M/LLW) totaling five boxes and three drums from PFNW and disposed in Trench 31

MAJOR ISSUES

None at this time.

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-0013				
PRC-010: Requirements Change	Changes to DOE Orders, Federal, or State Regulations could impact the baseline scope, schedule and/or cost. There is a risk that state directed changes could impact the ability to perform work in the planned manner.	Yellow	⟷	Agreed Order impacts from EPA and Ecology are being addressed. Implementation of Contract Modification expected in November.
WSD-019: Commercial Capability	MLLW treatment capacity/capability does not meet Hanford needs or treatment does not occur as scheduled. W&F manages contract for CHPRC waste treatment. Work scope within PBS RL-0013 is not impacted. Mixed Waste may require temporary storage within CWC until sufficient volume is generated for efficient processing.	Yellow	↑	Forecasted volumes from CHPRC Projects may not allow commercial capability to remain viable. Working with vendor(s) to understand impacts. The waste shipments completed in September/October continue to support viability of Commercial Waste Treatment Capability.
WSD-086: W&FM Industrial Accident or Contamination	Workers are trained in equipment operation, radiological control procedures (ALARA), and response to events. Processes and procedures identify safe equipment operation, control of radiological/hazardous materials.	Yellow	⟷	Continuing to address biological contamination at LERF and Trench 94. Implementation of corrective actions associated with transportation incident.
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.	Yellow	⟷	Legacy containers in expansion area are requiring additional resources. FY-2014 containers identified.
WSD-079 (WRAP) WSD-097 (T-Plant) WSD-120 (WESF) WSD-121 (LERF) WSD-122 (CSB) WSD-135: (ETF) WSD-136: (CWC) Equipment Failure at W&F Facility	Continue with the current maintenance program and aggressive PM and CM program. Maintain spare parts inventory, perform Preventative Maintenance as scheduled, and remove unused equipment from service.	Red	⟷	• Continue to sample and monitor area. LERF cover cleaning and inspection continuing. • ETF Heat Exchanger procurement initiated in October. • Continuing to experience greater than planned maintenance at ETF and LERF. • WESF roof replacement completed in October (with exception of non-skid walk way).
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.	Yellow	⟷	• Working with RL on Agreed Order

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 (%)
Total	7.3	6.3	5.6	(1.0)	-13.3%	0.7	11.5%

Numbers are rounded to the nearest $0.1M

CM Schedule Performance (-$1.0M/-13.3%)

The current period schedule variance is attributable to delay in the return of repackaged TRU waste from commercial repackaging facility.

CM Cost Performance (+$0.7M/+11.5%)

The current period favorable cost variance is primarily the result of continued implementation of efficiencies.

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 (%)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)
Total	796.6	795.8	777.2	(0.8)	-0.1%	18.5	2.3%	1,325.0	1,256.9	68.0

Numbers are rounded to the nearest $0.1M

CTD Schedule Performance (-$0.8M/-0.1%)

The schedule variance is within threshold.

CTD Cost Performance (+$18.5M/+2.3%)

The favorable cost variance is within reporting threshold.

Estimate at Completion (EAC)

The BAC and EAC include FY2009 through FY2018.

The change in EAC from September to October is primarily due to inclusion of planned efficiencies in FY2014 through FY2018.

Contract Performance Report Formats are provided in Appendix A.

FUNDS vs. SPEND FORECAST ($M)

WBS 013/RL-0013 Waste and Fuels Management Project	FY2014 Projected Funding	FY2014 Spending Forecast	FY2014 Spend Variance
RL-0013	81.2	77.8	3.4

Numbers are rounded to the nearest $0.1M.

Funds/Variance Analysis

FY2014 work authorization received from RL reflects revised projected funding from $391.6M to $374.5M. A reallocation of projected funding at $374.5M will be incorporated in next month's reporting. The Spending Forecast includes actions anticipated to achieve the reduced targets.

Critical Path Schedule

Critical path analysis can be provided upon request.

Baseline Change Requests

BCR-013-14-001R0 – *EPA Consent Agreement and Final Order (CAFO)*

MILESTONE STATUS

Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement)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 Annual Update, implemented in September 2013, and subsequent approved BCRs define CHPRC planning with respect to Tri-Party Agreement milestones. The following table is a one year look ahead of commitments and Tri-Party Agreement enforceable milestones and non-enforceable target due dates. Tri-Party Agreement Milestones are currently being renegotiated between the Parties to align milestone work scope with anticipated FY2014 funding scenarios and Hanford site priorities.

Number	Title	Due Date	Actual Date	Forecast Date	Status/ Comment
M-091-40L-040	Submit Jul-Sep 4th Qtr. FY2013 Burial Ground Sample Results	12/15/13		12/15/13	On Schedule
M-091-40L-041	Submit Oct-Dec 1st Qtr. FY2014 Burial Ground Sample Results	3/15/14		3/15/14	On Schedule
M-026-07C	Evaluation of Tritium Treatment Technology to EPA & Ecology	3/31/14		3/31/14	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)

CH2MHILL
Plateau Remediation Company

R. S. Popielarczyk
Vice President and
Project Manager for
Soil and Groundwater
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M. N. Jaraysi
Vice President for
Environmental Program
and Strategic Planning

October 2013
CHPRC-2013-10, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

Work included Pump-and-Treat (P&T) Operations and 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 October includes the following:

Treatment Facility	Million Gallons Treated		Chrome (kg)		Carbon Tet (kg)		Nitrate as N (kg)	
	CM	FYTD	CM	FYTD	CM	FYTD	CM	FYTD
DX P&T	25.5	25.5	21.7	21.7				
HX P&T	23.9	23.9	2.5	2.5				
KR4 P&T	12.2	12.2	0.5	0.5				
KW P&T	13.1	13.1	1.5	1.5				
KX P&T	21.7	21.7	2.0	2.0				
200 West P&T	43.6	43.6			167	167	2,966	2,966
Combined	**140.0**	**140.0**	**28.3**	**28.3**	**167**	**167**	**2,966**	**2,966**

Sampling	October	FY2014 Cumulative
Well Sampling Events	177	177
Aquifer Tube Sampling Events	62	62
Total Number of Sampling Events	239	239
Samples Collected	609	609
Analyses Performed	1,425	1,425

EMS Objectives and Target Status

FY2014 Objectives and Targets are in signature finalization

Objective #	Objective	Target	Due Date	Status
13-EMS-SGWR-OB2-T1	Reduce air emissions at the 200 West Pump and Treat Facility	Establish a baseline for air emissions at the 200 West Pump-and-Treat Facility.	10/30/13	Complete
		A tabulation of emissions, in mass (pounds, kilograms, milligrams, etc.) per year, for constituents of concern (i.e., all constituents analyzed for during quarterly sampling events).	Quarterly	Complete
14-EMS-SGWR-OB1-T1	Reduce air emissions at the 200 West Pump and Treat Facility	Update air emissions baseline for 200 West Pump-and-Treat Facility and evaluate data to identify if additional air modeling is warranted and whether opportunities exist reduce air-toxic emissions.	9/30/14	On schedule
		A tabulation of emissions, in mass per year, for constituents of concern (i.e., all constituents analyzed for during sampling events). Evaluation results will be documented as a Worksite Assessment(s).	Quarterly	Ongoing

Objective #	Objective	Target	Due Date	Status
14-SGWR-EMS-OB2-T1	Reduce the amount of toxic and/or hazardous materials in the environment.	Pump and Treat 1.8 billion gallons of contaminated groundwater from all Pump and Treat Facilities during FY2014.	9/30/14	On schedule
		The volume of contaminated groundwater that is treated as measured in gallons.	Monthly	140M Gallons treated through 10/31/13
14-SGWR-EMS-OB3-T1	Reduced resources use (fuel use)	Evaluate opportunities to discharge purgewater to ground from newly drilled wells.	9/30/14	On schedule
		Report results of evaluation by Well ID/Well Name.	Monthly	Ongoing
14-SGWR-EMS-OB4-T1	Reduce fuel consumption/greenhouse gas emissions and increase resource utilization (sampling, well maintenance, and waste management personnel)	Seek EPA and Ecology approval to manage miscellaneous solid waste (MSW) from well sampling and maintenance activities in one centralized area.	3/30/14	On schedule
		This target will be met upon submittal of Tri-Party Agreement Change Notice to DOE, EPA, and Ecology.	Status at completion	Ongoing

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	3	23	10/1/2013 – Employee felt irritation in both the nose and throat. The employee was taken to the medical facility for an evaluation and was released to work without restriction. S&GRP (23177) 10/7/2013 – Employee rubbed his eyebrow and a foreign body fell in his right eye. Employee was released to work without restriction. PTS (23196) 10/24/2013 – Employee began experiencing bites from ants, initially on neck and then additional bites on shoulder and back. Employee was taken to HPMC and then released to work without restriction. S&GRP (23212)
Near-Misses	0	3	N/A

KEY ACCOMPLISHMENTS

RL-0030.O1 RL 30 Operations

RL 30 Integration & Assessments

Strategic Integration

- Integration of Central Plateau Closure activities - Provided RL with a high level review of the US Ecology Site Conceptual Site Model (VET-1405-01-RPT-001) and a Power Point briefing (Update, US Ecology MTCA, dated August 2013). The review evaluated the proposed approach, cleanup values, and consistency/interface with DOE plans for Central Plateau cleanup. Several inconsistencies were identified. Further discussions are required with RL to determine a path forward prior to holding a technical workshop with the Washington Department of Ecology.

Technical Integration

- TC&WM EIS Model Transition –Testing of the vadose zone model and the groundwater transport model are complete.

DOE O 435.1 Assessments

- Received Low-Level Federal Review Group (LFRG) approval of the Environmental Restoration Disposal Facility (ERDF) Performance Assessment.

River Corridor

100-KR-4 Operable Unit

- Completed 100-KR-4 Well Installation Sample and Analysis Plan (SAP), Addendum 2 (DOE/RL-2013-36) and received final regulatory signature on October 28, 2013.

100-HR-3 Operable Unit

- Completed 100-HR-3 Well Installation SAP, Addendum 2 (DOE/RL-2013-35) and received final regulatory signatures on November 1, 2013.

100-BC-5 Operable Unit

- Four drill rigs were mobilized for the monitoring wells.
- Installation of eighteen aquifer tubes was complete and initial sampling began.

Central Plateau

200 West Pump and Treat

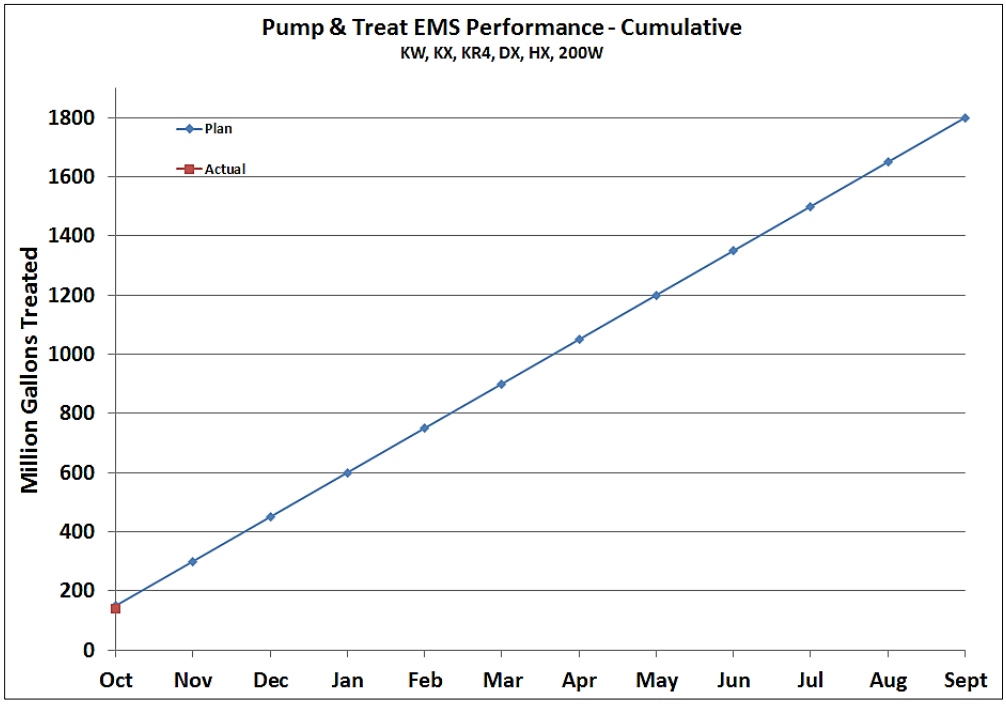
- Average pumping rate for October was 987 gpm.
- Effluent concentration remains below cleanup levels specified in Record of Decision (ROD).
- Transfer lines to injection wells have been increased in size to remove flow restrictions.
- On October 8, 2013, the plant shut down automatically at 10:30 PM due to high temperature in the online membrane bio-reactors (MBRs). The MBRs were restarted at 11:00 AM the following morning after completing maintenance cleans.
- Plant was shut down on October 11, 2013 at 8:45 AM due to a leak found in the micronutrient chemical feed system. Following repair work, the plant was restarted at 11:00 AM that same day.

200-DV-1 Operable Unit

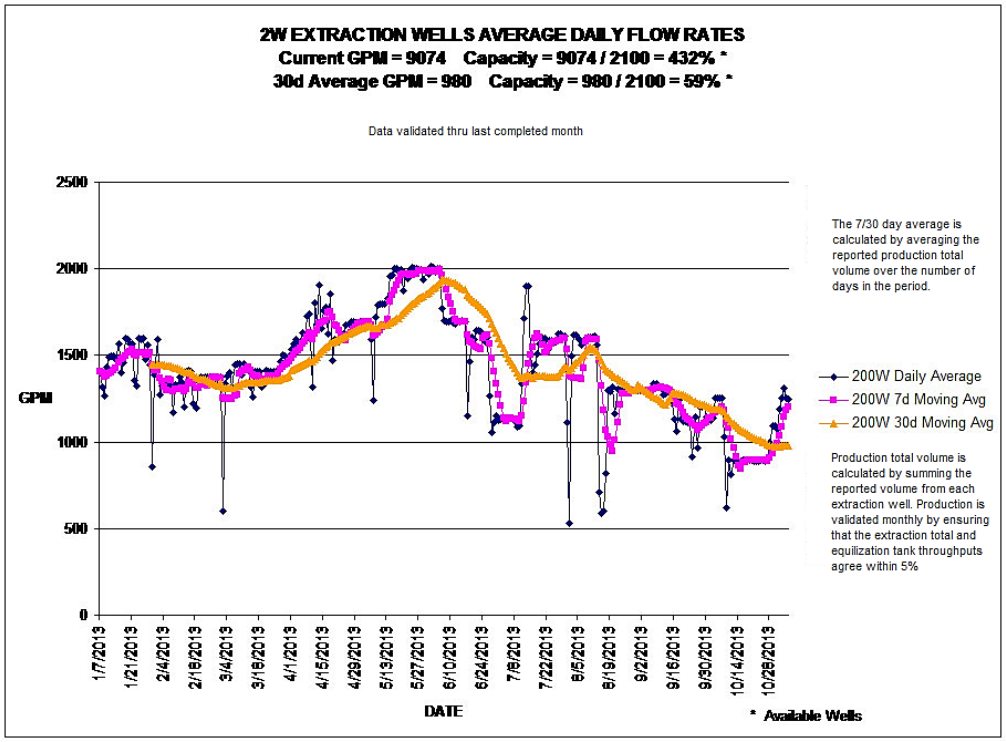
- The B Area perched water removal system continued operations since its start-up on August 30, 2011. The system removed 6,037 gallons during the month of October, bringing the total volume of perched water removed to 163,507 gallons since initiating operations.
- The perched water removal system removed the following quantities of contaminants for the month of October:

Contaminant	October	Cumulative (since startup)
Tc-99	8E-04 Ci	19.6E-03 Ci
Uranium	1.4 kilograms	26.1 kilograms
Nitrates	10.8 kilograms	340.7 kilograms

Pump and Treat Operations – FY2014



200 West Pump and Treat Operations



MAJOR ISSUES

Issue – The 100-K RI/FS and Proposed Plan documents are on hold pending 100-K East Reactor waste site characterization wells (116-KE-3 and UPR-100-K-1) and modeling (integrating with PBS 41). EPA has stipulated that these results are incorporated into the RI/FS prior to Rev. 0 signatures. These activities are not planned until FY2015 in PBS 41. The delay in completing the RI/FS impacts the Record of Decision (ROD) and remedy implementation.

Corrective Action – Complete 100-K East Reactor waste site characterization wells and modeling such that the RI/FS can be completed. Concurrent with these modifications, include the document modifications associated with the 118-K-1 technology change (leaving waste in place) and recent cultural investigation results (that is, update the RI/FS once).

Status –

- K-East Reactor waste site characterization wells (116-KE-3 and UPR-100-K-1): The recent FY2014 PMB update included these activities within FY2015 target funding. RL and CHPRC to resolve scope and schedule associated with 116-KE-3 and 116-KE-1 waste site characterization and resultant modeling activities such that activities are planned in the PMB.
- Cultural investigations: WCH has presented the Summary of Results for the 100-K-111 and 100-K-64 characterization (October, 2013) and is currently documenting the results. This documentation will provide the basis for future RI/FS modifications.

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-045: Regulator Comments Change Requirements	Routine meetings to remain current on influences from regulators, and provide technical justification for proposed path forward.	Yellow	⟷	Interactions with the State Department of Ecology continue to identify new technical issues that require management attention to resolve. White papers have been prepared and provided to RL on the following outstanding issues: (1) recharge rate and revegetation, (2) details on the calculation of EPCs in the vadose zone, (3) the use of alternative statistics (90th percentile) for groundwater EPC calculation, and (4) up gradient contamination levels in calculation of PRGs. Other issues, such as ecological PRGs and the use of the SMDP in ecological risk assessment, continue to be worked.
SGW-080: 100-BC-5 Pump and Treat Required	This risk is accepted as written and will be monitored throughout work execution. CHPRC will implement the final action under the ROD; however, the actions may require a Contract Modification.	Green	↑	Tri-Parties agree that additional groundwater monitoring for two years will be performed to determine the final remedy (expected to be MNA) is necessary. This is no longer a current risk. Reporting on this risk will be discontinued.
SGW-081: 100-FR-3 Pump and Treat Required	This risk is accepted as written and will be monitored throughout work execution. CHPRC will implement the final action under the ROD; however, the actions may require a Contract Modification.	Green	↑	The Draft Rev 0 RI/FS has been reviewed by the Regulators and there is agreement that the preferred remedy is Monitored Natural Attenuation. The Proposed Plan is expected to go out for public review in February 2014. This is no longer a current risk. Reporting on this risk will be discontinued.

Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
RL-030/WBS 030				
SGW-157: Transfer of EIS Tank Waste Model	CHPRC does not maintain or have contractual responsibility for the development of the Tank Waste EIS data system. CHPRC will work with DOE to transfer the EIS technology document complete with electronic appendices.			Received two requested Apple Macintosh computers. Testing underway and expected to be completed in November 2013.
SGW-158: Phase-I Tank Waste EIS Model Transition	CHPRC developed a two-phase test plan to enable the TC&WM EIS Model to be transferred from ORP/WRPS to RL/CHPRC to 1) be placed under configuration control and demonstrate that key EIS cases can be rerun and results are consistent, and 2) be revised and updated for additional uses in support of the Hanford Site mission. Additional analysis will be at the request of the Contracting Officer.			Received two requested Apple Macintosh computers. Testing underway and expected to be completed in November 2013.
SGW-017: Groundwater Flow Less Than Planned -200 West P&T	Installation of additional injection wells and extraction wells to achieve the targeted 2,000 gpm pumping rates have been impacted by the sequestration. Only 4 of 8 wells planned to be drilled in FY2013 have now been installed.			The extraction/injection well network that is currently on line has successfully provided sufficient flow rates to achieve an average pumping rate of >1,500 gpm for two 30 day periods to meet a draft FY2013 performance incentive. This risk is closed and reporting will be discontinued. A new risk, SGW-159, has been added to address the ability to maintain flow rates.
SGW-159: Ability to Maintain Flow Rates through Pump and Treat Units	Acquire technical specialist in bio-reactor operation at 200 West P&T to oversee the complexity associated with the water volume/flow and evaluate optimization and nutrient additions to the bed reactor. Installation of additional extraction or injection wells may be required to maintain required flow rates. Operate and maintain equipment within the Pump and Treat process to maintain maximum operational efficiency and minimize down-time.			A full time bio-reactor specialist is now working at 200 West P&T. The specialist is working on optimizing volume of feed material (carbon substrate) and vitamins to the fluidized bed reactor. Four additional injection wells are scheduled to be installed in FY2014 to ensure there is adequate capacity to allow several injection wells to be offline for cleaning while still maintaining 2,000 gpm pumping rates.
SGW-156,100K Groundwater Characterization	Additional K-East Reactor characterization wells are required to complete the 100-K RI/FS and Proposed Plan. Well installation may be prioritized across the Soil and Groundwater Project within the current funding authorization. Well installation prioritization will be a joint effort between CHRPC and DOE.			This risk is addressed in RL-41 Report, KBC-043, and reporting will be discontinued.
SGW-092: 200 West P&T Operating Requirements	Overtime is utilized to perform critical corrective and preventative maintenance. As operations and maintenance knowledge is learned, staffing levels may be adjusted to achieve optimum P&T operation.			As preventative maintenance packages proceed through the development process, staffing levels will be evaluated to ensure the P&T facility achieves continuous operation.
SGW-135: Major Equipment Failure at 200W Pump & Treat	Utilizing aggressive corrective maintenance program and ensuring staff are thoroughly trained on new equipment. Performing design modifications/procedure revisions to accommodate unexpected conditions. Continuing to work corrective maintenance issues as identified during acceptance testing.			Continuing to resolve outstanding issues associated with construction risks. OTP was completed in FY2013.
SGW-153: 200W P&T Contract Closeout Claims	Continue to negotiate with subcontractors to minimize the financial impact.			The significant procurement contracts have been negotiated and closed out. Reporting on this risk will be discontinued.

PROJECT BASELINE PERFORMANCE
Current Month
($M)

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 (%)
RL-0030.C1 GW Remedy Implement	0.0	0.0	0.0	0.0	0.0	(0.0)	0.0
RL-0030.O1 RL 30 (Operations)	7.6	7.1	6.1	(0.5)	-6.3	1.0	14.2
RL-0030.R1.1 Cleanup Operations	0.0	0.0	(0.0)	0.0	0.0	0.0	0.0
RL-0030.R1.2 Well Drilling Operations	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RL-0030.R1.3 Support Operations	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	**7.6**	**7.1**	**6.1**	**(0.5)**	**-6.3**	**1.0**	**14.6**

Numbers are rounded to the nearest $0.1M.

CM Schedule Performance (-$0.5M/-6.3%)

All current month schedule variances are within threshold.

CM Cost Performance (+$1.0M/14.6%)

Current month cost variances that exceed reporting thresholds are as follows:

RL-0030.O1 RL 30 Operations (+$1.0M/14.2%)

Drilling (+$0.3M)

Efficiencies are being obtained in100-BC-5 well drilling activities. Less labor is being required to support the multiple drilling rigs than previously planned. 200-BP-5 documentation required for drilling is also costing less than originally planned as negotiating the path forward for the continued use of the modular storage tanks has gone much quicker than planned, requiring less labor resources.

Contract-to-Date
($M)

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)
RL-0030.C1 GW Remedy Implement	73.4	73.4	87.0	(0.0)	-0.0	(13.7)	-18.6	73.4	87.0	(13.7)
RL-0030.O1 RL 30 (Operations)	571.6	569.8	553.4	(1.8)	-0.3	16.4	2.9	1,148.8	1,135.2	(13.6)
RL-0030.R1.1 Cleanup Operations	175.0	175.0	174.4	0.0	0.0	0.6	0.4	175.0	174.4	0.6
RL-0030.R1.2 Well Drilling Operations	40.7	40.7	38.4	0.0	0.0	2.4	5.8	40.7	38.4	2.4
RL-0030.R1.3 Support Operations	51.4	51.4	51.1	(0.0)	-0.0	0.3	0.5	51.4	51.1	0.3
Total	**912.1**	**910.3**	**904.3**	**(1.8)**	**-0.2**	**6.0**	**0.7**	**1,489.3**	**1,486.9**	**2.4**

Numbers are rounded to the nearest $0.1M.

CTD Schedule Performance (-$1.8M/-0.2%) – All CTD schedule variances are within reporting thresholds.

CTD Cost Performance (+$6.0M/+0.7%) – Cost performance is within reporting thresholds. Variances that exceed threshold are primarily the result of prior year activity that has been previously reported:

RL-0030.C1 GW Remedy Implement (-$13.7M/-18.6%)

200-ZP-1 Operable Unit (-$13.7M)

The variance is primarily due to 200 West Pump-and-Treat cost for the construction contractor's completed work scope as defined in change notifications as well as increased cost for the sludge stabilization system installation.

RL-0030.O1 RL 30 Operations (+$16.4M/+2.9%)

Integration and Assessments (+$6.7M)

The variance is primarily the result of less subcontractor support required for Central Plateau strategy development in prior years due to deferral of decision document activities as a result of funding reprioritization. This work has been rescheduled.

Drilling (-$2.6M)

The negative cost variance is primarily the result of radiological contamination encountered in prior year drilling activity on 100-NR-2 wells; which has been previously reported.

Project Management (+$3.8M)

CTD underruns are a result of efficiencies and savings that have been achieved in labor, contracts, and materials over the entire contract period.

Integrated Field Work (+$3.3M)

Efficiencies have been obtained by reducing subcontracts, reducing the number of cell phones, returning rentals, and loaning labor to other projects for better utilization of personnel.

100-KR-4 Operable Unit (+$3.5M)

The CTD favorable cost variance is due to performing operations LOE activities more efficiently than planned and not having to process Dowex 21k resin with the switch to SIR-700. As a result, savings are being realized in sampling, lab costs, shipping, and regeneration cost. Savings are also being achieved by loaning craft resources to other projects whenever possible and by overtime management.

100-NR-2 Operable Unit (+$2.7M)

The positive cost variance is primarily the result of savings achieved in prior years in completing barrier expansion sampling, chemical treatment, maintenance, jet grouting pilot test, and RI/FS work scope for less than planned.

200-PW-1 Operable Unit (+$2.6M)

The positive cost variance is primarily the result of efficiencies realized in general operations and other savings as a result of obtaining Regulator approval to not run Soil Vapor Extraction Units (SVEs) in FY2013.

Regulatory Decisions and Closure Integration (+$2.2M)

The positive cost variance is due to completing work scope more efficiently than planned, primarily in the areas of multi-incremental sampling, borehole drilling, landfill characterization and document preparation for 100-BC-1 validation and Data Quality Assessment (DQA) Reports.

Ramp-up and Transition (-$2.8M)

The cost variance is primarily the result of increased prior year Project Services Distribution.

RL-0030.R1.2 Well Drilling Operations (+$2.4M/+5.8%)

Drilling (+$2.4M)

The positive cost variance is primarily the result of savings achieved in 100-NR-2 and 200-BP-5 well drilling activities in a prior year.

RL-0030.R1.3 Support Operations (+$0.3M/+0.5%)
Regulatory Decisions and Closure Integration (+$1.7M)

The positive cost variance is primarily the result of efficiencies obtained in a prior year for multi-incremental sampling, borehole drilling, and landfill characterization work scope.

Estimate at Completion (EAC)

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

Contract Performance Report Formats are provided in Appendix A.

FUNDS vs. SPEND FORECAST ($M)

	FY2014		
RL-0030 Soil and Groundwater Remediation	Projected Funding	Spending Forecast	Spend Variance
RL-0030	106.9	108.7	(1.7)

Numbers are rounded to the nearest $0.1M.

Funds/Variance Analysis

FY2014 work authorization received from RL reflects revised projected funding from $391.6M to $374.5M. A reallocation of projected funding at $374.5M will be incorporated in next month's reporting. The Spending Forecast includes actions anticipated to achieve the reduced targets.

Critical Path Schedule

Critical path analysis can be provided upon request.

Baseline Change Requests

BCR-PRC-14-001R0 - *FY2014 Work Authorization.*

FY2014 Management Reserve (Funded): $0.75M

No Management Reserve was used during October.

MILESTONE STATUS

Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) milestones represent significant achievements in project execution. Enforceable Tri-Party Agreement milestones were established to provide high-level visibility to critical deliverables and specific status on the accomplishment of these key activities. The PMB Annual Update, implemented in September 2013, and subsequent approved BCRs define CHPRC planning with respect to Tri-Party Agreement milestones. The following table is a one year look ahead of Tri-Party Agreement enforceable milestones, non-enforceable target due dates and commitments.

Number	Title	Due Date	Actual Date	Forecast Date	Status/ Comment
M-015-77	Install additional aquifer tubes as specified in revised 100-BC-1, 2 and 5 RI/FS Work Plan/SAP	11/30/13		11/30/13	Concurrence has been obtained from both RL and EPA as to the completion of the Milestone. A Tri-Party Agreement Change Package has been prepared to identify the 18 tubes and is expected to be signed in November.
M-091-40L-040	PMM Submittal Jul-Sep 4th Qtr. FY2013 Burial Ground Sample Results	12/15/13		12/15/13	On Schedule
M-015-76	Install additional wells monitoring network as specified in revised 100-BC-1, 2 and 5 RI/FS Work Plan/SAP	2/28/14		2/28/14	On Schedule
M-015-112	Submit Draft B, 200-IS-1 Operable Unit Pipeline System Waste Sites RFI/CMS/RI/FS Work Plan to Ecology	2/28/14			13-AMRP-0136 notified Regulators of Sequestration impacts. BUG directed work be re-planned in FY2016. Milestone has been identified for re-planning during the upcoming agency discussions. Forecast date TBD.
M-015-113	Submit Draft B, 200-SW-2 Radioactive Landfills Group RFI/CMS/RI/FS Work Plan to Ecology	2/28/14			13-AMRP-0136 notified Regulators of Sequestration impacts. BUG directed work be re-planned in FY2016. Milestone has been identified for re-planning during the upcoming agency discussions. Forecast date TBD.
M-091-40L-041	PMM Submittal Oct-Dec 1st Qtr. FY2014 Burial Ground Sample Results	3/15/14		3/15/14	On Schedule

Number	Title	Due Date	Actual Date	Forecast Date	Status/ Comment
M-024-58G	Initiate Discussions of Well Commitments	6/1/14		6/1/14	On Schedule
M-091-40L-042	PMM Submittal Jan-Mar 2nd Qtr. FY2014 Burial Ground Sample Results	6/15/14		6/15/14	On Schedule
M-037-02	Submit Revised Closure Plans for Five Specified TSD Units	6/30/14			Milestone has been identified to be replanned as part of upcoming agency discussions.
M-024-65-T01	Conclude Discussions of Well Commitments	8/1/14		8/1/14	On Schedule
M-091-40L-043	PMM Submittal Apr-Jun 3rd Qtr. FY2014 Burial Ground Sample Results	9/15/14		9/15/14	On Schedule
M-015-38B	Submit Revised FS & PP for CW-1, -CW-3, & OA-1	10/30/14			Milestone has been identified to be replanned as part of upcoming agency discussions.

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)

CH2MHILL
Plateau Remediation Company

L. T. Blackford
Vice President and
Project Manager for
Decommissioning, Waste,
Fuels, and Remediation
Services (DWF&RS)

October 2013
CHPRC-2013-10, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

The inactive Central Plateau facilities and Radiation Areas Remedial Action (RARA) sites continue to be compliantly maintained in a low-cost surveillance and maintenance condition. The project performed Waste Information Data System (WIDS) waste site housekeeping (weed spraying), conducted 72 radiological facility surveillances, and completed 27 preventive maintenance (PM) activities. Developed plans to maintain facilities in the event of a Government shutdown.

EMS Objectives and Target Status

Objective #	Objective	Target	Due Date	Status
14-EMS-DWF&RS-OB1-T1	Reduce the risk of noncompliance with environmental requirements.	Develop 6 compliance matrices for DWF&RS Permits or CERCLA Work Plans.	09/30/14	On Schedule

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	1	N/A
Near-Misses	0	0	N/A

KEY ACCOMPLISHMENTS

- Performed Waste Information Data Systems (WIDS) waste site housekeeping (weed spraying).
- Conducted 200 West/East tri-annual surveillances and quarterly treatment, storage, and disposal (TSD) sites waste surveillances.
- Commenced Reduction-Oxidation S Plant (REDOX) surveillance.
- Completed:
  - 72 radiological facility surveillances
  - 27 preventive maintenance (PM) activities

MAJOR ISSUES

None at this time.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
RL-0040				
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.
D4-062: 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.			Continuing to address areas with asbestos concerns.
D4-064: Aging Building Systems/Components	The facilities have been placed in Surveillance and Maintenance mode. Perform as-scheduled maintenance activities. Perform appropriate regulatory agency and DOE notifications for system failures or prolonged outage. Continually evaluate system maintenance frequencies.			Continued with scheduled facility activities. Continuing to address PUREX Tank 11 integrity evaluation and planning.
D4-067: Increased Asbestos Abatement	Minimal pre-mitigation is possible. Conduct asbestos abatement to maintain a safe and complaint work site.			Continuing to address PUREX Tank 11 asbestos evaluation and planning.

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 (%)
Total	0.7	0.7	0.7	-0.0	-0.5%	0.1	10.8%

Numbers are rounded to the nearest $0.1M

CM Schedule Performance: (-$0.0M/-0.5%)
Variance is within threshold.

CM Cost Performance: (+$0.1M/+10.8%)
Variance is within threshold.

Contract-To-Date
($M)

WBS 040/ RL-0040 Nuclear Facility D&D	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance ($)	Schedule Variance (%)	Cost Variance ($)	Cost Variance (%)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)
Total	377.0	377.0	347.7	(0.0)	-0.0%	29.2	7.8%	484.1	453.5	30.5

Numbers are rounded to the nearest $0.1M

CTD Schedule Performance: (-$0.0M/-0.0%)
Variance is within threshold.

CTD Cost Performance: (+$29.2M/+7.8%)
The favorable cost variance is due to prior year activity that has been previously reported including:

- ARRA-funded work scope included efficiencies with Program Management ($2.6M), Cold and Dark and Characterization/Waste Identification Form teams ($4.0M), lower than planned capital equipment costs ($3.0M) and efficiencies with Arid Lands Ecology (ALE) ($3.7M), North Slope Facilities ($1.2M), disposition of railcars D&D ($2.1M), and Industrial 7 Project ($3.6M); this is offset by increased material and equipment costs, unexpected asbestos levels, and schedule delays in other ARRA D4 Projects ($-15.3M). Efficiencies in Outer Area Waste Sites ($6.7M) are primarily due to Remove, Treat, and Dispose (RTD) O-Zone Waste Sites, ERDF passback which includes the operational efficiencies associated with use of the super dump truck. In addition, under runs in overhead allocation and Usage Based Services ($7.3M) contributed to the favorable cost variance.
- The remaining CTD favorable cost variance in base-funded work is due to efficiencies for waste site remediation and D4 activities as a result of utilization of existing site equipment and less resources ($1.4M), S&M costs less than expected ($3.5M), U Plant completion of the sampling of Cell 30 with less resources than planned ($1.1M), Program Management utilizing less resources ($2.9M) and under run in overhead allocations ($1.4M).

Estimate at Completion (EAC)
The BAC and EAC include FY2009 through FY2018.

Contract Performance Report Formats are provided in Appendix A.

FUNDS vs. SPEND FORECAST ($M)

	FY2014		
WBS 040/RL-0040 Nuclear Facility D&D	Projected Funding	Spending Forecast	Spend Variance
RL-0040	11.1	10.8	0.3

Numbers are rounded to the nearest $0.1M.

Funds/Variance Analysis
FY2014 work authorization received from RL reflects revised projected funding from $391.6M to $374.5M. A reallocation of projected funding at $374.5M will be incorporated in next month's reporting. The Spending Forecast includes actions anticipated to achieve the reduced targets.

Critical Path Schedule
Critical path analysis can be provided upon request.

Baseline Change Requests
None currently identified.

MILESTONE STATUS

None currently identified.

SELF-PERFORMED WORK

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

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.

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

CH2MHILL
Plateau Remediation Company

L. T. Blackford
Vice President and
Project Manager for
Decommissioning, Waste,
Fuels, and Remediation
Services (DWF&RS)

October 2013
CHPRC-2013-10, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

Completed revisions to the 105KE Facility Hazard Categorization document and transmitted to RL for comments. Completed disposition of legacy waste.

EMS OBJECTIVES AND TARGET STATUS

Objective #	Objective	Target	Due Date	Status
14-EMS-DWF&RS-OB1-T1	Reduce the risk of noncompliance with environmental requirements.	Develop 6 compliance matrices for DWF&RS Permits or CERCLA Work Plans.	09/30/14	On Schedule

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

- Completed revisions to the 105KE Facility Hazard Categorization (FHC) document transmitted to RL for comments.
  - Project Review Council (PRC) meeting was held with the review of the Documented Safety Analysis (DSA) for downgrading to a Final Hazard Categorization (FHC).
  - Downgrading was approved and a walkthrough of the FHC area was completed.
  - Final report in progress.

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-0041				
KBC-043: Waste Site Remediation Completion Requirements	Existing characterization data indicates the likelihood of this risk occurring is low; risk accepted without mitigation.	Working - Concern	No Change	CHPRC evaluated installing 2 high-risk monitoring wells to monitor the sites. This work is scheduled in FY2015. Reporting on this risk will be discontinued until 2015.
WSR-047: Unforeseen Waste Site Event	Perform routine surveillances and maintenance of waste sites including herbicide application.	Working - No Concerns	No Change	No concerns.
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.	Working - Concern	No Change	Continuing to address areas with asbestos concerns.

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 (%)
Total	0.6	0.6	0.1	0.0	0.0%	0.4	76.7%

Numbers are rounded to the nearest $0.1M

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

The variance is within reporting threshold.

CM Cost Performance (+$0.4M/+76.7%)

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)
Total	302.2	302.2	280.1	0.0	0.0%	22.1	7.3%	390.5	367.5	23.0

Numbers are rounded to the nearest $0.1M

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

The schedule variance is within threshold.

CTD Cost Performance (+$22.1M/+7.3%)

The positive CTD cost variance is primarily the result of prior year activity that has been previously reported and CSNA sites that were completed early and under costs. In addition, less demolition was required for the KE Sedimentation Basin as well as underruns in G&A and Direct Distributables. This is partially offset by the cost overruns in prior years for the Utilities Project.

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)

	FY2014		
WBS 041/RL-0041 Nuclear Facility D&D – River Corridor	Projected Funding	Spending Forecast	Spend Variance
RL-0041	5.4	6.5	(1.1)

Numbers are rounded to the nearest $0.1M.

Funds/Variance Analysis:

FY2014 work authorization received from RL reflects revised projected funding from $391.6M to $374.5M. A reallocation of projected funding at $374.5M will be incorporated in next month's reporting. The Spending Forecast includes actions anticipated to achieve the reduced targets.

Critical Path Schedule

Critical Path Analysis can be provided upon request.

Baseline Change Requests

None currently identified.

MILESTONE STATUS

None currently identified.

SELF-PERFORMED WORK

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

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.

Section G
Fast Flux Test Facility Closure
(RL-0042)

CH2MHILL
Plateau Remediation Company

L. T. Blackford
Vice President and
Project Manager for
Decommissioning, Waste,
Fuels, and Remediation
Services (DWF&RS)

October 2013
CHPRC-2013-10, 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.

EMS OBJECTIVES AND TARGET STATUS

None currently identified.

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

- Completed:
  - Four PM activities/operational surveillances
  - Four radiological surveillances
  - Revision to engineering report for the 400 Areas onsite sewer system
    - Transmitted an advanced copy of the engineering report to Washington Department of Health (WDOH).

MAJOR ISSUES

Issue – The out board sleeve bearing for the P-28 fire pump has seized and is not turning with the shaft resulting in a 400 Area Fire System impairment.
Corrective Action – Remove the pump, rebuild/replace the bearing at the shop, and then reinstall the pump. Field work is expected to take approximately four days.
Status – Repairs are in progress.

Issue – Due to the configuration of the storage location, biological hazards are an issue at the 440 pad (which stores universal waste and a variety of chemicals).
Corrective Action – Relocate material to a suitable covered location.
Status – Currently evaluating alternate storage locations at FFTF.

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-0042				
FFTF-012: Major Equipment or Structural Failure	FFTF suffers a major equipment failure or structural deterioration while in the Surveillance and Maintenance mode.			Continuing corrective maintenance activities. No unplanned events encountered.
FFTF-014: Disposition of FFTF Waste Water	Work with DOE and regulatory agencies for design and operational requirements. Place requirements into sub-contracted statement of work for new sewer system. Incorporate on-going maintenance and interface items into out –year planning documents with CHPRC and MSA (as appropriate).			BCR implemented placing work within PMB. Work is progressing. Evaluating alternative sewer capability to ensure that discharge can be eliminated by 12/31/13.

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 (%)
Total	0.2	0.2	0.1	0.0	10.1%	0.2	72.5%

Numbers are rounded to the nearest $0.1M

CM Schedule Performance: (+$0.0M/+10.1%)
The current period schedule variance is within thresholds.

CM Cost Performance: (+$0.2M/+72.5%)
The current period cost variance is within threshold.

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)
Total	16.1	16.1	13.6	0.0	0.1%	2.6	15.9%	26.5	24.6	1.9
Numbers are rounded to the nearest $0.1M										

CTD Schedule Performance (+$0.0M/+0.1%)
The schedule variance is within reporting thresholds.

CTD Cost Performance (+$2.6M/+15.9%)
The favorable CTD cost variance reflects efficient use of resources to support deactivation activities.

Estimate at Completion (EAC)
The BAC and EAC include FY2009 through FY2018, the PRC contract period.

The change in EAC from September to October is within reporting thresholds.

Contract Performance Report Formats are provided in Appendix A.

FUNDS VS. SPEND FORECAST ($M)

	FY2014		
RL-0042 FFTF Closure	Projected Funding	Spending Forecast	Spend Variance
RL-0042	2.3	2.2	0.1
Numbers are rounded to the nearest $0.1M			

Funds Analysis:
FY2014 work authorization received from RL reflects revised projected funding from $391.6M to $374.5M. A reallocation of projected funding at $374.5M will be incorporated in next month's reporting. The Spending Forecast includes actions anticipated to achieve the reduced targets.

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
BCR-42-13-002R0 – *RL-42 400 Area Sanitary Sewer*

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

CH2MHILL
Plateau Remediation Company

October 2013
CHPRC-2013-10, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

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

CLASSIFICATION (When Filled In)

CONTRACT PERFORMANCE REPORT
FORMAT 1 - WORK BREAKDOWN STRUCTURE

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) 2013 / 10 / 01
b. LOCATION (Address and ZIP Code) Richland, WA	b. NUMBER RL14788		b. PHASE	b. TO (YYYYMMDD) 2013 / 10 / 27
	c. TYPE CPAF	d. SHARE RATIO	c. EVMS ACCEPTANCE NO YES X 9/18/2009	

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
	5,451,637	12,180	227,692	5,679,330	5,552,338	5,679,330	5,552,338	

6. ESTIMATED COST AT COMPLETION

	MANAGEMENT ESTIMATE AT COMPLETION (1)	CONTRACT BUDGET BASE (2)	VARIANCE (3)
a. BEST CASE	5,250,123		
b. WORST CASE	5,413,082		
c. MOST LIKELY	5,324,646	5,463,817	139,172

7. AUTHORIZED CONTRACTOR REPRESENTATIVE

a. NAME (Last, First, Middle Initial)	b. TITLE	c. SIGNATURE	d. DATE SIGNED
Bang, M.V.	Prime Contract Manager		10/27/2013

8. PERFORMANCE DATA

WBS[1]	CURRENT PERIOD					CUMULATIVE TO DATE					REPROGRAMMING ADJUSTMENTS			AT COMPLETION		
	BUDGETED COST		ACTUAL COST	VARIANCE		BUDGETED COST		ACTUAL COST	VARIANCE							
ITEM (1)	WORK SCHEDULED (2)	WORK PERFORMED (3)	WORK PERFORMED (4)	SCHEDULE (5)	COST (6)	WORK SCHEDULED (7)	WORK PERFORMED (8)	WORK PERFORMED (9)	SCHEDULE (10)	COST (11)	COST VARIANCE (12a)	SCHEDULE VARIANCE (12b)	BUDGET (13)	BUDGETED (14)	ESTIMATED (15)	VARIANCE (16)
011 RL-11 NM Stabilization and Disposition PFP	7,843	5,201	6,561	(2,642)	(1,361)	629,306	619,136	648,433	(10,169)	(29,297)	0	0	0	934,876	962,253	(27,377)
012 RL-12 SNF Stabilization and Disposition	4,534	4,424	4,014	(110)	411	386,853	386,732	394,511	(121)	(7,779)	0	0	0	688,378	698,424	(10,046)
013 RL-13 Solid Waste Stabilization & Disposition	7,268	6,302	5,577	(966)	725	796,614	795,793	777,243	(822)	18,549	0	0	0	1,324,990	1,256,940	68,049
030 RL-30 Soil & Wtr Remediatn Grndwtr/Vadose Zone	7,567	7,093	6,059	(474)	1,034	912,098	910,320	904,348	(1,778)	5,972	0	0	0	1,489,346	1,486,925	2,421
040 RL-40 Nuclear Facility D&D Remainder of Hanford	739	736	656	(4)	79	376,962	376,957	347,711	(6)	29,246	0	0	0	484,052	453,506	30,546
041 RL-41 Nuclear Facility D&D - River Corridor	563	563	131	0	432	302,246	302,246	280,107	0	22,140	0	0	0	390,453	367,482	22,970
042 RL-42 FFTF Closure	204	224	62	21	163	16,116	16,136	13,574	21	2,562	0	0	0	26,464	24,592	1,872
b. Cost of Money	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
c. Gen. and Admin.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
d. Undist. Budget																
e. Sub Total	28,719	24,544	23,060	(4,175)	1,484	3,420,195	3,407,320	3,365,928	(12,875)	41,393	0	0	0	5,338,559	5,250,123	88,436
f. Management Reserve														74,523		
g. Total	28,719	24,544	23,060	(4,175)	1,484	3,420,195	3,407,320	3,365,928	(12,875)	41,393	0	0	0	5,413,082		
9. Reconciliation to CBB																
a. Variance Adjustment																
b. Total Contract Variance									(12,875)	41,393				5,413,082	5,250,123	162,959

FORMAT 2, DD FORM 2734/2, ORGANIZATIONAL CATEGORIES

CLASSIFICATION (When Filled In)

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) 2013 / 10 / 01
b. LOCATION (Address and ZIP Code) Richland, WA	b. NUMBER RL14788		b. PHASE	b. TO (YYYYMMDD) 2013 / 10 / 27
	c. TYPE CPAF	d. SHARE RATIO	c. EVMS ACCEPTANCE NO YES X 9/18/2009	

5. PERFORMANCE DATA

FOC / ITEM (1)	CURRENT PERIOD BUDGETED COST WORK SCHEDULED (2)	CURRENT PERIOD BUDGETED COST WORK PERFORMED (3)	CURRENT PERIOD ACTUAL COST WORK PERFORMED (4)	CURRENT PERIOD VARIANCE SCHEDULE (5)	CURRENT PERIOD VARIANCE COST (6)	CUMULATIVE TO DATE BUDGETED COST WORK SCHEDULED (7)	CUMULATIVE TO DATE BUDGETED COST WORK PERFORMED (8)	CUMULATIVE TO DATE ACTUAL COST WORK PERFORMED (9)	CUMULATIVE TO DATE VARIANCE SCHEDULE (10)	CUMULATIVE TO DATE VARIANCE COST (11)	REPROGRAMMING ADJUSTMENTS COST VARIANCE (12a)	REPROGRAMMING ADJUSTMENTS SCHEDULE VARIANCE (12b)	REPROGRAMMING ADJUSTMENTS BUDGET (13)	AT COMPLETION BUDGETED (14)	AT COMPLETION ESTIMATED (15)	AT COMPLETION VARIANCE (16)
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 - Envr Prog & Strategic Planning	421	421	441	0	(20)	42,609	42,609	39,064	0	3,545	0	0	0	82,660	78,834	3,826
	421	**421**	**441**	**0**	**(20)**	**42,609**	**42,609**	**39,064**	**0**	**3,545**	**0**	**0**	**0**	**82,660**	**78,834**	**3,826**
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	0	0	0	23,047	23,047	23,520	0	(473)	0	0	0	23,047	23,520	(473)
	0	**0**	**0**	**0**	**0**	**44,816**	**44,816**	**45,288**	**0**	**(473)**	**0**	**0**	**0**	**44,816**	**45,288**	**(473)**
37 - Company Level Initiatives																
011.7W - PRC WFR	0	0	0	0	0	2,206	2,206	1,937	0	270	0	0	0	2,206	4,182	(1,976)
012.7W - PRC WFR	0	0	0	0	0	1,488	1,488	1,084	0	404	0	0	0	1,488	2,083	(595)
013.7W - PRC WFR	0	0	0	0	0	1,947	1,947	1,650	0	296	0	0	0	1,946	3,188	(1,242)
030.7W - PRC WFR	0	0	0	0	0	1,895	1,895	1,280	0	614	0	0	0	1,895	3,057	(1,162)
040.7W - PRC WFR	0	0	0	0	0	253	253	206	0	47	0	0	0	253	410	(157)
041.7W - PRC WFR	0	0	0	0	0	358	358	228	0	131	0	0	0	358	316	42
042.7W - PRC WFR	0	0	0	0	0	37	37	27	0	10	0	0	0	37	72	(35)
	0	**0**	**0**	**0**	**0**	**8,184**	**8,184**	**6,412**	**0**	**1,772**	**0**	**0**	**0**	**8,183**	**13,308**	**(5,125)**
38 - Project Technical Services																
030.3 - EPC - Groundwater	0	0	(38)	0	38	273,050	273,050	292,945	0	(19,895)				273,050	292,945	(19,895)
	0	**0**	**(38)**	**0**	**38**	**273,050**	**273,050**	**292,945**	**0**	**(19,895)**	**0**	**0**	**0**	**273,050**	**292,945**	**(19,895)**
3B - PFP Closure, BOS & Infrastructure																
011.1 - Plutonium Finishing Plant	7,843	5,201	6,561	(2,642)	(1,361)	544,059	533,890	570,309	(10,169)	(36,420)	0	0	0	849,629	881,883	(32,254)
	7,843	**5,201**	**6,561**	**(2,642)**	**(1,361)**	**544,059**	**533,890**	**570,309**	**(10,169)**	**(36,420)**	**0**	**0**	**0**	**849,629**	**881,883**	**(32,254)**
3C - W&FMP/D&D Project																
012.1 - 100 K Area Project	1,576	1,576	1,684	0	(108)	147,065	147,065	142,718	0	4,347	0	0	0	263,256	259,651	3,606
012.2 - Sludge Treatment Project	2,958	2,849	2,330	(110)	519	185,879	185,758	198,472	(121)	(12,715)	0	0	0	371,213	384,455	(13,242)
013.1 - Waste Management	7,268	6,302	5,577	(966)	725	689,746	688,925	669,821	(822)	19,104	0	0	0	1,218,122	1,147,980	70,142
040.1 - PRC D&D	0	0	5	0	(5)	191,578	191,578	187,849	0	3,730	0	0	0	225,336	222,741	2,595
040.2 - D&D Fac Waste Site Remediation	0	0	0	0	0	67,594	67,594	60,123	0	7,471	0	0	0	90,851	83,381	7,471
041.1 - River Zone	563	563	131	0	432	249,354	249,354	236,606	0	12,748	0	0	0	337,560	323,893	13,666
042.1 - FFTF	204	225	62	21	163	14,475	14,495	12,033	21	2,463	0	0	0	24,823	23,006	1,818
040.3 - PRC Fac & Waste Site Maint	739	736	652	(4)	84	46,270	46,265	41,349	(6)	4,916	0	0	0	96,345	88,790	7,555
	13,309	**12,250**	**10,440**	**(1,059)**	**1,810**	**1,591,960**	**1,591,032**	**1,548,970**	**(928)**	**42,062**	**0**	**0**	**0**	**2,627,505**	**2,533,895**	**93,610**
3D - Soil & Groundwater Remediation																
030.1 - Soil & GW Remediation	7,146	6,672	5,656	(474)	1,016	498,624	496,846	467,912	(1,778)	28,934	0	0	0	1,035,822	1,008,943	26,879
	7,146	**6,672**	**5,656**	**(474)**	**1,016**	**498,624**	**496,846**	**467,912**	**(1,778)**	**28,934**	**0**	**0**	**0**	**1,035,822**	**1,008,943**	**26,879**
b. Cost of Money	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
c. Gen. and Admin.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
d. Undist. Budget																
e. Sub Total	**28,719**	**24,544**	**23,060**	**(4,175)**	**1,484**	**3,420,195**	**3,407,320**	**3,365,928**	**(12,875)**	**41,393**	**0**	**0**	**0**	**5,338,557**	**5,250,123**	**88,436**
f. Management Resrv.														74,523		
g. Total	**28,719**	**24,544**	**23,060**	**(4,175)**	**1,484**	**3,420,195**	**3,407,320**	**3,365,928**	**(12,875)**	**41,393**	**0**	**0**	**0**	**5,413,080**		

FORMAT 3, DD FORM 2734/3, BASELINE

CONTRACT PERFORMANCE REPORT FORMAT 3 - BASELINE		DOLLARS IN THOUSANDS	Form Approved OMB No. 0704-0188
1. CONTRACTOR CH2M HILL Plateau Remediation Company b. LOCATION: Richland, WA	2. CONTRACT a. NAME: Plateau Remediation Contract b. NUMBER: RL14788 c. TYPE: CPAF d. SHARE RATIO:	3. PROGRAM a. NAME: Plateau Remediation Contract b. PHASE c. EVMS ACCEPTANCE NO YES X 9/18/2009	4. REPORT PERIOD a. FROM: 2013/10/01 b. TO: 2013/10/27

5. CONTRACT DATA

a. ORIGINAL NEGOTIATED COST	b. NEGOTIATED CONTRACT CHANGE	c. CURRENT NEGOTIATED COST (A + B)	d. ESTIMATED COST AUTH UNPRICED WORK	e. CONTRACT BUDGET BASE (C + D)	f. TOTAL ALLOCATED BUDGET	g. DIFFERENCE (E - F)
4,312,366	$1,139,271	$5,451,637	$12,180	$5,463,817	$5,413,082	$50,735

h. CONTRACT START DATE	i. DEFINITIZATION DATE	j. PLANNED COMPL DATE	k. CONT COMPLETION DATE	l. EST COMPLETION DATE
6/19/2008	6/19/2008	9/30/2018	9/30/2018	9/30/2018

6. PERFORMANCE DATA

BUDGETED COST FOR WORK SCHEDULED (NON - CUMULATIVE)

ITEM	BCWS CUM TO DATE	BCWS FOR REPORT PERIOD	SIX MONTH FORECAST +1 Nov-13	+2 Dec-13	+3 Jan-14	+4 Feb-14	+5 Mar-14	+6 Apr-14	FY09	FY10	FY11	FY12	FY13	FY14	FY15-18	UNDISTRIB BUDGET	TOTAL BUDGET
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
a. PM BASELINE																	
(BEGIN OF PERIOD)	**3,391,477**	**(18,888)**	**28,914**	**25,399**	**32,505**	**28,170**	**29,878**	**29,095**	**653,426**	**960,017**	**1,002,105**	**428,688**	**347,240**	**376,913**	**1,560,177**	**0**	**5,328,567**
b. BASELINE CHANGES AUTH DURING REPORT PERIOD																	
BCR-013-14-001R0 - EPA Consent Agreement and Final Order (CAFO)														**353**			**353**
BCR-042-13-002R0 - RL-42 400 Area Sanitary Sewer														**267**	**17**		**284**
BCR-PRC-14-001R0 - FY2014 Work Authorization														**9,354**			**9,354**
c. PM BASELINE (END OF PERIOD)	**3,420,195**	**28,719**	**29,369**	**25,966**	**33,325**	**28,857**	**30,697**	**29,767**	**653,426**	**960,017**	**1,002,105**	**428,688**	**347,240**	**386,888**	**1,560,194**	**0**	**5,338,559**
7. MANAGEMENT RESERVE																	**74,523**
8. TOTAL																	**5,413,082**

Block 5.g "Difference" is attributable to net delta of NTEs, G&A Allocations, B4 Table adjustments, and BCRs processed.

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) 2013 / 10 / 01
b. LOCATION (Address and ZIP Code) Richland, WA	b. NUMBER RL14788		b. PHASE	b. TO (YYYYMMDD) 2013 / 10 / 27
	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 ITEM (1)	ACTUAL CURRENT PERIOD (2)	ACTUAL END OF CURRENT PERIOD (Cumulative) (3)	FORECAST (Non-Cumulative) SIX MONTH FORECAST +1 Nov (4)	+2 Dec (5)	+3 Jan (6)	+4 Feb (7)	+5 Mar (8)	+6 Apr (9)	SPECIFIED PERIODS REM FY14 (12)	FY15-18 (13)	AT COMPLETION (15)
30B - WBS 98 PSD Distribution											
011.A1 - Project Specific Distributables	0	1	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
030.A1 - Project Specific Distributables	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	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**
31 - Communications & Outreach											
000.1 - Communications & Outreach	7	622	7	7	7	7	7	7	35	336	1,035
	7	**622**	**7**	**7**	**7**	**7**	**7**	**7**	**35**	**336**	**1,035**
32 - Safety, Health, Security & Quality											
000.2 - Safety, Health, Security, & Quality	47	4,593	54	53	53	53	53	53	267	2,709	7,888
	47	**4,593**	**54**	**53**	**53**	**53**	**53**	**53**	**267**	**2,709**	**7,888**
34 - Environmental Prog & Strategic Planning											
000.4 - Environmental Prog & Strategic Planning	18	1,236	18	18	20	20	20	20	98	983	2,433
030.2 - Envr Prog & Strategic Planning	13	1,654	20	20	20	20	20	20	99	1,354	3,227
	31	**2,890**	**38**	**38**	**40**	**40**	**40**	**40**	**197**	**2,337**	**5,660**
35 - Business Services											
000.6A - Expense PSD	0	1,302	0	0	0	0	0	0	0	0	1,302
000.8 - Chief Financial Officer	67	4,673	64	64	64	65	65	65	321	3,219	8,600
011.9T - Ramp Up/Transition - Training	0	15	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	1
013.9T - Ramp Up/Transition - Training	0	11	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	272
030.9T - Ramp Up/Transition - Training	0	7	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	2
040.9T - Ramp Up/Transition - Training	0	18	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	1
041.9T - Ramp Up/Transition - Training	0	13	0	0	0	0	0	0	0	0	13
	67	**6,314**	**64**	**64**	**64**	**65**	**65**	**65**	**321**	**3,219**	**10,242**
36 - Prime Contract & Project Integration											
000.7 - Contract and Baseline Management	35	2,324	41	40	41	40	40	40	200	1,968	4,734
000.9 - Chief Information Officer	10	740	9	9	9	9	9	9	45	432	1,271
	45	**3,064**	**50**	**49**	**50**	**49**	**49**	**49**	**245**	**2,400**	**6,005**
38 - Project Technical Services											
000.F - Eng/Procurement & Construction	17	1,404	17	17	17	17	17	17	83	830	2,419
000.T - Proj Tech Svcs	15	1,666	15	15	15	15	15	15	73	696	2,525
030.3 - EPC - Groundwater	0	3,635	0	0	0	0	0	0	0	0	3,635
	32	**6,705**	**32**	**32**	**32**	**32**	**32**	**32**	**156**	**1,526**	**8,578**
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**
3B - PFP Closure											
011.1 - Plutonium Finishing Plant	302	32,233	385	393	403	401	398	411	2,138	9,050	45,812
	302	**32,233**	**385**	**393**	**403**	**401**	**398**	**411**	**2,138**	**9,050**	**45,811**
3C - W&FMP/D&D Project											
012.1 - 100 K Area Project	84	7,741	94	93	93	93	93	93	464	4,339	13,103
012.2 - Sludge Treatment Project	82	6,832	70	69	69	69	69	69	346	4,665	12,258
013.1 - Waste Management	249	34,870	283	283	271	270	271	265	1,321	15,047	52,881
040.1 - PRC D&D	0	7,533	0	16	11	13	12	0	0	1,211	8,796
040.2 - D&D Fac Waste Site Remediation	0	1,341	0	0	0	0	0	0	0	495	1,836
040.3 - PRC Fac & Waste Site Maint	31	2,549	34	34	34	35	45	43	176	1709	4,659
041.1 - River Zone	5	6,994	14	14	14	14	19	19	125	2695	9,908
042.1 - FFTF	4	653	10	10	10	8	8	8	39	376	1,122
	455	**68,513**	**505**	**519**	**502**	**502**	**517**	**497**	**2,471**	**30,537**	**104,562**
3D - Soil & Groundwater Remediation											
030.1 - Soil & GW Remediation	225	18,724	262	256	259	271	266	260	1,437	13,356	35,091
	225	**18,724**	**262**	**256**	**259**	**271**	**266**	**260**	**1,437**	**13,356**	**35,090**
Grand Totals:	**1,210**	**143,661**	**1,396**	**1,411**	**1,411**	**1,418**	**1,426**	**1,412**	**7,266**	**65,472**	**224,872**

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)** **2013/10/01**
b. LOCATION (Address and ZIP Code) Richland, WA 99354	**b. NUMBER** DE-AC06-08RL14788		**b. PHASE** Base	**b. TO (YYYY/MM/DD)** **2013/10/27**
	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:	28,719	24,544	23,060	(4,175)	-14.5%	1,484	6.0%	0.85	1.06
Cumulative:	3,420,195	3,407,320	3,365,928	(12,875)	-0.4%	41,393	1.2%	1.00	1.01
	BAC	EAC	VAC in $	VAC in %	CPI to BAC	CPI to EAC			
At Complete:	5,338,559	5,250,123	88,436	1.7%	0.98	1.02			

Explanation of Variance/Description of Problem:

Current Period Schedule Variance: The Current Month unfavorable Schedule Variance (-$4.2M) is largely due to RL-0011 PFP Closure Project process vacuum and transfer line removal efforts deferred due to field work teams reassigned to high-hazard work scope and the continued PRF canyon crane failure, and initiating layup activities in preparation of going to a MinSafe condition in anticipation of the FY2014 budget and debt-ceiling impasse. The fallout from ongoing HAMTC negotiations continued to impact completion of work scope due to the inability to achieve increased time on respirators. The RL-0013 negative variance is due to delay in the return of repackaged TRU waste from commercial repackaging facility.

Current Period Cost Variance: The Current Month favorable Cost Variance (+$1.5M) is primarily due to RL-0011 continuation of completion of FY2012 carryover work scope on the RMA/RMC gloveboxes and PRF crane repairs and initiating layup activities in preparation of going to a MinSafe condition in anticipation of the FY2014 budget and debt-ceiling impasse. The RL-0013 positive variance is due to continued implementation of efficiencies. Also contributing to the variance is efficiencies and savings achieved in various WBSs, including the BC-5 and BP-5 drilling campaigns.

Cumulative Schedule Variance: The Cumulative unfavorable Schedule Variance (-$12.9M) is within reporting thresholds.

Cumulative Cost Variance: The Cumulative Cost Variance (+$41.4M) is within reporting thresholds and consists of favorable and unfavorable cost variances in direct projects (+$19.5M) and prior year G&A/DD/PSD distribution variances (+$21.9M).

Impact:

Current Period Schedule: For RL-0012, procurements are being prioritized to recover schedule variance and minimize impacts to overall schedule.

Current Period Cost: No significant impacts by PBS have been identified.

CTD Schedule: For PBS RL-0011, KPP - Given the schedule impacts to date and the remaining time to recover, plus sequestration impacts, the baseline completion date has slipped to November 6, 2014. Mandated sequestration reductions in FY2013, funding, and impacts to the assigned number of PFP D&D field work teams has hindered the project's ability to complete the KPP glovebox work scope by May 2014. Critical Path consists of cutting and size reducing the PRF Pencil Tanks, then decontaminating and fixing the PRF Canyon. Once ventilation is no longer needed to the PRF Canyon, the next step is removing the final E4 filters and performing 291-Z isolation activities. In order to shorten the critical path, the majority of final filter removal will be done prior to ventilation being powered down. Once ventilation is off and the final two filter banks are removed, demolition preparation and demolition of the 291-Z stack commence and lead to the final TPA Milestone – M-083-00A, *PFP Facility Transition and Selection Disposition Activities*. No other significant impacts have been identified.

CTD Cost: No significant impacts have been identified. In RL-0013, RL-0040, RL-0041, and RL-0042, underruns are forecast based on efficiencies.

Corrective Action:

Current Period Schedule: For PBS RL-11, see CTD Schedule. For RL-0030, Well drilling requirements are being evaluated and prioritized for future drilling campaigns as funds become available. No other corrective actions are required.

Current Period Cost: No corrective actions are required.

CTD Schedule: PBS RL-11, the following corrective actions are in place. Implementation of the new HAMTC collective bargaining agreement utilizing Craft Alignment and increased time on respirator is expected to result in more time on tools, increasing efficiencies and recovering the negative cost and schedule variances on the PFP project. In addition, a change in the PFP safety basis and criticality analysis is in process to approximately double the current allowable fissile inventory for loading gloveboxes outside. This could reduce the time required to clean out some of the remaining high gram gloveboxes prior to shipment to W&FM for storage (ECD: December 2013). No other specific corrective actions are planned at this time.

CTD Cost: No corrective actions are required.

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

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

For October FY2014, the project was ~14.5% behind schedule and 6% under planned cost. Schedule performance was primarily attributed to RL-0011 due to process vacuum and transfer line removal efforts deferred due to field work teams reassigned to high-hazard work scope and the continued PRF canyon crane failure, and initiating layup activities in preparation of going to a MinSafe condition in anticipation of the FY2014 budget and debt-ceiling impasse. The fallout from ongoing HAMTC negotiations continued to impact completion of work scope due to inability to achieve increased time on respirators; and RL-0013 due to delay in the return of repackaged TRU waste from commercial repackaging facility. Cost performance was primarily attributed to RL-0011 due to continuation of completion of FY2012 carryover work scope on the RMA/RMC gloveboxes and PRF crane repairs and initiating layup activities in preparation of going to a MinSafe condition in anticipation of the FY2014 budget and debt-ceiling impasse; RL-0013 result of continued implementation of efficiencies and RL-0030 efficiencies and savings achieved in various WBSs, including the BC-5 and BP-5 drilling campaigns.

Corrective actions for PFP, RL-0011, Implementation of the new HAMTC collective bargaining agreement utilizing Craft Alignment and increased time on respirator is expected to result in more time on tools, increasing efficiencies and recovering the negative cost and schedule variances on the PFP project. In addition, a change in the PFP safety basis and criticality analysis is in process to approximately double the current allowable fissile inventory for loading gloveboxes outside. This could reduce the time required to clean out some of the remaining high gram gloveboxes prior to shipment to W&FM for storage (ECD: December 2013). No other corrective actions are required.

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 +$88.4 million and +1.7% and is within reporting thresholds. The VACs for RL-0013, RL-0040 and RL-0041 increased primarily due to inclusion of planned efficiencies in FY2014 through FY2018. The VACs for other project baseline summaries (PBSs) are within the threshold limits of +or- 5% and +or- $15 million.

Format 1 and 3 Contract Data: **Contract Price Adjustments**

CPs - In Process		
	Total Authorized Unpriced Work	**$12,180.0**
Approved Adjustments to Contract Price (not reflected in B.4-1 Table)		
	Total Negotiated Cost Changes	**-**
	Grand Total Adjustments	**$12,180.0**

Use of Management Reserve (MR):

Management Reserve Utilization

BCR Number	Title	Fiscal Year	MR
N/A	*N/A*	2013-2018	$0.0

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:	**Date:**	**Approved by:**	**Date:**
Project Control Staff	11/18/2013		

(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 B
Project Services and Support
(WBS 000)

CH2MHILL
Plateau Remediation Company

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

M. A. Wright
Vice President for
Project Technical
Services

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

D. A. Millikin
Director of
Communications

R. M. Millikin
Vice President for
Prime Contract and
Project Integration

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

October 2013
CHPRC-2013-10, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

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

Objective #	Objective	Target	Due Date	Status
14-EMS-ADMIN-OB1-T1	Reduce energy intensity.	Increase facility occupancy rates to greater than 85% by compressing occupancy and vacating underutilized facilities. Remove 10 facilities from active occupancy status. Consolidate at PFP and eliminate 8 trailers.	09/30/14	0%
14-EMS-ADMIN-OB1-T2	Reduce depletion of environmental resources through material recycling.	Make field-released material available for reuse. Recycle office supplies and furniture from the 10 facilities per OB1-T1.	09/30/14	0%
14-EMS-ADMIN-OB2-T1	Reduce the generation and/or toxicity of waste at the source.	Incorporate waste minimization language into greater than 80% of CHPRC onsite/offsite event contracts. Train staff on Zero Waste events.	09/30/14	10%
14-EMS-ADMIN-OB3-T1	Maximize the acquisition and use of environmentally preferable products in the conduct of operations.	Implement new RL direct funded office supply initiative with GSA. Establish green catalogues with GSA supplier.	04/30/14	0%
14-EMS-PCPI-OB1-T1	Reduce the generation and/or toxicity of waste at the source.	Reduce the number and types of printers supported and maintained by 80 total. Improve ability to manage printing. Reduce toner, ink, paper, and energy use.	09/30/14	35%
14-EMS-PCPI-OB2-T1	Reduce Green House Gas emissions by reducing vehicle miles traveled.	Transition CHPRC users to Thin Client workstations for energy and other cost savings measures during FY2014. Complete transition of 275 current computer desktop workstations to the environmentally friendly Thin Client environment.	09/30/14	3%
14-EMS-PTS-OB1-T1	Reduce the potential generation and release of toxic and hazardous chemicals and materials.	Improve spill prevention program to reduce the potential for spills to the environment by use of spill prevention techniques, training, and surveillances.	09/30/14	7%

Objective #	Objective	Target	Due Date	Status
14-EMS-PTS-OB2-T1	Evaluate compliance with Universal Waste requirements and recycling efforts.	Ensure that PTS is adequately implementing Universal Waste accumulation and storage requirements, aerosol can recycling, and other forms of recycling efforts in an efficient and compliant manner. At the end of the year evaluate and develop trending and tracking effectiveness. Document in a MOP.	09/30/14	0%

TARGET ZERO PERFORMANCE

	Current Month	Rolling 12 Months	Comment
Days Away, Restricted or Transferred	0	1	N/A
Total Recordable Injuries	0	1	N/A
First Aid Cases	0	3	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 and central management of crosscutting services. There were no SHS&Q Recordable injuries or First Aid cases during October 2013.
  - Occupational Safety and Industrial Hygiene (OS&IH) accomplishments:
    - Continued support of site-wide standards committees and site-wide steering committees.
    - The Chronic Beryllium Disease Prevention Program (CBDPP) Revision 2 has been approved by RL/Office of River Protection for approval. Implementation efforts are underway. As part of the implementation efforts, the pilot project for assessment and characterization of facilities as been initiated, and CHPRC has conducted the required briefings on changes to beryllium postings and labels.
    - Continued efforts with Site Occupational Medical Provider to resolve return to work issues and issues with the Employee Job Task Analysis process.
    - Ongoing efforts in the revision of hazard controls in the Automated Job Hazard Analysis (AJHA) tool.
    - Socialized the CHPRC Industrial Hygiene Technical Evaluation (TE) process with the BeCAP product team and received support to incorporate the TE as part of the exposure

assessment for beryllium.
- Completed the Apparent Casual Analysis for the Chemical Management issues identified in RL surveillance report and presented the analysis to the Corrective Action Review Board.
- Continued support to Plutonium Finishing Plant (PFP) for use of the PremAire system to facilitate deactivation & decommissioning activities in the Plutonium Reclamation Facility canyon.
- Continued support to the Decommissioning, Waste & Fuels, and Remediation Services Project (DWF&RS) for work activities associated with roof work at the Waste Encapsulation and Storage Facility (WESF).
- Continued support to Project Technical Services (PTS) with subcontractor prequalification, subcontractor oversight and Employee Job Task Analysis (EJTA) reviews for subcontractor personnel.
- Developed a Case Management website to assist in event reporting, investigation, and management of occupational injuries and illnesses.
- Kicked off the Strains and Sprains Campaign.
- Initiated compensatory measures for review and approval of Fall Protection Work Permits.

o Radiological Control accomplishments:
- Continued to support site-wide Radiological Control committees.
- Provided support to PFP Closure Project towards investigating recent ^{90}Sr source issue.
- Completed draft updates for CHPRC-00072 and CHPRC-00073 to implement the approved Authorized Limit and Exemption Request for ^{241}Pu.
- Continued to provide support for use of lapel breathing zone air monitors within an encapsulating suit at PFP Closure Project.

o Nuclear Safety deliverables prepared and transmitted to RL in October include:
- Documented Safety Analysis:
  - Letter, CHPRC-1304323, dated October 31, 2013, *Transmittal of the Waste Encapsulation and Storage Facility 2013 Safety Basis Annual Update, the Annual Unreviewed Safety Question Report, and the List of the Safety Basis Documents.*
  - Letter, CHPRC-1302771.1, dated October 31, 2013, *Preliminary Documented Safety Analysis for the Sludge Treatment Project Engineered Container Retrieval and Transfer System in Process Review Comment Disposition for Approval*.
- Nuclear Safety deliverables received from RL in October include:
  - Letter, 13-NSD-0050_RL, dated October 1, 2013, *Transmittal of Surveillance on a Transportation Safety Document (TSD) Criticality Safety (S-13-NSD-PRC-007).*

o Contractor Assurance Regulatory Reporting (CARR) accomplishments:
- 257 Condition Reports were screened in September:
  - 0 Significant
  - 5 Adverse
  - 130 Track Until Fixed (TUF)
  - 35 Trend Only (TO)
  - 87 Opportunity for Improvement (OFI)
  - 0 Screened Out (factually inaccurate, duplicative of existing Condition Reports)
- Seven root and apparent cause evaluation reports were reviewed. The average score was 98 percent (high scores of 100 percent and a low of 93 percent).
- The Trend Working Group met in October for its quarterly meeting. Trending and continuous improvement information from the projects and the SHS&Q program were presented and discussed for possible commonalities across CHPRC. Two recent cause evaluations were also reviewed.
- CARR is assisting PTS with cause evaluations for seven findings and one concern resulting

from RL's Fire Protection Program surveillance.
  - The Office of Health, Safety and Security's Office of Enforcement and Oversight regulatory assistance review of the CHPRC regulatory compliance program was postponed as a result of the government funding shutdown. A new date for the review has not yet been provided.
  - A conference call was held with Defense Nuclear Facilities Safety Board (Board) personnel to discuss the Board's concerns related to the Sludge Treatment Project (STP) annex concrete use, design, and construction.
  - In October, 35 documents were provided in response to the Board's Document Requests.
- Performance Assurance /Quality Assurance (QA)/Assessment accomplishments:
  - Continued to support the DWF&RS project in the procurement of the new Effluent Treatment Facility evaporator heat exchanger.
  - Working with the Ground Water project in the development of procedures and inspection criteria for their new relief valve testing system.
  - Working with the PFP organization in the development of design and testing criteria for the new glovebox foaming process.
  - Working with the CHPRC Calibration Program Manager, developed a whitepaper cataloging the on-going issues the CHPRC as experienced with the Mission Support Alliance calibration contractor.
  - Participated with PTS and DWF&RS organizations procurement of specific Nondestructive Evaluation (NDE) services for the Canister Storage Building. Continued to provide extensive support to the K-Basin Annex construction project.
  - Supported the RL QA in the development of a presentation for the Environmental Management Corporate Board.
  - Provided support to WESF management conducting independent evaluations of on-going operations.
  - Continued development and planning for 10 CFR 835, Subpart H, *Records*, surveillance activity scheduled for November and December.
  - Completed updating of the Integrated Evaluation Plan (IEP) database testing packages to support the testing and deployment of the IEP upgrade.
  - Completed assessment of the draft FY2014 IEP to verify required assessments were scheduled.
  - Developed Nuclear Safety Performance Evaluation Board (NSPEB) schedule for FY2014 and 2015 and Review Letters of Instruction for first Quarter Review of Liquid Waste Fuel Storage and Waste & Fuels Management Project.

- Status of SHS&Q Focus Areas:
  - **Issue:** Beryllium (Be) program assessment findings from DOE-HQ, Office of Safety, Health and Security Independent Oversight Inspection report.
    Status: Development of Beryllium CAP products. Developed cost estimates and implementation plan for Be characterization process.
    Action: Implementing CHPRC actions and supporting site-wide actions per the approved CAP. Implementing pilot program proposal, which includes posting, assessments, and Be characterization of select buildings, areas, and structures. Completed CHPRC briefing in support of Revision 2, Be postings and labeling.
  - **Issue:** Accident & Injury Reduction.
    Status: Investigating recent recordable and DART injuries to determine cause, prevention and reduction.
    Action: Developed briefing materials for supervisors to help them better understand and manage occupational injuries and illnesses; safety communication campaign emphasizing injury precursors and reduction techniques for common injury types; working closely with site medical

provider to provide ergonomic review and recommendations to prevent strains and soft tissue injuries.

- **Issue:** PFP Value Engineering Study Strategy Path Forward.
  Status: Engaged with PFP project personnel with SHS&Q central group SMEs; developed Risk Evaluation Board (REB) to help expedite PFP strategy innovations to PRC and RL senior management.
  Action: PFP High Gram Glovebox presented at REB in August, awaiting RL approval. Presented PFP foam initiative to REB in September, will status each week at GSO meeting with RL.

Environmental Program and Strategic Planning (EP&SP)
Environmental Protection

- **Compliance Status**
  Asbestos
  - Received "Notice of Intent to File Administrative Complaint for Violation of the Clean Air Act and Opportunity to Confer Prior to Filing" from the US Environmental Protection Agency, Region 10, relating to the management of asbestos-containing material under CERCLA. Currently evaluating response options with the customer.
  - Received an unofficial copy of a Notice of Violation from the US Environmental Protection Agency, Hanford Project office, relating to alleged violations of the Clean Air Act. Currently evaluating response options with the customer.
  - Developed a draft "mapping tool" to allow visualization of asbestos WIDS sites and other asbestos "points of interest". Tool is now being implemented using QMAP/GeoVis.

  Ecology Central Waste Complex Box and WRAP Drum Leak Enforcement
  - A tolling agreement was signed extending the deadline to finalize the AO to early December.

  EPA/RL Agreed Order RCRA Permit Enforcement
  - Closure plans submitted to RL by contract-required date of September 25, 2013. Supported RL submittal to Ecology on October 24, 2013.

  LERF/ETF Totalizers
  - Completed Cause Analysis, returned flow meters and totalizers to service, submitted RCRA Class II permit change request to allow for second method of computation of basin liner leak rate. Currently in public review.
- **Environmental Management System (EMS)**
  - Completed 97% of the 18 Objectives and Targets for FY2013.
- **Environmental Compliance & Quality Assurance (ECQA)**
  Assessments Completed in October
  - The Environmental Compliance Inspection (ECI) of universal waste was completed on October 4, 2013. Ten Opportunities for Improvement (OFIs) and the following seven findings were identified (Corrective Actions being developed):
    1. Universal waste mercury accumulation container not properly labeled.
    2. Management of Universal waste lamps does not meet applicable requirements.
    3. Management of Universal waste lamps does not meet applicable requirements.
    4. Universal waste lamp accumulation containers not kept closed while in storage.
    5. Battery terminal protection does not meet requirements.
    6. Universal waste accumulation container not properly labeled.
    7. Universal waste management procedures warrant revision to ensure effective and consistent implementation of applicable requirements.
  - QA Surveillance of the ETF/LERF Quality Assurance Project Plan (QAPjP) compliance was completed October 30, 2013 and identified two OFI's and the following 3 Findings (corrective

actions being developed):

1. The LWFS QAPjP does not interface with PRC-RD-EP-15332 Environmental Protection Requirements for appropriate flow-down of environmental requirements for Effluent and Environmental Monitoring.
2. Qualified Environmental Data is not defined in CHPRC-00189, Appendix D and there is no documented Data Quality Objective (DQO) within the LWFS for qualifying or validating environmental data.
3. Annual Management Assessments have not been scheduled and performed.

Business Services

- **Acquisition Planning**
  - Worked with Small Business Advocate to update and informally present the Small Business Subcontracting Plan to RL including Option Strategy and PMB Rev. 5.
  - Working with Projects on statements of work and new Acquisition Planning Document requirements for Radioactive Waste Treatment, Hazardous Waste Treatment, Non-Destructive Examination, Tank Integrity Inspections and TRU Repack.
  - Attended site tour of WESF with DWF&RS for Request for Information (RFI) for Cs/Sr Capsule Storage. Site tour went well. Vendors indicated it was informative and worthwhile.
  - Attended Tri-Cities Chamber Expo to promote opportunities for Small Businesses with CHPRC.
  - Attended West Richland Chamber meeting to promote community outreach.
  - Completed contingency planning in case of a future government shutdown.
- **Facilities and Property Management (F&PM)**
  - Efforts were focused on support to PFP for the occupancy footprint reconfiguration to support the transition towards D&D. F&PM coordinated the overall move plan and strategy with the Project and executed the first series of moves designed to vacate MO273 to allow for a full reconfiguration of the building. The building is being converted to "bull pen" type configuration to support the co-location of up to 8 D&D work teams. Cubicles were removed and electrical modifications initiated to accommodate additional lunch room facilities. In parallel, F&PM initiated the Plant Forces Work Review and site evaluation to relocate four structures outside of the proposed D&D work zone. 21 buildings will be vacated as the project progresses, 8 of which are former ARRA mobiles that have been made available for reutilization. WRPS has expressed interest in the available units and MO2102 is the first unit formally transferred.
- **Finance**
  - Continuing to respond to requests from KPMG related to the incurred cost audit for FY2009-FY2011. KPMG has submitted final request for FY2009 data and CHPRC should complete responses in early November. Anticipating exit meeting for FY2009 in late November. Completion of FY2010 and FY2011 is slipping to January 2014.
  - Significant effort spent in October developing funding options related to the pending government shutdown. All planning was complete and ready for implementation when the direction was received that a temporary authorization was passed and that work was to return to normal levels.
  - October month end closing was completed on schedule with no issues.
- **Human Resources**
  - The annual salary increases were implemented for exempt and salaried nonexempt employees effective October 14, 2013. There were 469 exempt employees and 30 salaried nonexempt employees who received an increase.
- **Labor Relations**
  - Since the ratification of the negotiated Collective Bargaining Agreement (CBA), Labor Relations has provided training (October 22nd to November 7th) to 220 CHPRC non-represented employees (i.e., supervisors, managers, and auditors). Labor Relations will also be conducting two make-up sessions the week of November 18.

- **Procurement**
  - Awarded/amended 224 contracts with a total value of $694K. Additionally, awarded 146 new material Purchase Orders valued at $171K to support ongoing project objectives.
  - At the end of the first 61 months of the PRC, procurement volume has been significant; $2.065B in contract activity has been recorded with approximately 49%, or $1.012B, in awards to small businesses. This includes 6,323 contract releases, 15,670 Purchase Orders, and 192,897 P-Card transactions.
  - Completed and issued six Advance Planning Documents to RL for review and three Consent Packages for review and consent.

Prime Contract and Project Integration (PC&PI)

- **Contract Compliance & Change Management (CC&CM)**
  - In October, Prime Contracts received and processed four (4) contract modifications (numbers 253, 287, 297, and 298) from RL. Correspondence Review received and determined the distribution for 39 incoming letters/documents from RL and the Prime Contracts Manager reviewed 36 outgoing correspondence packages.
  - Prime Contracts facilitated the preparation and transmittal to RL the following Notice of Changes (NOC):
    - Cross cutting impacts:
      - Impacts of RL's revision to the FY2014 work prioritization and funding target was transmitted to RL on October 22, 2013.
      - Impacts associated with FY2014 lapse in appropriations was transmitted to RL on October 22, 2013.
      - Impacts from RL's directed update to subcontracting consent thresholds was transmitted to RL on October 24, 2013.
    - Soil & Groundwater Remediation Project (S&GRP):
      - Schedule change for comment resolution and plan for document update for 100-DR-1 & 2 and 100-HR-1, 2 & 3 OU's RI/FS documents delay was transmitted on October 2, 2013.
      - Comment resolution and plan for document update for 100-FR-1, 2 & 3 and 100-IU-2 & 6 OU's RI/FS documents was transmitted to RL on October 2, 2013.
      - 100-NR-1 and 100-NR-2 Operable Unit RI/FS documents delay was transmitted to RL on October 2, 2013.
      - In addition, a response to RL's question on the NOC for Increased Aquifer Tube Sample Requirements was transmitted on October 22, 2013.
    - Decommissioning, Waste, Fuels and Remediation Services (DWF&RS) Project:
      - Impacts to PBS RL-0013 work due to FY2012 and FY2013 Funding was transmitted to RL on October 7, 2013.
      - Impacts to PBS RL-0012 work due to FY2012 and FY2013 Funding and FY2013 sequestration was transmitted to RL on October 15, 2013.
  - Estimating Support Services (ESS) provided the following support to the Projects:
    - Plutonium Finishing Plant (PFP) Closure Project:
      - In conjunction with the project, completed and submitted to RL on October 28, 2013 Change Proposals Number: 011 240 1387, *Plutonium Finishing Plant Chemical Hazards Investigation*, and Number: 011 240 1388, *Mitigation of Chemical Lines at Plutonium Finishing Plant.* These Change Proposals were submitted in response to Change Order #240, *Mitigation of Chemical Lines at PFP*.
      - In conjunction with the project, completed and submitted to RL on October 31, 2013

Change Proposal Number: 011 PRC 1389, *Plutonium Finishing Plant Closure Project FY2013 Sequestration Impacts.*

- Sludge Treatment Project (STP):
  - Provided continuing support by reviewing change orders and estimated cost for design changes associated with the 100K Area Annex construction.
  - Continued effort on the preparation of a Change Proposal that will address the impacts of FY2013 Sequestration to the overall project.
- DWF&RS Project:
  - Provided assistance in the form of an estimate peer review for the options estimate being prepared on alternatives to processing waste water at ETF. CHPRC is due to submit a recommendation to RL by the end of November 2013.
- S&GRP Project:
  - Continued efforts on preparation of a revised actual cost Change Proposal for CO #107, *Addition of S-SX Interim Groundwater Extraction System*. Development of this revised Change Proposal is being done to support closure on the reopener agreement included in the earlier definization of CO #107.
  - At the request of RL to support the planned negotiation and definitization of CHPRC's Change Proposal in response to CO #222, *100-BC-5 Well Drilling, Aquifer Tube Network Installation, and Sampling*, ESS worked with the project to perform and submit to RL the results of a Truth In Negotiations Act (TINA) sweep of the proposal.
  - In conjunction with the project, completed and submitted to RL on October 24, 2013 a Change Proposal in response to CO #227, *Modutank and Investigation-Derived Waste (IDW) Changed Regulatory Requirements and Groundwater Procedure Updates.*
  - In conjunction with the project, completed and submitted to RL on October 1, 2013 a Change Proposal in response to CO #229, *100-NR-2 OU Apatite Barrier within the Vadose Zone.*
  - Continued to work on the development of CHPRC's Change Proposal in response to CO *#237, 200-DV-1 Transient Perched Water.*
  - Continued to work on the development of CHPRC's Change Proposal in response to CO *#238, 100-NR-2 Aquifer Barrier Expansion.*

- **EVMS Compliance and Reporting**
  - Provided a plan to RL to achieve an orderly ramp-down to minimum operations due to a lack of FY2014 appropriations.
  - Developed a plan to adjust the PMB to reduced funding levels based on expected appropriations.
  - Participated in comment review sessions relative to the Annual PMB submittal.
- **Strategic Planning and Integration**
  - **Strategic Planning**
    - Supporting DWF&RS by drafting the TPA required 5-year Tritium Technology Evaluation Report.
  - **Interface Management**
    - Tech Editing completed and procedure released for general use October 31, 2013 on PRC-PRO-MS-10472, Rev. 1, Chg. 1, and Interface Management.
    - Submitted 2nd Volume of "Be In The Know…" Winter Awareness
    - Developed and continue to populate Calibration spreadsheet utilized to bin like issues.
    - Contributed input to revision of Property Management Procedure (PMT-52772) to include PC&PI language for J.13 Matrix as it applies to facility transfers.
    - Continue to work issues as they arise from M&TE Calibration Services provided through the new Site calibration vendor Micro Precision.

- Submitted brief write-up for PRC Procedure System (PPS), Printer Optimization, Thin Client, Document Management and control System for FY2013 Site Sustainability Plan.
- Developed and began to populate Site Manuals Spreadsheet to begin development of an internal change control process
- Issued CHPRC-1303070A R1 – CHPRC FY2014 Service Level Agreement to Advanced Technologies and Laboratories, Inc.
- Supported a meeting with PRC/WRPS/MSA on the Coordination of WRPS AZ-301 Tanker Operations.
- In process Interface Documents:
  - TOC-AIA-PRC-000031, *AIA Between WRPS and PRC for Operations Interface Activities within or Adjacent to Nuclear Facilities.*
  - CHPRC-000236, Rev. 2, *Welding and Materials Engineering Services and Welding Services between CHPRC and MSA.*
  - TOC-AIA-PRC-00008, Rev. 1, *AIA Between WRPS and PRC for Groundwater and Vadose Zone Project.*
  - TOC-ICD-PRC-XXXX, *ICD Between Washington River Protection Solutions and CHPRC for Lock and Tag Authority of Breakers at Canister Storage Building.*
  - Began development of AIA between CHPRC and MSA for calibration services to identify opportunities to self-perform, solicit for a time and materials contract, or utilize MSA's Fixed Unit Price Contract (J.3 Table) with Micro Precision.
- Issued Interface Documents:
  - HNF-41866, Rev. 2, *AIA Between PRC and MSA for Generating and Applying SWITS Barcode Labels to New Waste Containers.*
  - HNF-52028, Rev 1, *AIA Between PRC and MSA for Accident-Incident-Exposure-Uptake-Personal Injury-Critique POC.*

- **Information Management**
  - Removed 28 stand-alone printers from service in support of EMS Objective FY2014-EMS-PC&PI-OB1-T1.
  - Installed eight Thin Client computers in support of EMS Objective FY2014-EMS-PC&PI-OB2-T1.
  - Completed reorganization and simplification of procedure related Vital Records.
  - Supported PFP personnel with determination of record material and collection for processing.
  - Implemented a new IDMS workflow for EP Drill Packages and Reports.
  - Completed Forms Usage/Reconciliation project.
  - Defined and submitted suggested Records Management Access Portal (RMAP) Changes to support RIDS and Electronic Records Authorization (ERA) searching and processing efficiencies.
  - Started accepting logbooks/notebooks at MO287 Records Center for processing into IDMS electronic records.
  - Processed 9,050 electronic records into IDMS.

Project Technical Services (PTS)

- **Central Engineering (CE)**
  - Central Engineering (CE) led the preparation and approval of a request for proposal for the Decommissioning, Waste, Fuels & Remediation Services (DWF&RS) Effluent Treatment Facility (ETF) replacement Heat Exchanger. A technical/procurement specification was prepared and issued that defines the performance characteristics for the replacement heat exchanger.

Issuance of the proposal was delayed due to uncertainty surrounding the continuation of federal funding. It is anticipated that the RFP will be released during the next reporting period. 3-D modeling of the current installation configuration is being done by DWF&RS personnel. The modeling information will be used in developing a removal/replacement plan.

- CE is developing a bonding procedure specification (BPS) to perform a repair on a PVDF (Kynar) piping system within the 200W Pump-and-Treat. As part of the BPS qualification, bonder(s) will also be qualified as well.
- CE met with S&GRP staff to discuss the Project Management strategy for the upcoming modifications to the 200W P&T facility in support of Federal Facility Agreement and Consent Order milestone M-16-13-01, Implement the actions identified in the 200-UP-1 Groundwater Remedial Design/Remedial Action Work Plan to fulfill remedial action components identified in the 200-UP-1 ROD for Interim Remedial Action.
- CE is supporting DWF&RS in the evaluation, design, and construction specifications for the new 400 Area Septic System to replace the current discharge system to Energy Northwest (Contract Modification 273). Application to the Washington State Department of Health (WDOH) has been submitted for review and approval.
- CE notified the Hanford Fire Department (HFD), alerting them that there have been 2 battery failures in recent weeks in which the cases have shown "burn" marks. The matter is being pursued by the HFD with the manufacturer. The battery failures are the cause of a System Restriction PFP has for 243-Z that is not yet corrected due to a board within the panel not functioning properly and needing replacement.
- CE signed off as author of FMP (ECR-13-000979) for WESF that included the design for additional 480VAC receptacles in HVAC Room 113. These receptacles will be used to power fan-forced heaters to defrost inlet plenum duct filters in cold weather.
- CE is preparing Verification and Validation report for RISA-3D Structural Engineering Software for analysis and design. This software application will be utilized throughout CHPRC Projects.
- An issue has arisen with the allowable storage of materials in the mechanical room area of the Canister Storage Building Support Area. A meeting is scheduled Monday November 4, 2013 to meet with Facility Management to evaluate the issue.
- CE is checking calculations for the T-Plant Sludge Handling System Structural Secondary Containment Leveling Frame Assembly. The leveling frame assembly will support the storage casks and their containment assembly.
- CE is supporting the development of a formal Corrective Action Plan development in response to RL Fire Protection Program Surveillance (S-13-NSD-PRC-001).
- CE supported RL and DWF&RS in the response to the Oregon DOE letter of concern regarding the Waste Encapsulation Storage Facility (WESF).
- CE completed review of the *PFP Glovebox Foaming and Size Reduction Technical Description Document.*
- CE reviewed the PFP PM/S Activities for the fire system and recommended several changes which will make the performance more efficient and most likely use fewer resources to perform the same PM/S Activities over the course of a year.
- CE provided support for PTS Project Delivery verifying the NRTL certification of GPS survey equipment and conduit fittings that were procured. GPS survey equipment was determined NRTL certified with appropriate marking and verified in the UL listing database. Some conduit fittings were determined non-NRTL certified and NRTL certified alternatives were recommended for use.
- PTS CE initiated development of a new Computer Based Training (CBT) class for the HEPA filter program.

- **Procedures and Training**
  - Implemented PRC Procedure System (PPS) Release 1-3 on October 31, 2013.

- Worked with Nuclear Safety to develop a CBT course and written examination for Hazard Categorization.
- Scheduled and participated in the inaugural Hanford Site Contractor Training Management Forum.
- Worked with Labor Relations to develop CBA Overview training course.
- Added links to sitewide standards Clarifications, Interpretations, and Guidance (CIG) form in PPS.
- Developed new overview course on WESF systems for new class of NCOs.
- Developed 4th quarter continuing training for K Basins.
- Implemented new PFP Operator Aids CBT.

- **Operations Program**
  - Work Control reviewed a draft RL handbook on WP&C providing comments back to RL with positive feedback.
  - PTS Operations Program management is directly supporting projects conducting requested walkdowns on potential hazardous energy control issues and is also working corrective actions related to the hazardous energy control recurring event analysis.
  - Continued to work with Micro Precision and MSA to resolve discrepancies with calibrated M&TE.
  - The Conduct of Work Mentors are supporting quarterly FWS meeting content development and focusing on field oversight of planned work document activities.
  - Supported S&GRP Corrective Action Review Board (CARB) finalizing causal analysis and corrective action plan resulting from the EM-42 conduct of operations assessment at 200W P&T.
  - Supported MSA development of DOE-HQ response to Operating Experience Level 1 concerning Beyond Design Basis Accidents.
- **K Annex Construction & ECRTS**
  - Completed the erection, inspection of rebar, embeds, and blockouts for the interior/exterior MEVA wall forms.
  - Completed the engineering walkdown, QA inspections and concrete placement for the south and east loading bay walls on October 7, 2013.
  - Completed the engineering walkdown, QA inspections and concrete placement for the north and west loading bay walls on October 17, 2013.
  - Completed the engineering walkdown and QA inspections for the stem walls (minus the grade beam), HEPA room and change room and high bay sumps and stack base to support concrete placement scheduled for November 1, 2013.
  - Received Flanders Ventilation System Design for review and approval.
- **Project Delivery**
  - DWF&RS
    - WESF Lower Roof
      - Polyurethane foam and sealant are installed to roof Areas 1 and 3. The project is 99% complete.
    - 2025EA Building Exterior Repair
      - The contractor is scheduled to mobilize on November 11, 2013.
    - WESF Pool Cell Ladder Installation
      - Field work is scheduled to start on November 4, 2013.
  - S&GRP
    - 100K Pump and Treat Realignment – Well XE01
      - Road crossing #35 completed
      - Field route of pipe and electrical is 95% complete
    - 200W Pump-and-Treat HDPE Bonding

- Completed installation of 4" and 6" HDPE piping on October 22, 2013.

– 100KX Pump-and-Treat Filter Assembly Installation
- Filter assembly installation is completed.

o 400 Area Septic
– RFP issued for the installation of the Septic System and the procurement of the Septic Tank.
– Contractor pre-bid walkdown scheduled for November 6, 2013.

Communications

Internal

- Produced four issues of the Weekly Update, the CHPRC employee news bulletin, with manager messages from S&GRP Vice President Bob Popielarczyk, President and Chief Executive Officer John Fulton, and Chief Legal Counsel and Ethics Compliance Officer Mel Hatcher.
- Produced InSite, the monthly news broadcast, featuring restart of construction at the KW Annex, the 200 West Pump-and-Treat receiving the CH2M HILL CEO Excellence Award for 2013, CHPRC receiving the Voluntary Protection Program Participants Award (VPPPA) innovation award for the PFP 4H respiratory protection program, and the results from the Zero Waste employee picnic.
- Conducted research for Communications planning and lessons learned, including phone surveys, focus groups and paper surveys.
- Supported Safety, Health, Security & Quality (SHS&Q) with communications planning and implementation of the sprains and strains safety campaign.

Public Relations

- Photos of CHPRC projects were featured on National Geographic's Instagram feed after a photographer toured the site.
- CHPRC supported RL with public tours at T Plant throughout the month of October as part of the Hanford 70th Anniversary Celebration.
- CHPRC's groundwater, PFP and VPP awards were featured in the Hanford Forward, the site-wide external newsletter.
- CH2M HILL corporate social media sites featured National Geographic's photos of the CHPRC's PFP project and the CHPRC video announcing the zero waste picnic results and Green Living award from the City of Richland.
- Supported RL with media inquiries regarding collective bargaining agreement negotiations, government shutdown and notices of potential EPA notices of violation.

Public Involvement

- Coordinated development of the 300 Area Record of Decision Comment Response Document
- Coordinated the initiation of the public comment process for the proposed Class 3 modifications to the Hanford Facility Dangerous Waste Permit. These changes are for the Low-Level Burial Grounds Trenches 31, 34 and 94, the Central Waste Complex (CWC), Waste Receiving and Processing Facility (WRAP), and the T-Plant Complex (T-Plant). A public meeting is planned for December 9, 2013.

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 (%)
Communications	0.1	0.1	0.1	0.0	0.0%	(0.0)	-23.1%
Safety, Health, Security and Quality	1.0	1.0	0.9	0.0	0.0%	0.1	10.5%
Environmental Program and Strategic Planning	0.3	0.3	0.3	0.0	0.0%	0.0	10.6%
Business Services	1.5	1.5	1.6	0.0	0.0%	(0.1)	-6.7%
Prime Contract and Project Integration	1.6	1.6	1.4	0.0	0.0%	0.3	17.6%
Project Technical Services	0.5	0.5	0.5	0.0	0.0%	0.0	8.6%
Indirect WBS 000 Total	**5.1**	**5.1**	**4.8**	**0.0**	**0.0%**	**0.4**	**7.0%**

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: (+$0.4M/+7.0%)

The favorable cost variance is within reporting thresholds.

Fiscal Year-to-Date (FYTD)
($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)
Communications	0.1	0.1	0.1	0.0	0.0%	(0.0)	-23.1%	1.0
Safety, Health, Security and Quality	1.0	1.0	0.9	0.0	0.0%	0.1	10.5%	13.6
Environmental Program and Strategic Planning	0.3	0.3	0.3	0.0	0.0%	0.0	10.6%	4.2
Business Services	1.5	1.5	1.6	0.0	0.0%	(0.1)	-6.7%	20.5
Prime Contract and Project Integration	1.6	1.6	1.4	0.0	0.0%	0.3	17.6%	21.9
Project Technical Services	0.5	0.5	0.5	0.0	0.0%	0.0	8.6%	7.0
Indirect WBS 000 Total	**5.1**	**5.1**	**4.8**	**0.0**	**0.0%**	**0.4**	**7.0%**	**68.1**

Numbers are rounded to the nearest $0.1M.

Indirect WBS 000
FYTD Schedule Performance: ($0.0M/0.0%) – Schedule is Level of Effort.

FYTD Cost Performance: (+$0.4M/+7.0%)
The favorable cost variance is within reporting thresholds.

Baseline Change Requests
BCR-PRC-14-001R0 – *FY2014 Work Authorization*

FY2014 G&A Analysis
($M)

WBS 000 Project Services and Support	FYTD BCWS	FYTD Actual	FYTD Variance (O)/U		FY2014 BCWS	FY2014 Forecast	FY2014 Variance (O)/U
Communications	0.1	0.1	(0.0)		1.0	1.0	(0.0)
Safety, Health, Security and Quality	1.0	0.9	0.1		13.6	12.7	0.9
Env. Program & Strategic Planning	0.3	0.3	0.0		4.2	3.9	0.3
Prime Contract and Project Integration	1.6	1.4	0.3		21.9	21.0	0.8
Business Services	1.5	1.6	(0.1)		20.5	20.3	0.2
Project Technical Services	0.5	0.4	0.1		7.0	6.7	0.3
General & Administrative (G&A)	**5.1**	**4.7**	**0.4**		**68.1**	**65.6**	**2.5**

	FYTD	FY2014
G&A Distribution	**(4.1)**	**(64.0)**
G&A Liquidation (Over)/Under	**0.6**	**1.6**

Liquidation Analysis

- For FY2014, the General and Administrative (G&A) accounts under-liquidated $0.6M in the month of October. The FY2014 year end projected under-liquidation of $1.6M reflected in the fiscal year spend forecast reflects revised funding guidance which significantly decreases the G&A base and decreases expected G&A cost.
- Consistent with CHPRC prospective Cost Accounting Disclosure Statement, 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.