



J. C. Fulton
President and Chief
Executive Officer

Monthly Performance Report

U.S. Department of Energy Contract,
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November 2013
CHPRC-2013-11, Rev. 0

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EXECUTIVE SUMMARY

- The Plutonium Finishing Plant Closure Project team is isolating buildings that are scheduled for demolition in early 2014. This includes removing permanent energy sources like electricity and water. Temporary lights and ventilation will be used to allow workers to safely enter those buildings to prepare them for demolition.
- The Soil and Groundwater Remediation Project (S&GRP) and the Environmental Program and Strategic Planning (EP&SP) Organization helped complete the 300 Area Record of Decision, which was signed. The document governs cleanup along the Columbia River.
- CHPRC was announced as the winner of an Excellence in Hazardous Materials Management Award for the CHPRC Innovative Emergency Response Trailer. The award is from the Eastern Washington Chapter Academy of Certified Hazardous Material Managers.
- The Decommissioning, Waste, Fuels & Remediation Services (DWF&RS) and Project Technical Services (PTS) project teams continued construction on the KW Annex that will support sludge retrieval. This month's work included activities to prepare and place slab concrete.
- CHPRC employees pledged more than \$164,000 during the 2013 United Way campaign. CH2M HILL matches \$0.25 per dollar pledged, bringing the total contribution to \$205,000.



Isolating PFP facilities scheduled for demolition



Placement of concrete for the KW Annex for the Sludge Treatment Project

Focus on Safety

- The November 2013 President's Zero Accident Council (PZAC) was hosted by the Safety, Health, Security & Quality (SHS&Q) Organization. The three main themes of the meeting were:
 - o Injury Reduction
 - o Fall Prevention
 - o Sprains and Strains
- The meeting started with a unique twist on Stretch and Flex. As part of the meeting's emphasis on injury reduction, an ergonomist from the site occupational medicine provider explained how each stretching position helped to minimize strain on muscles, joints, and tendons. The ergonomist extended the presentation by discussing the causes of strains and sprains and how to prevent and treat them. The next presentation raised injury reduction awareness to new heights by discussing fall prevention. Information provided included common fall hazards, fall protection requirements and upcoming changes to the site wide procedure. New safety communication campaigns were introduced for both injury reduction and winter hazards. Unveiled first was an awareness poster to prompt proper posture and practices to prevent musculoskeletal injuries. Provided next, were checklists and badge cards that warn of winter hazards and list controls and prevention techniques such as walking like a penguin on snow and ice. Before the audience waddled back to their work areas, there were presentations on the January 2014 DOE Voluntary Protection Program (VPP) assessment, Environmental Management System, an injury report, the safety performance review and Good News Stories.
- Four "Thinking Target Zero" (TTZ) bulletins were published in November to convey important environmental and occupational safety and health messages:
 - o What is a Musculoskeletal Injury
 - o Holiday Safety
 - o VPP Basis
 - o EMS - Recycle
- The *Weekly Safety Tailgate* briefing packages for November communicated relevant topics and safety information to the workforce:
 - o Work Delays and Cancellations
 - o Hard Hat Recycling
 - o Personal Protection Requirements
 - o Hazard Communication
 - o Hanford Site Wide Standard Clarifications, Interpretations, and Guidance Forms
 - o Driving in Fog
 - o Safety Meeting Requirements
 - o Safety Observations
 - o Procedure Coversheet Bar Codes
 - o National Hand washing Awareness Week
 - o "What Would You Do?" Ethics Awareness messages
 - o Injury/Illness Summaries and the TTZ of the week

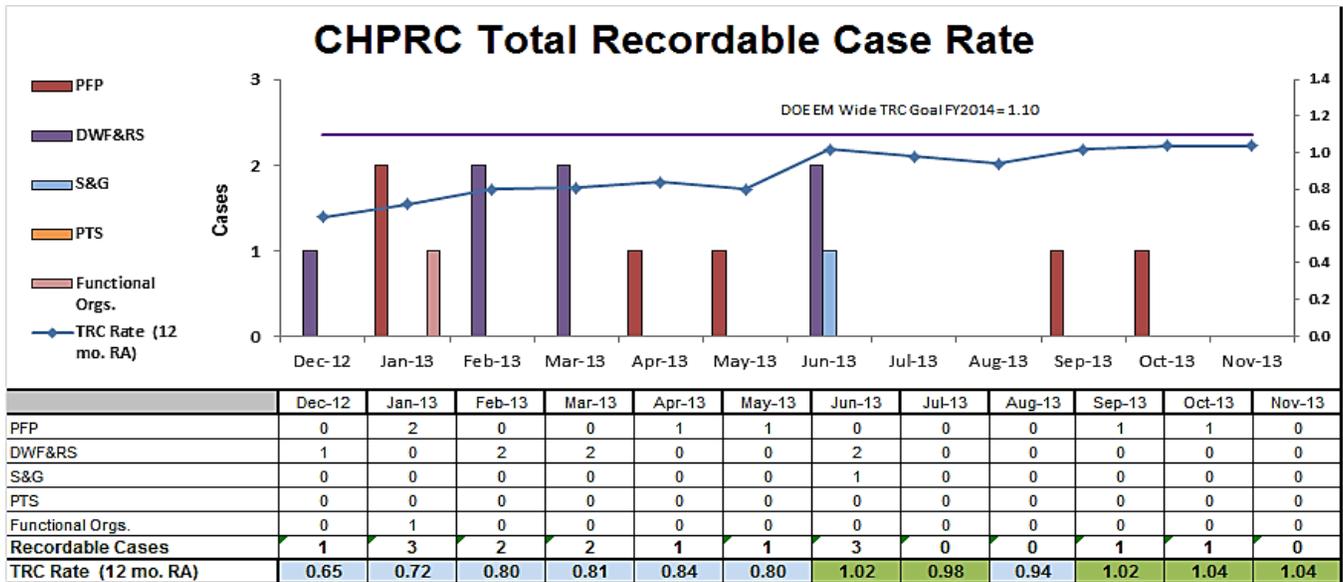


- FACILITY CHECKLIST**
- NRTL rated portable heaters placed at least 3 feet from combustibles
 - Workers aware of winter hazards and controls
 - De-icer and shovels by the door/at the end of walkways
 - Scrapers in government vehicles
 - Designated snow paths/walkways
 - Visible safety posters
 - Adverse weather badge cards for each employee
 - Appropriate footwear
 - Shoe grippers for ice/snow
 - Winter PPE (for outside workers)
 - Coats
 - Overalls
 - Gloves/liners

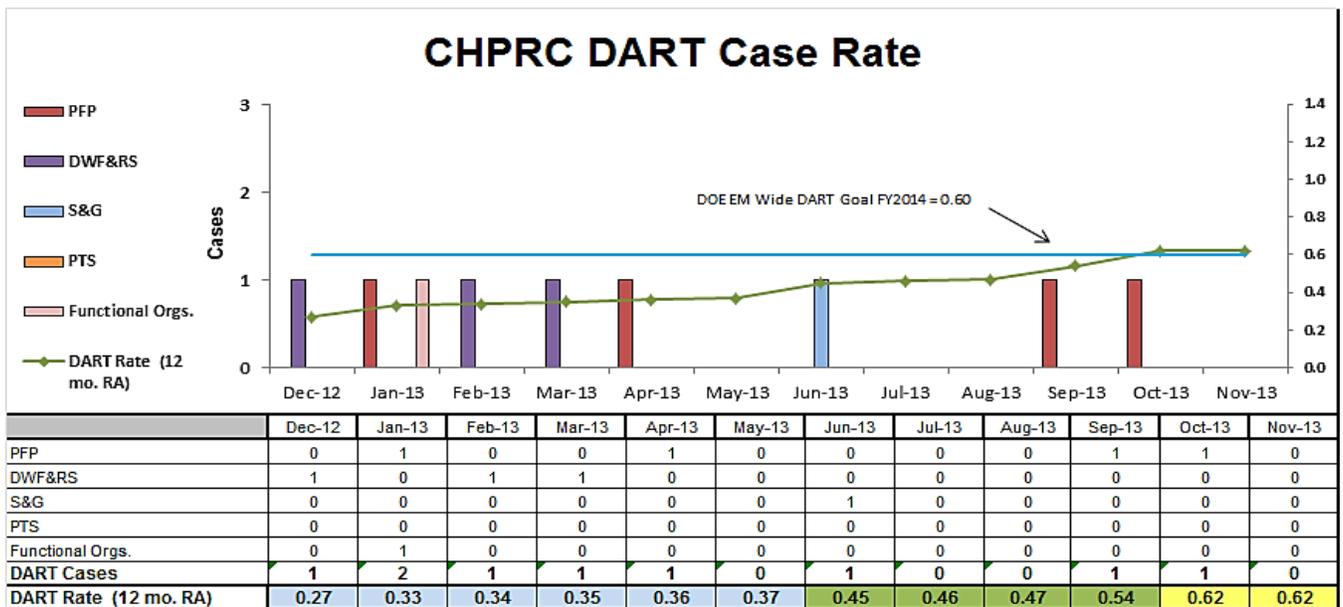
Check the weather before going out at 376-9999 or 530 AM Radio.
Facility winter checklists for winter preventative maintenance requirements are implemented through PRC-PRQ-404-472, "Cold Weather Protections."

TARGET ZERO PERFORMANCE November 2013

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



Total Recordable Injury Case (TRC) Rate – The 12 month rolling average TRC rate of 1.04 is based on a total of 15 recordable injuries (six Recordables and nine DART cases). There were no Recordable/DART cases in November 2013. There were two cases, one each from May and June of 2013, that were determined to be Recordable following evaluation/investigation. There are currently two cases being reviewed as potentially Recordable.

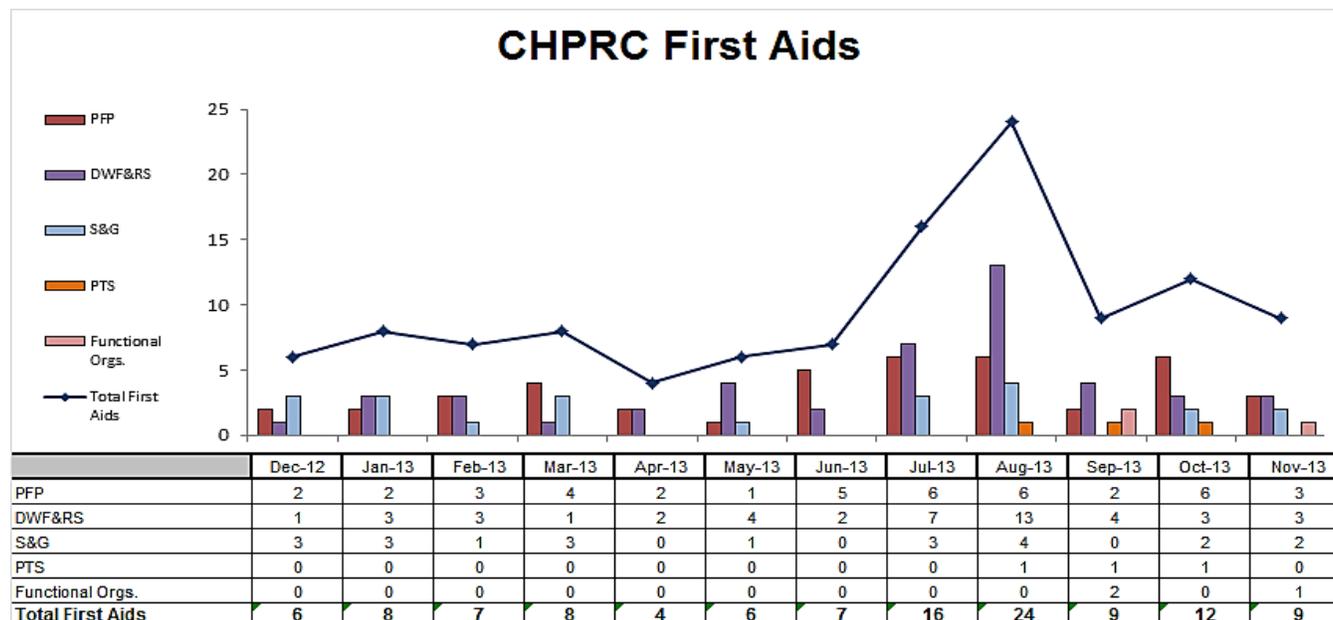


Days Away, Restricted or Transferred (DART) Workdays Case Rate – The 12 month rolling average DART rate of 0.62 is based upon a total of nine Days Away cases. There were no DART cases in November 2013.

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: The DOE-EM TRC rate goal is unchanged (1.1) and the DOE-EM DART rate goal is also unchanged (0.6) for FY2014.

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



First Aid Case Summary – CHPRC reported nine first-aid cases in November 2013. The contributors were five sprains / strains / pains, three abrasions / contusions, and one minor cut.

KEY ACCOMPLISHMENTS

Projects

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

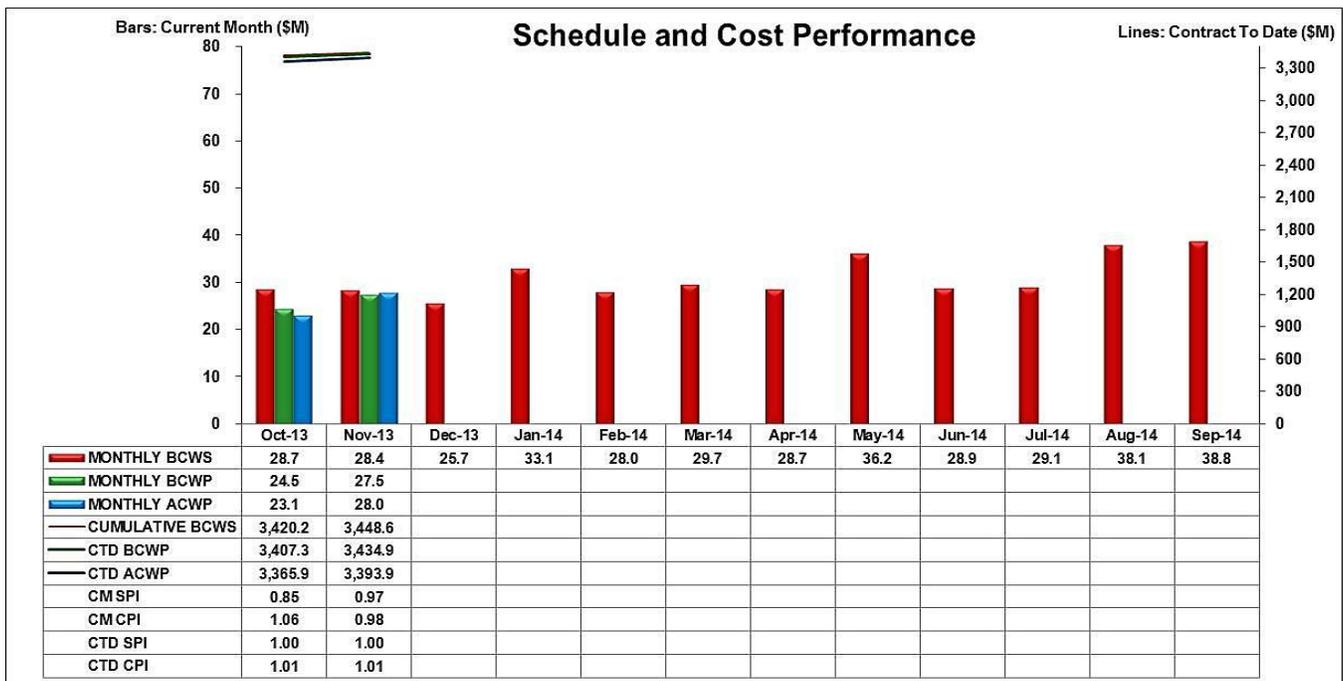
Project Services and Support

- 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



	\$M						\$M					\$M			
	Current Period						Contract to Date					Contract Period			
	Budgeted Cost		Actual Cost	Variance			Budgeted Cost		Actual Cost	Variance			BAC	EAC	Variance
	BCWS	BCWP	ACWP	Schedule	Cost	BCWS	BCWP	ACWP	Schedule	Cost					
RL-0011 - Nuclear Materials Stab & Disp PFP	8.5	6.9	7.8	(1.6)	(0.8)	637.8	626.1	656.2	(11.7)	(30.1)	934.9	967.4	(32.5)		
RL-0012 - SNF Stabilization & Disposition	4.2	4.1	5.2	(0.1)	(1.1)	391.0	390.8	399.7	(0.2)	(8.9)	690.5	694.7	(4.2)		
RL-0013 - Solid Waste Stab & Disposition	6.7	7.5	6.7	0.8	0.8	803.3	803.3	783.9	(0.0)	19.4	1,325.1	1,257.1	68.0		
RL-0030 - Soil & Water Rem-Grndwtr/Vadose	7.5	7.4	7.4	(0.1)	0.0	919.6	917.8	911.8	(1.8)	6.0	1,489.1	1,482.6	6.5		
RL-0040 - Nuc Fac D&D - Remainder	0.8	0.8	0.7	(0.0)	0.1	377.8	377.7	348.4	(0.0)	29.3	485.2	453.3	31.9		
RL-0041 - Nuc Fac D&D - RC Closure Project	0.6	0.6	0.1	0.0	0.5	302.8	302.8	280.2	0.0	22.6	390.5	368.4	22.1		
RL-0042 - Nuc Fac D&D - FFTF Project	0.2	0.2	0.1	0.0	0.1	16.3	16.3	13.7	0.0	2.6	26.5	24.6	1.9		
(Numbers are rounded to the nearest \$0.1M)	Total	28.4	27.5	28.0	(0.9)	(0.5)	3,448.6	3,434.9	3,393.9	(13.8)	40.9	5,341.6	5,248.0	93.6	

Performance Summary

CHPRC continues to track completion of contract scope within budget and is currently projecting a Variance at Completion of \$93.6M with \$74.5M of Management Reserve for a total positive variance of \$168.1M. For FY2014, the project is ~3.1% behind schedule and 1.7% over planned cost. Schedule performance in November was primarily due to:

- RL-0011 – 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.
- RL-0013 – Return of repackaged TRU waste from commercial repackaging which was planned and scheduled for October.

Cost performance in November was primarily attributed to:

- RL-0011 – 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.

- RL-0012 - Additional costs for the month associated with rework of concrete calculation design issues, constructability design issues and cold weather construction costs associated with adverse weather.

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

PBS	Project	FY2014		Variance
		Projected Funding	Spending Forecast	
RL-0011	Nuclear Materials Stabilization and Disposition	107.8	105.6	2.3
RL-0012	Spent Nuclear Fuel Stabilization and Disposition	57.8	56.5	1.3
RL-0013	Waste and Fuels Management Project	78.3	78.0	0.3
RL-0030	Soil, Groundwater and Vadose Zone Remediation	109.5	107.8	1.7
RL-0040	Nuclear Facility D&D, Remainder of Hanford	11.1	10.7	0.5
RL-0041	Nuclear Facility D&D, River Corridor	7.6	7.4	0.2
RL-0042	Fast Flux Test Facility Closure	2.3	2.2	0.1
Total Base:		374.5	368.1	6.4

Funds/Variance Analysis:

FY2014 Projected Funding reduced from \$391.6M to \$374.5M based on FY2014 work authorization received from RL.

BASELINE CHANGE REQUESTS

In November 2013, CHPRC approved and implemented six (6) BCRs. The change requests are identified in the table below:

Change Request #	Title	Summary of Change
Implemented into the Earned Value Management System for November 2013		
BCR-012-14-001R0	<i>PBS 12 Revised PMB to DOE FY14 Revised Funding Guidance</i>	This BCR defers scope to comply with RL Letter 13-PIC -0015, "Work Authorization for Fiscal Year 2014." Annex Construction scope was deferred to from FY2014 to FY2015 to help achieve the revised FY2014 budget level of \$374.5M. This change increased the PMB by \$2,121K.
BCR-013-14-002R0	<i>EPA Consent Agreement and Final Order (CAFO)</i>	This BCR adds scope to PBS RL-0013 as required by Contract Modification (Mod.) 299 which is the definitization of Change Order (CO) 232, Contractor Actions Required Under the June 26, 2013, EPA Consent Agreement and Final Order (CAFO). This change increased the PMB by \$49K.
BCR-013-14-003R0	<i>ETF Heat Exchanger Deferral</i>	This BCR defers procurement and installation of the ETF Heat Exchanger from FY2014 to FY2015 to help achieve a revised FY2014 budget level of \$374.5M to comply with RL Letter 13-PIC -0015, "Work Authorization for Fiscal Year 2014." This change increased the PMB by \$15K.
BCR-030-14-001R0	<i>RL-30 Revise FY14 Budget Amount</i>	This BCR defers FY2014 S&GRP work scope and incorporates estimating reduction revisions required to align with the revised CHPRC FY2014 budget planning target of \$374.5M to comply with RL Letter 13-PIC -0015, "Work Authorization for Fiscal Year 2014." This change decreased the PMB by \$236K.
BCR-040-14-001R0	<i>PUREX Tank Asbestos Remediation</i>	This BCR adds work scope to PBS RL-0040 WBS 040.01.26.01.20 to complete removal and disposal of all asbestos (including cladding and insulation) associated with Tank 11 at 211A in the PUREX compound. This change is necessary to comply with RL Letter 13-PIC-0015 dated September 30, 2013. This change increased the PMB by \$1,120K.
BCR-PRC-14-002R0	<i>Hanford Rad Health & Safety Doc Revision, CO 206, Mod 286</i>	This BCR adds scope to PBS RL-0011, RL-0012, RL-0013, RL-0030 and RL-0040 as required by Contract Modification (Mod.) 286 which is the definitization of Change Order (CO) 206, Revision of the Hanford Site Radiological Health & Safety Document. This change increased the PMB by \$22K.

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-013-14-002R0	<i>EPA Consent Agreement and Final Order (CAFO)</i>	2014 - 2018	\$25K
BCR-PRC-14-002R0	<i>Hanford Rad Health & Safety Doc Revision, CO 206, Mod 286</i>	2014 - 2018	\$2K

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):

November 2013 Summary of Changes

	FYs 2009-2013	FY2014	FY2015	FY2016	FY2017	FY2018	FYs 2014-2018	Contract Period Total	Total PMB
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
October 2013 Change									
PMB									
Change to PMB	0	-13,353	10,628	4,822	580	414	3,091	3,091	3,091
MR									
Change to MR	0	0	0	0	0	0	0	0	0
Fee									
Change to Fee	0	27	0	0	0	0	27	27	27
Total Change	0	-13,327	10,628	4,822	580	414	3,117	3,117	3,117
November 2013 Estimate									
PMB	3,391,477	373,535	425,376	420,856	360,946	369,460	1,950,173	5,341,649	5,341,649
MR	0	5,000	7,527	25,295	23,666	13,035	74,523	74,523	74,523
Fee	155,504	13,941	13,100	19,800	8,800	16,600	72,241	227,745	227,745
Total	3,546,981	392,476	446,003	465,951	393,412	399,095	2,096,937	5,643,918	5,643,918

Changes to/Utilization of Management Reserve in November 2013

	FY2009-2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2014-2018	Total
October 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
November 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
November 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*.

Contract-to-Date Actual Awards & Mods 10/1/2008 - 11/30/2013				Projection to FY2018	
Reporting Category				Planned Subcontracting:	\$2,406,850,560
				Contract-to-date awards:	\$2,065,957,129
				Bal remaining to award:	\$340,893,431
	\$ Value	%	Goal %	Goal award\$	Bal to Goal
SB	\$1,017,401,725	49.25%	49.3%	\$1,186,577,326	\$169,175,601
SDB	\$177,386,947	8.59%	8.2%	\$197,361,746	\$19,974,799
SWOB	\$198,862,559	9.63%	7.5%	\$180,513,792	(\$18,348,767)
HUB	\$54,332,828	2.63%	2.2%	\$52,950,712	(\$1,382,116)
VOSB	\$119,645,824	5.79%	3.5%	\$84,239,770	(\$35,406,054)
SDVO	\$56,630,422	2.74%	1.3%	\$31,289,057	(\$25,341,365)
NAB	\$28,215,199	1.37%	N/A		
Large	\$560,067,542	27.11%	N/A		
GOVT	\$2,120,462	0.10%	N/A		
GOVT CONT	\$482,866,522	23.37%	N/A		
EDUCATION	\$89,941	0.00%	N/A		
NONPROFIT_	\$3,208,343	0.16%	N/A		
FOREIGN	\$202,593	0.01%	N/A		
Total	\$2,065,957,129	100.00%	N/A		
				PRC clause H.20 small business requirement ≥ 17% of total Contract Price performed by SB.	
				Total Contract Price:	\$5,680,738,872
				17% rqmt:	\$965,725,608
				SB actual:	\$1,017,401,725
				Bal to rqmt	(\$51,676,117)

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)



J. M. Swartz
Vice President for
PFP Closure Project

November 2013
CHPRC-2013-11, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

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

<i>Key Performance Indicators</i>	<i>Current Month</i>	<i>Contract To Date</i>
Glovebox/ Hood Removed or Dispositioned in Place	2	198 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	5	115 pencil tank units
Buildings Ready for Demo	-	32 structures
Buildings Demolished or Removed	-	32 structures
Non-radioactive Waste Shipped	2 m ³	41 m ³
TRU/TRU-M Shipped	10 m ³	1,280 m ³
LLW/MLLW Shipped	14 m ³	4,286 m ³

- Removal of plutonium-contaminated process equipment continued, with a particular focus on removing gloveboxes, associated piping, and ductwork. Glovebox (GB) HA-10 and the 170-1H Hood in 234-5Z were removed from ventilation in the month of November. 170-1H will be dispositioned in December and HA-10 will be dispositioned in the early spring. The total gloveboxes removed to date is now at 85 percent complete.
- On October 31, during the sealout of PRF Pencil Tank 126, the crane trolley lost the east and west movement function. Troubleshooting determined that one of the trolley fuses had failed. The fuse was replaced and the crane returned to service. Size reduction of Pencil Tank Assembly 127 (Tank 127) was initiated and is 2% complete. The upper and lower external piping has been removed. During size reduction of Tank 127 on November 1, three fuses were blown in the control cabinet, two for the hoist and one for the trolley. The trolley fuse was not the same fuse as failed earlier in the week. Troubleshooting determined that the trolley reel was damaged, with two exposed wires that were causing electrical shorts. Replacement of the entire trolley reel was performed. Size reduction of Pencil Tank Assembly 126 (Tank 126) was completed and SWBs were dispositioned on November 19.
- Work continued on the mechanical isolation of the Miscellaneous Treatment (MT) gloveboxes. The Hazard Review Board (HRB) review of Work Package 12-2786, Mechanical Isolation of MT-4, MT-5 and MT-6 Gloveboxes in PRF, was completed on October 28, and the work package was released for work. Task 2 for the removal of nitrogen line piping, Task 3 for the removal of process air piping, Task 5 for the removal of the process vacuum line to the MT-5 glovebox, and Task 6 for the removal and disposal of the nitrogen Dewar and probe located below the MT-6 glovebox were completed.
- Work continued on removal of the PRF chemical lines and interferences preventing access to the third floor criticality drain. Installed temporary segregation containment in Corridor 31 to perform removal of third floor criticality drain interferences concurrently with pencil tank size reduction activities.
- Continued scraping, vacuuming, and wiping down the second floor level, PRF east gallery gloveboxes.
- Finished de-con and down-posting of the 242-Z Airlock.
- Initiated the electrical intrusive work in A-Labs.

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).	12/12/13	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	0	4	
Total Recordable Injuries	0	6	
First Aid Cases	3	42	<ul style="list-style-type: none"> • 11/7/13 – While donning respirator a foreign body entered employee's throat (23220). • 11/18/13 – Employee felt pain in the back of knee while walking/climbing (23228). • 11/25/13 – Employee cut finger installing a glovebox filter (23232).
Near Misses	0	0	N/A

KEY ACCOMPLISHMENTS

11.02 Maintain Safe & Compliant PFP

- Initiated replacement of aged motor EM-5 in 291-Z. It is expected that this replacement will be completed in December.

11.05 Disposition PFP Facility

242-Z

- Finished de-con and downposting of 242-Z Airlock.
- Initiated the electrical intrusive work in A-Labs.
- Continued development of work packages.

RMA

- Completed equipment removal, decontamination, fixative application, and separation of the HA-10 GB
- Continued removal of internal equipment from the middle level of the HA-9A GB
- Initiated removal of remnant E-4 ducting in Rooms 235A-2 and 235A-3
- Room 232 Scrubber Cell
 - o Completed entry into cell and installation of isolation plugs in tanks for Bank 2 and Bank 4 in support of future removal
 - o Applied fixative to interior surfaces of the cell

RMC

- For the HC-18BS, -5C, -18M (upper) glovebox assembly:
 - o Completed wet-wipe internal decontamination
 - o Completed NDA measurements for the GBs
- Commenced activation of gloveports in the HC-7 and HC-9 GBs in preparation for D&D work in those GBs
- Completed removal of the wall between Rooms 228-C and 230-A; this supports future GB removal from C-line
- Isolated and removed the HF manifold associated with the HC-9 GB
- Completed draining of the dilute nitric acid piping in Room 227

Backside Rooms

- Room 170 Hood D&D effort:
 - Completed NDA measurement for the hood
 - Completed separation of the hood from the E4 system and transfer to the Waste group for disposal as LLW
- Room 169 HA-40F GB D&D effort:
 - Calibrated D/P gages and commenced D&D work
 - Isolated and removed process-water and process-gas piping
 - Isolated and removed the remnant dry-chemical fire suppression piping
 - Isolated and removed the gas-sampling manifold
 - Commenced downsizing and removal of internal equipment

Plutonium Reclamation Facility (PRF)

- On October 31, the crane trolley lost the east and west movement function. Troubleshooting determined that one of the trolley fuses had failed. The fuse was replaced and the crane returned to service. Size reduction of Pencil Tank Assembly 127 (Tank 127) was initiated and is 2% complete. During size reduction of Tank 127 on November 1, three fuses were blown in the control cabinet, two for the hoist and one for the trolley. Troubleshooting determined that the trolley reel was damaged, with two exposed wires that were causing electrical shorts. Replacement of the entire trolley reel was performed. Size reduction of Pencil Tank Assembly 126 (Tank 126) was completed and SWBs were dispositioned on November 19.
- Work continued on the mechanical isolation of the Miscellaneous Treatment (MT) gloveboxes. The Hazard Review Board (HRB) review of Work Package 12-2786, Mechanical Isolation of MT-4, MT-5 and MT-6 Gloveboxes in PRF, was completed on October 28 and the work package was released for work. Task 2 for the removal of nitrogen line piping, Task 3 for the removal of process air piping, Task 5 for the removal of the process vacuum line to the MT-5 glovebox, and Task 6 for the removal and disposal of the nitrogen Dewar and probe located below the MT-6 glovebox were completed.
- Work continued on removal of PRF chemical lines and interferences preventing access to the third floor criticality drain. Installed temporary segregation containment in Corridor 31 to perform removal of third floor criticality drain interferences concurrently with pencil tank size reduction activities.
- Continued scraping, vacuuming, and wiping down the second floor level, PRF east gallery gloveboxes.

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 – On October 31, the crane trolley lost the east and west movement function. Troubleshooting determined that one of the trolley fuses had failed. The fuse was replaced and the crane returned to service. Size reduction of Pencil Tank Assembly 127 (Tank 127) was initiated and is 2% complete. During size reduction of Tank 127 on November 1, three fuses were blown in the control cabinet, two for the hoist and one for the trolley. Troubleshooting determined that the trolley reel was damaged, with two exposed wires that were causing electrical shorts. Replacement of the entire trolley reel was performed. Size reduction of Pencil Tank Assembly 126 (Tank 126) was completed and SWBs were dispositioned on November 19.

Status - This issue will no longer be reported to after the November reporting period.

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 $\leq 18''$ 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.

PFP will also evaluate additional alternate foaming agents to reduce the concerns with off gases and exothermic reaction that could cause a self-ignition.

Status –

During the month of November the Initiative to implement capabilities to foam components within 234-5Z, 242-Z, and 236-Z progressed.

- Readiness activities to allow for foaming at PFP started with the completion of RA field execution scheduled and the draft of the technical description
- Completed the hazard assessment identification process
- Final Fire Hazard Analysis report was received
- Successful discussion with WCH to perform work for others with Carter Environmental Services (CES) during the campaign efforts to foam selected components within PFP
- Tent 4 in PFP's laydown yard to allow for glovebox foaming mockup was completed
- Efforts continued to identify facility equipment routing through PFP
- PFWR was completed and a work turndown is needed. Meeting to be held on 12/9/13
- Held kick-off meeting to identify field teams to support work package development

Issue – During a value engineering study that was conducted in the spring of 2013, an initiative was initiated 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.

Corrective Action – Procurement of PremAire respirators 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 have been received. 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.			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 December .
PFP-062: Ability to Use Permafrix Northwest for Glovebox Size Reduction	An extension to the work turnaround will be requested from HAMTC.			A new work turnaround 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.			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. Issues 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 are ongoing with RL 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.			Negotiations were successful to extend respiratory protection time with the ratification of the Collective Bargaining Agreement effective November 11, 2013. The PFP project has implemented extended dives since implementation of the agreement, and longer stay times in the field are being realized. 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.

Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
RL-011/WBS 011				
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.			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.			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.
PFP-086: Alternate/Temporary System Capabilities Required Pier 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.

Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
RL-011/WBS 011				
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 Walk-downs and Work package development to improve interfaces within subprojects.	●	↔	Evaluation of additional field teams to start work in the duct level continued through the month of November . To mitigate schedule slippage characterization efforts are underway for E4 ducting/ Filter boxes to determine waste disposition paths.
PFP Demolition Risks				
PFP-DEMO-08: Experienced Demolition Crews	Initiate demo planning early to establish contracting mechanisms at least one year prior to the need to begin demolition activities in order to have contracts 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.	●	↑	After placing the PRF canyon crane back in service at the end of October, an issue with the cable reel was discovered during pencil tank activities on November 1st. A new cable reel was ordered and installed. The crane has passed functional checks and is back in service. Pencil tank size reduction activities are planned to resume starting November 25th.
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 panning 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 Glove Box Removal Risks				
<p>OPPORTUNITY: PFP-GB-01A: High Gram Box Disposition - FOAM</p>	<p>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.</p>			<p>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 November the following activities are as follows:</p> <ul style="list-style-type: none"> •Commenced Hazard assessment with RL participation •Completed SOW to support Readiness Activities – Subcontractor is now on site developing the technical description •Completed PFWR to foam components throughout 234-5Z and 236-Z – Need to perform a work shutdown for the actual foaming application •Held kickoff meeting to identify field teams to develop work packages/tooling design
<p>PFP-GB-05: Dose Rates for RMA/RMC Removal Higher than Planned</p>	<p>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.</p>			<p>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.</p> <p>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.</p>

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	8.5	6.9	7.8	(1.6)	-18.5%	(0.8)	-11.9%

Numbers are rounded to the nearest \$0.1M

CM Schedule Variance: (-\$1.6M/-18.5%)

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.

CM Cost Variance: (-\$0.8M/-11.9%)

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.

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	637.8	626.1	656.2	(11.7)	-1.8%	(30.1)	-4.8%	934.9	967.4	(32.5)

Numbers are rounded to the nearest \$0.1M

CTD Schedule Variance (-\$11.7M/-1.8%)

The CTD Schedule Variance is within reporting thresholds.

CTD Cost Variance (-\$30.1M/-4.8%)

The cost variance is within reporting thresholds.

Variance at Completion (-\$32.5M/-3.5%)

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 October to November 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		Spend Variance
	Projected Funding	Spending Forecast	
RL-0011	107.8	105.6	2.3

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 has been incorporated in this month's reporting. The Spending Forecast includes actions anticipated to achieve the reduced targets.

Critical Path Schedule

In order to accelerate project completion, building demolitions at PFP have been re-sequenced to better align with current building readiness dates. This re-sequencing has created two new parallel critical paths that lead into the beginning of demolition. The first new critical path at PFP consists of completing D&D work on the Backside Rooms/Labs area of 234-5Z. Once complete, the team will transition into the 234-5Z basement to perform all drain line removals, then grout all tunnels and cavities in the basement to ensure structural stability during demolition. After basement grouting is completed, final decontaminations will be performed throughout 234-5Z to ensure a ready for demo state.

The second new critical path involves removing contaminated Duct/Filter boxes, Process Transfer Lines, and Process Vacuum lines in the 234-5Z Duct Level. Once completed, this team will focus on removing materials prohibited during demolition. Finally, the team will perform final decontaminations throughout 234-5Z to get the building in a ready for demo state. At this point, both paths conjoin to kick-off the start demolition on 234-5Z, 242-Z, 242-ZA, and finally 236-Z, leading to completion of the final TPA Milestone – M-083-00A, *PFP Facility Transition and Selection Disposition Activities*.

Baseline Change Requests

BCR-PRC-14-002R0 - Hanford Rad Health & Safety Doc Revision CO206, Mod 286

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)



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

November 2013
CHPRC-2013-11, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

- Continuous Improvement – Sludge Treatment Project (STP) self-assessments and surveillances performed during the month. SURV-13027, *Material Control of FE&C Subcontractors*, was completed and CR-2013-2575 issued to better define the FE&C commercial grade dedication process. WSA-12998, *KW Basin Leak Determination Methods and Results* was completed and CR-2013-2548 issued to update the technical basis and methodology for performing the water loss calculation and to develop specific water loss criteria that will initiate the basin leak detection and mitigation procedure.
- Final comment resolution documents to formally document RL comment disposition into the Preliminary Documented Safety Analysis (PDSA) and Safety Design Strategy (SDS) are being prepared. RL has prepared a Safety Evaluation Report (SER) and approval letter to approve the PDSA and SDS. There are no open issues with either document.
- STP technical staff continued to evaluate 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 Containers (STSCs) required for transporting and storing K West Basin sludge by combining sludge from different engineered containers within an STSC and/or increasing the quantity of one sludge type added to a given STSC.
- While updating the PDSA, that is currently with RL for approval, could ultimately delay procurement of several process equipment skids, the cost benefit and system simplification resulting from implementation of these initiatives would be substantial. Initial activity planning continued this past week along with efforts to update draft white papers on the initiatives.
- The Integrated Process Optimization Demonstration (IPOD) demonstrations had success with completion of Interlocks I4/I5 demonstrations, I3 (emergency shutdown/transfer system), I2 (decant system shutdown), I1 (safety shutdown) demonstrations, and data logger channel calibrations. Maintenance and Storage Facility (MASF) Staff continued fabrication of control system multiplexer panels. The final truck scale calibration certificates from MPC were received.
- 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 more course simulant material. Testing with finer material added on top of the course material is currently being conducted with continued success of material removal. The K Basin garnet filter vessels are filled with three layers of different mesh sizes of sand.
- K West Annex Construction
 - Completed backfill activities, compacting and testing structural fill and installation of vapor barrier to support the slab placements on November 12, 2013 and November 25, 2013.
 - Completed the installation of mechanical piping and instrumentation control conduits below slab in support of concrete placements on November 12, 2013 and November 25, 2013.
 - Continued surface concrete repairs of loading bay walls.
 - Completed concrete placement on November 12, 2013. Placement included stem wall grade beam, door thresholds and first sand filter concrete.
 - Completed concrete placement on November 25, 2013. Placement included mechanical and HVAC slab, load out bay slab and doghouse Hose and Hose (HH) foundation.

- T Plant Design Work
 - o Work continued on design of T Plant modifications to receive sludge transfer and storage containers.
 - o Review and approval of the facility modification package releasing the design drawings for the containment, leveling frames, leak detectors, and several lifting devices continued.
 - o The change document for the water addition system continued in the review and approval cycle this week.
 - o The nitrogen purge system design drawings are being checked.
 - o Critical lift plans and engineering calculations continue to progress.
 - o Work continued on the functional criteria compliance matrix and preparation of the statements of work for future fabrication work and construction.
 - o The design report issued in 2001 is being updated to reflect current design.
- STP - 100K Operations Interface
 - o Received RL approval to perform in-situ termination of accountability for material in settlers, garnet filters and engineered sludge containers.
 - o Continued comment resolution of the contingency plan for fuel fragments to process as fuel.
 - o K West Basin criticality safety classification was formally downgraded to a limited control facility.
 - o Supported construction activities including concrete wall pours associated with ECRTS Annex Construction.
- STP - 100K Formality of Operations
 - o Work continues on PRC-PRO-OP-52694, "Conduct of Operations at 100K Facilities" as part of the continuous improvement process to improve formality of operations.
 - o Developed briefings to improve conduct of pre-shift briefings (managing conflict) and to improve interaction skills as scheduled in the Formality of Operations Improvement Plan. The initial briefing was completed in November.
- TPA Change Notice 579 was approved by RL and EPA. The change updates the Air Monitoring Plan in DOE/RL-2005-26 and removes the requirement to take and analyze monthly stack samples at Building 142K (Cold Vacuum Drying Facility) and in-place calls for estimating emissions as per 40CFR61 Appendix D as cited in WAC 246-247-075.

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	9	N/A
Near-Misses	0	0	N/A

KEY ACCOMPLISHMENTS

- The Integrated Process Optimization Demonstration (IPOD) demonstrations had success with completion of Interlocks I4/I5 demonstrations, I3 (emergency shutdown/transfer system), I2 (decant system shutdown), I1 (safety shutdown) demonstrations, and data logger channel calibrations. Maintenance and Storage Facility (MASF) Staff continued fabrication of control system multiplexer panels. The final truck scale calibration certificates from MPC were received.
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 - o Work continues on PRC-PRO-OP-52694, "Conduct of Operations at 100K Facilities" as part of the continuous improvement process to improve formality of operations.
 - o Developed briefings to improve conduct of pre-shift briefings (managing conflict) and to improve interaction skills as scheduled in the Formality of Operations Improvement Plan. The initial briefing was completed in November.

- TPA Change Notice 579 was approved by RL and EPA. The change updates the Air Monitoring Plan in DOE/RL-2005-26 and removes the requirement to take and analyze monthly stack samples at Building 142K (Cold Vacuum Drying Facility) and in-place calls for estimating emissions as per 40CFR61 Appendix D as cited in WAC 246-247-075.

MAJOR ISSUES

None currently identified.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

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

Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
RL-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.			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 ECRS 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.			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.			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.			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.			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	4.2	4.1	5.2	(0.1)	-2.0%	(1.1)	-27.29%

Numbers are rounded to the nearest \$0.1M

CM Schedule Performance (-\$0.1M/-2.0%)

Variance is within reporting thresholds.

CM Cost Performance (-\$1.1M/-27.3%)

The variance is primarily due to additional costs for the month associated with rework of concrete calculation design issues, constructability design issues and cold weather construction costs associated with adverse weather in the month.

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	391.0	390.8	399.7	(0.2)	-0.1%	(8.9)	-2.3%	690.5	699.1	(8.6)

Numbers are rounded to the nearest \$0.1M

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

Variance is within reporting thresholds.

CTD Cost Performance (-\$8.9M/-2.3%)

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		Spend Variance
	Projected Funding	Spending Forecast	
RL-0012	57.8	56.5	1.3

Numbers are rounded to the nearest \$0.1M.

Funds/Variance Analysis

The spend variance is the MR value which is funded, but is not in the project's EAC forecast.

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)



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

November 2013
CHPRC-2013-11, 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. Liquid Effluent Facilities (LEF) received 7 tankers, 26k gallons. Canister Storage Building (CSB) completed annual exhaust stack annual inspection. T Plant performed annual lock and tag review. Waste Receiving and Processing Facility (WRAP) completed PNNL In-Situ Object Counting System (ISOCS) testing.

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	3	N/A
First Aid Cases	3	36	<ul style="list-style-type: none"> 11/11/13 - Employee reported knee pain during a walk down. Body part affected: Knee (23225) 11/26/13 - Employee reported shoulder pain from performing radiological surveys. Body part affected: Shoulder (23233) 11/25/13 - Employee was using a knee scooter, lost balance and fell over. Body part affected: Elbow (23231)
Near Misses	0	0	N/A

KEY ACCOMPLISHMENTS

13.01 Project Management

- Continued Project Management support for high priority projects
- Finalized updates of FY2014 Performance Measurement Baseline to incorporate reduced funding levels

13.02 Capsule Storage & Disposition

- Continued with 10-ton crane brake repairs

13.03 Canister Storage Building (CSB)

- Completed:
 - Exhaust stack annual inspection
 - Annual GEMS-100 mass flow calibrations

- o Annual Interim Storage Cask inspections
- o MCO handling machine interlock channel tests
- o Monthly Technical Safety Requirement (TSR) and environmental preventive maintenance (PM)
- o Technical Safety Requirement (TSR) and environmental PM
- o Repair of operations area heating, ventilation and air conditioning return plenum

13.07 Waste Receiving and Processing Facility (WRAP)

- Completed:
 - o Continuous Air Monitor (CAM) detector repair field work and mid-interval calibration
 - o PNNL In-Situ Object Counting System (ISOCS) testing
 - o Washington Closure Hanford (WCH) Hanford Slab Counter (HSC) testing activities
 - o 14 Technical Safety Requirement (TSR) surveillances
 - o 19 Preventive Maintenance (PM) packages
 - o 82 Radiological (Rad) surveillances
 - o 41 Operational surveillances
 - o Shipped one shipment of hazardous waste totaling two drums to Clean Harbors

13.08 T Plant

- Installed Dangerous Waste Management Unit (DWMU) closure signs
- Completed:
 - o Annual lock and tag review
 - o Three TSR surveillances
 - o 286 Rad surveillances
 - o 16 PM packages
 - o 205 Operational surveillances
- Shipments:
 - o Completed one shipment of mixed low-level waste (MLLW) totaling two drums of aerosol cans to PermaFix Northwest (PFNW)

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

- Completed overpack operations for five waste drums that were determined to have enough corrosion necessitating their entry into the Abnormal Container Management Program (ACMP)
- Completed:
 - o Six TSR surveillances
 - o 20 PM packages
 - o 147 Rad surveillances
 - o 61 Operational surveillances
- Shipments:
 - o Received five shipments totaling 29 drums and two standard waste boxes (SWBs) of transuranic mixed (TRU/M) waste from Plutonium Finishing Plant (PFP)
 - o Received one shipment (large container repacks) totaling four SWBs of TRU/M waste from PFNW

13.11 Liquid Effluent Facilities (LEF)

- Annual tank inspections on schedule to support startup of processing Basin 42
- Completed change out of vapor compressor
- BCR-013-14-003R0 was approved moving the procurement and replacement of heat exchanger to FY15 to align with reduced CHPRC funding level and DOE-RL priorities
 - o Canceled Request for Proposal (RFP) for replacement heat exchanger
- Performed weekly cold weather protection surveillances
- Received 89 tankers:
 - o 408K gallons (calendar year [CY])
- Treated effluent to State-Approved Land Disposal Site:

- o 0.6M gallons (8.0M CY)
- Discharged to 200A Treated Effluent Disposal Facility (TEDF):
 - o 2.70M gallons (25.3M CY)
- Received Environmental Restoration Disposal Facility (ERDF) Leachate
 - o 270K gallons (2.08M CY)

Liquid Effluent Retention Facility (LERF) Basin activities

- **All Basins**
 - o Continued with surveys/posting verification activities
 - o Completed monthly inspections with no cover breaches identified
- **Basin 44:**
 - o Completed vegetation removal
 - o Completed water removal
 - o Removed 5,000 pounds of soil
- **Basin 43**
 - o Completed water removal
- **Basin 42:**
 - o Completed vegetation removal
 - o Completed water removal
 - o Removed 3,000 pounds of soil

13.12 Integrated Disposal Facility

- Completed 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
 - o One TSR surveillance
 - o 16 Rad surveillances
 - o Four Operational surveillances
- Shipments
 - o Received three shipments of MLLW totaling 10 boxes and one drum from PFNW and disposed in Trenches 31 and 34

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.			BCR implemented in November to incorporate Mod 299 for EPA Consent Agreement and Final Order. Ecology Agreed Order continues in discussion with the regulators.
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.			Forecasted volumes from CHPRC Projects may not allow commercial capability to remain viable. Working with vendor(s) to understand impacts. Contractor continuing to process waste received.
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.			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 routine surveillances (daily/weekly) of containers within the SWOC storage areas and identify abnormalities. Develop a "watch-list" for containers that have existing corrosion to monitor for signs of accelerated corrosion. Develop plans for dealing with degraded/abnormal containers. Discrepant containers may require additional monitoring, patching, covering or overpack as required. If a breach is identified, implement response procedures and perform response actions as appropriate.			Legacy containers in expansion area are requiring additional resources. FY-2014 containers identified for covering. In October, several drums within the CWC were observed with corrosion and overpacked. In November an additional five waste drums that were determined to have enough corrosion necessitating their entry into the Abnormal Container Management Program (ACMP) were overpacked. Additional containers are on the "Watch-List".
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.			<ul style="list-style-type: none"> • LERF cover cleaning halted for weather. Continuing to monitor for signs of leakage. • ETF Heat Exchanger procurement initiated in October. FY14 RL priorities necessitated the cancellation of the procurement and deferral (including installation) to FY15. • Continuing to experience greater than planned maintenance at ETF and LERF. • WESF roof replacement complete – Punch list items to be completed in spring.
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.			<ul style="list-style-type: none"> • Working with RL on Ecology 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	6.7	7.5	6.7	0.8	12.1%	0.9	11.3%

Numbers are rounded to the nearest \$0.1M

CM Schedule Performance (\$+0.8M/+12.1%)

The current period favorable schedule variance is primarily the result of the return of repackaged TRU waste from commercial repackaging which was planned & scheduled for October.

CM Cost Performance (+\$0.9M/+11.3%)

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	803.3	803.3	783.9	(0.0)	-0.0%	19.4	2.4%	1,325.0	1,258.7	66.4

Numbers are rounded to the nearest \$0.1M

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

The schedule variance is within threshold.

CTD Cost Performance (+\$19.4M/+2.4%)

The favorable cost variance is within threshold.

Estimate at Completion (EAC)

The BAC and EAC include FY2009 through FY2018.

The change in EAC from October to November 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	Spending Forecast	Spend Variance
RL-0013	78.3	78.0	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 has been incorporated in this 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-013-14-002R0 – *EPA Consent Agreement and Final Order (CAFO)*

BCR-013-14-003R0 – *ETF Heat Exchanger*

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-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

November 2013
CHPRC-2013-11, 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 November includes the following:

Treatment Facility	Million Gallons Treated		Chrome (kg)		Carbon Tet (kg)		Nitrate as N (kg)		Tech-99 (pCi)	
	CM	FYTD	CM	FYTD	CM	FYTD	CM	FYTD	CM	FYTD
DX P&T	26.1	51.6	24.0	45.7	-	-	-	-	-	-
HX P&T	24.0	47.9	2.5	5.0	-	-	-	-	-	-
KR-4 P&T	10.8	23.0	0.4	0.9	-	-	-	-	-	-
KW P&T	13.1	26.2	1.6	3.1	-	-	-	-	-	-
KX P&T	21.3	43.0	2.3	4.3	-	-	-	-	-	-
200 West P&T	59.8	103.4	6.1	9.7	222	389	4,827	7,793	1.02x10 ¹¹	1.15x10 ¹¹
Combined	155	295	36.9	68.8	222	389	4,827	7,793	1.02x10¹¹	1.15x10¹¹

Sampling	November	FY2014 Cumulative
Well Sampling Events	184	361
Aquifer Tube Sampling Events	15	77
Total Number of Sampling Events	199	438
Samples Collected	1,208	1,817
Analyses Performed	2,277	3,702

EMS Objectives and Target Status

FY2014 Objectives and Targets are in signature finalization

Objective #	Objective	Target	Due Date	Status
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	25% complete
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	295M gallons treated through 11/30/13

Objective #	Objective	Target	Due Date	Status
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	25% complete
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 TPA Change Notice to DOE, EPA, and Ecology.	Status at completion	25% complete

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	2	24	<p>11/8/2013 - Employee was relocating (dragging) water hose when she felt a "tweak" in her upper left arm. Employee was taken to HPMC and returned to work without restrictions. S&GRP (23223)</p> <p>11/11/2013 - Employee fell while walking on transition from parking lot to gravel roadway. Treated at HPMC and returned to work without restrictions. S&GRP (23222)</p>
Near-Misses	0	3	N/A

KEY ACCOMPLISHMENTS

RL-0030.O1 RL 30 Operations

RL 30 Integration & Assessments

Technical Integration

- **TC&WM EIS Model Transition** – Transition complete. Model validated and under configuration control. Close-out report to DOE-RL in route.
- **Leapfrog Hydro** – Completed an update to Leapfrog Hydro which greatly improves resolution for our geologic framework models (resolution increased from 100 m to 20 m).

DOE O 435.1 Assessments

- **IDF Performance Assessment** – Conducted the fourth in a series of weekly technical interface

meeting with WRPS, ORP, and RL on the upcoming IDF PA revision. The last meeting focused on the Summary Analysis as a tool for demonstrating consistency with the Tank Closure & Waste Management EIS models in developing the Performance Assessment modeling approach.

- **Hanford Site Composite Analysis Annual Status Report** – All contributions have been received and incorporated except for feeds from the LLBG PA and IDF PA annual status updates. With these exceptions, the summary report draft is complete. Revision 0 of this report is due to RL on December 31, 2013.

River Corridor

100-BC-5 Operable Unit

- Drilling was completed on four boreholes and construction of the monitoring wells commenced. These wells are being installed as part of TPA milestone M-015-76 due February 28, 2014.
- The first round of high frequency sampling for the 8 aquifer tubes was completed.

300-FF-5 Operable Unit

- The 300-FF-1 OU, 300-FF-2 OU, and 300-FF-5 OU Record of Decision was signed on November 26, 2013.

Central Plateau

200 West Pump and Treat

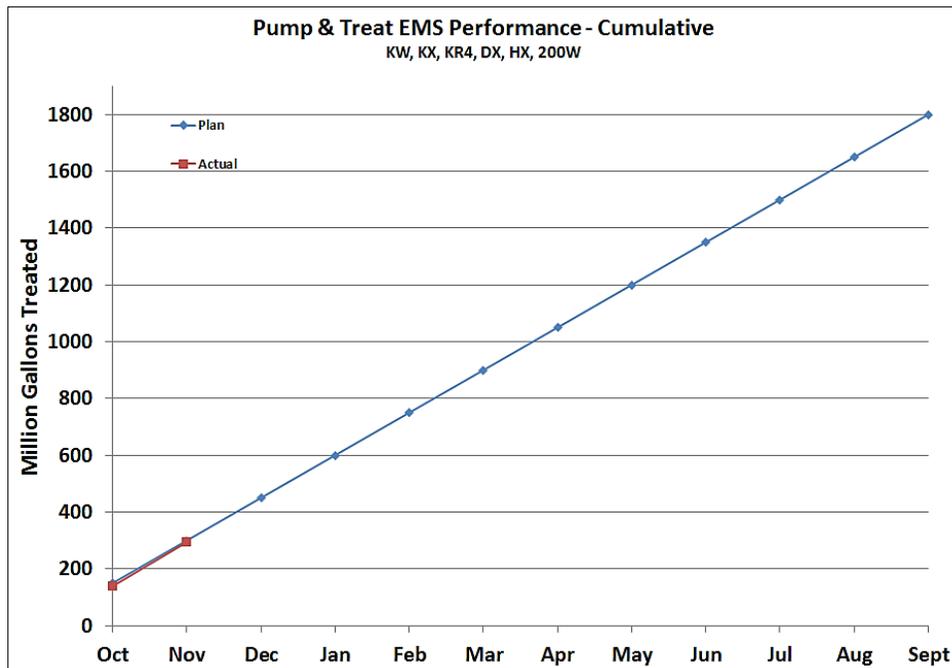
- Average pumping rate for November was 1,107 gpm. As a result of the re-development of many of the 200 West P&T injection wells, pumping rates in the latter part of November increased to ~1,500 gpm. It is anticipated that average December pumping rates will show an increase over past months.
- Effluent concentrations remain below cleanup levels specified in Record of Decision.
- A second unplanned shutdown occurred the morning of November 8, 2013, when the injection manifold building shut down due to high pressure on the booster pump discharge. The plant was restarted several hours later after adjustments were made.
- One unplanned shutdown occurred November 19, 2013, when the level transmitter for injection well IW-2 failed. The plant was restarted three hours later after repairs were made.

200-DV-1 Operable Unit

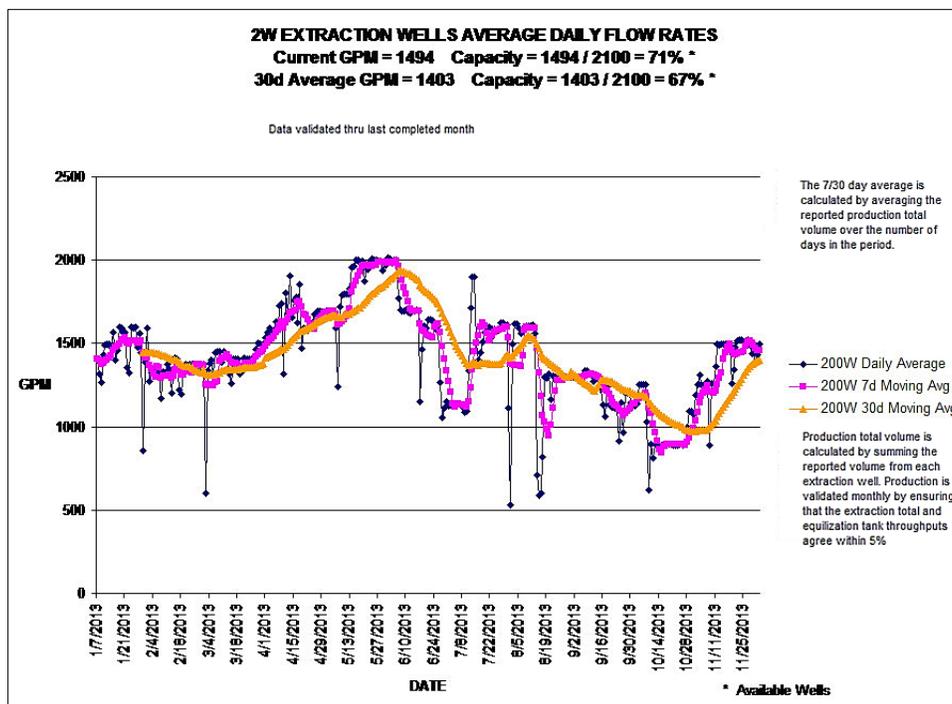
- The B Area perched water extraction system removed 6,662 gallons in November, bringing the total volume of perched water removed to 170,169 gallons since initiating operations on August 30, 2011. The following quantities of contaminants were removed for the month of November:

Contaminant	November	Cumulative (since startup)
Tc-99	8E-04 Ci	20.2E-03 Ci
Uranium	2.7 kilograms	28.8 kilograms
Nitrates	12 kilograms	352.7 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. EPA has stipulated that these results are required to be incorporated into the RI/FS prior to Rev. 0 signatures. These activities are currently planned in PBS 41 as non-contract work scope that will be implemented in FY2015. This delay in completing the characterization impacts the RI/FS, Record of Decision (ROD), and remedy implementation.

Corrective Action – Complete the 100-K East Reactor waste site characterization wells and modeling so the RI/FS can be completed.

Status – The recent FY2014 PMB update included the K-East Reactor waste site characterization wells as non-contract work scope within FY2015 target funding for PBS 41. RL and CHPRC are working to resolve scope and schedule associated with 116-KE-3 and UPR-100-K-1 waste site characterization and the resultant modeling activities such that activities can be planned in the PMB. Coordinating with RL to determine the previous agreements with EPA regarding commitment to perform characterization and the associated schedule.

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	
SGW-045: Regulator Comments Change Requirements	Routine meetings to remain current on influences from regulators, and provide technical justification for proposed path forward.			Continue to work open issues with RL and Ecology. Significant progress has been achieved over the past month. A successful meeting was held between RL and Ecology on November 13, 2013.
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.			Transition complete. Model validated and under configuration control. Close-out report to DOE-RL in route. Transition mitigation strategy successful – risk passed.
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.			Transition complete. Model validated and under configuration control. Close-out report to DOE-RL in route. Transition mitigation strategy successful – risk passed.
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.

Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
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	To minimize the chances of major equipment failure, currently utilizing an aggressive Corrective Maintenance program and ensuring staff are thoroughly trained on new equipment.	●	↔	Pump and Treat plants operating as designed. 200-West P&T continuing to experience higher than planned maintenance due to injection well bio-fouling and instrumentation issues.

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)	7.5	7.4	7.4	(0.1)	-0.8	0.0	0.7
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	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
Total	7.5	7.4	7.4	(0.1)	-0.8	0.0	0.5

Numbers are rounded to the nearest \$0.1M.

CM Schedule Performance (-\$0.1M/-0.8%) is within reporting thresholds.

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

RL-0030.O1 RL 30 Operations (-\$0.0M/-0.8%)

Drilling (-\$0.3M)

Drilling activities in KR-4, M-24, and BC-5 have been delayed due to issues with cultural and ecological reviews. Also, drilling on BC-5 is taking longer due to encountering boulders during drilling.

CM Cost Performance (+\$0.0M/+0.5%) is within reporting thresholds.

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

RL-0030.O1 RL 30 Operations (+\$0.0M/+0.7%)

Drilling (-\$0.3M)

The current month overrun in drilling is related to issues encountered in road and pad installations for KR-4 and M-24. In addition, the BC-5 well drilling is costing more as a result of boulders that have been encountered in the drilling effort.

GW Monitoring and Perf. Assessments (+\$0.4M)

Efficiencies are being obtained in the overall geophysical logging support activities. The geophysical logging efficiencies are expected to continue throughout the fiscal year.

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	87.1	(0.0)	-0.0	(13.7)	-18.6	73.4	87.0	(13.7)
RL-0030.O1 RL 30 (Operations)	579.1	577.2	560.8	(1.8)	-0.3	16.4	2.8	1,148.6	1,131.7	16.9
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	<u>51.4</u>	<u>51.4</u>	<u>51.1</u>	<u>(0.0)</u>	<u>-0.0</u>	<u>0.3</u>	<u>0.5</u>	<u>51.4</u>	<u>51.1</u>	<u>0.3</u>
Total	919.6	917.7	911.7	(1.8)	-0.2	6.0	0.7	1,489.1	1,482.6	6.4

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/+2.8%)

Integration and Assessments (+\$6.8M)

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 (-\$2.9M)

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. In addition, current year negative cost impacts for M-24 (road installations) and BC-5 (drilling impacts due to boulders) have impacted the CTD variance.

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 (+\$3.4M)

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 (+\$3.4M)

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-5 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)

RL-0030 Soil and Groundwater Remediation	FY2014		
	Projected Funding	Spending Forecast	Spend Variance
RL-0030	109.5	107.8	1.7

Numbers are rounded to the nearest \$0.1M.

Funds/Variance Analysis

FY2014 work authorization received from RL reflects revised projected funding of \$374.5M. 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-030-14-001R0 – *RL-30 Revised FY14 Budget Amount.*

FY2014 Management Reserve (Funded): \$0.75M

No Management Reserve was used during November.

MILESTONE STATUS

Tri-Party Agreement (TPA) milestones represent significant achievements in project execution. Enforceable TPA 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 TPA milestones. The following table is a one year look ahead of TPA enforceable milestones, non-enforceable target due dates and commitments.

Number	Title	Type	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	TPA	11/30/13	10/14/13		Milestone was achieved on October 14, 2013. The RL completion letter was sent on November 29, 2013
M-091-40L-040	PMM Submittal Jul-Sep 4th Qtr. FY2013 Burial Ground Sample Results	TPA	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	TPA	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	TPA	2/28/14			14-AMRP-0033 notified Regulators on November 15, 2013, that this milestone is at risk of not being met and 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	TPA	2/28/14			14-AMRP-0033 notified Regulators on November 15, 2013, that this milestone is at risk of not being met and has been identified for re-planning during the upcoming agency discussions. Forecast date TBD.

Number	Title	Type	Due Date	Actual Date	Forecast Date	Status/ Comment
M-091-40L-041	PMM Submittal Oct-Dec 1st Qtr. FY2014 Burial Ground Sample Results	TPA	3/15/14		3/15/14	On schedule
M-024-58G	Initiate Discussions of Well Commitments	TPA	6/1/14		6/1/14	On schedule
M-091-40L-042	PMM Submittal Jan-Mar 2nd Qtr. FY2014 Burial Ground Sample Results	TPA	6/15/14		6/15/14	On schedule
M-037-02	Submit Revised Closure Plans for Five Specified TSD Units	TPA	6/30/14			Milestone is not funded in FY2014 and will be replanned as part of upcoming agency discussions.
M-024-65-T01	Conclude Discussions of Well Commitments	TPA	8/1/14		8/1/14	On schedule
M-091-40L-043	PMM Submittal Apr-Jun 3rd Qtr. FY2014 Burial Ground Sample Results	TPA	9/15/14		9/15/14	On schedule
M-015-38B	Submit Revised FS & PP for CW-1, -CW-3, & OA-1	TPA	10/30/14			Milestone is not funded in FY2014 and will 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)



L. T. Blackford
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November 2013
CHPRC-2013-11, 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 68 radiological facility surveillances, and completed 29 preventive maintenance (PM) activities. Commenced Reduction-Oxidation S Plant (REDOX) surveillance.

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 System (WIDS) site housekeeping (weed spraying)
- Completed 200 West tri-annual surveillances
- Commenced Reduction-Oxidation S Plant (REDOX) surveillance
- Completed the following:
 - o 68 radiological facility surveillances
 - o 29 preventive maintenance (PM) activities
- Conducted 200 East tri-annual surveillances
- Completed 224-T annual surveillances
- Supported 200 East/West Site exercise

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-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. Completed surveillance of the 200 East/West abandoned Steam Lines. Report in progress.
D4-067: Increased Asbestos Abatement	Minimal pre-mitigation is possible. Conduct asbestos abatement to maintain a safe and complaint work site.			BCR processed to add scope for PUREX Tank Asbestos remediation.

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	0.8	0.8	0.7	-0.0	-0.6%	0.1	10.2%

Numbers are rounded to the nearest \$0.1M

CM Schedule Performance: (-\$0.0M/-0.6%)

Variance is within threshold.

CM Cost Performance: (+\$0.1M/+10.2%)

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	348.4	(0.0)	-0.0%	29.3	7.8%	485.2	453.4	31.7

Numbers are rounded to the nearest \$0.1M

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

Variance is within threshold.

CTD Cost Performance: (+\$29.3M/+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)

WBS 040/RL-0040 Nuclear Facility D&D	FY2014		
	Projected Funding	Spending Forecast	Spend Variance
RL-0040	11.1	10.7	0.5

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 has been incorporated in this 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-040-14-001R0 – *PUREX Tank Asbestos Remediation.*

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)



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November 2013
CHPRC-2013-11, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

Completed revisions to the 105KE Facility Hazard Categorization (FHC) document transmitted to DOE-RL for review. Initiated update of the 105KE Surveillance and Maintenance (S&M) Plan. Performed RMA/WID Site S&M.

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.
 - o Project Review Council (PRC) meeting was held with the review of the Documented Safety Analysis (DSA) for downgrading to a Final Hazard Categorization (FHC).
 - o Review of final report was completed and approved by DOE
 - o Waiting on new “ Fire Protection” procedure for implementation to finalize Final Hazard Categorization (FHC) report
- Surveillances
 - o Radiological – 15
 - o WIDS - 11
- Initiated update of the 105KE Surveillance and Maintenance (S&M) Plan

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				
WSR-047: Unforeseen Waste Site Event	Perform routine surveillances and maintenance of waste sites including herbicide application.			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.			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%	0.5	76.2%

Numbers are rounded to the nearest \$0.1M

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

The variance is within reporting threshold.

CM Cost Performance (+\$0.5M/+76.2%)

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	302.8	302.8	280.2	0.0	0.0%	22.6	7.5%	390.5	368.3	22.2

Numbers are rounded to the nearest \$0.1M

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

The schedule variance is within threshold.

CTD Cost Performance (+\$22.6M/+7.5%)

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)

WBS 041/RL-0041 Nuclear Facility D&D – River Corridor	FY2014		
	Projected Funding	Spending Forecast	Spend Variance
RL-0041	7.6	7.4	0.2

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 has been incorporated in this 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)



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November 2013
CHPRC-2013-11, 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
 - o 400 Area Septic System
 - Awarded contract to subcontractor for septic system
 - Satisfactory leak test of the existing (old) 400 Area septic tank
 - Received permit from Washington State Department of Health (WDOH) for septic installation
 - o Four PM activities/operational surveillances
 - o Four radiological surveillances
 - o Two universal waste shipments from 400 Area 440 pad to recycle center

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 estimated to be completed in December.

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 – Material will be relocated to Building 4802 when resources are available.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

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

Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
RL-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).			Work is progressing and scheduled to cease discharge to Energy Northwest by the end of December.

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	12.0%	0.1	28.1%

Numbers are rounded to the nearest \$0.1M

CM Schedule Performance: (+\$0.0M/+12.0%)

The current period schedule variance is within thresholds.

CM Cost Performance: (+\$0.1M/+28.1%)

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	16.3	16.3	13.7	0.0	0.2%	2.6	16.0%	26.5	24.6	1.9

Numbers are rounded to the nearest \$0.1M

CTD Schedule Performance (+\$0.0M/+0.2%)

The schedule variance is within reporting thresholds.

CTD Cost Performance (+\$2.6M/+16.0%)

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 October to November is within reporting thresholds.

Contract Performance Report Formats are provided in Appendix A.

FUNDS VS. SPEND FORECAST (\$M)

RL-0042 FFTF Closure	FY2014		
	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 has been incorporated in this 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

None currently identified.

MILESTONE STATUS

None currently identified.

SELF-PERFORMED WORK

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

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.

Appendix A

Contract Performance Reports

Format 1 - Work Breakdown Structure

Format 2 - Organizational Categories

Format 3 - Baseline

Format 4 - Staffing

Format 5 - Explanation and Problem Analysis



November 2013
CHPRC-2013-11, 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 / 28							
b. LOCATION (Address and ZIP Code) Richland, WA			b. NUMBER RL14788			b. PHASE			b. TO (YYYYMMDD) 2013 / 11 / 24							
			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						
	5,452,982	11,889		227,757	5,680,739	5,550,299	5,680,739	5,550,299								
6. ESTIMATED COST AT COMPLETION										7. AUTHORIZED CONTRACTOR REPRESENTATIVE						
			MANAGEMENT ESTIMATE AT COMPLETION (1)		CONTRACT BUDGET BASE (2)		VARIANCE (3)			a. NAME (Last, First, Middle Initial) Bang, M.V.			b. TITLE Prime Contract Manager			
a. BEST CASE			5,248,019							c. SIGNATURE			d. DATE SIGNED 11/24/2013			
b. WORST CASE			5,416,172													
c. MOST LIKELY			5,322,542		5,464,871		142,329									
8. PERFORMANCE DATA																
WBS[1] ITEM (1)	CURRENT PERIOD					CUMULATIVE TO DATE					REPROGRAMMING ADJUSTMENTS			AT COMPLETION		
	BUDGETED COST		ACTUAL COST WORK PERFORMED (4)	VARIANCE		BUDGETED COST		ACTUAL COST WORK PERFORMED (9)	VARIANCE		COST VARIANCE (12a)	SCHEDULE VARIANCE (12b)	BUDGET (13)	BUDGETED (14)	ESTIMATED (15)	VARIANCE (16)
	WORK SCHEDULED (2)	WORK PERFORMED (3)		SCHEDULE (5)	COST (6)	WORK SCHEDULED (7)	WORK PERFORMED (8)		SCHEDULE (10)	COST (11)						
011 RL-11 NM Stabilization and Disposition PFP	8,514	6,935	7,759	(1,579)	(824)	637,819	626,071	656,192	(11,748)	(30,121)	0	0	0	934,880	967,385	(32,504)
012 RL-12 SNF Stabilization and Disposition	4,159	4,075	5,187	(83)	(1,112)	391,012	390,807	399,698	(205)	(8,891)	0	0	0	690,504	694,679	(4,175)
013 RL-13 Solid Waste Stabilization & Disposition	6,712	7,526	6,676	814	850	803,326	803,319	783,919	(7)	19,399	0	0	0	1,325,062	1,257,103	67,959
030 RL-30 Soil & Wtr Remediatn Grndwtr/Vadose Zone	7,496	7,438	7,403	(57)	36	919,593	917,758	911,751	(1,835)	6,008	0	0	0	1,489,111	1,482,626	6,485
040 RL-40 Nuclear Facility D&D Remainder of Hanford	791	786	705	(5)	81	377,753	377,743	348,416	(11)	29,326	0	0	0	485,175	453,275	31,901
041 RL-41 Nuclear Facility D&D - River Corridor	601	601	143	0	458	302,847	302,847	280,249	0	22,598	0	0	0	390,453	368,386	22,066
042 RL-42 FFTF Closure	168	188	135	20	53	16,284	16,324	13,710	41	2,615	0	0	0	26,464	24,565	1,899
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	28,439	27,549	28,008	(890)	(459)	3,448,635	3,434,869	3,393,935	(13,765)	40,934	0	0	0	5,341,649	5,248,019	93,631
f. Management Reserve	74,523															
g. Total	28,439	27,549	28,008	(890)	(459)	3,448,635	3,434,869	3,393,935	(13,765)	40,934	0	0	0	5,416,172		
9. Reconciliation to CBB																
a. Variance Adjustment																
b. Total Contract Variance										(13,765)	40,934					

Block 5a-h differences, if any, to B.4-1 Table values are addressed by in-process BCR(s).

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 / 28							
b. LOCATION (Address and ZIP Code) Richland, WA			b. NUMBER RL14788			b. PHASE			b. TO (YYYYMMDD) 2013 / 11 / 24							
c. TYPE CPAF			d. SHARE RATIO			c. EVMS ACCEPTANCE NO YES X 9/18/2009										
5. PERFORMANCE DATA																
FOC ITEM (1)	CURRENT PERIOD					CUMULATIVE TO DATE					REPROGRAMMING ADJUSTMENTS			AT COMPLETION		
	BUDGETED COST		ACTUAL COST WORK PERFORMED	VARIANCE		BUDGETED COST		ACTUAL COST WORK PERFORMED	VARIANCE		COST VARIANCE (12a)	SCHEDULE VARIANCE (12b)	BUDGET (13)	BUDGETED (14)	ESTIMATED (15)	VARIANCE (16)
	WORK SCHEDULED (2)	WORK PERFORMED (3)	WORK PERFORMED (4)	SCHEDULE (5)	COST (6)	WORK SCHEDULED (7)	WORK PERFORMED (8)	WORK PERFORMED (9)	SCHEDULE (10)	COST (11)						
30A - Project Services & Support																
011.A - Proj Services & Support	0	0	0	0	0	62,534	62,534	54,914	0	7,619	0	0	0	62,534	54,914	7,619
012.A - Proj Services & Support	0	0	0	0	0	30,631	30,631	29,037	0	1,594	0	0	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	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	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	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	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	1,604	1,492	112	
	0	0	0	0	0	324,047	324,047	295,756	0	28,291	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	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	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	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	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	12,155	10,176	1,979	
	0	0	0	0	0	67,718	67,718	69,727	0	(2,008)	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	950	1,230	(280)	
012.A2 - PSD R&RP	0	0	0	0	0	0	0	1,409	0	(1,409)	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	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	989	3,154	(2,164)	
040.A2 - PSD R&RP	0	0	0	0	0	1,076	1,076	705	0	371	0	0	1,076	705	371	
041.A2 - PSD R&RP	0	0	0	0	0	854	854	604	0	250	0	0	854	604	250	
042.A2 - PSD R&RP	0	0	0	0	0	0	0	22	0	(22)	0	0	0	22	(22)	
	0	0	0	0	0	5,000	5,000	9,417	0	(4,417)	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	2,996	2,996	0	
012.A3 - PSD WFR	0	0	0	0	0	22	22	22	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	12,490	12,490	0	
040.A3 - PSD WFR	0	0	0	0	0	2,053	2,053	2,053	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	2,568	2,568	0	
	0	0	0	0	0	20,128	20,128	20,128	0	0	0	0	20,128	20,128	0	
34 - Environmental Prog & Strategic Planning																
030.2 - Envr Prog & Strategic Planning	449	449	403	0	47	43,058	43,058	39,467	0	3,592	0	0	82,660	78,518	4,141	
	449	449	403	0	47	43,058	43,058	39,467	0	3,592	0	0	82,660	78,518	4,141	
35 - Business Services																
012.3 - Transition (PTB)	0	0	0	0	0	21,768	21,768	21,768	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	23,047	23,520	(473)	
	0	0	0	0	0	44,816	44,816	45,288	0	(473)	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	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	1,488	2,083	(595)	
013.7W - PRC WFR	0	0	0	0	0	1,947	1,947	1,650	0	296	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	1,895	3,057	(1,162)	
040.7W - PRC WFR	0	0	0	0	0	253	253	206	0	47	0	0	253	410	(157)	
041.7W - PRC WFR	0	0	0	0	0	358	358	228	0	131	0	0	358	316	42	
042.7W - PRC WFR	0	0	0	0	0	37	37	27	0	10	0	0	37	72	(35)	
	0	0	0	0	0	8,184	8,184	6,412	0	1,772	0	0	8,183	13,308	(5,125)	
38 - Project Technical Services																
030.3 - EPC - Groundwater	0	0	14	0	(14)	273,050	273,050	292,959	0	(19,909)	0	0	273,050	292,959	(19,909)	
	0	0	14	0	(14)	273,050	273,050	292,959	0	(19,909)	0	0	273,050	292,959	(19,909)	
3B - PFP Closure, BOS & Infrastructure																
011.1 - Plutonium Finishing Plant	8,514	6,935	7,759	(1,579)	(824)	552,573	540,825	578,068	(11,748)	(37,243)	0	0	849,634	887,015	(37,381)	
	8,514	6,935	7,759	(1,579)	(824)	552,573	540,825	578,068	(11,748)	(37,243)	0	0	849,634	887,015	(37,381)	
3C - W&FMP/D&D Project																
012.1 - 100 K Area Project	1,681	1,681	1,810	0	(130)	148,746	148,746	144,529	0	4,217	0	0	263,257	258,357	4,899	
012.2 - Sludge Treatment Project	2,478	2,394	3,377	(83)	(982)	188,357	188,152	201,849	(205)	(13,697)	0	0	373,338	382,003	(8,665)	
013.1 - Waste Management	6,712	7,526	6,676	814	850	696,458	696,451	676,497	(7)	19,954	0	0	1,218,194	1,148,142	70,052	
040.1 - PRC D&D	0	0	12	0	(12)	191,578	191,578	187,861	(0)	3,718	0	0	226,456	222,571	3,885	
040.2 - D&D Fac Waste Site Remediation	0	0	0	0	0	67,594	67,594	60,123	0	7,471	0	0	90,851	83,381	7,471	
041.1 - River Zone	601	601	143	0	458	249,954	249,954	236,748	0	13,206	0	0	337,560	324,797	12,762	
042.1 - FFTF	168	188	135	20	53	14,643	14,683	12,168	41	2,515	0	0	24,823	22,978	1,845	
040.3 - PRC Fac & Waste Site Maint	791	786	693	(5)	93	47,061	47,050	42,042	(11)	5,008	0	0	96,348	88,729	7,620	
	12,430	13,176	12,847	746	329	1,604,390	1,604,208	1,561,817	(182)	42,392	0	0	2,630,827	2,530,958	99,868	
3D - Soil & Groundwater Remediation																
030.1 - Soil & GW Remediation	7,046	6,989	6,986	(57)	3	505,670	503,835	474,898	(1,835)	28,937	0	0	1,035,586	1,004,945	30,641	
	7,046	6,989	6,986	(57)	3	505,670	503,835	474,898	(1,835)	28,937	0	0	1,035,586	1,004,945	30,641	
b. Cost of Money	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	
d. Undist. Budget																
e. Sub Total	28,439	27,549	28,008	(890)	(459)	3,448,634	3,434,869	3,393,936	(13,765)	40,934	0	0	5,341,648	5,248,019	93,630	
f. Management Resrv.													74,523			
g. Total	28,439	27,549	28,008	(890)	(459)	3,448,634	3,434,869	3,393,936	(13,765)	40,934	0	0	5,416,172			

FORMAT 3, DD FORM 2734/3, BASELINE

November 2013 Monthly Report

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: 2013/10/28 b. TO: 2013/11/24			
5. CONTRACT DATA																		
a. ORIGINAL NEGOTIATED COST 4,312,366				b. NEGOTIATED CONTRACT CHANGE \$1,140,616		c. CURRENT NEGOTIATED COST (A + B) \$5,452,982		d. ESTIMATED COST AUTH UNPRICED WORK \$11,889		e. CONTRACT BUDGET BASE (C + D) \$5,464,871			f. TOTAL ALLOCATED BUDGET \$5,416,172			g. DIFFERENCE (E - F) \$48,699		
h. CONTRACT START DATE 6/19/2008				i. DEFINITIZATION DATE 6/19/2008			j. PLANNED COMPL DATE 9/30/2018			k. CONT COMPLETION DATE 9/30/2018			l. EST COMPLETION DATE 9/30/2018					
6. PERFORMANCE DATA																		
ITEM (1)	BCWS CUM TO DATE (2)	BCWS FOR REPORT PERIOD (3)	BUDGETED COST FOR WORK SCHEDULED (NON - CUMULATIVE)										UNDISTRIB BUDGET (17)	TOTAL BUDGET (18)				
			SIX MONTH FORECAST						FY09 (10)	FY10 (11)	FY11 (12)	FY12 (13)			FY13 (14)	FY14 (15)	FY15-18 (16)	
			+1 Dec-13 (4)	+2 Jan-14 (5)	+3 Feb-14 (6)	+4 Mar-14 (7)	+5 Apr-14 (8)	+6 May-14 (9)										
a. PM BASELINE (BEGIN OF PERIOD)																		
	3,420,195	28,719	25,966	33,325	28,857	30,697	29,767	37,526	653,426	960,017	1,002,105	428,688	347,240	386,888	1,560,194	0	5,338,559	
b. BASELINE CHANGES AUTH DURING REPORT PERIOD																		
BCR-012-14-001R0 - PBS 12 Revised PMB to DOE FY14 Revised Funding Guidance																		
														(7,277)	9,398	0	2,121	
BCR-013-14-002R0 - EPA Consent Agreement and Final Order (CAFO)																		
														49	0	0	49	
BCR-013-14-003R0 - ETF Heat Exchanger Deferral																		
														(2,722)	2,737	0	15	
BCR-030-14-001R0 - RL-30 Revise FY14 Budget Amount																		
														(4,545)	4,309	0	(236)	
BCR-040-14-001R0 - PUREX Tank Asbestos Remediation																		
														1,120	0	0	1,120	
BCR-PRC-14-002R0 - Hanford Rad Health & Safety Doc Revision, CO 206, Mod 286																		
														22	0	0	22	
c. PM BASELINE (END OF PERIOD)																		
	3,448,635	28,439	25,664	33,132	28,049	29,736	28,707	36,190	653,426	960,017	1,002,105	428,688	347,240	373,535	1,576,638	0	5,341,649	
7. MANAGEMENT RESERVE																		
																	74,523	
8. TOTAL																		
																	5,416,172	

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 / 28		
b. LOCATION (Address and ZIP Code) Richland, WA			b. NUMBER RL14788		b. PHASE			b. TO (YYYYMMDD) 2013 / 11 / 24				
			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)								AT COMPLETION (15)	
			SIX MONTH FORECAST						SPECIFIED PERIODS			
			+1 Dec (4)	+2 Jan (5)	+3 Feb (6)	+4 Mar (7)	+5 Apr (8)	+6 May (9)	REM FY14 (12)	FY15-18 (13)		
30B - WBS 98 PSD Distribution												
011.A1 - Project Specific Distributables	0	1	0	0	0	0	0	0	0	0	0	1
013.A1 - Project Specific Distributables	0	0	0	0	0	0	0	0	0	0	0	0
030.A1 - Project Specific Distributables	0	0	0	0	0	0	0	0	0	0	0	0
040.A1 - Project Specific Distributables	0	0	0	0	0	0	0	0	0	0	0	0
	0	1	0	0	0	0	0	0	0	0	0	1
31 - Communications & Outreach												
000.1 - Communications & Outreach	7	629	8	8	8	8	7	7	28	336		1,039
	7	629	8	8	8	8	7	7	28	336		1,039
32 - Safety, Health, Security & Quality												
000.2 - Safety, Health, Security, & Quality	48	4,641	56	53	53	53	53	53	213	2,709		7,884
	48	4,641	56	53	53	53	53	53	213	2,709		7,884
34 - Environmental Prog & Strategic Planning												
000.4 - Environmental Prog & Strategic Planning	19	1,255	15	20	20	20	20	20	80	983		2,433
030.2 - Envr Prog & Strategic Planning	19	1,673	20	20	20	20	20	20	79	1,354		3,226
	38	2,928	35	40	40	40	40	40	159	2,337		5,659
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	4,740	64	64	65	65	64	64	257	3,219		8,602
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	6,381	64	64	65	65	64	64	257	3,219		10,244
36 - Prime Contract & Project Integration												
000.7 - Contract and Baseline Management	39	2,363	40	41	40	40	41	41	164	1,968		4,738
000.9 - Chief Information Officer	10	749	9	9	9	9	9	9	36	432		1,271
	49	3,112	49	50	49	49	50	50	200	2,400		6,009
38 - Project Technical Services												
000.F - Eng/Procurement & Construction	19	1,423	17	17	17	17	17	17	66	830		2,421
000.T - Proj Tech Svcs	13	1,678	15	15	15	15	15	15	58	696		2,522
030.3 - EPC - Groundwater	0	3,635	0	0	0	0	0	0	0	0		3,635
	32	6,736	32	32	32	32	32	32	124	1,526		8,579
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	300	32,532	368	375	358	367	366	370	1,570	9,058		45,364
	300	32,532	368	375	358	367	366	370	1,570	9,058		45,364
3C - W&FMP/D&D Project												
012.1 - 100 K Area Project	81	7,823	92	92	92	92	92	92	368	4,339		13,082
012.2 - Sludge Treatment Project	74	6,906	68	69	68	65	65	65	261	4,665		12,232
013.1 - Waste Management	244	35,114	287	268	266	268	263	264	1,052	15,023		52,805
040.1 - PRC D&D	1	7,534	6	7	11	10	4	0	0	1,211		8,783
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	30	2,579	34	34	35	45	43	34	142	1,709		4,655
041.1 - River Zone	6	7,000	9	16	9	28	28	28	174	2,695		9,987
042.1 - FFTF	6	659	10	10	8	8	8	8	31	376		1,118
	442	68,956	506	496	489	516	503	491	2,028	30,513		104,499
3D - Soil & Groundwater Remediation												
030.1 - Soil & GW Remediation	217	18,940	246	258	273	272	258	278	1,146	13,345		35,016
	217	18,940	246	258	273	272	258	278	1,146	13,345		35,016
Grand Totals:	1,199	144,858	1,363	1,376	1,368	1,400	1,372	1,383	5,724	65,445		224,296

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) 2013/10/28	
b. LOCATION (Address and ZIP Code) Richland, WA 99354			b. NUMBER DE-AC06-08RL14788		b. PHASE Base		b. TO (YYYY/MM/DD) 2013/11/24		
			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:	28,439	27,549	28,008	(890)	-3.1%	(459)	-1.7%	0.97	0.98
Cumulative:	3,448,635	3,434,869	3,393,935	(13,765)	-0.4%	40,934	1.2%	1.00	1.01
	BAC	EAC	VAC in \$	VAC in %	CPI to BAC	CPI to EAC			
At Complete:	5,341,649	5,248,019	93,631	1.8%	0.98	1.03			
Explanation of Variance/Description of Problem:									
<p>Current Period Schedule Variance: The Current Month unfavorable Schedule Variance (-\$0.9M) 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 that was partially upset in RL-0013 due to return of repackaged TRU waste from commercial repackaging which was planned and scheduled for October.</p> <p>Current Period Cost Variance: The Current Month unfavorable Cost Variance (-\$0.5M) is primarily due to (1) RL-0011 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, unplanned accruals associated with the CBA ratification bonus and incorrect invoicing from the FTI Consulting vendor are contributing to this variance; and (2) RL-0012 due an over accrual for ICWEA support contracts, correction of a missed October accrual and additional costs for the month associated with rework of concrete calculation design issues, constructability design issues and cold weather construction costs associated with adverse weather. Partially offsetting the variance are efficiencies and savings achieved in various WBSs, including the BC-5 and BP-5 drilling campaigns.</p> <p>Cumulative Schedule Variance: The Cumulative unfavorable Schedule Variance (-\$13.8M) is within reporting thresholds.</p> <p>Cumulative Cost Variance: The Cumulative Cost Variance (+\$40.9M) is within reporting thresholds and consists of favorable and unfavorable cost variances in direct projects (+\$19.0M) and prior year G&A/DD/PSD distribution variances (+\$21.9M).</p>									
Impact:									
<p>Current Period Schedule: For RL-0012, procurements are being prioritized to recover schedule variance and minimize impacts to overall schedule.</p> <p>Current Period Cost: No significant impacts by PBS have been identified.</p>									
<p>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 25, 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. In order to accelerate project completion, building demolitions at PFP have been re-sequenced to better align with current building readiness dates. This re-sequencing has created two new parallel critical paths that lead into the beginning of demolition. The first new critical path at PFP consists of completing D&D work on the Backside Rooms/Labs area of 234-5Z. Once complete, the team will transition into the 234-5Z basement to perform all drain line removals, then grout all tunnels and cavities in the basement to ensure structural stability during demolition. After basement grouting is completed, final decontaminations will be performed throughout 234-5Z to ensure a ready for demo state. The second new critical path involves removing contaminated Duct/Filter boxes, Process Transfer Lines, and Process Vacuum lines in the 234-5Z Duct Level. Once completed, this team will focus on removing materials prohibited during demolition. Finally, the team will perform final decontaminations throughout 234-5Z to get the building in a ready for demo state. At this point, both paths conjoin to kick-off the start demolition on 234-5Z, 242-Z, 242-ZA, and finally 236-Z, leading to completion of the final TPA Milestone – M-083-00A, <i>PFP Facility Transition and Selection Disposition Activities</i>. No other significant impacts have been identified.</p> <p>CTD Cost: No significant impacts have been identified. In RL-0013, RL-0040, RL-0041, and RL-0042, underruns are forecast based on efficiencies.</p>									

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

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, which 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. Completed Implementation of the HAMTC collective bargaining agreement November 11, 2013. Ongoing efforts will continue to recognize increased efficiencies to recover the negative cost and schedule variances on the PFP Project. No other specific corrective actions are planned at this time.

CTD Cost: No corrective actions are required.

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

For November FY2014, the project was 3.1% behind schedule and 1.7% over planned cost. The Schedule variance 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. The RL-0013 negative variance is due to return of repackaged TRU waste from commercial repackaging which was planned and scheduled for October. Cost performance was primarily attributed to RL-0011, 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, unplanned accruals associated with the CBA ratification bonus and incorrect invoicing from the FTI Consulting vendor are contributing to this variance. The RL-0012 negative variance is due an over accrual for ICWEA support contracts, correction of a missed October accrual and additional costs for the month associated with rework of concrete calculation design issues, constructability design issues and cold weather construction costs associated with adverse weather. Also contributing to the variance is 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, which 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. Completed Implementation of the HAMTC collective bargaining agreement November 11, 2013. Ongoing efforts will continue to recognize increased efficiencies to recover the negative cost and schedule variances on the PFP Project. 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 +\$93.6 million and +1.8% 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	\$11,889.0
Approved Adjustments to Contract Price (not reflected in B.4-1 Table)		
	Total Negotiated Cost Changes	-
	Grand Total Adjustments	\$11,889.0

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:
Project Control Staff

Date:
12/16/2013

Approved by:

Date:

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

(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)



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

M. A. Wright
Vice President for
Project Technical
Services

November 2013
CHPRC-2013-11, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

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

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	20%
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	8%
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	5%
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	18%
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	14%

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	14%

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	1	4	<ul style="list-style-type: none"> 11/05/13 – Employee bumped head on wall-mount HVAC unit on exterior of mobile office (23219).
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. SHS&Q incurred one First Aid case during November 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 2A has been approved by RL/Office of River Protection. However, a letter of direction to implementation has not yet been received. A management plan is being developed to facilitate implementation. The pilot project for assessment and characterization of facilities is complete and awaiting final sample results from Mission Support Alliance, LLC (MSA). CHPRC has conducted briefings on changes to beryllium postings and labels required by Revision 2A.
 - Continued efforts with Site Occupational Medical Provider (OMP) to resolve return to work issues, issues with the Employee Job Task Analysis process.
 - Ongoing efforts in the revision of hazard controls in the Automated Job Hazard Analysis (AJHA) tool.
 - Incorporating the Technical Evaluation (TE) process into the IH Exposure Assessment

- procedure.
- Continued support to Plutonium Finishing Plant (PFP) for use of the PremAire system to facilitate deactivation & decommissioning activities in the Plutonium Reclamation Facility (PRF) canyon.
- Continued support to Project Technical Services (PTS) with subcontractor prequalification, subcontractor oversight and Employee Job Task Analysis (EJTA) reviews for subcontractor personnel.
- Continued the Strains and Sprains Campaign including an Insite Video on the subject.
- Partnering with HPMC on reduction efforts for soft tissue injuries.
- Completed set up in Integrated Document Management System (IDMS) for confined space documents.
- Issued first OS&IH newsletter to managers, supervisors, and OS&IH personnel.
- Provided support to Hanford Site Land Management for installation of new mobile office for Washington River Protection Solutions (WRPS).
- o Radiological Control accomplishments:
 - Continued to support site-wide Radiological Control committees.
 - Continued to support PFP Closure Project towards dose modeling associated with recent exposures to a ⁹⁰Sr source.
 - Completed draft updates for CHPRC-00073 to implement the revised Hanford Radiological Health and Safety Document.
 - Initiated field testing of lapel breathing zone air monitors at PFP Closure Project.
- o Nuclear Safety deliverables prepared and transmitted to RL in November include:
 - Documented Safety Analysis:
 - Letter, CHPRC-0900251.6, dated November 21, 2013, *Request for Services Processing Request, Supplement Number 7 to RF2020, Readiness in Technical Base and Facilities*.
 - 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 November include:
 - Email, November 12, 2013, *Draft Transportation Safety Document, Appendix K revision*.
- o Contractor Assurance Regulatory Reporting (CARR) accomplishments:
 - 199 Condition Reports (CRs) were screened in November:
 - 0 Significant
 - 3 Adverse
 - 69 Track Until Fixed (TUF)
 - 55 Trend Only (TO)
 - 69 Opportunity for Improvement (OFI)
 - 3 Screened Out (factually inaccurate, duplicative of existing Condition Reports)
 - A new Performance Indicator is being developed for OS&IH related to Respiratory Protection to track issues by trending code.
 - Provided support/leadership on 3 Cause Evaluations (DOE Fire Protection Program Concern, WESF Roof Repair/asbestos discovery, and discovery/exposure to Sr-90 exempt source At PFP).
 - A conference call was held with Defense Nuclear Facilities Safety Board (Board) personnel to discuss the upcoming Staff Review of PFP Work Planning and Control planned for late January 2014 and Information Request #13-82 regarding PFP supporting documentation.
 - 32 documents were provided in response to the Board's Document Requests.
- o Performance Assurance /Quality Assurance (QA)/Assessment accomplishments:
 - Worked with the Ground Water project in the development of procedures and inspection

- criteria for ASME B31.3 Category D fluid stems.
 - Worked with DWF&RS in evaluating their inventory of disposable Special Work Permit (SWP) clothing.
 - Working with the CHPRC Calibration Program Manager to implement the improvement recommendations proposed to improve the calibration services provided by the MSA calibration contractor.
 - Participated with PTS in the development a full service Nondestructive Evaluation (NDE) request for proposal.
 - Provided Suspect Counterfeit briefing to the Procurement organization.
 - Presented and received approval from Executive Safety Review Board (ESRB) for the FY2014 Integrated Evaluation Plan (IEP).
 - Performed planning and document review activities associated with the Nuclear Safety Performance Evaluation Board (NSPEB) review of past CRs for LWFS and W&FMP.
 - Assessment field activities were initiated for the 10 CFR 835, Subpart H, *Records*, surveillance activity.
 - Completed initial testing of the updated IEP database. A preliminary test report was provided to LMSI and issues identified are being corrected. Following validation of issue correction, the IEP update will be deployed. Tentative release date is 19 December. The upgrade will provide additional search capabilities and allow inputting of MOP reports into IDMS electronic records and collection and analysis of data from the MOPs.
- Status of SHS&Q Focus Areas:
 - o **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.
 - o **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. Also discussing concerns where HPMC is referring workers to offsite medical providers.
 - o **Issue:** PFP Value Engineering Study Strategy Path Forward.
Status: Engaged with PFP project personnel with SHS&Q central group SMEs; utilizing 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, received RL approval by way of SER. 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**
 - Continued discussions and negotiations with EPA over asbestos management allegations.
 - **Ecology Central Waste Complex Box and WRAP Drum Leak Enforcement**
 - A tolling agreement was signed extending the deadline to finalize the AO to early January.
 - **RCRA Permitting Progress**
 - Began implementation of agreed-to permitting plan.
 - Met weekly with regulators to resolve permit questions and information requests.
 - Prepared CHPRC team and client for public hearing on CAFO-required permit modifications.
 - **Environmental Management System (EMS)**
 - Presented the FY2013 EMS Management review as part of the November ESRB meeting. EMS requires an annual review presented to senior management to review the overall health of the EMS, identify areas that need improvement, and solicit other recommendations as necessary.
- **Environmental Compliance & Quality Assurance (ECQA)**
 - **Assessments in Progress**
 - Independent Assessment of RCRA ≤ 90 Day Accumulation Areas and Satellite Accumulation Areas is in progress and is expected to be completed by December 30, 2013.
 - Environmental Compliance Inspection (ECI) of Waste Water Programs is planned to be completed by December 13, 2013.
 - Assisting DWF&RS/W&FMP in the visual inspection of stored drums containing hazardous/dangerous waste and providing expertise in the area of corrective actions towards resolution of any issues identified as a result of the inspections.
 - **Upcoming Assessments**
 - Independent Assessment of S&GRP Groundwater Monitoring compliance with HASQARD to be completed by March 2014.
 - ECI of EPCRA/Chemical Management to be completed by January 30, 2014.
 - Developing a Management Assessment Plan for an assessment of Notification of Releases to be completed by January 30, 2014.

Business Services

- **Acquisition Planning**
 - Working with Projects on statements of work and new Acquisition Planning Document requirements for Hazardous Waste Treatment, Non-Destructive Examination, Tank Integrity Inspections and TRU Repack.
 - Submitted Acquisition Planning Documents and Non-Compete Justifications for extensions of three Radioactive Waste Treatment contracts to RL. RL concurred with request. CHPRC can discontinue pursuing new contracts.
 - Compiled Lessons Learned from Government Shutdown activities as planning for possible FY2014 need.
 - Worked with Small Business Advocate to identify new Mentor-Protégé candidate for Option Period.
- **Facilities and Property Management (F&PM)**
 - Support to PFP for the occupancy footprint reconfiguration to transition towards D&D was largely completed in November. MO273 has been converted to “bull pen” type configuration to support the co-location of up to 8 D&D work teams. 21 buildings will be vacated as the project progresses, 8 of which are former ARRA mobiles that have been made available for reutilization.

MO2102 has been transferred to WRPS and the other remaining buildings are being considered for transfer to OHC's.

- **Finance**
 - o November month end closing was completed on schedule with no issues.
 - o Completed exit meeting on the FY2009 incurred cost audit with KPMG. Developing management responses to findings. Will need to work the resolution of finding with RL
 - o Contract funding has been provided that is sufficient to continue uninterrupted operations through January fiscal month end.
 - o Working with RL Finance on responding to questioned costs related to travel, bottled water, leased equipment and education reimbursements. Additional justification was provided to support allowability.
- **Human Resources**
 - o According to the 2013 CHPRC – HAMTC Collective Bargaining Agreement contract, a mass load process was generated for CHPRC HAMTC bonuses, general increase, temporary upgrades and NCO Certification Pay changes. A total of 489 HAMTC employees received the 2% general increases and a total of 499 HAMTC received bonuses effective November 11, 2013. A total of 231 temporary upgrades were generated and a total of 199 were generated with the NCO Certification Pay rates changes.
- **Material Services**
 - o Provided responses to RL Finance quarterly surveillance questions documented in 14-FIN-00XX_Attach_PRC_FY12_11-01-13 received informally from RL Finance. Met with RL Finance on November 26, 2013, to present the responses.
 - o Completed verification of the second monthly invoice from Shelby Distribution; provided backup documentation to RL.
- **Procurement**
 - o Awarded/amended 106 contracts with a total value of \$1.3M. Additionally, awarded 146 new material Purchase Orders valued at \$422K to support ongoing project objectives.
 - o At the end of the first 62 months of the PRC, procurement volume has been significant; \$2.065B in contract activity has been recorded with approximately 49.3%, or \$1.017B, in awards to small businesses. This includes 6,341 contract releases, 15,819 Purchase Orders, and 194,015 P-Card transactions.
 - o Completed and issued 20 Advance Planning Documents to RL for review and three Consent Packages for review and consent.
 - o In support of the CHPRC Estimating Group, Procurement issued five RFPs to support the subcontract pricing for Change Orders 227, 229 and 237.
 - o Procurement submitted the FY Balanced Scorecard Plan to RL and received approval of the plan.
 - o The Small Business Subcontracting Plan was submitted to RL for approval.

Prime Contract and Project Integration (PC&PI)

- **Contract Compliance & Change Management (CC&CM)**
 - o In November, Prime Contracts received and processed two (2) contract modifications (numbers 299 and 300) from RL. Correspondence Review received and determined the distribution for 16 incoming letters/documents from RL and the Prime Contracts Manager reviewed 36 outgoing correspondence packages.
 - o Prime Contracts facilitated the preparation and transmittal to RL the following Notice of Change (NOC):
 - Decommissioning, Waste, Fuels, and Remediation Services (DWF&RS) Project
 - CHPRC request the addition of Surveillance and Maintenance work scope for the former 200-ZP-1 Process Facility and ancillary buildings to the PRC. This NOC was transmitted to RL on November 15, 2013.

- o Estimating provided the following support to the Projects:
 - Plutonium Finishing Plant (PFP) Closure Project:
 - Provided support to the project in the conduct of a briefing on November 4, 2013, describing the contents of the change proposal submitted to RL. The proposals reviewed were associated with chemical hazard investigation and mitigation (011 240 1387, *Plutonium Finishing Plant Chemical Hazards Investigation*, and 011 240 1388, *Mitigation of Chemical Lines at Plutonium Finishing Plant*), and the Sequestration impacts (011 PRC 1389, *Plutonium Finishing Plant Closure Project Fiscal Year 2013 Sequestration Impacts*), which were submitted in October 2013.
 - Sludge Treatment Project (STP):
 - Continued effort on the preparation of a Change Proposal that will address the impacts of funding changes in FY2012, FY2013 and Sequestration to the overall project.
 - Provided support in the maintenance of the basis of estimate(s) associated with planning scenarios related to the RL-0012 Performance Measurement Baseline and FY2014 funding decisions.
 - DWF&RS Project
 - Performed a specification review and generated a fair cost estimate that was utilized in procurement decisions to select a subcontractor who will install a sanitary drain field in the 400 Area. This work follows definitization of Change Order (CO) 195, *Eliminate 400 Area Sewer Discharges to Energy Northwest*.
 - S&GRP Project:
 - Submitted information reporting the actual cost related to work completed as proposed in Change Proposal 1046, *Addition of S-SX Interim Groundwater Extraction System*, on November 12, 2013. This activity was performed to support closure on the reopener agreement included in the earlier definitization of CO #107 for the S-SX extraction system.
 - Responded to inquiries related to RL's review and evaluation of Change Proposal 030 222 1379, submitted in response to CO #222, *100-BC-5 Well Drilling, Aquifer Tube Network Installation, and Sampling*.
 - In conjunction with the project, completed and submitted to RL on November 5, 2013, a Change Proposal in response to CO #237, *200-DV-1 Transient Perched Water*.
 - In conjunction with the project, completed and submitted to RL on November 14, 2013, a Change Proposal in response to CO #238, *100-NR-2 Aquifer Barrier Expansion*.
 - Coordinated the tracking of procurement efforts associated with four (4) change proposals that were submitted with budgetary pricing for subcontracts. CHPRC is conducting competitive procurements in order to gain current pricing for several subcontracts associated with well and apatite barrier installations. As agreed to with RL, the updated pricing will be submitted as supplemental information to support definitization.
 - Project Technical Services (PTS):
 - Estimating performed specification reviews and generated fair cost estimates that were utilized in the evaluation of bids received from the construction subcontractor (Ojeda) for the following projects:
 - o Wiring and instrumentation of P&T extraction wells
 - o Relocation of P&T transfer lines at 100 D Area
 - o Installation of rain guttering for selected locations at the 100 K West Reactor and 100 DX P&T buildings
 - o Installation of HPDE piping for three (3) P&T wells
- o Estimating Systems Administration
 - Estimating held a kickoff meeting to begin up-versioning of estimating software (a COTS

- product) from a Pervasive database to a SQL Server. A kickoff meeting for the software transition was held with Estimating Support Services, Information Management, LMSI and CH2M HILL's Sage Estimating subject matter expert. The targeted completion is for spring 2014.
- Updated and standardized the Sage-to-Cobra import checks and fee calculation process.
 - Continued database maintenance and cleanup in preparation for implementation of the up-versioned software. Hosted CH2M HILL's Sage Estimating's subject matter expert for one week to assist with cleanup in preparation for the software transition.
- **Baseline Management & Reporting**
 - o Incorporated the revised funding guidance of \$374.5M into the Earned Value Management System.
 - o Via approved Baseline Change Request, revised the Performance Measurement Baseline based on scope priorities, as agreed to with RL.
 - o Initiated three Management Assessments relative to EVMS compliance and continued surveillance activities.
 - o Participated in comment review sessions relative to the Annual PMB submittal.
 - **Strategic Planning and Integration**
 - o **Strategic Planning**
 - Continue working the FY2014 Risk Analysis.
 - o **Interface Management**
 - In development 3rd Volume of “Be In The Know...” Efficiency Challenges to the J.3 Hanford Site Services and interface Requirements Matrix.
 - Continue to populate Calibration spreadsheet utilized to bin “like” issues with links to emails.
 - Contributed input to revision of “*Property Management*” procedure (PRC-PRO-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 Measuring & Testing Equipment (M&TE) Calibration Services provided through the new Site calibration vendor Micro Precision.
 - Reviewed and revised Draft 2014 Hanford Site Sustainability Plan
 - Developed and submitted Waste Management 2014 Abstract for CHPRC Procedure System.
 - Continued development of Site Manuals Spreadsheet to begin development of an internal change control process.
 - Attended CHPRC Collective Bargaining Agreement (CBA) training session.
 - Established Hanford Document Numbering System (HDNS) Nomenclature for Interface Management to ensure consistent assignment of document number system and to align with other Hanford contractors.
 - TOC-AIA-PRC-000031, *AIA Between WRPS and PRC for Operations Interface Activities within or Adjacent to Nuclear Facilities.*
 - TOC-ICD-PRC-00034, *ICD Between Washington River Protection Solutions and CHPRC for Lock and Tag Authority of Breakers at Canister Storage Building.*
 - Continued development of Administration Interface Agreement (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:
 - 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.*

- o **Information Management**

- Installed 42 Thin Client computers in support of EMS Objective FY14-EMS-PC&PI-OB2-T1 to achieve 275 in FY2014.
- Supported the CHPRC Performance Assurance organization triennial surveillance on 10 CFR 835 Subpart H, “Records”.
- Revised and submitted four Records Management procedures for review in support of CRD O 243.1B implementation.
- Reduced backlog of boxes at MO287 200W Records Processing Center, including the recycling of 11 boxes of non-record information, and retirement of two boxes of record material.
- Supported updates to the training material for the CHPRC Leadership Impact Initiative session to be held the first week of December.

Project Technical Services (PTS)

- **Central Engineering (CE)**

- o CE supported the Decommissioning, Waste, Fuels & Remediation Services (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). WDOH approved the Engineering Report for the 400 Area Sewer System, HNF-55990, Revision 1. Ground breaking is planned for Tuesday November 26, 2013 with anticipated completion by the end of December 2013.
- o CE provided support for PFP, originating a National Fire Protection Association (NFPA) 70 Authority Having Jurisdiction (AHJ) approval package CHPRC-2013-21 for a non-Nationally Recognized Testing Laboratory (NRTL) certified cable cord reel for the Plutonium Reclamation Facility (PRF) canyon crane.
- o CE is performing an impact Business Assessment Contract No. DE-AC06-08RL 14788 - Contractor Requirements Document (CRD) 0 420.1C, (Supplemented Revision 0), Facility Safety, Change Order # 242.
- o CE is continuing to review STP Engineered Container Retrieval and Transport System Annex construction submittals (welding procedure specifications, nondestructive examination procedures, and fabrication and inspection plan).
- o The Building 273W Construction Work to install the second egress door and modify the yard fence has been completed, in response to a Surveillance Life Safety Code Finding. CE issued an extension of the Fire Marshal Permit for Occupancy in Building 273W as the modification of the facility.
- o CE led the Energy Facility Contractor Group (EFCOG) Engineering Practices Working Group (EPWOG) Quarterly teleconference. The call provided a status of EPWOG initiatives, plans for future calls/meetings, and shared technical information related to a variety of topics. E.g., 420.1C Implementation, Commercial Grade Dedication, Fire Protection program.
- o CE completed checking calculations for the T-Plant Sludge Handling System Structural Secondary Containment Leveling Frame Assembly.
- o CE completed the Technical Safety Requirement (TSR) for the Three Month Combustible Loading Control Surveillance for the Central Waste Complex. No Issues were identified.
- o CE completed the Annual Ignitable/Reactive Waste Inspection required by Washington Administrative Code (WAC) 173-303. No Issues were identified.
- o CE provided Quality Systems with a presentation on NRTL requirements and procedures for electrical equipment at the Quality Systems Monthly Staff Meeting.
- o CE is supporting DWF&RS, Solid Waste Operation Complex (SWOC), Central Plateau Surveillance & Maintenance (CP S&M) in the design of fall protection system for the 202-S

REDOX.

- o 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.
- o CE developed a welding procedure specification and qualified welders to repair a weld crack on a Hanford Site fire truck aerial latter boom. The crack was found during the truck's annual inspection.
- o CE continues supporting PFP to originate a Facility Modification Package (FMP) for electrical installation design of trailers and conex containers that are being relocated on the PFP site.
- o CE conducted a field walkdown of the electrical installation for two new injections wells connected to the 200 West Pump & Treat Injection Transfer Building #1. CE conducted field walk downs of the electrical installations for two new extraction wells connected to KR-4 Pump & Treat Transfer Building #1, and one new extraction well connected to KX Pump & Treat Transfer Building #1.
- o CE is continuing the development of a bonding procedure specification to support the repair a PVDF piping system at 200 West Pump-and-Treat facility.
- **Procedures and Training**
 - o Globally Harmonized System training - Completion date for this training is December 1, 2013. Currently, CHPRC is approximately 99% complete for this activity. As of November 25, 2013, only four personnel remain that need to complete the training.
 - o Hanford Site Contractor Training Management Forum meeting is scheduled for November 26, 2013. This is the second meeting recently considered coordinated by PRC to address site wide issues in training.
 - o Supported selected revisions to the Leadership Impact Training materials in preparation for the December Leadership Impact Initiative Workshop.
 - o PFP Unreviewed Safety Question (USQ) Screener and Evaluator initial and requalification packages were revised and approved.
 - o D&D Engineer initial and requalification packages have been reviewed and approved.
 - o Worked with Nuclear Safety to develop a Computer Based Training (CBT) course and written examination for 10 CFR 830.
 - o Worked with Labor Relations to schedule Collective Bargaining Agreement (CBA) Overview training course.
- **Operations Program**
 - o Published annual update to PRC-PRO-WKM-12115 and PRC-GD-WKM-12116, met with RL Facility Representatives to review and discuss the changes.
 - o Provided direct support to 200W Pump-and-Treat Lock out/Tag out (LOTO) investigation and follow-up walkdown with craft and facility management.
 - o Participated in the Hanford Site Emergency Managers Forum concerning issues of protective actions associated with a seismic event.
 - o Mentors supporting their respective projects with FWS quarterly meeting presentations.
 - o PTS Operations Program management is directly supporting projects conducting requested walkdowns on potential hazardous energy control issues.
- **K Annex Construction & ECRTS**
 - o Approximately 150 cubic yards of concrete (~25% of the total), with approximately 100 cubic yards on schedule to place in December which will bring the total placement to ~80% complete.
- **Project Delivery**
 - o 2025EA Building Exterior Repair
 - Contractor mobilized on November 11, 2013 and was completed and turned over to Operations on November 18, 2013.

- Contractor removed exterior wall panels which identified additional damage inside the wall. Damaged wall studs replaced and wall panels reinstalled.
- o WESF Pool Cell Ladder Installation
 - All eight ladders have been installed and completed on November 20, 2013.
- o 400 Area Septic
 - Construction contract awarded November 15, 2013.
 - DOE and WDOH approval expected the week of November 18-21, 2013.
 - Construction Contractor submittal process begun scheduled for completion November 18-26, 2013.
 - Septic Construction field work scheduled to begin on or before December 2, 2013.
- o T-Plant Fire Barrier Penetrations
 - PTS met with the Project and a Fair Cost estimate was completed on November 21, 2013. The Project is evaluating how to proceed due to funding limitations.
- o 200W ITB-1 Modifications
 - Replacement of Flow Control Valves commenced on November 13, 2013. Modification will increase discharge capacity of ITB-1 and increase water treatment output of the 200W Pump-and-Treat Facility.
- o Extraction Wells 14, 17, and 20
 - Procurement planning completed. SOW and Functional Checklist revised.
 - Task Order Contract Requisition routed for approval.
 - Fair Cost Estimate in development by CHPRC estimating team.
- o PFP
 - PFP Connex Electrical Upgrade is now 70% completed.
- o Programmatic Activities
 - PM development for annual inspections of Hot Water Tank Pressure Relief Valves located in 200E/USC and 100-K Mobiles is 100% complete.
 - Building Trades transferred PMs at 2269E to HAMTC (MSA).
 - MSA to begin PM performance of transferred scope in January 2014.
 - PTS PM Revisions are 100% ready for implementation by Building Trades on January 9, 2014.
 - Issued draft of PTS-2014-WSA-13056 *Construction Work Document Execution, Recordkeeping and Turnover assessment* for approval to issue.
 - PTS Facility Chemical Custodian completed a walkdown with the PTS Environmental Compliance Officer for EMS Target and Objectives in accordance 14-EMS-PTS-OB1-T1.

Communications

Internal

- Produced four issues of the Weekly Update, the CHPRC employee news bulletin, with manager messages from Vicki Bogenberger, Chief Financial Officer and Vice President of Business Services; John Fulton, President and Chief Executive Officer; and John Hendry, Lead Representative for the Hanford Atomic Metal Trades Council (HAMTC).
- Produced a special episode of InSite, the monthly news broadcast that highlighted progress over the first five years of the CHPRC contract.
- Began hosting brown bag meetings across the CHPRC projects and organizations to allow the senior management the chance to meet with employees and address their questions and concerns; the meetings will continue throughout the year.
- Supported Safety, Health, Security & Quality (SHS&Q) with communications planning and implementation of the sprains and strains safety campaign.

Public Relations

- Issued a press release announcing CHPRC awarded more than \$1 billion small businesses since 2008.
- RL featured CHPRC's T Plant tours, zero waste picnic, and KW Annex construction video on the social media sites.
- CH2M HILL corporate social media sites featured the 200 West Pump-and-Treat and System, and small business awards.
- Supported RL with media inquiries regarding workforce restructuring.

Public Involvement

- The 300 Area Record of Decision (ROD) was signed by RL, EPA, and Ecology the last week of November. CHPRC Communications coordinated the development of the Responsiveness Summary (an appendix to the ROD) and supported the release of the ROD to stakeholders by preparing a listServ notice and advertisement to run in the Tri-City Herald.
- Preparations are underway for the public meeting on Class 3 modifications to the Dangerous Waste Permit. These changes are for the Low-Level Burial Grounds Trenches 31, 34 and 94, the Central Waste Complex and Waste Receiving and Processing Facility (CWC-WRAP), and the T-Plant Complex (T-Plant).
- Preparations for the Class 2 Permit Modifications for sitewide groundwater monitoring and LERF/ETF groundwater monitoring are underway. In addition there will be a separate Class 2 Permit Modification for operations at LERF/ETF.

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)	-11.4%
Safety, Health, Security and Quality	1.1	1.1	0.9	0.0	0.0%	0.2	20.1%
Environmental Program and Strategic Planning	0.3	0.3	0.3	0.0	0.0%	0.0	7.8%
Business Services	1.6	1.6	1.6	0.0	0.0%	0.0	1.8%
Prime Contract and Project Integration	1.8	1.8	1.6	0.0	0.0%	0.2	8.8%
Project Technical Services	0.6	0.6	0.7	0.0	0.0%	(0.1)	-26.5%
Indirect WBS 000 Total	5.5	5.5	5.2	0.0	0.0%	0.3	5.0%

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: (+\$0.3M/+5.0%)

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	0.2	0.2	0.2	0.0	0.0%	(0.0)	-17.1%	1.0
Safety, Health, Security and Quality	2.1	2.1	1.8	0.0	0.0%	0.3	15.4%	13.6
Environmental Program and Strategic Planning	0.7	0.7	0.6	0.0	0.0%	0.1	9.1%	4.2
Business Services	3.2	3.2	3.2	0.0	0.0%	(0.1)	-2.3%	20.5
Prime Contract and Project Integration	3.4	3.4	2.9	0.0	0.0%	0.4	13.1%	21.9
Project Technical Services	1.1	1.1	1.2	0.0	0.0%	(0.1)	-9.5%	7.0
Indirect WBS 000 Total	10.6	10.6	9.9	0.0	0.0%	0.6	5.9%	68.2

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: (+\$0.6M/+5.9%)

The favorable cost variance is primarily attributed to no Time Verification System upgrade activity.

Baseline Change Requests

BCR-PRC-14-002R0 – *Hanford Rad Health & Safety Doc Revision, CO 206, Mod 286*

FY2014 G&A Analysis (\$M)

WBS 000	FY2014					
	FYTD BCWS	FYTD Actual	FYTD Variance (O)/U	FY2014 BCWS	FY2014 Forecast	FY2014 Variance (O)/U
Project Services and Support						
Communications	0.2	0.2	(0.0)	1.0	1.1	(0.1)
Safety, Health, Security and Quality	2.1	1.8	0.3	13.6	12.6	1.0
Env. Program & Strategic Planning	0.7	0.6	0.1	4.2	4.0	0.2
Prime Contract and Project Integration	3.4	2.9	0.4	21.9	21.2	0.7
Business Services	3.2	3.2	(0.1)	20.5	20.7	(0.2)
Project Technical Services	1.1	1.2	(0.1)	7.0	6.9	0.1
General & Administrative (G&A)	10.6	9.9	0.6	68.2	66.5	1.7
		FYTD			FY2014	
G&A Distribution		(9.2)			(63.6)	
G&A Liquidation (Over)/Under		0.8			2.9	

Liquidation Analysis

- For FY2014, the General and Administrative (G&A) accounts under-liquidated \$0.8M through November. The FY2014 year end projected under-liquidation of \$2.9M 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.