

# Monthly Performance Report

April 2014

Prepared for the U.S. Department of Energy  
Assistant Secretary for Environmental Management

Contractor for the U.S. Department of Energy  
under Contract DE-AC06-08RL14788

 **CH2MHILL**  
Plateau Remediation Company  
**P.O. Box 1600**  
**Richland, Washington 99352**

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**APPROVED**

*By Lee Ann Snyder at 7:45 am, May 27, 2014*

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Release Approval

Date

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**J. C. Fulton**  
**President and Chief**  
**Executive Officer**

# Monthly Performance Report

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

**April 2014**  
CHPRC-2014-04, Rev. 0

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## EXECUTIVE SUMMARY

- CHPRC graduated Project Services Group (PSG), LLC, from the U.S. Department of Energy's (DOE) Mentor-Protégé Program. Earlier this year, the company joined into a new mentor-protégé agreement with small business RC Engineering and Construction Management, a small disadvantaged, woman-owned company, supporting the groundwater cleanup program.
- On the Plutonium Finishing Plant (PFP) Closure Project, crews sealed out six pencil tanks, dispositioned one glove box (HA-40F) and began training on new respirators and protective suits that will be used to safely and efficiently enter 242-Z, the Americium Recovery Facility (ARF).
- The Soil & Groundwater Remediation Project (S&GRP) began and completed another series of sampling in the newly installed BC-5 aquifer tubes. The aquifer tubes are used to obtain more data about groundwater contamination at the Hanford Site.
- The Decommissioning, Waste, Fuels & Remediation Services (DWF&RS) and Project Technical Services (PTS) projects continued steel construction for the KW Annex for the Sludge Treatment Project (STP). The facility that will house the systems and equipment to remove the last phase of radioactive sludge from the K West Reactor Basin.



**From left to right: Janice Bartram, CHPRC Small Business Coordinator, Greg S. White, president of Project Services Group, LLC, and CHPRC President and CEO John Fulton.**



**A glovebox is prepared for shipment.**

## Focus on Safety

- April 2014 President's Zero Accident Council (PZAC) meeting was hosted by the Soil and Groundwater Remediation Project (S&GRP). The three main themes of the meeting were:

- o Distracted Driving
- o Stress Management
- o Spring Pests

The meeting was given the green light to start and introduced the subject of distracted driving with a reminder of the company's policy prohibiting cell phone use for any reason while operating a vehicle. A representative from the Hanford Patrol Training Academy expanded on the causes and prevention of distracted driving by discussing how traditional distractions, such as eating, grooming and adjusting car controls, have been caught and passed by newer, more hazardous interferences such as texting and browsing the internet. The meeting then switched gears to review techniques for decreasing stress. Stress management methods included measured breathing, aromatherapy, and muscle movement. The next presenter steered the audience's attention to the topic of Spring pests, specifically how to prevent and respond to stinging and biting insects. The ensuing Environmental Management System (EMS) update elaborated on pest control with an eco-friendly list of alternate options but then swerved off-topic to present the monthly Green Gnome recognition award to S&GRP for reusing old or abandoned equipment. The VPP update included a reminder of the all-employee safety meeting scheduled for May 2014 to celebrate CHPRC's recognition as a VPP Star company. Before the meeting came to a screeching halt, the final lap included Stretch and Flex, the safety performance review and Good News Stories.



- In April, four "Thinking Target Zero" (TTZ) bulletins were published to convey important occupational safety, health and environmental messages:

- o All-Terrain Vehicle Safety
- o Outdoor Pests
- o Backing Vehicles Safely
- o EMS Essentials

- *Weekly Safety Tailgate* briefing packages in April communicated relevant topics and safety information to the workforce:

- o Respiratory Protection Assigned Protection Factor Change
- o Sun Protection
- o Hard Hat Recycling
- o Benefits of the Buddy System
- o Identity Theft Awareness Shred Day
- o Safety Focus: Slips, Trips and Falls
- o Heat Stress Procedure Enhancements
- o Personal Protection Procedure Changes
- o Summer Footwear Reminder
- o Transition to New Beryllium Signs and Postings
- o "What Would You Do?" Ethics Awareness messages
- o Injury/Illness Summaries and the TTZ of the week.

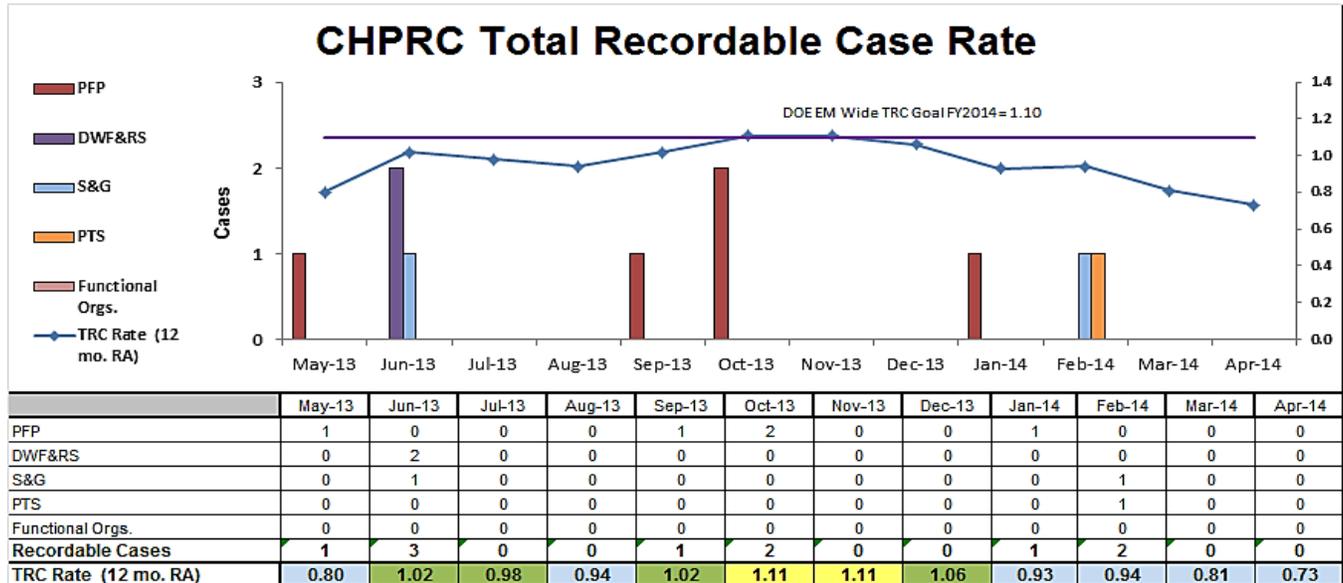


- The CHPRC Weekly Updates for April included two messages from the Environmental organization regarding EMS. One message discussed achieving EMS Targets and Objectives, including the implementation of the "zero waste" concept in large company gatherings. The second message reported that the March 2014 all-employee meeting literally generated zero waste! Nothing went to

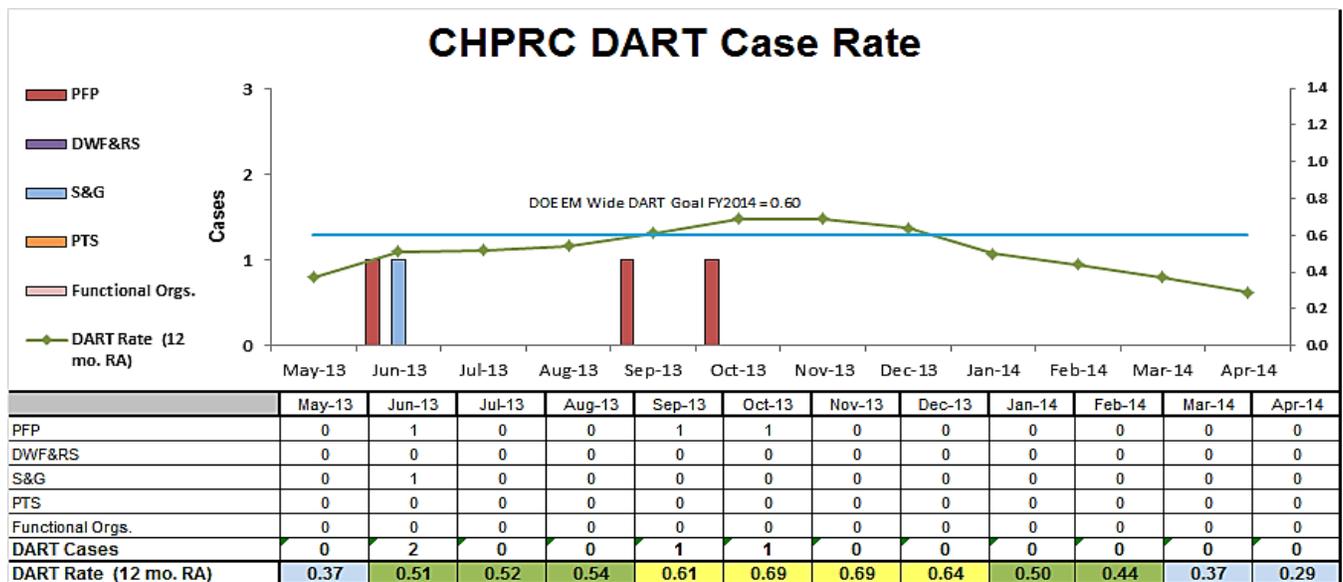
a landfill, and everything left at the end of the meeting was recycled, washed, taken home by workers, or given to a local pig farmer for feed.

## TARGET ZERO PERFORMANCE April 2014

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

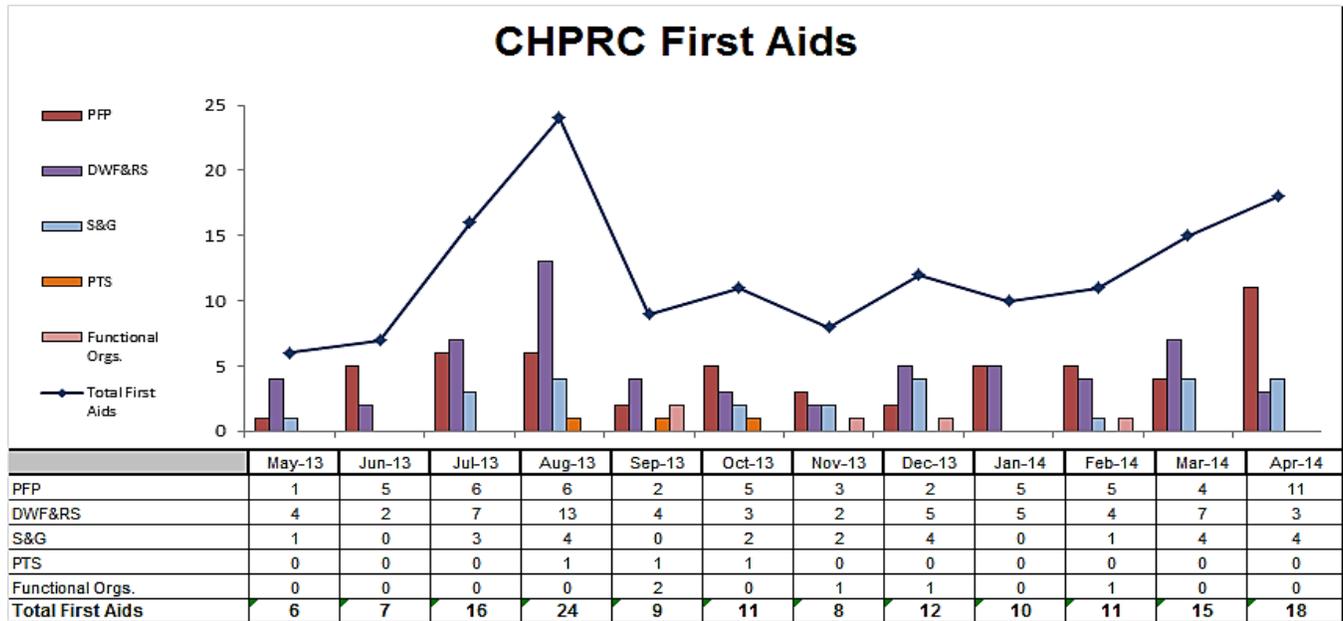


**Total Recordable Injury Case (TRC) Rate** – The 12 month rolling average TRC rate of 0.73 is based on a total of 10 recordable injuries (6 recordable and 4 DART cases). There were no Recordable cases in April. Two cases are being evaluated/investigated for potential recordability.



**Days Away, Restricted or Transferred (DART) Workdays Case Rate** – The 12 month rolling average DART rate of 0.29 is based upon a total of four Days Away cases. There were no DART cases in April 2014. CHPRC has worked 1.5 million hours without a DART case.

Actions to address Recordable & DART injuries have included: 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.



**First Aid Case Summary** – CHPRC reported 18 first-aid cases in April 2014; of these 18 cases, 9 cases required no treatment. An additional two cases were self-treated. The contributors were seven Sprains/Strains/Pains, six abrasions/contusions, four miscellaneous injuries and one insect bite.

### KEY ACCOMPLISHMENTS

**Projects**

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

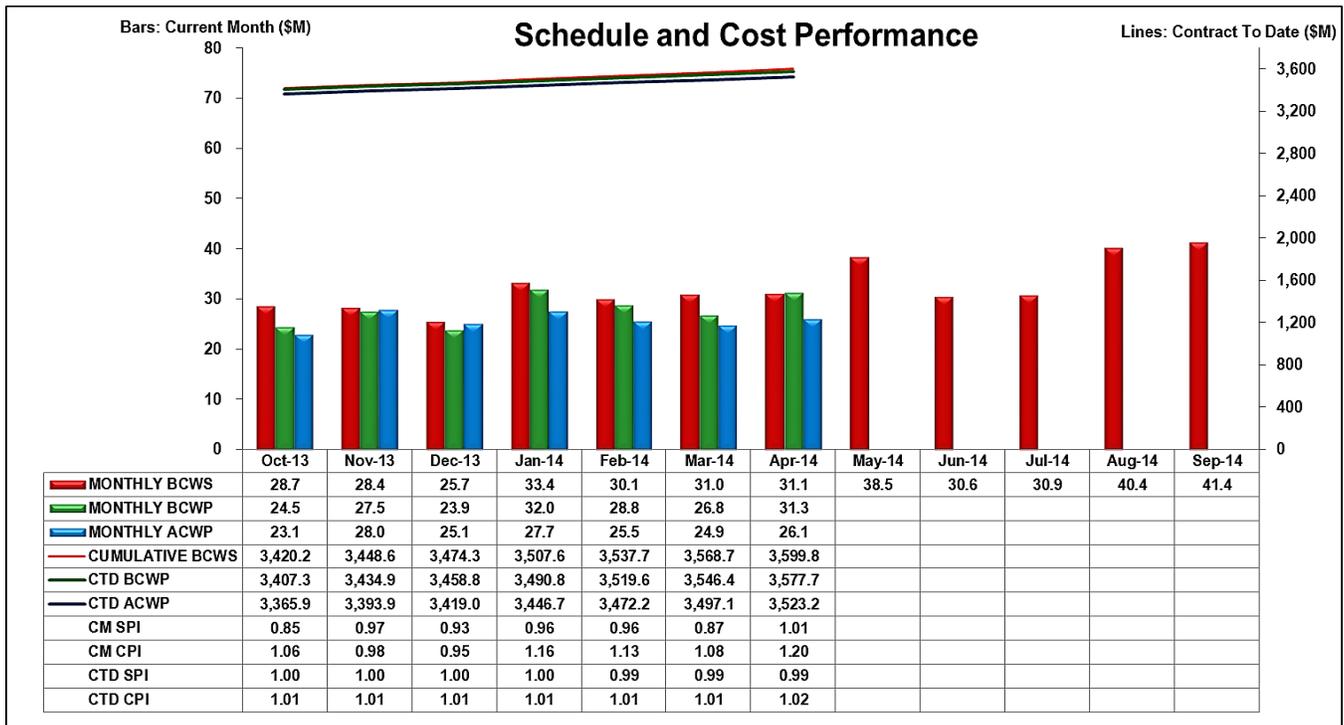
**Project Services and Support**

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

### MAJOR ISSUES

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

## EARNED VALUE MANAGEMENT



	\$M					\$M					\$M			
	Current Period					Contract to Date					Contract Period			
	Budgeted Cost		Actual Cost	Variance		Budgeted Cost		Actual Cost	Variance					
	BCWS	BCWP	ACWP	Schedule	Cost	BCWS	BCWP	ACWP	Schedule	Cost	BAC	EAC	Variance	
RL-0011 - Nuclear Materials Stab & Disp PFP	8.6	6.8	7.5	(1.8)	(0.7)	682.4	659.5	693.0	(22.9)	(33.5)	933.4	955.5	(22.1)	
RL-0012 - SNF Stabilization & Disposition	4.3	4.9	4.4	0.6	0.5	412.9	412.7	421.8	(0.2)	(9.1)	692.5	705.9	(13.3)	
RL-0013 - Solid Waste Stab & Disposition	7.6	7.3	5.5	(0.3)	1.8	838.4	838.3	810.6	(0.1)	27.7	1,342.4	1,269.1	73.4	
RL-0030 - Soil & Water Rem-Grndwtr/Vadose	8.6	10.4	7.5	1.8	2.9	959.4	961.6	949.8	2.2	11.8	1,518.4	1,498.4	19.9	
RL-0040 - Nuc Fac D&D - Remainder	0.9	0.8	0.9	(0.1)	(0.0)	383.2	382.1	352.3	(1.0)	29.9	491.8	459.9	31.9	
RL-0041 - Nuc Fac D&D - RC Closure Project	0.9	0.8	0.2	(0.1)	0.7	306.3	306.2	281.0	(0.0)	25.2	392.9	368.4	24.5	
RL-0042 - Nuc Fac D&D - FFTF Project	0.2	0.2	0.1	(0.0)	0.1	17.2	17.2	14.7	0.0	2.6	26.5	24.1	2.3	
(Numbers are rounded to the nearest \$0.1M)	<b>Total</b>	<b>31.1</b>	<b>31.3</b>	<b>26.1</b>	<b>0.2</b>	<b>5.3</b>	<b>3,599.8</b>	<b>3,577.7</b>	<b>3,523.2</b>	<b>(22.1)</b>	<b>54.5</b>	<b>5,398.0</b>	<b>5,281.4</b>	<b>116.6</b>

### Performance Summary

CHPRC continues to track completion of contract scope within budget and is currently projecting a Variance at Completion of \$116.6M with \$79.8M of Management Reserve for a total positive variance of \$196.4M.

- For April, the project was 0.7% ahead of schedule and 16.8% under planned cost. For FY2014, the project is 6.4% behind schedule and 7.5% under planned cost. Schedule performance in April is within reporting thresholds. Overall cost performance in April is attributed to RL-0030, due to efficiencies realized in integrated fieldwork account by reducing subcontracts, lowering the number of phones, returning rentals, and loaning labor to other projects. The KR4, KX, and K West Pump

and Treat facilities did not experience the planned level of equipment failures or operational upsets. In addition, realization of planned efficiencies in multiple projects contributed to the variance.

## 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	106.9	104.6	2.3
RL-0012	Spent Nuclear Fuel Stabilization and Disposition	72.2	68.4	3.8
RL-0013	Waste and Fuels Management Project	83.9	82.8	1.1
RL-0030	Soil, Groundwater and Vadose Zone Remediation	121.5	118.6	2.8
RL-0040	Nuclear Facility D&D, Remainder of Hanford	13.2	12.7	0.5
RL-0041	Nuclear Facility D&D, River Corridor	10.1	7.6	2.5
RL-0042	Fast Flux Test Facility Closure	2.3	1.7	0.6
<b>Total Base:</b>		<b>410.0</b>	<b>396.4</b>	<b>13.6</b>

#### Funds/Variance Analysis:

FY2014 Projected Funding did not change in April and remains at \$410.0M.

## BASELINE CHANGE REQUESTS

In April 2014, CHPRC approved and implemented seven (7) BCRs. The change requests are identified in the table below:

Change Request #	Title	Summary of Change
<b>Implemented into the Earned Value Management System for April 2014</b>		
BCR-012-14-003R0	<i>Annex Construction Realized Risks</i>	This BCR uses Management Reserve to address unplanned work scope associated with realization of risks identified in the CHPRC risk register. This BCR increased the PMB by \$1,603K.
BCR-013-14-011R0	<i>CO #249 NTE, Installation of Transfer Line from ERDF to 200W P&amp;T</i>	This BCR implements Contract Modification (CM) #330, Change Order (CO) #249, <i>Installation of Leachate Transfer Line from ERDF to 200W P&amp;T</i> , and the associated Not to Exceed (NTE) value of \$550K (unburdened). This BCR increased the PMB by \$668K.
BCR-030-14-005R0	<i>CO #227, Modutank and Investigative Derived Waste Changed Regulatory Requirements and Ground Water Procedure Updates</i>	This BCR implements RL direction to implement CM 315, which definitizes CO #227, <i>Modutanks and Investigation Derived Waste Changed Regulatory Requirements and Groundwater Procedure Updates</i> . This change increased the PMB by \$1,856K.
BCR-030-14-007R0	<i>Incorporate NTE for CO #250, 100-D-100 Soil Sampling</i>	This BCR implements CM #319, CO #250, <i>100-D-100 Soil Sampling</i> , and the associated NTE value of \$1,100K (burdened). This change increased the PMB by \$1,100K.
BCR-030-14-009R0	<i>Transfer of 300 Area Uranium Treatment from CLIN 7</i>	This BCR transfers schedule activities from CLIN7 to the PMB that were inadvertently over-looked in BCR-PRC-14-001R0, FY2014 Work Authorization. The activities transferred were zero value and did not impact the PMB. Actions in BCR-PRC-14-001R0 were directed by RL via letter number 1304222A, Contract No. DE-AC06-08RL14788 – Work Authorization for Fiscal Year (FY) 2014. This BCR did not change the value of the PMB.
BCR-030-14-010R0	<i>Incorporate NTE for CO #251, 200-UP-1 Uranium Treatment at 200W Pump and Treat</i>	This BCR implements CM #320, CO #251, <i>Provide 200-UP-1 Uranium Treatment at 200 West P&amp;T</i> , and the associated NTE value of \$4,600K (burdened). This change increased the PMB by \$4,600K.
BCR-PRC-14-011R0	<i>Base Year Shift in Support of FY15 PMB Update</i>	This BCR prepares P6 and Cobra files for initiating the FY2015 Annual PMB Update. Resources in the PMB that start after October 1, 2014 received a Base Year Shift at the escalation rate of 2.3%. The Base Year Shift brings the resource pricing forward to the current Base Year (FY2015). Labor and Waste resources are quantity based resources, so the rates are increased by 2.3%. Therefore, the quantity for labor and waste resources remains unchanged during the Base Year Shift. All resources other than labor and waste are dollar based resources. When the Base Year Shift is applied to dollar based resources, the quantities are increased by 2.3%. As such, the overall cost does not change during the Base Year Shift. This BCR did not change the value of the PMB.

### Management Reserve Activity

BCR Number	Title	Fiscal Year	MR
BCR-012-14-003R0	<i>Annex Construction Realized Risks</i>	2014 - 2018	-\$1,603K
BCR-030-14-005R0	<i>CO #227, Modutank and Investigative Derived Waste Changed Regulatory Requirements and Ground Water Procedure Updates</i>	2014 - 2018	-\$2,112K

Management Reserve decreased by a total of \$3,715K during April.

### Fee Activity

BCR Number	Title	Fiscal Year	Fee
BCR-030-14-005R0	<i>CO #227, Modutank and Investigative Derived Waste Changed Regulatory Requirements and Ground Water Procedure Updates</i>	2014 - 2018	\$125K

Fee increased by a total of \$125K during April.

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):

### April 2014 Summary of Changes

	FYs 2009-2013	FY2014	FY2015	FY2016	FY2017	FY2018	FYs 2014-2018	Contract Period Total	Total PMB
<i>March 2014 Estimate</i>									
PMB	3,391,477	382,319	434,125	425,453	372,722	382,041	1,996,660	5,388,137	5,388,137
MR	0	5,000	7,250	21,000	21,000	29,300	83,550	83,550	83,550
Fee	155,504	14,200	13,480	19,800	8,800	16,600	72,880	228,384	228,384
<b>Total</b>	<b>3,546,981</b>	<b>401,519</b>	<b>454,856</b>	<b>466,253</b>	<b>402,522</b>	<b>427,940</b>	<b>2,153,090</b>	<b>5,700,071</b>	<b>5,700,071</b>
<i>April 2014 Change</i>									
<b>PMB</b>									
<i>Change to PMB</i>	0	7,664	509	523	561	570	9,827	9,827	9,827
<b>MR</b>									
<i>Change to MR</i>	0	-1,300	0	0	0	-2,415	-3,715	-3,715	-3,715
<b>Fee</b>									
<i>Change to Fee</i>	0	125	0	0	0	0	125	125	125
<b>Total Change</b>	0	6,489	509	523	561	-1,845	6,238	6,238	6,238
<i>April 2014 Estimate</i>									
PMB	3,391,477	389,983	434,634	425,976	373,283	382,610	2,006,487	5,397,964	5,397,964
MR	0	3,700	7,250	21,000	21,000	26,885	79,835	79,835	79,835
Fee	155,504	14,325	13,480	19,800	8,800	16,600	73,005	228,509	228,509
<b>Total</b>	<b>3,546,981</b>	<b>408,008</b>	<b>455,365</b>	<b>466,776</b>	<b>403,083</b>	<b>426,095</b>	<b>2,159,328</b>	<b>5,706,309</b>	<b>5,706,309</b>

**Changes to/Utilization of Management Reserve in April 2014**

	FY2009-2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2014-2018	Total
<b>March 2014 MR Totals</b>								
RL-0011	0	1,800	3,000	8,000	8,000	0	20,800	20,800
RL-0012	0	1,300	2,000	3,000	5,000	4,200	15,500	15,500
RL-0013	0	500	500	2,000	800	6,500	10,300	10,300
RL-0030	0	750	1,000	3,000	2,500	7,500	14,750	14,750
RL-0040	0	300	400	1,500	1,800	4,000	8,000	8,000
RL-0041	0	300	300	3,450	2,800	7,000	13,850	13,850
RL-0042	0	50	50	50	100	100	350	350
<b>Total</b>	<b>0</b>	<b>5,000</b>	<b>7,250</b>	<b>21,000</b>	<b>21,000</b>	<b>29,300</b>	<b>83,550</b>	<b>83,550</b>
<b>April 2014 MR Changes/Utilization</b>								
<b>RL-0011</b>	0	0	0	0	0	0	0	0
<b>RL-0012</b>	0	-1,300	0	0	0	-303	-1,603	-1,603
<b>RL-0013</b>	0	0	0	0	0	0	0	0
<b>RL-0030</b>	0	0	0	0	0	-2,112	-2,112	-2,112
<b>RL-0040</b>	0	0	0	0	0	0	0	0
<b>RL-0041</b>	0	0	0	0	0	0	0	0
<b>RL-0042</b>	0	0	0	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>-1,300</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-2,415</b>	<b>-3,715</b>	<b>-3,715</b>
<b>April 2014 MR Totals</b>								
RL-0011	0	1,800	3,000	8,000	8,000	0	20,800	20,800
RL-0012	0	0	2,000	3,000	5,000	3,897	13,897	13,897
RL-0013	0	500	500	2,000	800	6,500	10,300	10,300
RL-0030	0	750	1,000	3,000	2,500	5,388	12,638	12,638
RL-0040	0	300	400	1,500	1,800	4,000	8,000	8,000
RL-0041	0	300	300	3,450	2,800	7,000	13,850	13,850
RL-0042	0	50	50	50	100	100	350	350
<b>Total</b>	<b>0</b>	<b>3,700</b>	<b>7,250</b>	<b>21,000</b>	<b>21,000</b>	<b>26,885</b>	<b>79,835</b>	<b>79,835</b>

## 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 -4/31/2014				Projection to FY2018	
Reporting Category				Planned Subcontracting:	\$2,406,850,560
	\$ Value	%	Goal %	Contract-to-date awards:	\$2,085,564,971
				Bal remaining to award:	\$321,285,589
				Goal award\$	Bal to Goal
SB	\$1,034,466,826	49.60%	49.3%	\$1,186,577,326	\$152,110,500
SDB	\$180,668,058	8.66%	8.2%	\$197,361,746	\$16,693,688
SWOB	\$200,089,195	9.59%	7.5%	\$180,513,792	-\$19,575,403
HUB	\$32,605,145	1.56%	2.2%	\$52,950,712	\$20,345,567
VOSB	\$119,859,516	5.75%	3.5%	\$84,239,770	-\$35,619,746
SDVO	\$56,410,868	2.70%	1.3%	\$31,289,057	-\$25,121,810
NAB	\$30,079,392	1.44%	N/A	PRC clause H.20 small business requirement ≥ 17% of total Contract Price performed by SB.	
Large	\$562,390,525	26.97%	N/A		
GOVT	\$2,129,828	0.10%	N/A		
GOVT CONT	\$482,866,522	23.15%	N/A		
EDUCATION	\$91,637	0.00%	N/A	Total Contract (mod 329):	\$5,696,818,974
NONPROFIT_	\$3,408,780	0.16%	N/A	17% rqmt:	\$968,459,226
FOREIGN	\$210,853	0.01%	N/A	SB actual:	\$1,034,466,826
<b>Total</b>	<b>\$2,085,564,971</b>	<b>100.00%</b>	<b>N/A</b>	<b>Bal to rqmt</b>	<b>-\$66,007,600</b>

### Notes:

1. Since the CHPRC contract award in October 2008, CHPRC has subcontracted over \$2.08B in goods and services with over 49.6 percent going to small businesses. Nearly all subcontracting goals have been exceeded.
2. Approximately 93 percent 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
<b>CONTRACT</b>			
J.12/C.2.3.6	PBS-13, Transuranic Waste Certification	WIPP provides shipping resources and manages the schedule for transportation of these containers to WIPP. The schedule is variable and the number of shipments is controlled by DOE-HQ on a complex-wide priority. Cost for shipment of TRU waste offsite is borne by the Carlsbad Field Office.	Ongoing

# Section A

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



**J. M. Swartz**  
Vice President for  
PFP Closure Project

April 2014  
CHPRC-2014-04, 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.
- The project is currently undergoing a revision of the field execution schedule to assist the project in better execution to the Performance Measurement Baseline. As part of this effort Metrics are being developed and will begin to be socialized in the Project Summary starting in May, 2014.

<i>Key Performance Indicators</i>	<i>Current Month</i>	<i>Contract To Date</i>
Glovebox/ Hood Removed or Dispositioned in Place	1	202 gloveboxes/hoods
KPP Rooms/Areas Ready for Demo	-	60 rooms/areas
Asbestos/ACM Removed	-	17,491 feet
Process Vacuum Piping Dispositioned	-	2,545 feet
Process Transfer Line Dispositioned	-	1,153 feet
Pencil Tank Units Removed	-	130 pencil tank units
Buildings Ready for Demo	-	32 structures
Buildings Demolished or Removed	-	32 structures
Non-radioactive Waste Shipped	-	42 m <sup>3</sup>
TRU/TRU-M Shipped	14 m <sup>3</sup>	1,341 m <sup>3</sup>
LLW/MLLW Shipped	101 m <sup>3</sup>	4,536 m <sup>3</sup>

Removal of plutonium-contaminated process equipment continued, with a particular focus on removing gloveboxes, associated piping, and ductwork. The total gloveboxes removed to date is now at 87 percent complete.

- Removed HA-10 Glovebox out of 235-A3 and handed off to PFP Waste Operations for final disposition to PFNW.
- Pencil Tank 16 was shipped.
- Completed size reduction and seal out of Pencil Tank 31/28 and handed off to PFP Waste Operations for final disposition.
- Started size reduction of Pencil Tank 69/70.
- Initiated training on new Breathing Air (PreMaire) System to support entries into the 242-Z Facility.
- Maintenance “air gapped” the 23405Z 17 inch vacuum system in 291-Z

## 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	Completed 12/19/13
			Combine applicable parts of past air license compliance matrix and internal NESHAP inspection checklist	3/31/14	Completed 3/31/14
			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	Completed 12/12/13
			Review & comment on the modification of an existing asbestos characterization plan Desk Instruction (DI)	1/31/14	Completed 2/24/14
			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	2	N/A
Total Recordable Injuries	0	5	N/A
First Aid Cases	11	55	<ul style="list-style-type: none"> <li>• 4/2/2014 – Employee stepped into gap between scaffolds, lost his footing and hit left thigh on plank. (23349)</li> <li>• 4/2/2014 – Employee conducted radiological surveys from a single wide scaffold, in an awkward position causing strain on lower back (23351)</li> <li>• 4/3/2014 – Employee lifted waste bag from overfilled waste can resulting in overexertion (23352)</li> <li>• 4/7/2014 – Employee slipped on wet spot in lunchroom and hit his right hand on tabletop (23353)</li> <li>• 4/7/2014 – Employee felt pain on March 26, pain continued, First Aid diagnosed shoulder-upper arm, strain- sprain (23355)</li> <li>• 4/8/2014 – Employee stepped on edge of sidewalk, rolled right ankle, and fell onto right elbow (23354)</li> <li>• 4/17/2014 – Employee was diagnosed at HPMC with tinnitus in both ears (23367)</li> <li>• 4/17/2014 - Employee was diagnosed at HPMC with tinnitus in both ears (23368)</li> <li>• 4/23/2014 – Employee noted shoulder was sore during material surveys. HPMC provided OTC NSIADs, exercises, and recommendation to switch arms for surveys (23373)</li> <li>• Employee experienced sharp pain in lower back while unloading laundry bags. HPMC diagnosed lower back/lumbar sprain/strain (23376)</li> <li>• Employee struck hard hat on pipe, taken to HPMC with contusion to scalp/neck (23379)</li> </ul>
Near Misses	0	0	N/A

## KEY ACCOMPLISHMENTS

### 11.02 Maintain Safe & Compliant PFP

- Released CHPRC-57206, *Criteria Document for the Plutonium Finishing Plant 2014 Safety Basis Annual Update*.
- Completed installation of new instrument air compressors. Currently in testing mode and expected to be fully operational in May.

### 11.05 Disposition PFP Facility

#### 242-Z

- Continued work package planning for 242-Z
- Initiated training on new Breathing Air (PreMaire) System to support entries into the 242-Z Facility

**RMA**

- Moved HA-10 out of 235-A3 and handed off to PFP Waste Operations for final disposition to PermaFix Northwest
- Installed glovebag, tested, certified, and removed load in port on HA-7A

**RMC**

- Completed installation of 228C Mezzanine support structure
- Activated 24" port on HC-5B for the HC-9B, HC-7C GB's in Room 228-A
- Removed dilute nitric and concentrated nitric lines from HC-7C
- Removed line 17 cap above HC-7C
- Packaged waste from HC-9B mid-level

**Backside Rooms**

- Drained HC-4 tanks A through G.
- Initiated strip-outs and downsizing of internal equipment in HC-4

**Plutonium Reclamation Facility (PRF)**

- Pencil Tank Size-Reduction
  - Pencil Tank 16 was shipped
  - Completed size reduction and seal out of Pencil Tank 31/28A and handed off to PFP Waste Operations for final disposition
  - Started size reduction of Pencil Tank 69/70

**Cold and Dark**

- Maintenance "air gapped" the 2340-5Z 17 inch vacuum system in 291-Z

## MAJOR ISSUES

**Issue – Hazards associated with utilization of a foaming agent for fixing contamination in gloveboxes result in an exothermic reaction that could cause a self-ignition** - 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, not related directly to the exothermic reaction, 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 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 April, the Initiative to implement capabilities to foam components within 234-5Z, 242-Z, and 236-Z progressed.

- Continued revision to the Fire Hazard Analysis
- Executed expression of interest phase of the procurement cycle for demonstration/mock-up foam pours.
- Transported mock-up glove box to maintenance shop for modification to allow three different foams to be poured during the demonstration phase of the initiative, scheduled for June 2014.

**Issue – Inability to accomplish two Breathing Air entries per day into the 242-Z Americium Facility due to usage of Bottle Carts versus Use of Larger Breathing Air Compressors** - During a Value Engineering (VE) study that was conducted in the spring of 2013, an initiative began 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, 2016.

**Compressor Status** –

- Two systems arrived at Hanford on April 1, 2014. Vendor representatives performed initial startup and training for the Breathing Air Unit deployed to HAMMER.
- The second Unit is to be deployed to PFP in May.
- Breathing Air Units will be ready for deployment in June 2014.

**Training Status** – PFP Special Projects and the 242-Z D&D Manager are working with HAMMER Training on the PremAire Respirator Training and performing the donning and doffing OJE/OJET. Train the Trainer was completed at HAMMER. Worker training will begin in May.

**Issue** – The existing DSA does not address physical demolition of PFP facilities or leaving high hold-up items in-place for targeted excision during the demolition phase.

**Corrective Action** – Assemble a team of nuclear safety professionals to develop step out conditions and criteria for the existing facility safety systems. Effort will culminate in a revision to the PFP DSA for the final deactivation and demolition phases of the mission.

**Status** – Team for initial training has been assembled and has begun evaluating material form and distribution aspects of accident scenarios, as necessary for developing more accurate and reasonable accident consequences.

- Completed draft Safety Basis Approach and Planning Document
- Completed draft DSA Criteria Document
- Finalized D&D Strategy and Sequencing to support Accident Analysis

**Issue – PFP Stop Work Issued on work involving the mechanical cutting of piping, tanks, or ducts** - While using a porta-band to size reduce a demister line in a glove bag, employees heard a bang and saw an orange-reddish flame flash out the open end of the pipe. There were no signs of damage to the pipe or to the bag; no indications of airborne radioactivity on area CAMs and post job surveys did not detect any spread of contamination. Work packages which have similar demister pipe removal activities were immediately suspended pending investigation and incorporation of possible corrective actions.

**Corrective Action** - A sampling plan is being developed to collect material from inside the bag, collect vapor samples from the demister tank and associated piping, and collection of video and pictures from inside the piping will be sent to the labs (e.g., 222S) for analysis. In addition, a PhD chemist has been contracted to assist the project in understanding why and how this happened.

**Status** - The glove bag has remained intact since the incident, and there are no signs of damage or degradation to the glove bag. There have been no indications of airborne radioactivity on area CAMs, and post job surveys did not detect any spread of contamination. The condition remains stable, and the glove bag is still being drawn on by ventilation and is maintained under negative pressure. The sampling team has collected gas samples from the glove bag and sent them to an off-site laboratory for testing. Liquid samples from the piping and demister tank are being taken and will also be sent for testing and analysis. As results are received, communication will be made to the work force and steps will be taken to step out of the stop work condition.

### 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	
<b>RL-011/WBS 011</b>				
<b>Overarching PFP Risks</b>				
PFP-009: Aging Building Systems/Components Problems Impact Planned D&D Activities	Included life extension upgrades as part of FY-14 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.			Teams finished EMP Rev.1 actions and the submittal letter was sent over to DOE by the March 2014 due date. Maintenance activities will continue to be performed to keep the facility in a safe and compliant configuration until such time as the MAR has been removed and the DSA back-out plan has been implemented.
PFP-062: Ability to Use Permafix Northwest for Glovebox Size Reduction	In the event of Perma-Fix Northwest closing PFP is continuing to evaluate the appropriate team sizes to perform size reduction efforts. In addition PFP will continue to work with CWC for long term storage capabilities.			In the event RL delays off-site shipments to PFNW, PFP will ship to CWC using the approved HNF-0063 Exception letter. However the exception only allows a 6 month hold time until CWC would have to ship to PFNW. In March of 2014 we requested a shipment date for HA-40F on April 16, 2014. Using the prescribed direction from RL, which requires a three week notification, RL delayed that date to allow EM-33 an additional two weeks review of the shipment documentation. RL then notified us they would like to ship on 4/25/14 which caused PFP to ask for Friday off resources (overtime) to accomplish this shipment. The shipment was completed without incident.
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, 2013. Investigation completed in the month of March, 2013. 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.

Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
<b>RL-011/WBS 011</b>				
<p>PF-079 – Extend Respiratory Protection Time &amp; Operating Efficiencies</p>	<p>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.</p>	●	↑	<p>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&amp;D path forward.</p>
<p>PF-083: System Back-Out Plan Implementation Extends Schedule</p>	<p>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.</p>	●	↔	<p>Finalizations of the back-out planning efforts are under-way to support the revision of the field execution schedule to assist the project in better execution to the Performance Measurement Baseline. It is expected that this effort will be completed by the end of May, 2014.</p>
<p>PF-089: OPP: 4X10 Shift Schedule</p>	<p>Extending the work day to 10 hours and strict adherence to allotted ARA entry times, allows for two 3.5 hour ARA entries per day on powered air purifying hood respirators (PAPR) and two 2.5 hour and a third 1.5 hour ARA entries per day wearing a tight fitting face piece respirator. 80% of facility ARA work is performed on PAPR respiratory protection equipment. Fully implemented, this tactic provides 4 additional hours of ARA work each day while wearing PAPRs. Extrapolated over a two week period, this opportunity represents 29 additional ARA hours in PAPR over the baseline. Similarly, this opportunity represents 25 additional ARA work hours every two weeks over the baseline.</p>	●	↔	<p>On February 3, 2014, PFP implemented the 4X10 shift schedule and efficiencies will be tracked and monitored via current reporting tools.</p>
<p>PF-086: Alternate/Temporary System Capabilities Required Prior to Building Demolition</p>	<p>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.</p>	●	↔	<p>Alternate temporary facility system services and functions beyond those currently planned may be required to support building demolition. Currently identifying MAR that may remain and identifying CHPRC and DOE decision points to deactivate ventilation and fire systems. Evaluating 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</p>
<p>PF-091: Approval of DSA Revisions</p>	<p>A team of professionals is being assembled to develop the DSA revision to support open air demolition of a Haz Cat II PFP. This effort will be managed as an independent project from PFP daily activities. A partnering approach will be established with RL SMEs and management to expedite the effort and flush out concerns or obstacles early on. This risk is a bounding assumption associated with completion of PFP to Slab-On-Grade.</p>	●	↔	<p>Staff is in place to support development of two DSA revisions and on track for annual submittal in November, 2014.</p>

Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
<b>RL-011/WBS 011</b>				
<b>242-Z Risks</b>				
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-242-05: RM 134 Modifications for size reduction & load out from 242-Z are not authorized	Develop the air-flow, fire protection, and structural requirements during the planning stage to allow for the wall between 242-Z and 234-5Z to be removed. Execute the demolition in accordance with the plan. Identify response team to respond to discoveries proactively to maintain progress.			Working with field teams to develop more efficient and less intrusive waste load out capabilities.
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.
<b>291-Z Risks</b>				
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.
<b>Balance of Plant Decontamination/Decommissioning Risks</b>				
PFP-BOP-01: More Extensive Cleanout/Decon Required	Develop and implement a more detailed process facility characterization plan. Determine and obtain approval for ready-for-demolition criteria (contamination removal/cleanup endpoints prior to building demolition). Early characterization provides an opportunity to avoid project schedule impact. Identify approvals required and quantities/materials that may be exempted from removal (i.e. floor tiles, transite, electrical, etc.).			During the month of April, characterization efforts continued in the duct level following the sampling plan as developed by the Environmental Director at PFP
PFP-BOP-02: Overall D4 Schedule Impacts From Interferences Between Sub-projects	The facility has developed an integrated priority list for all in-plant activities for resource assignment in accordance with priority. PFP has developed team communication meetings to prioritize resources on a daily basis. External facility resources are prioritized through MSA between PRC subprojects. These techniques ensure the resources are assigned to the highest priority work. Identify new D&D filed teams to conduct Walkdowns and Workpackage development to improve interfaces within subprojects.			Evaluation of additional field teams to start work in the duct level continued through the month of April. To mitigate schedule slippage characterization efforts are under way for E4 ducting/Filterboxes to determine waste disposition paths. In addition, field team sizes will continue to be evaluated to ensure resources are available when needed to support the duct level work efforts when glovebox removal activities are complete. In addition, efforts are under way to develop a BCR that will implement balance of 234-5Z area approach vs. system approach. It is expected that this BCR will be implemented into the baseline in July, 2014.

Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
<b>RL-011/WBS 011</b>				
<b>PFP Demolition Risks</b>				
PFP-DEMO-02: Air Modeling Increases Equipment Removal/Decontamination for Demo	Work with the CHPRC environmental to ensure that an understanding of equipment, components, and residual material criterion are understood and bounded for air modeling. Once the residual material/contamination is quantified, work with regulators to identify controls to allow for equipment removal and demolition as planned. Develop and implement plans to document criterion are met.			The current air modeling plan is based on assumptions of what the facility conditions may be at the time before demolition. Characterization activities that are and will be performed will provide actual data that will be used in the model. Based on the model results, the project will make adjustments to its demolition approach. Field characterization survey plans are currently under development. A characterization survey plan has been developed for PFP ventilation, and field characterization of E4 ducting is under way. As resources allow, more characterization unit survey plans will be developed and added to work packages.
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.			D&D workers have been identified and are intermittently arriving at the PFP facility to support demolition of 9 ancillary facilities and also support D&D of the 242-Z facility. The full complement of D&D workers projected to support the PFP project will be on project by August, 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, 2016. D&D workers are intermittently arriving on the project. All requisitions are expected to be filled and individuals on project no later than July 1, 2014.
PFP-DEMO-18: ORR Required for PFP D4	The readiness activities schedule in the baseline is appropriate for the risk and complexity of the PFP & PRF demolition. Ongoing discussions will be conducted with DOE and DNFSB as required within the quarterly startup notification process. Additional resources may be added for preparation and review teams.			PFP efforts to upgrade the DSA to establish requisite conditions for the deactivation of vital safety systems, evaluate the unique hazards associated with the demolition phase of the project, and establish the commensurate control set for the remaining mission will validate the appropriateness of a readiness assessment versus Operational Readiness Review (ORR).
<b>PRF Cleanout/Decontamination Risks</b>				
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.			The PRF canyon crane is in service and pencil tank size reduction activities are on-going.

Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
<b>RL-011/WBS 011</b>				
PFP-PRF-21: OPP: 236-Z Floor/Pan Grouting	Following pencil tank removal, the PRF canyon floor will be vacuumed and wiped down. After completing that activity, the floor will be grouted to cover the pans and create a level working surface. From the grouted floor, residual canyon cleanout and wall decontamination will be performed. Upon completion of canyon cleanout, another grout cap will be placed to secure any residual contamination remaining on the floor prior to demolition. This approach eliminates the effort to remove the stainless steel pans from the slab (a process that would damage the slab according to engineering analysis), reduces contamination levels on the floor, correspondingly improving efficiency of manned entries for other canyon decontamination and cleanout efforts, and stabilizes floor contamination from a criticality and contaminant dispersion perspective.			This is work that will be performed in FY2015. In preparation, a grouting concept will need to be developed and a grout specification will need to be prepared. This activity will require a revised CSER calculation and DSA USQ evaluation. A Plant Force Work Review (PFWR) will be processed. A grouting Contract SOW, RFP, Bid Evaluation, and award will be issued. Grout procurement and grout conveyance equipment RFPs, Bid Evaluations, and awards will be issued. A grout testing contract SOW, RFP, Bid Evaluation, and award will be issued. Work Packages will be prepared. Conveyance equipment will be installed. Grout will be delivered, tested and pumped.
<b>RMA/RMC Glove Box Removal Risks</b>				
OPPORTUNITY: PFP-GB-01A: High Gram Box Disposition - FOAM	The responsibility for the implementation on the use of expanding foam at PFP has been assigned to personnel within the PFP Special Projects organization and is essentially being managed as a project. Lessons learned from other DOE sites that have used expanding polyurethane foam for similar applications are being used to facilitate implementation at PFP. The Risk Evaluation Board (REB) will be used to employ senior management personnel from CHPRC and DOE-RL to help resolve any significant issues associated with the use of foam.			Efforts continue under the special projects organization to implement the foaming initiative to foam selected components throughout 234-5Z and 236-Z. In the month of December the project determined that an additional evaluation will be conducted to determine alternate foaming agents due to the fire analysis that was performed on desired foaming agent. In the month of February alternate foaming agents were received and testing/documentation of results are pending. The Statement of Work (SOW) is being revised and is slated to be sent out in the month of April with mock-up testing to be conducted the end of May.
PFP-GB-02: Glove boxes Isolation/Internal Strip out takes longer than planned	Utilize existing drawings, tools and techniques for equipment removal. Gram loading/NDA of gloveboxes has been obtained. Perform additional NDA to determine location of holdup. Perform surgical extraction of high gram items. Evaluate the use of foam or other fixatives to expedite cleanout.			Continue to work with field teams to plan upcoming isolations on remaining gloveboxes.

## 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	8.6	6.8	7.5	(1.8)	-20.8%	(0.7)	-9.8%

Numbers are rounded to the nearest \$0.1M

#### CM Schedule Variance: (-\$1.8M/-20.8%)

Current Month unfavorable schedule variance is due to re-sequencing work in the 242-Z Americium Facility, to align with the availability of D&D workers delaying preparations and initial entry activities in support of 242-Z. The 234-5Z duct level work has been re-planned to align with an area vs. system approach and a change in the PFP demolition sequence changing the need for work in the duct level to start later in the Fiscal Year. In addition, resource availability to support work efforts in the 236-Z facility have been impacted as a result of unanticipated attrition of RCT and NCO's lamping on positions to support other Hanford Contractors. Apportioned activities in the D&D Project Support account that align with the delays in discrete D&D work scope, primarily balance of 234-5Z work scope are also contributing to this variance.

#### CM Cost Variance: (-\$0.7M/-9.8%)

The current month unfavorable cost variance is within reporting thresholds.

## Contract-to-Date

(\$M)

WBS 011/ RL-0011 Nuclear Matl Stab & Disp PFP	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)
Total	682.4	659.5	693.0	(22.9)	-3.4%	(33.5)	-5.1%	933.4	955.5	(22.1)

Numbers are rounded to the nearest \$0.1M

#### CTD Schedule Variance (-\$22.9M/-3.4%)

The Schedule Variance is within reporting thresholds.

#### CTD Cost Variance (-\$33.5M/-5.1%)

The Cost Variance is within reporting thresholds.

#### Variance at Completion (-\$22.1M/-1.7%)

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 March to April are a result of re-sequencing remaining work-scope to get the PFP Project to Slab on Grade by September 2016.

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

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

WBS 011/RL-0011 Nuclear Matl Stab & Disp PFP	FY2014		
	Projected Funding	Spending Forecast	Spend Variance
RL-0011	106.9	104.6	2.3

Numbers are rounded to the nearest \$0.1M

**Funds/Variance Analysis**

Projected Funding remained at \$106.9M. The spending forecast was increased from \$98.9M to \$104.6M due to resource and material adjustments.

**Critical Path Schedule**

The PFP critical path runs through size reduction of the Plutonium Reclamation Facility (PRF) Pencil Tanks, Decontaminating/Scabbling/Fixing the PRF Canyon, Prepping the Gallery Gloveboxes and turning PRF into a Cold & Dark facility. This achieves completion of the M-083-44A TPA – *Complete Transition of 234-5Z & ZA/243-Z/291-1 & 291-Z Facilities* – and kicks off demolition of the 242-Z/242-ZA and 236-Z facilities leading to completion of the final TPA milestone – M-083-00A, *PFP Facility Transition and Selection Disposition Activities*.

**Baseline Change Requests**

BCR-PRC-14-011R0 – *Base Year Shift in Support of FY2015 PMB Update*

BCRA-PRC-14-013R0 – *HPIC Updates*

## 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 two year look ahead of commitments and Tri-Party Agreement enforceable milestones.

Number	Title	Due Date	Actual Date	Forecast Date	Status/ Comment
M-083-44A	Complete Transition of 234-5Z and ZA/243-Z/291-I & 291-Z Facilities	09/30/15		06/15/16	This Tri-Party Agreement completion has been impacted by sequestration and annual funding limitations. It is currently unattainable. However the project is on track to achieve completion of TPA-M-083-00A by 9/30/16
M-083-00A	PFP Facility Transition and Selection Disposition Activities	09/30/16		09/26/16	This Tri-Party Agreement completion is on track to meet a 9/30/16 completion date.

## SELF-PERFORMED WORK

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

**April 2014**  
CHPRC-2014-04, Rev. 0  
Contract DE-AC06-08RL14788  
Deliverable C.3.1.3.1 - 1

## PROJECT SUMMARY

- The Nuclear Safety and Performance Evaluation Board (NSPEB) has completed its evaluation of the Sludge Treatment Project (STP), 100K, and Central Plateau Surveillance and Maintenance (CPS&M) organizations. The evaluation focused on ten functional areas: Nuclear Safety & Compliance, Safety, Radiological Controls, Operations/Maintenance, Work Control, Quality Assurance, Training & Qualifications, Environmental/Waste Management, Engineering, and Management. The NSPEB team will prepare the draft evaluation report and present the results of the evaluation to CHPRC and project management on April 28, 2014.
- Engineered Container Retrieval and Transport System (ECRTS) Nuclear Safety Initiatives - the STP technical staff is proceeding with developing engineering and nuclear safety documentation supporting implementation of alternative strategies simplifying ECRTS design and operation. Once the engineering and nuclear safety documentation is updated, a revision of the Preliminary Design Safety Analysis (PDSA) will be submitted to RL, currently targeted for late this fiscal year. A life cycle cost benefit analysis for blending sludge streams was completed and the results of this analysis will be presented to RL at an Integrated Project Team meeting on May 5, 2014. RL must formally authorize blending sludge streams prior to CHPRC implementation.
- Proposals for two ECRTS Process Equipment Fabrication Master Contracts have been received and are currently undergoing technical evaluations. Basic Ordering Agreements (BOA) for the equipment fabrications are scheduled to be awarded in early May. Individual contract releases for specific equipment skids will then be competitively bid between the Contractors within the applicable BOA. Statements of work for ECRTS equipment are in development.
- The Sludge Transfer and Storage Container (STSC) vessel procurement will be a competitive solicitation leading to a multi-year contract with the offer providing the best value. An expression of interest request has been posted on the CHPRC Solicitation Website and several potential bidders have expressed interest in the workscope. Proposals from vendors are forecast for early June.
- The Integrated Process Optimization Demonstration (IPOD) continued as Maintenance and Storage Facility (MASF) personnel continued performing instrument loop calibrations of mux panels in the IPOD set-up by completing data logger calibrations and completing transfer and decant box calibrations. HiLine finished the UL508 inspections/modifications on the last three mux panels (PNL-202, PNL-401, and PNL-402). All three of the panels were delivered to MASF and mux panel installation is now complete. Engineering staff examined and reviewed potential impacts to the PNL-201 and data logger design concerning implementing the blending initiative. Possible solutions to some of the technical issues with the data logger will be examined when the IPOD mux system returns to enough functionality to operate the system to verify buoyant weight reached shut downs. This is expected following completion of the mux panel installation. Multiplexer procedure walk-through (IPOD Phase 2) and system operational walk-throughs have commenced which are approximately 50 percent complete. Baker tanks from 200 West Area Soil and Groundwater Project were transferred and relocated to MASF. These Baker tanks are owned by RL and are being repurposed and utilized as part of the IPOD test set-up for storing the test pool water when the test pool needs to be emptied for cleaning.
- 105KW Annex Construction completed the installation of mezzanine steel, shop fire coating application of steel members for the low bay steel, fabrication of steel members for intermediate bay steel, and the installation of the low bay ledger angle to support the start of the erection of low bay. Work continued on the concrete placement for the beam pockets in the mezzanine, fabrication of steel members for the high bay steel, and field fire coating application of steel members for the installed mezzanine. The project initiated field fire coating application of steel members for the installed mezzanine and received delivery of the HEPA filtration system stack.

- In-basin construction issued a request for proposal contractors for in-basin construction work for FY2014. The Facility Modification Permit (FMP) for installing cable trays in the east and center bays is in peer review. The Construction Work Authorization Envelope (CWAE) for in-basin construction work was completed and approved. Proposals were due in late April with contract award scheduled for May 1.
- T Plant Design received a letter from RL indicating that T Plant is H-4 occupancy for sludge receipt, handling, and storage. A meeting was held with RL on April 21 to discuss the plan and path forward. It was agreed in the meeting that STP would prepare an updated equivalency request for RL approval. STP will transmit a single equivalency request for RL approval for the six identified deficiencies to comply with an H-4 occupancy for the canyon, tunnel, and process cells. STP plans to prepare the draft equivalency by May 22, 2014.
- 100K Minimum Safe Engineering released three analysis: DD-57066 - fall protection tie-off analysis performed on the raw water tank ladder in order to access the top of the 1803K raw water tank to repair blown insulation from high winds; DD-57143 - temporary monorail to support lifting the approximately 200lb casing on the diesel fire pump for repair; and DD-67076 - utilize existing steel flanges on top of the 1803K raw water tank as fall arrest anchor points to support the insulation repair. Initiation of the fire pump repair uncovered more damage to the impeller than initially anticipated; the replacement rotating element is in the process of being procured. A troubleshooting package was developed to determine the reason why the internal pump in the evaporative cooler system was not functioning and was determined that the pump had failed and a replacement is currently being procured.
- The 105KE Roof Repair work package to develop an earthen ramp in order to place equipment to access, repair, and foam the roof was reviewed and signed off complete.
- The 105KW fire protection spill berms on the 32-ton crane columns were found to be deteriorated and CR-2014-0555 was generated to address the issues. The annual assessment report for KW-14A, Transfer Bay Crane was approved and released. Basin water evaporation white paper (DD-56785) and supporting calculation (DD-56784) to evaluate and quantify basin water loss is in the approval process. A quarterly walk-down report for KW-14A, Transfer Bay Crane, is complete. The debris basket table analysis (KBC-56512) to determine if the table can withstand the weight of the basket full of debris is in the review and approval process, this effort is in support of the dose rate and weighing campaign of debris in the basin. The Pressure Regulating Valve (PRV) on the back-up air compressor was replaced; the back-up compressor is used when the primary compressor fails and supports various equipment utilizing compressed air at 105KW.
- 100K Operations worked planning activities associated with, debris identification, dosing and relocation, dose rate of settler tubes, Motor Control Center (MCC)/Switchgear Outage, heating, ventilating, and air conditioning preventative and corrective maintenance, asbestos material cleanup of XO Lab, skimmer pump replacement including workability review and preparations of the work area, development of procedure for decontamination activities (which will include skimmer pump area and Dummy Elevator Pit handrail), solidifying liquid waste and annual Integrated Water Treatment System (IWTS) Filter Change out. They completed painting in the High Contamination Area (HCA) on and around the Skimmer Pump skid, conducted Emergency Preparedness and Operational Drills, decontamination of 105KW Basin sample sink in support of completing center of basin sampling and continued with preparations for running IWTS replacing PRV and testing the portable air compressor.

## EMS OBJECTIVES AND TARGET STATUS

None currently identified.

### TARGET ZERO PERFORMANCE

	CM Quantity	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	0	N/A
Total Recordable Injuries	0	0	N/A
First Aid Cases	1	8	04/12/14 - Employee was climbing up from a deck and scraped leg on an I-beam. Body part affected: Leg (23361)
Near-Misses	0	0	N/A

### KEY ACCOMPLISHMENTS

- The Nuclear Safety and Performance Evaluation Board (NSPEB) has completed its evaluation of the STP, 100K, and CPS&M organizations.
- Integrated Process Optimization Demonstration (IPOD):
  - o Completed data logger and transfer and decant box calibrations.
  - o HiLine finished the UL508 inspections/modifications on the last three mux panels (PNL-202, PNL-401, and PNL-402).
  - o Completed the mux panel installation.
  - o Transferred and relocated Baker tanks from 200 West area Soil and Groundwater Project to MASF.
- 105KW Annex Construction completed:
  - o the installation of mezzanine steel,
  - o shop fire coating application of steel members for the low bay steel,
  - o fabrication of steel members for intermediate bay steel and the installation of the low bay ledger angle to support the start of the erection of low bay.
- 100K Minimum Safe Engineering released
  - o the fall protection tie-off analysis (DD-57066) performed on the raw water tank ladder in order to access the top of 1803K raw water tank to repair blown insulation from high winds,
  - o an analysis (DD-57143) for a temporary monorail to support lifting the approx. 200lb casing on the diesel fire pump for repair,
  - o an analysis (DD-67076) to utilize existing steel flanges on top of the 1803K raw water tank as fall arrest anchor points to support the insulation repair.
- The 105KE Roof Repair work package to develop an earthen ramp in order to place equipment to access, repair, and foam the roof was reviewed and signed off complete.
- The 105KW the annual assessment report for KW-14A, Transfer Bay Crane was approved and

released. A quarterly walk-down report for KW-14A Transfer Bay Crane is complete. The PRV on the back-up air compressor was replaced, the back-up compressor is used when the primary compressor fails and supports various equipment utilizing compressed air at 105KW.

- 100K Operations completed painting in the HCA on and around the skimmer pump skid and decontamination of 105KW Basin sample sink in support of completing center of basin sampling.

### 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	
<b>RL-0012/WBS 012</b>				
STP-067A: Safety Significant Components  STP-067B – OPPORTUNITY: Safety Classification of SSC's	Integrate nuclear safety representation on design team to minimize potential for an increase in the classification of safety significant SSCs in the ECRTS Process System Design. The project will conduct in-process reviews of the draft PDSA with DOE to ensure reviewers fully understand the basis for current SSC safety classifications. The PDSA will be formally submitted to DOE-RL in July of 2013. Early procurements of SSC's may be initiated at a higher safety/quality level.			Staff is proceeding with developing engineering and nuclear safety documentation supporting implementation of alternative strategies simplifying ECRTS design and operation.
STP-072: Delayed STSC/ECRTS Procurement & Delivery	Identify qualified vendors up-front, Conduct fabricator on-site inspections, place CHPRC Quality Control staff at the vendor facility, Maintain a prioritized buyback list to initiate early procurements should additional funding be identified, and procure raw materials early to minimize commodity price fluctuations. Develop procurement bundles for equipment that can be prioritized based on funding, vendor availability, and safety documents.			Proposals for two ECRTS Process Equipment Fabrication Master Contracts have been received and are currently undergoing technical evaluations. STSC vessel procurement will be a competitive solicitation leading to a multi-year contract with the offer providing the best value. An expression of interest request has been posted on the CHPRC Solicitation Website.
STP-111B: Basin ECRTS Installation Contractor/ Subcontractor Performance	Closely coordinate, plan, and monitor construction using detailed field schedules to minimize impacts. Re-train construction personnel on procedures for performing construction activities. Include in baseline budget to cover additional management oversight support for construction, planning, safety and project management to accommodate the potential impacts. Interface between existing organizations will need to be closely coordinated, planned, and monitored. Mitigation strategy is to provide extensive oversight on subcontractors work scope.			In-Basin Construction issued a request for proposal to contractors for in-basin construction work for FY 2014. Proposals due in late April with contract award scheduled May.
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.			A Corrective Action plan is in place with the primary construction contractor. CHPRC has increased oversight over the contractor to ensure performance improvements are obtained. Current month performance recovered schedule associated with HEPA Procurement/Fabrication of the housing assembly. However, subcontractor performing coatings of structural steel is behind schedule.

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.			BCR processed in April to implement MR into the PMB baseline for realized risks associated with design issues.
STP-ANX-028: Annex Acquisition – Programmatic Risk	CHPRC is proceeding with contract strategy for the Annex Construction.			CHPRC is preparing a Change Proposal to address the cumulative impacts of sequestration and partial government shutdown for the Annex construction. Sequestration and partial government shutdown actions may have a resulting impact on the Annex Construction contractor outside of the original contract scope for directed stop & restart 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	4.3	4.9	4.4	0.6	14.8%	0.5	10.6%

Numbers are rounded to the nearest \$0.1M

**CM Schedule Performance (+\$0.6M/+14.8%)**

The positive schedule variance is due to recovery of the Annex Construction HEPA Procurement/ Fabrication schedule and resulted in the vendor being ahead of schedule on the fabrication of the housing assembly. In-basin construction is proceeding as buy-back work scope and performing FY2015 work in the current period.

**CM Cost Performance (+\$0.5M/+10.6%)**

The positive cost variance is due to efficiencies achieved by working with central groups to combine resource and reduce overall resource requirements between PBS-12 and DWF&RS Organization staff. Work on ECRTS equipment procurements has been more productive/efficient than planned and Annex construction been able to recover schedule on HEPA Procurement/ Fabrication utilizing base resources which has resulted in an overall positive cost position for 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	412.9	412.7	421.8	(0.2)	-0.0%	(9.1)	-2.2%	692.5	705.9	(13.3)

Numbers are rounded to the nearest \$0.1M

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

Variance is within reporting thresholds.

**CTD Cost Performance (-\$9.1M/-2.2%)**

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	72.2	68.4	3.8

Numbers are rounded to the nearest \$0.1M.

**Funds/Variance Analysis**

Projected Funding remained at \$72.2M. The spending forecast was decreased from the prior month as ECRS procurement items will not complete by the end of the fiscal year so will not be able to be costed, Annex Construction forecast was adjusted to reflect current information on change orders and forecasts and a large labor passback has been incorporated into the forecast.

**Critical Path Schedule**

The STP Critical Path is funding constrained in FY2014 resulting in deferral of process equipment procurement 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 105KW Facility, 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**

BCR-012-14-003R0 – *Annex Construction Realized Risks*

BCR-PRC-14-011R0 – *Base Year Shift in Support of FY2015 PMB Update*

BCRA-PRC-14-013R0 – *HPIC Updates*

## 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 105KW Fuel Storage Basin	09/30/2014		09/01/2018	This Tri-Party Agreement completion has been impacted by changes in DOE priorities 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 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)

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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 8 tankers, 40.6k gallons. Liquid Effluent Retention Facility (LERF) Basin continued cover inspection, clean up, and implemented bird mitigation plan for the basins. Successfully completed turn over of 310 RTS and facilities to Washington Closure Hanford (WCH) for demolition. T Plant repaired 147 fire barrier penetrations. Canister Storage Building (CSB) continued Multi-Canister Overpack (MCO) monitoring. Central Waste Complex (CWC) covered 45 and moved inside two of 108 waste boxes in Central Waste Complex (CWC) outside storage area.

## EMS Objectives and Target Status

Objective #	Objective	Target	Due Date	Status
14-EMS-DWF&RS-OB1-T1	Conserve resources and reduce the generation and/or toxicity of waste at the source.	Continue inspection and management review of material and equipment storage areas at frequencies determined necessary by line management to assure continued protection of property from loss, deterioration, or damage.	9/30/14	On Schedule

## TARGET ZERO PERFORMANCE

	CM Quantity	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	1	N/A
Total Recordable Injuries	0	1	N/A
First Aid Cases	2	49	<ul style="list-style-type: none"> <li>4/9/14 - Employee strained shoulder when reaching into backseat and lifting equipment over the seat. Body part affected: Shoulder (23358)</li> <li>4/14/14 - Employee was bitten in the groin by an ant. Body part affected: Groin (23362)</li> </ul>
Near Misses	0	1	N/A

## KEY ACCOMPLISHMENTS

### 13.01 Project Management

- Continued Project Management support for high priority projects
- Continued to work with RL on multiple changes to the contract scope of work. Change Proposal development in process.

### 13.02 Capsule Storage & Disposition

- Performed manned entries into G-cell in support of modifications to the capsule cart retrieval system. A new roller assembly, cable, traveler stop bolts were installed and operation function test performed. Modifications were needed to ensure reliability of transfer cart for future capsule handling activities
- Completed the six-month Pool Cell Weight Factor transmitter calibration
- Completed the 30-day functional test of Pool Cell Weight Factor indicators and transmitters
- Repaired the K3-3-22 differential pressure recorder chart drive
- Performed the annual inspection and preventive maintenance of the 294B Raw Water Strainer and Backflow preventer
- Replaced the 225BF Air Receiver tank drain filter
- Completed the annual third party inspection and test of safety relief valves and tanks
- Performed three-year preventive maintenance cycle on the 480 volt Motor Control Center MCC-1
- Removed Asbestos Containing Material from K1-6-1 fan housing and duct, clearance samples results received. All waste was packaged, labeled and shipped to off-site contractor
- Conducted planning meetings for canyon entries targeted towards improving combustible loading posture and to perform additional radiological characterization of the canyon areas. Entries are planned for this summer pending resource availability
- Removed the K1-6-1 fan shaft and bearing assembly. New shaft, sheaves, belts and bearing assembly are planned to be installed May 1, 2014.
- Completed 28 preventive maintenance (PM) activities
- WESF Stabilization and Ventilation Project:
  - Presented environmental permitting to CHPRC management, RL management, and currently briefing the regulators
  - Issued Functional Design Criteria (FDC)
  - Completed technical and cost evaluation of proposals to support preparation of Conceptual Design Report (CDR), contract expected to be awarded on May 8, 2014.
  - Transmitted Environmental Evaluation/Cost Analysis to RL for review
  - Transmitted major modification determination to RL
  - Drafted and submitted WESF closure plan for CHPRC review
  - Submitted Capital Determination to CHPRC Finance
- Extended Storage Preparations:
  - Received proposal to support preparation of a Functions and Requirements Document and a Performance Specification
  - Provided Capital Determination request to CHPRC Finance

### 13.03 Canister Storage Building (CSB)

- Continued Multi-Canister Overpack (MCO) monitoring program.
- Completed:
  - Two-year MCO H-159 gas sample
  - Annual Gaseous Effluent Monitoring System (GEMS-100) detector calibration
  - Six-month AH-004 High Efficiency Particulate Air (HEPA) filter test
  - Annual MCO sample hood helium pressure gauge calibrations (PI-104/725/726/734/735)
  - Annual MCO handling machine (MHM) horizontal lifeline inspection
  - Annual alpha ( $\alpha$ ) and beta ( $\beta$ ) Continuous Air Monitor calibrations
  - Annual telescoping door (TDO-034) inspection and lubrication
  - Limited scope emergency preparedness (EP) drill
  - Quarterly Nasatka vehicle arrest barrier inspection

**13.07 Waste Receiving and Processing Facility (WRAP)**

- Performed/Completed:
  - Four-year Fire Damper Inspection
  - One-year High Energy Real Time Radiography (HERTR) Varian Preventive Maintenance (PM)
- Surveillances:
  - 28 Technical Safety Requirement (TSR) surveillances
  - 15 PM packages
  - 76 Radiological (Rad) surveillances
  - 42 Operational surveillances

**13.08 T Plant**

- Completed:
  - Venting of Abnormal Container Management Program (ACMP) Low-Level Mixed-Waste (LLMW) drum #PNL-MW-98-104
  - Repairs of 147 fire barrier penetrations (performed by Construction Forces)
- Surveillances:
  - One TSR surveillances
  - 271 Rad surveillances
  - 17 PM packages
  - 188 Operational surveillances
- Shipments
  - Shipped 15 containers of universal waste to the Centralized Consolidation/ Recycling Center (CCRC)

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

- Applied 45 new covers to waste boxes in the CWC Outside Storage Area 'A'
- Moved two boxes (#0052213 and #WH-76-630) from Outside Storage Area 'A' into Building 2403WD
- Completed mining and over packing five priority drums in 2402-WH, and one priority drum in 2402-WE. Initiated mining activities in 2403WA and 2403WC for priority 1 and 2 drums
- Over packed drum #0028734 in 2403WA into a 110 gallon over pack
- Completed development of a Recovery Plan to address failed CWC emergency light Safety Code Deficiencies declared to be significant by the Fire Protection Engineer (TSR AC 5.7.1). Copy of the recovery plan provided to RL Facility Representative within TSR-required seven-day timeframe
- Applied pre-emergent to Low-Level Burial Ground (LLBG) 3A, 12B and Trench 94
- Surveillances:
  - Four TSR surveillances
  - 22 PM packages
  - 167 Rad surveillances
  - 62 Operational surveillances
- Shipments:
  - Received four shipments totaling 29 waste packages of Transuranic mixed (TRU/M) from the Plutonium Finishing Plant (PFP)

**13.11 Liquid Effluent Facilities (LEF)**

- Completed checklists and documentation for the transfer of the 310 Retention Tank System (RTS)
- Successfully turned over 310 RTS and facilities to Washington Closure Hanford (WCH)
- Removed two contaminated bird nests at the north end of 2025EA. It was determined that these were old nests (prior to current nesting season)

- Identified eight deficiencies on Basin 42 cover and one deficiency on Basin 43 cover. A Condition Reporting and Resolution System (CRRS) was initiated and actions are in development
- Received 15 drums from Waste Sampling and Characterization Facility (WSCF)
- Continued implementation of Bird Mitigation Plan for LERF Basins
- Continued bulk water removal from Basin 42 covers
- Continued mud and water removal from Basin 44 covers

LERF Basin Number	Bulk Water Pumped This Month (gallons)	Bulk Water Pumped CY14 (gallons)	Slurry Pumped This Month (gallons)	Slurry Pumped CY14 (gallons)	Mud Removed This Month (pounds)	Mud Removed CY14 (pounds)
42	50,840	108,520	0	0	0	0
43	0	0	0	0	0	0
44	33,838	54,538	6,124	17,828	0	0

- Received Change Order and associated Not To Exceed (NTE) from RL for Environmental Restoration Disposal Facility (ERDF) leachate transfer line design.
  - Commenced work planning for conceptual design to install a transfer line from ERDF to 200 West Pump & Treat
  - Developed Statement of Work (SOW) for modifications to Perma-Fix Northwest permits in support of alternative waste water treatment
- Received 8 tankers:
  - 40.6K gallons (161K fiscal year [FY])
- Received 15 drums from WSCF
- Treated effluent to State-Approved Land Disposal Site:
  - 0.0M gallons (1.9M FY)
- Discharged to 200A Treated Effluent Disposal Facility (TEDF):
  - 1.77M gallons (109M FY)
- Received ERDF Leachate
  - 150K gallons (1.07M FY)

### 13.12 Integrated Disposal Facility

- Completed monthly inspections

### 13.16 Off Site Spent Nuclear Fuel Disposition

- Maintained coordination for offsite Spent Nuclear Fuel Disposition

### 13.21 Mixed Waste Disposal Trenches

- Completed:
  - One TSR surveillance
  - 16 Rad surveillances
  - Four Operational surveillances
- Shipments:
  - Received two shipments totaling seven waste packages from Perma-Fix Northwest (PFNW) and disposed the waste in Trench 31
  - Shipped two tankers of MWT leachate to LERF/ETF (one from T31 and one from T34)

## MAJOR ISSUES

**Issue:** TRU Waste Shipment Requirement Change. A recently received Department of Transportation (DOT) interpretation of road closure requirements has impacted ability to perform shipments to offsite repackaging subcontractor.

**Corrective Action:** RL to obtain approval on exceptions to DOE Order 460.1. Obtain drivers from Federal agency (Bonneville Power Administration). BPA support expected to end in June 2014.

**Status:** TRU shipments delayed (pending DOE-HQ approval of exceptions).

**Issue:** Deteriorating Waste Containers - Retrieved and repackaged containers in storage are showing increased degradation requiring additional mitigation activities

**Corrective Action:** Significant risk remains. TRU Disposition activities would prepare the contents of these containers in a configuration suitable for eventual disposal at the Waste Isolation Pilot Plant. This configuration would also mitigate/eliminate the risk and cost for long-term management of these containers.

**Status:** Using the best demonstrated available technology to provide adequate configuration and minimize the potential for contamination spread during the long-term storage (i.e. protecting boxes with tarps or protective shoring and overpacking drums). Provided letter to RL identifying risk and requesting path forward. Awaiting RL response.

## 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	
<b>RL-0013</b>				
<b>PRC-010: Requirements Change</b>	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, <i>Incorporate NTE for CO #228, Activities in Support of Ecology Agreed Order, was implemented in the baseline.</i>
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. Evaluate additional waste volumes of TRU waste being sent to treatment contractors to maintain contract viability.			Forecasted volumes from CHPRC Projects may not allow commercial capability to remain viable. Shipments impacted due to equipment issues and improvements to road closure process. Impacts and risks of DOE Letter 14-NSD-0037 to be addressed in April. <i>One shipment from PFP was delayed in April.</i>
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.			LERF cover cleaning and Trench 94 biological contamination cleanup progressing. <i>Additional resources to be provided in May.</i>
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. A total of <b>72</b> boxes in the outdoor storage area are dispositioned in accordance with Agreed Order requirements. <i>Drum inspection and overpacking progressing.</i>
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"> <li>• Heat exchanger developed leak and shutdown. Engineering White Paper indicates that exchanger is unrepairable.</li> <li>• ETF Heat Exchanger procurement initiated in <b>October 2013</b>. FY2014 RL priorities necessitated the cancellation of the procurement and deferral (including installation) to FY2015. <i>Requesting RL authorization to procure replacement-in-kind.</i></li> <li>• Continuing to experience greater than planned maintenance at ETF and LERF.</li> <li>• WESF roof replacement completed – Punch list items ready to initiate. <i>Pre-work inspection has revealed potential delamination of coating.</i></li> <li>• Repairs needed to 2404-WB floor.</li> <li>• T-Plant fire barrier repair work scope is <i>progressing as scheduled.</i></li> <li>• <i>Evaluating deferred maintenance and upgrades to incorporate lessons learned from recent WIPP events.</i></li> </ul>

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.	● ↔	Working compliance matrix and implementing actions/documents for the Ecology Agreed Order. Requirements may exceed planned work scope in relation to box 231-ZDR-11.
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### PROJECT BASELINE PERFORMANCE Current Month (\$M)

WBS 013/RL-0013 Waste and Fuels Management Project	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)
Total	7.6	7.3	5.5	(0.3)	-3.6%	1.8	24.8%

Numbers are rounded to the nearest \$0.1M

**CM Schedule Performance (-\$0.3M/-3.6%)**

The current period favorable schedule variance is within reporting threshold.

**CM Cost Performance (+\$1.8M/+24.8%)**

The current month favorable cost variance is due to the implementation of planned 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	838.4	838.3	810.6	(0.1)	-0.0%	27.7	3.3%	1,342.4	1,269.1	73.4

Numbers are rounded to the nearest \$0.1M

**CTD Schedule Performance (-\$0.1M/+0.0%)**

The schedule variance is within threshold.

**CTD Cost Performance (+\$27.7M/+3.3%)**

The favorable cost variance is within threshold.

**Estimate at Completion (EAC)**

The BAC and EAC include FY2009 through FY2018.

The change in EAC from March to April is within threshold.

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

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

FY2014			
WBS 013/RL-0013 Waste and Fuels Management Project	Projected Funding	Spending Forecast	Spend Variance
RL-0013	83.9	82.8	1.1

Numbers are rounded to the nearest \$0.1M.

### Funds/Variance Analysis

Projected Funding is unchanged from the prior month. The change in FY2014 Spending Forecast from \$79.8M to \$82.8M is primarily the result of the addition of buy back items, update of other areas (i.e. Part B Permitting, K3 Ventilation, Dry Storage, ETF, etc.), and reduced spending in April.

### Critical Path Schedule

Critical path analysis can be provided upon request.

### Baseline Change Requests

BCR-013-14-011RO – CO #249 NTE, Installation of Transfer Line from ERDF to 200W P&T

BCR-PRC-14-011R0 – Base Year Shift of FY2015 PMB Update

BCR-PRC-14-013R0 – HPIC Updates

## MILESTONE STATUS

Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) milestones represent significant events in project execution. DOE Enforceable Agreement milestones were established to provide high-level visibility to critical deliverables and specific status on the accomplishment of these key events. The PMB Annual Update, implemented in September 2013, and subsequent approved BCRs define CHPRC planning with respect to Tri-Party Agreement milestones. The following table is a one year look ahead of commitments and Tri-Party Agreement enforceable milestones and non-enforceable target due dates. Tri-Party Agreement Milestones are currently being renegotiated between the Parties to align milestone work scope with anticipated FY2014 funding scenarios and Hanford site priorities.

Number	Title	Due Date	Actual Date	Forecast Date	Status/ Comment
M-091-03H	Submit Revision of TRUM Waste and MLLW PMP to Ecology	6/30/14		6/30/14	On schedule

## SELF-PERFORMED WORK

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

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

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

# Section D

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



**CH2MHILL**  
Plateau Remediation Company



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

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

April 2014  
CHPRC-2014-04, Rev. 0  
Contract DE-AC06-08RL14788  
Deliverable C.3.1.3.1 - 1

## PROJECT SUMMARY

Pump-and-Treat (P&T) Operations continued progress on the *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 April 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	26.2	168.2	18.3	146.3	-	-	-	-	-	-
HX P&T	26.3	168.0	1.9	15.3	-	-	-	-	-	-
KR-4 P&T	13.2	80.8	0.5	3.3	-	-	-	-	-	-
KW P&T	13.0	89.2	1.2	9.3	-	-	-	-	-	-
KX P&T	26.0	158.5	2.0	14.3	-	-	-	-	-	-
200 West P&T	70.2	429.4	7.0	41.7	259	1,591	4,933	30,220	.096x10 <sup>12</sup>	.616x10 <sup>12</sup>
<b>Combined</b>	<b>174.9</b>	<b>1,094</b>	<b>30.8</b>	<b>230.3</b>	<b>259</b>	<b>1,591</b>	<b>4,933</b>	<b>30,220</b>	<b>.096x10<sup>12</sup></b>	<b>.616x10<sup>12</sup></b>

Sampling	April	FY2014 Cumulative
Well Sampling Events	187	1,338
Aquifer Tube Sampling Events	25	366
Total Number of Sampling Events	212	1,704
Samples Collected	1,095	8,258
Analyses Performed	1,357	12,970

## EMS Objectives and Target Status

Objective #	Objective	Target	Due Date	Status
14-EMS-SGWR-OB1-T1	Reduce air emissions at the 200 West P&T Facility	Update air emissions baseline for 200 West P&T Facility and evaluate data to identify if additional air modeling is warranted and whether opportunities exist to 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	80% complete
14-SGWR-EMS-OB2-T1	Reduce the amount of toxic and/or hazardous materials in the environment	P&T 1.8 billion gallons of contaminated groundwater from all P&T facilities during FY2014.	9/30/14	On schedule

Objective #	Objective	Target	Due Date	Status
		The volume of contaminated groundwater that is treated as measured in gallons.	Monthly	1,094M gallons treated through 4/30/14
14-SGWR-EMS-OB3-T1	Reduced resources use (fuel use)	Evaluate opportunities to discharge purgewater to ground from newly drilled wells.	9/30/14	Complete
		Report results of evaluation by Well ID/Well Name.	Monthly	100% 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	Under revision
		This target will be met upon submittal of TPA Change Notice to RL, EPA, and Ecology.	Status at completion	Under revision

## 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	4	27	<p><b>4/1/2014</b> – As employee began to monitor at Sludge Tank A, volatile organic compounds and ammonia levels exceeded the action levels specified in the sample plan so the employee immediately backed away from the tank. The employee was taken to HPMC for an evaluation and was returned to work without restriction. (23347) S&amp;GRP</p> <p><b>4/7/2014</b> – Employee lost voice when a pipefitter used a chemical product to unclog a bathroom drain near her office. Employee was taken to HPMC for evaluation and returned to work without restriction. (23365) S&amp;GRP</p> <p><b>4/16/2014</b> – After completing a task, employee stood up and scraped/poked his back on the corner of a piece of sheet metal. Employee was taken to HPMC for treatment of the injury and was treated and released to work without restrictions. (23364) S&amp;GRP</p> <p><b>4/25/2014</b> – Employee tossed a rope up to another employee and felt a twinge in his right elbow. Employee was taken to HPMC and the employee was returned to work with minimal restrictions (23374) S&amp;GRP</p>
Near-Misses	0	2	N/A

## KEY ACCOMPLISHMENTS

### RL-0030.O1 RL 30 Operations

#### RL 30 Integration & Assessments

##### Risk & Modeling Integration

- Integrated Disposal Facility Performance Assessment (IDF PA)
  - o Briefed Assistant Manager for River and Plateau on the need for the IDF PA and the integrated swim lane schedule.
  - o Participated in meetings and a site tour with RL Environmental Management Low-Level Waste Disposal Facility Federal Review Group (EM LFRG) lead and team to discuss PA and Waste Incidental to Processing (WIR) planning for the IDF.
  - o Reviewed with RL the integrated PA and WIR schedule and enabling assumptions with proposed changes following the LFRG site visit.
  - o Prepared a draft Memorandum of Agreement between RL and ORP regarding IDF PA and WIR development.

##### Environmental Strategic Planning

- Strategic Planning
  - o Supported RL to prepare for further discussions with EPA and Ecology on the Principles and Parameters and Central Plateau Graded Approach Application Documents, including preparation of draft document outlines and schedule logic for the change proposal.

##### Environmental Data Integration

- LMSI was authorized to proceed on an upgrade of Electronic Data Deliverable Processor (EDDPro) to address security concerns, infrastructure upgrades (server operating systems), waning support for the ColdFusion platform of the current system, and address new EDD volume requirements as a result of the WSCF shutdown.

### River Corridor

#### 100-BC-5 Operable Unit

- Six wells were instrumented for automatic water level monitoring and have been included in the monitoring network.

#### 100-KR-4 Operable Unit

- Drilling completed and well construction commenced for three extraction wells planned for the KX P&T.

#### 100-HR-3 Operable Unit

- Drilling was initiated on the four wells within the 100-D-100 excavation.
- Change proposal 030 250 1450, Rev. 0, 100-D-100 Waste Site Excavation Soil and Underlying Groundwater Investigation, was transmitted to RL on April 16, 2014,
- Provided the 100 D/H Operable Unit working draft Rev 0 Proposed Plan to RL for review.

#### 100-FR-3 Operable Unit

- Final RL and EPA comments on the PP and the RI/FS are being resolved, with the final documents scheduled to be submitted to RL in late May. The public review period is planned to begin June 9, 2014, which includes a public meeting in Hood River, Oregon later in June.

#### 100-NR-2 Operable Unit

- Submitted the draft Rev 0 Interim Remedial Design/Remedial Action Work Plan to Ecology on April 1, 2014 for review.

- The Section 106 Cultural and Ecological Review for the 100-N apatite injection project was split into two separate documents (vadose zone jet injection and aquifer well injection) and re-submitted. The 30 day review period will complete on May 26, 2014.
- Completed the majority of comment resolutions for the Draft A RI/FS Report through Chapter 5. Revised chapters 7 and 8 have been submitted to Ecology.

### **300-FF-5**

- RL completed review of the Decisional Draft Integrated Remedial Design Report/Remedial Action Work Plan. Preparation of Draft A for regulator review is underway.

## **Central Plateau**

### **200-IS-1, 200-SW-2 & 200-WA-1 RI/FS Work Plans**

- The teams for 200-IS-1, 200-WA-1 and 200-SW-2 RI/FS work plans have coordinated closely with the regulatory agencies through a series of meetings and workshops to begin resolution of the key issues, determine an appropriate schedule to resolve comments on the Draft A work plans, discuss data needs and incorporation of the Central Plateau Principles into the work plans.

### **200-East Closure Plans**

- Submitted the five draft RCRA closure plans to RL for review. RL's comments are expected by mid-May in order to meet TPA milestone M-037-02, due June 30, 2014.

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

- Change Proposal CP 030 251 1451, Rev. 0, Provide 200-UP-1 Uranium Treatment at the 200 West Pump and Treat Facility, was transmitted to RL on April 21, 2014.
- The remedial design of the U Plant area uranium extraction and treatment train continued.
- A proposal for fabrication of the uranium ion-exchange skid was received and is undergoing review.

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

- The first well of up to 4 wells around the Modular Storage Units was drilled and is undergoing final inspection. Drilling the other wells is pending completion of additional water level measurements to better assess flow direction.

### **200 West P&T**

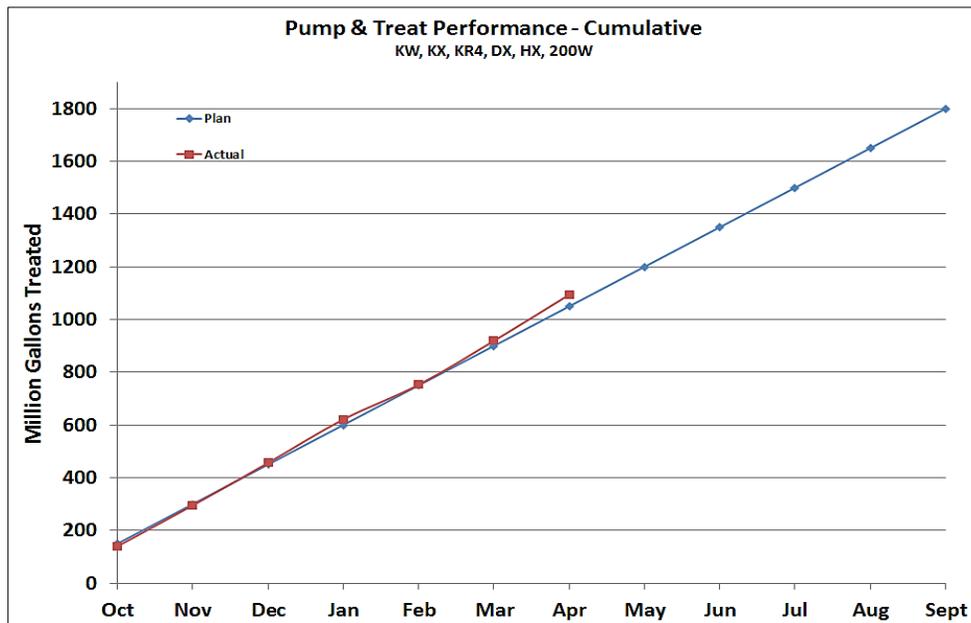
- Average pumping rate for April was 1,590 gpm.
- Effluent concentrations remain below cleanup levels specified in Record of Decision (ROD).
- Two unplanned shutdowns occurred in April due to valve failures on the MBRs during and after maintenance clean sequences. One on April 8, 2014, which lasted approximately 2 hours; the other on April 21, 2014, which lasted approximately 15 minutes. There were reduced flows on April 22, 2014, to support maintenance activities.
- Three of four injection wells to be installed in FY2014 have reached total drilling depth and are undergoing construction. The fourth injection well will begin drilling in the near future.

### **200-DV-1 Operable Unit**

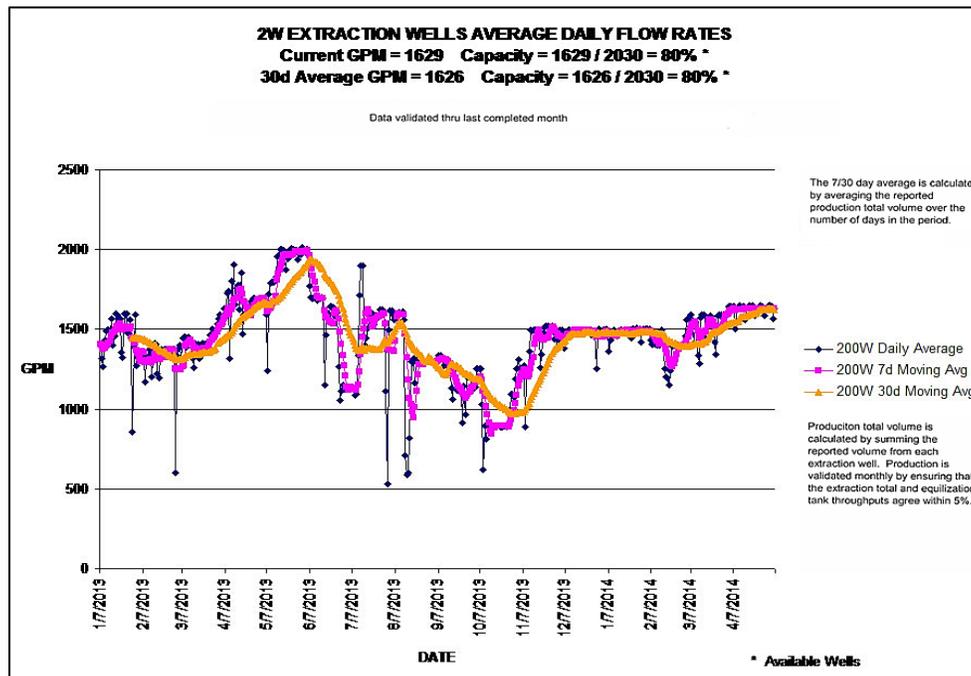
- New extraction wells 299-E33-351 and 299-E33-350 have been installed and are in the process of being hookup up to the extraction system. Work on the construction of the electrical racks for each of these stations has been initiated.
- The B Area perched water extraction system removed 5,902 gallons in April, bringing the total volume of perched water removed to 199,727 gallons since initiating operations on August 30, 2011. The following quantities of contaminants were removed for the month of April:

Contaminant	April	Cumulative (since startup)
Tc-99	7.4E-04 Ci	24.1E-03 Ci
Uranium	2.4 kg	42.0 kg
Nitrates	10.6 kg	405.6 kg

### FY2014 P&T Operations



### 200 West P&T Operations



## MAJOR ISSUES

**Issue** - Tribal approval of the Section 106 Cultural Review Document that will allow injection of apatite in the 100-NR-2 barrier wells has been delayed. Approval of this document is required before construction of the 100-NR-2 apatite barrier can begin. This delay has impacted our ability to complete the installation of an additional 1,000-ft of the barrier this fiscal year during high water.

**Corrective Action** - Three field tours of the 100-NR-2 apatite barrier have been provided to the Nez Perce, Umatilla, and Yakama. The Section 106 Cultural Review Document was also revised to include only the scope associated with apatite aquifer injection and resubmitted in April for Tribal approval. The 30-day review period on the resubmitted document ends on May 26, 2014.

**Status** - The revised Section 106 Cultural Review Document has been submitted for Tribal approval. Follow-up meeting between RL and the Tribes have not been successful in obtaining their approval of the cultural review. Due to the delay, the project is evaluating options for apatite injection during lower water periods.

## 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	
<b>RL-030/WBS 030</b>				
<p><b>SGW-045: Regulator Comments Change Requirements</b></p> <p><b>SGW-008: Regulatory Documents Result in Significant Comments from Regulators</b></p>	<p>A standardized approach has been developed to quickly evaluate and categorize comments for resolution. This process also identifies comments that will require management attention in order to achieve resolution. For significant comments, white papers are prepared for RL management concurrence. These white papers then form the basis to help resolve significant comments with the agencies. In addition, routine meetings are conducted to address agency comments and to remain current on the influences from agencies.</p>			<p>Continue to work open issues with RL and Ecology. Significant progress has been achieved over the past several months to resolve Ecology's comments on the 100-D/H RI/FS through the preparation of white papers. <b>Technical white papers have also been submitted to Ecology to resolve significant comments on the 100-N RI/FS. It appears however, that additional evaluation will be required to resolve several issues associated with the 100-N RI/FS.</b></p>
<p><b>SGW-004: Cultural Resource Reviews</b></p>	<p>Obtain cultural/ecological reviews before design progresses. Walk downs with cultural resource review teams (tribal, DOE, Engineering, etc.) to start early and be performed periodically throughout the process. Assign contractors to other activities while awaiting results. Work with the State Archeological and Historical Preservation office.</p>			<p>CHPRC is working closely with MSA to accelerate cultural reviews and is developing a strategy for conducting areal reviews to eliminate the need for project by project reviews in the same areas. Separate meetings with the Tribes have been conducted to help resolve their specific concerns regarding 100-N Area. <b>To date, these meetings have not been successful and will likely impact implementation of the 100-N apatite barrier.</b></p>

<b>OPPORTUNITY:</b> <b>SGW-007A: Sampling Requirement Reduction</b> <b>SGW-007B: Analytical Reduction</b>	<p>Sampling reduction can be achieved by combining sample sites, promptly removing sample sites from the list once characterization is established to support regulatory down-posting, work with regulatory agencies to minimize sample sites and sampling frequencies (i.e. quarterly to yearly).</p> <p>Analytical and laboratory characterization can be achieved by working with regulatory agencies to minimize the analysis required, determining a standardized analyses runs, and working with the laboratories to streamline data validation processes.</p>			<p>Several actions are underway to reduce the amount of groundwater sampling that is required by regulatory documents. A plan to reduce the number of overall SAPs and associated sampling over the next three years was provided to RL on March 30, 2014. RL's comments are currently being incorporated. In accordance with the SAP reduction plan, three revised monitoring plans (100-K, 100-D/H, and 200-PO-1) have been provided to RL for review. These monitoring plans are scheduled to be reviewed by RL's SAP Review Panel beginning in May.</p>
<b>SGW-160: Failed Well Trips</b>	<p>Develop pre-sample inspection and performance plans for each well or well network. Perform pre-inspection trips to ensure the well can be accessed and include IH monitoring during the pre-inspection trip. Combine multiple well trips into one sampling event based on results of pre-sample inspection results. Utilize established procedures to respond to failed motors/equipment, high IH readings, and when to identify stop-work when conditions are outside established protocols. Reassign sampling crews to other wells if alternate work is available.</p>			<p>Pre-inspections continue to avoid failed trips.</p>
<b>SGW-159: Ability to Maintain Flow Rates through Pump and Treat Units</b>	<p>Acquire technical specialist in bio-reactor operation at 200 West P&amp;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 is required to boost pumping rates to 2,000 gpm. Routine well maintenance/equipment maintenance program is essential to maximize operational efficiency and minimize down-time.</p>			<p>A full time bio-reactor specialist is now working at 200 West P&amp;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.</p>
<b>SGW-092: 200 West P&amp;T Operating Requirements</b>	<p>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&amp;T operation.</p>			<p>As preventative maintenance packages proceed through the development process, staffing levels will be evaluated to ensure the P&amp;T facility achieves continuous operation.</p>
<b>SGW-135: Major Equipment Failure at a Pump &amp; Treat</b>	<p>For the P&amp;T facilities, maintenance will continue with the established Preventative Maintenance and Corrective Maintenance program. Utilize trending to monitor precipitate and bio-fouling of injection wells. Utilize trends to optimize well cleaning frequency to keep injection wells clear of precipitate and bio-fouling. Install additional injection wells to increase injection capacity and plan down-time for injection well cleaning cycles. Continue staff training on equipment and processes. Maintain spare-parts inventory.</p>			<p>Pump and treat plants operating as designed. 200-West P&amp;T continuing to experience higher than planned maintenance due to injection well bio-fouling and instrumentation issues.</p>

## 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 (%)
Total	8.6	10.4	7.5	1.8	21.3	2.9	27.7

Numbers are rounded to the nearest \$0.1M.

**CM Schedule Performance (+\$1.8M/+21.3%)** exceeds reporting thresholds due to:

The project experienced a negative schedule variance caused by extensive internal comments on the proposal for a design contract. This negative schedule variance was offset by the following:

- Multiple contracts were put in place and well realignment activities at 100-HR-3 and 100-KR-4 have been accelerated.
- Well drilling at 100-KR-4 experienced positive field conditions and recovered schedule on drilling activities associated with four wells.
- Completed FY2013 200-PW-1 GAC regeneration activities to recover schedule and also completed FY2014 GAC regeneration activities earlier than planned.
- RL and CHPRC worked together to prepare five TSD closure documents that had been scheduled for FY2015.

**CM Cost Performance (+\$2.9M/+27.7%)** exceeds reporting thresholds due to:

- Efficiencies realized in integrated fieldwork account by reducing subcontracts, lowering the number of phones, returning rentals, and loaning labor to other projects.
- The average cost experienced for current month groundwater laboratory analysis was below average.
- The KR4, KX, and K West Pump-and-Treat facilities did not experience the planned level of equipment failures or operational upsets. Shop construction on the 100-K well realignment racks was able to be performed concurrently with the 100-D racks resulting in an economy of scale. The well realignment work that was performed this month experienced positive field conditions.
- Efficiencies realized by loaning labor to other projects and by managing overtime. The DX and HX Pump and Treat facilities did not experience the planned level of equipment failures or operational upsets.
- The 200-PW-1 SVE units are not operating resulting in less maintenance and modifications than planned.
- Significant cost efficiencies resulted from CHPRC and RL working together to prepare five TSD closure documents.
- Maintenance and fleet service costs were lower than expected due to less inspection and maintenance work than planned.

## 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)
Total	959.4	961.6	949.8	2.2	0.2	11.8	1.2	1,518.4	1,498.4	19.9

Numbers are rounded to the nearest \$0.1M.

### CTD Schedule Performance (+\$2.2M/+0.2%)

Variance is within reporting thresholds.

### CTD Cost Performance (+\$11.8M/+1.2%)

Variance is within reporting thresholds.

### Estimate at Completion (EAC)

The Estimate at Completion 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	121.5	118.6	2.8

Numbers are rounded to the nearest \$0.1M.

### Funds/Variance Analysis

Projected Funding remained unchanged at \$121.5M. The spending forecast was decreased from \$118.8M to \$118.6M based on actual contract costs to date for well drilling and actual costs for fleet services.

### Critical Path Schedule

Critical path analysis can be provided upon request.

### Baseline Change Requests

BCR-030-14-005R0 - CO #227, Modutank and IDW Changed Reg and GW Procedure Update

BCR-030-14-007R0 - Incorporate NTE for CO #250, 100-D-100 Soil Sampling

BCR-030-14-009R0 - Transfer of 300 Area Uranium Treatment from CLIN 7

BCR-030-14-010R0 - CO #251 NTE, 200-UP-1 Uranium Treatment at 200W P&T

BCR-PRC-14-011R0 - Base Year Shift in Support of FY2015 PMB Update

**FY2014 Management Reserve (Funded): \$0.75M**

No FY2014 management reserve was used during April; however, \$2.1M of FY2018 Management Reserve was drawn down to offset a portion of the scope deletion associated with the definitization of CO 223, 200-UP-1 Operable Unit Continued Operations and Maintenance of the S/SX Interim Extraction System (BCR-030-14-005R0).

## 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-015-112	Submit Draft B, 200-IS-1 Operable Unit Pipeline System Waste Sites RFI/CMS/RI/FS Work Plan to Ecology	TPA	2/28/14			Resolution dispute was extended on March 12, 2014, via TPA change notice to June 30, 2014.
M-015-113	Submit Draft B, 200-SW-2 Radioactive Landfills Group RFI/CMS/RI/FS Work Plan to Ecology	TPA	2/28/14			Resolution dispute was extended on March 12, 2014 via TPA change notice to June 30, 2014.
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			On schedule. RL is self-performing the preparation of these closure plans with CHPRC review support.
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 200-CW-1, 200-CW-3, & 200-OA-1 Operable Units	TPA	10/30/14			Milestone is not funded in FY2014 and will be replanned as part of upcoming agency discussions.
M-91-40L-044	PMM Submittal Jul-Sep 4th Qtr. FY2014 Burial Ground Sample Results	TPA	12/15/14		12/15/14	On schedule

Number	Title	Type	Due Date	Actual Date	Forecast Date	Status/ Comment
M-024-65	RL Shall Complete Construction of all Wells Listed	TPA	12/31/14		12/31/14	On schedule
M-091-40L-045	PMM submittal Oct-Dec 1st Qtr. FY2015 Burial Ground Sample Results	TPA	3/15/15		3/15/14	On schedule
M-015-110A	Submit RFI/CMS & RI/FS Work Plan for 200-DV-1 OU to Ecology	TPA	3/31/15		3/31/15	On schedule

### SELF-PERFORMED WORK

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

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

None currently identified.

# Section E

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



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

April 2014  
CHPRC-2014-04, 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 (tumbleweed removal, correcting posting issues), conducted 66 radiological facility surveillances, and completed 86 preventive maintenance (PM) activities. The project also continued working PUREX Tank 11 asbestos abatement.

### EMS Objectives and Target Status

Objective #	Objective	Target	Due Date	Status
14-EMS-DWF&RS-OB1-T1	Conserve resources and reduce the generation and/or toxicity of waste at the source.	Continue inspection and management review of material and equipment storage areas at frequencies determined necessary by line management to assure continued protection of property from loss, deterioration, or damage.	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	2	N/A
Near-Misses	0	0	N/A

### KEY ACCOMPLISHMENTS

- Performed Waste Information Data System (WIDS) waste site housekeeping (tumbleweed removal, corrected posting issues)
- Completed:
  - o 66 radiological facility surveillances
  - o 86 preventive maintenance (PM) activities
  - o B-Plant Annual Surveillance
- Plutonium Uranium Extraction Plant (PUREX) Tank 11 asbestos abatement
  - o Working scaffolding installation – 95% complete
  - o Locked down top of tank due to asbestos exposed material
- Completed 200W annual waste site surveillance

- Completed PUREX vacuum pump repairs

## MAJOR ISSUES

**Issue** – Herbicide application suspended three times in two weeks due to other Hanford (OHC) workforce odor concerns

**Corrective Action** – Work with OHC Industrial Hygienist (IH)/Industrial Safety (IS) to resolve

**Status** – Initial resolution is to provide ~1 week notification. However, the window for herbicide effectiveness is narrow and conducive weather conditions are difficult to predict

## 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	
<b>RL-0040</b>				
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.	●	↑	PUREX Tank 11 asbestos abatement is behind schedule but is expected to complete this summer.
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.	●	↑	No issues for the current month.
D4-067: Increased Asbestos Abatement	Minimal pre-mitigation is possible. Conduct asbestos abatement to maintain a safe and complaint work site.	●	↑	Developing prioritization of abandoned steam line removal sections should additional funding become available. Received authorization to repair/abate ~1,600 linear feet of steam line.

## 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	0.9	0.8	0.9	(0.1)	-9.4%	(0.0)	-3.4%

Numbers are rounded to the nearest \$0.1M

**CM Schedule Performance: (-\$0.1M/-9.4%)**

Variance is within threshold.

**CM Cost Performance: (-\$0.0M/-3.4%)**

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	383.2	382.1	352.3	(1.0)	-0.3%	29.9	7.8%	491.8	459.9	31.9

Numbers are rounded to the nearest \$0.1M

**CTD Schedule Performance: (-\$1.0M/-0.3%)**

Variance is within threshold.

**CTD Cost Performance: (+\$29.9M/+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 (\$4.0M), U Plant completion of the sampling of Cell 30 with less resources than planned (\$1.1M), Program Management utilizing less resources (\$3.0M) and under run in overhead allocations (\$1.5M).

**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	13.2	12.7	1.3

Numbers are rounded to the nearest \$0.1M.

**Funds/Variance Analysis**

Projected Funding remained the same at \$13.2M. Change in spend forecast from \$12.2 to \$12.7 is a result of adjustments in labor due to resource availability offset by the addition of a third section of steam line asbestos abatement.

**Critical Path Schedule**

Critical path analysis can be provided upon request.

**Baseline Change Requests**

BCR-PRC-14-011R0 – *Base Year Shift of FY2015 PMB Update*

BCR-PRC-14-013R0 – *HPIC Updates*

**MILESTONE STATUS**

None currently identified.

**SELF-PERFORMED WORK**

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

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

None currently identified.

# Section F

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



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

April 2014  
CHPRC-2014-04, Rev. 0  
Contract DE-AC06-08RL14788  
Deliverable C.3.1.3.1 - 1

## PROJECT SUMMARY

Subcontractor (Watts Construction) completed installing backfill material (land-bridge) for access to 105KE Reactor in support of roof repair. Hazard Review Board is scheduled for May 12, 2014. Completed routine surveillances. Continued work package preparation for utility isolation at MO-293 and MO-442 in support of planned demolition.

## EMS OBJECTIVES AND TARGET STATUS

Objective #	Objective	Target	Due Date	Status
14-EMS-DWF&RS-OB1-T1	Conserve resources and reduce the generation and/or toxicity of waste at the source.	Continue inspection and management review of material and equipment storage areas at frequencies determined necessary by line management to assure continued protection of property from loss, deterioration, or damage.	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

- 105KE Roof Repair:
  - Subcontractor completed installing backfill material (land-bridge) for access to the 105KE Reactor
  - Scheduled Hazard Review Board (HRB) for May 12, 2014
- Continued work package preparation for utility isolation at MO-293 and MO-442 demolition
- Received change order and not to exceed (NTE) for 100K Characterization Wells. Initiated change proposal development and initial planning
- Completed Surveillances
  - Radiological – 8
  - WIDS – 2

## MAJOR ISSUES

**Issue:**

As a result of high winds on January 11, 2014, the roof structure over the “C” elevator counter weight area was blown off at 105KE Reactor. The section of roof that was removed left a hole approximately 2’x9’.

**Corrective Action:**

The roof that has been removed will be repaired to eliminate any biological or environmental issues.

**Status:**

Work planning is complete. 105KE roof repair contract awarded to Watts Construction. Placed backfill material on April 21, 2014. Roofing repairs will be initiated once dirt work is complete.

### 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	
<b>RL-0041</b>				
WSR-047: Unforeseen Waste Site Event	Perform routine surveillances and maintenance of waste sites including herbicide application.			No concerns.
KBC-043: Waste Site Remediation Completion Requirements	Regulator acceptance that cleanup criteria have been achieved on a waste site by waste site basis. The Project may be directed to install monitoring wells to determine if contamination is detected in ground water.			Installation of two additional KE Characterization wells. UPR-100-K1; 116-KE-3. Buy Back authorized \$1.1M (in 2014 FYSF). Awaiting DOE contract change order/modification to initiate change proposal and planning.
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.			No concerns.
KBC-ISS-004: Unforeseen Facility Event Impacts Safety or Environment	The ISMS processes and facility worker training will identify and correct weaknesses such that hazards are eliminated prior to an event. However, some events are unpredictable.			Subcontractor mobilized and progressing to repair 105KE roof.

## 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	0.9	0.8	0.2	(0.1)	-10.2%	0.7	79.0%

Numbers are rounded to the nearest \$0.1M

#### CM Schedule Performance (-\$0.1M/-10.2%)

The variance is within reporting threshold.

#### CM Cost Performance (+\$0.7M/+79.0%)

The current month favorable cost variance is due to the implementation of planned efficiencies in the Program Management accounts. The project is able to perform planned work while being able to direct resources to other CHPRC priority work scope. This is the result of aggressive resource sharing strategies across multiple PBSs.

## 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	306.3	306.2	281.0	(0.0)	-0.0%	25.2	8.2%	392.9	368.4	24.5

Numbers are rounded to the nearest \$0.1M

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

The schedule variance is within threshold.

#### CTD Cost Performance (+\$25.2M/+8.2%)

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	10.1	7.6	2.5

Numbers are rounded to the nearest \$0.1M.

### Funds/Variance Analysis:

Projected Funding is unchanged from the prior month and remains at \$10.1M. The change in FY2014 Spending Forecast from \$7.2M to \$7.6M is primarily the result of deferral of forecasted 165KE asbestos abatement scope into FY2015 (available resources focused on higher priority work), alignment of min safe costs to recent experience, and a less costly approach for planned facility demolitions.

### Critical Path Schedule

Critical Path Analysis can be provided upon request.

### Baseline Change Requests

BCR-PRC-14-011R0 – *Base Year Shift of FY2015 PMB Update*

BCR-PRC-14-013R0 – *HPIC Updates*

## MILESTONE STATUS

None currently identified.

## SELF-PERFORMED WORK

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

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

None currently identified.

# Section G

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



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

April 2014  
CHPRC-2014-04, 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

Objective #	Objective	Target	Due Date	Status
14-EMS-DWF&RS-OB1-T1	Conserve resources and reduce the generation and/or toxicity of waste at the source.	Continue inspection and management review of material and equipment storage areas at frequencies determined necessary by line management to assure continued protection of property from loss, deterioration, or damage.	9/30/14	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**
  - o Six Preventive Maintenance (PM) activities/operational surveillances
  - o Six radiological surveillances
  - o Hanford Fire Department testing including repairs of two system restrictions
  - o System modifications to recover 400 area transformer C5-508
- Continue to disposition material from the 440 Pad for excess/waste

## MAJOR ISSUES

**Issue** – Fire System devices are degrading due to the age of the equipment (e.g. pull-boxes, chimes)

**Corrective Action** – Work with the Fire System Maintenance organization to complete timely repairs of affected equipment

**Status** – Preparing new work packages to perform repairs as resources become available

### 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	
<b>RL-0042</b>				
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.

### 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)	-0.2%	0.1	40.6

Numbers are rounded to the nearest \$0.1M

**CM Schedule Performance: (-\$0.0M/-0.2%)**

The current period schedule variance is within thresholds.

**CM Cost Performance: (+\$0.1M/+40.6%)**

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	17.2	17.2	14.7	0.0	0.0%	2.6	14.9%	26.5	24.1	2.3

Numbers are rounded to the nearest \$0.1M

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

The schedule variance is within reporting thresholds.

**CTD Cost Performance (+\$2.6M/+14.9%)**

The favorable CTD cost variance reflects efficient use of resources to support deactivation activities.

**Estimate at Completion (EAC)**

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

The change in EAC from March to April is within reporting thresholds.

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

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

FY2014			
RL-0042 FFTF Closure	Projected Funding	Spending Forecast	Spend Variance
RL-0042	2.3	1.7	0.6

Numbers are rounded to the nearest \$0.1M

### Funds Analysis

Projected Funding and Spending Forecast are unchanged from the prior month.

### Critical Path Schedule

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

### Baseline Change Requests

BCR-PRC-14-011R0 – *Base Year Shift of FY2015 PMB Update*

BCRA-PRC-14-013R0 – *HPIC Updates*

## MILESTONE STATUS

None currently identified.

## SELF-PERFORMED WORK

The Section H.20 clause entitled, “Self-Performed Work,” is addressed in the 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**



April 2014  
CHPRC-2014-04, 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					
<b>1. CONTRACTOR</b>			<b>2. CONTRACT</b>				<b>3. PROGRAM</b>			<b>4. REPORT PERIOD</b>								
a. NAME CH2M HILL Plateau Remediation Company			a. NAME Plateau Remediation Contract				a. NAME Plateau Remediation Contract			a. FROM (YYYYMMDD)  2014 / 03 / 24								
b. LOCATION (Address and ZIP Code) Richland, WA			b. NUMBER RL14788		b. PHASE		c. EVMS ACCEPTANCE NO YES X 9/18/2009			b. TO (YYYYMMDD)  2014 / 04 / 20								
c. TYPE CPAF			d. SHARE RATIO															
<b>5. CONTRACT DATA</b>																		
a. QUANTITY		b. NEGOTIATED COST 5,468,322	c. ESTIMATED COST OF AUTHORIZED UNPRICED WORK 13,302		d. TARGET PROFIT/ FEE 228,497	e. TARGET PRICE 5,696,819	f. ESTIMATED PRICE 5,589,742		g. CONTRACT CEILING 5,696,819	h. ESTIMATED CONTRACT CEILING 5,589,742		i. DATE OF OTB/OTS						
<b>6. ESTIMATED COST AT COMPLETION</b>						<b>7. AUTHORIZED CONTRACTOR REPRESENTATIVE</b>												
		MANAGEMENT ESTIMATE AT COMPLETION (1)	CONTRACT BUDGET BASE (2)		VARIANCE (3)		a. NAME (Last, First, Middle Initial) Corman, R. K.			b. TITLE Prime Contract Manager								
a. BEST CASE		5,281,409					c. SIGNATURE			d. DATE SIGNED 4/20/2014								
b. WORST CASE		5,432,517																
c. MOST LIKELY		5,361,244	5,481,624		120,380													
<b>8. PERFORMANCE DATA</b>																		
WBS[1]	CURRENT PERIOD					CUMULATIVE TO DATE					REPROGRAMMING ADJUSTMENTS			AT COMPLETION				
	BUDGETED COST		ACTUAL COST	VARIANCE		BUDGETED COST		ACTUAL COST	VARIANCE					BUDGETED	ESTIMATED	VARIANCE		
	WORK SCHEDULED (2)	WORK PERFORMED (3)	WORK PERFORMED (4)	SCHEDULE (5)	COST (6)	WORK SCHEDULED (7)	WORK PERFORMED (8)	WORK PERFORMED (9)	SCHEDULE (10)	COST (11)	COST VARIANCE (12a)	SCHEDULE VARIANCE (12b)	BUDGET (13)	(14)	(15)	(16)		
ITEM (1)																		
011 RL-11 NM Stabilization and Disposition PFP	8,623	6,826	7,496	(1,797)	(670)	682,398	659,472	693,005	(22,926)	(33,533)	0	0	0	933,407	955,526	(22,118)		
012 RL-12 SNF Stabilization and Disposition	4,289	4,923	4,404	634	520	412,872	412,717	421,832	(155)	(9,116)	0	0	0	692,523	705,852	(13,328)		
013 RL-13 Solid Waste Stabilization & Disposition	7,604	7,330	5,513	(275)	1,817	838,419	838,321	810,577	(98)	27,745	0	0	0	1,342,438	1,269,066	73,373		
030 RL-30 Soil & Wtr Remediatn Grndwtr/Vadose Zone	8,574	10,402	7,518	1,828	2,884	959,432	961,602	949,806	2,170	11,796	0	0	0	1,518,364	1,498,440	19,924		
040 RL-40 Nuclear Facility D&D Remainder of Hanford	935	847	876	(88)	(29)	383,176	382,131	352,266	(1,045)	29,865	0	0	0	491,798	459,944	31,853		
041 RL-41 Nuclear Facility D&D - River Corridor	945	848	178	(97)	670	306,263	306,243	281,045	(20)	25,198	0	0	0	392,942	368,438	24,503		
042 RL-42 FFTF Closure	157	157	93	(0)	64	17,239	17,239	14,663	1	2,576	0	0	0	26,492	24,143	2,349		
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	31,127	31,332	26,077	205	5,255	3,599,798	3,577,725	3,523,195	(22,072)	54,531	0	0	0	5,397,964	5,281,409	116,555		
f. Management Reserve														79,835				
g. Total	31,127	31,332	26,077	205	5,255	3,599,798	3,577,725	3,523,195	(22,072)	54,531	0	0	0	5,477,800				
<b>9. Reconciliation to CBB</b>																		
a. Variance Adjustment																		
b. Total Contract Variance																		
													(22,072)	54,531		5,477,800	5,281,409	196,391

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) 2014 / 03 / 24										
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788			b. PHASE			b. TO (YYYYMMDD) 2014 / 04 / 20										
c. TYPE CPAF		d. SHARE RATIO			c. EVMS ACCEPTANCE NO YES X 9/18/2009													
5. PERFORMANCE DATA																		
ITEM (1)	CURRENT PERIOD						CUMULATIVE TO DATE						REPROGRAMMING ADJUSTMENTS			AT COMPLETION		
	BUDGETED COST		ACTUAL COST		VARIANCE		BUDGETED COST		ACTUAL COST		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)								
34 - Env Program & Strategic Planning	446	505	527	59	(21)	45,268	45,327	41,736	59	3,591	0	0	0	0	0	82,660	79,136	3,523
340 - Environmental Prog & Regl Mgt	446	505	527	59	(21)	45,268	45,327	41,736	59	3,591	0	0	0	0	0	82,660	79,136	3,523
35 - Business Services	0	0	0	0	0	23,047	23,047	23,520	0	(473)	0	0	0	0	0	23,047	23,520	(473)
35D - Contract Mgmt & Facility Svcs	0	0	0	0	0	429,349	429,349	405,709	0	23,640	0	0	0	0	0	429,349	405,709	23,640
35K - PRC Finance	0	0	0	0	0	452,396	452,396	429,230	0	23,167	0	0	0	0	0	452,396	429,230	23,167
36 - Prime Cont & Project Integration	153	113	79	(40)	34	415	435	206	20	229	0	0	0	0	0	1,215	1,213	2
362 - Strategic Pln & Mgmt	0	0	0	0	0	20,128	20,128	20,128	0	0	0	0	0	0	0	20,128	20,128	0
363 - EVMS Compl & Rptg	153	113	79	(40)	34	20,542	20,562	20,334	20	229	0	0	0	0	0	21,343	21,341	2
38 - Project Technical Services	0	0	0	0	0	(0)	(0)	0	0	(0)	0	0	0	0	0	(0)	0	(0)
382 - Training & Procedures	1,559	2,033	1,674	474	360	30,956	30,945	50,563	(11)	(19,618)	0	0	0	0	0	89,739	115,703	(25,964)
385 - K Annex Construction & ECRTS	1,559	2,033	1,674	474	360	30,956	30,945	50,563	(11)	(19,618)	0	0	0	0	0	89,739	115,703	(25,964)
3B - PFP Closure	1,838	1,345	2,423	(493)	(1,079)	127,093	121,765	134,705	(5,328)	(12,939)	0	0	0	0	0	201,561	214,977	(13,416)
3B0 - PFP Close/BOSS D&D & Infrastruc	2,660	1,125	1,523	(1,536)	(399)	124,750	119,029	127,142	(5,721)	(8,113)	0	0	0	0	0	185,541	191,288	(5,747)
3B3 - Project Management/Subcontracts	1,451	1,451	1,002	0	449	39,495	39,495	34,685	(0)	4,810	0	0	0	0	0	74,095	68,532	5,563
3B4 - Engrg Nuc Saf Ping&Wrk Control	678	667	540	(10)	127	48,262	48,244	39,283	(37)	8,962	0	0	0	0	0	73,369	65,198	8,171
3B7 - Environmental & Waste	1,019	1,012	1,076	(7)	(64)	143,280	143,293	145,927	13	(2,634)	0	0	0	0	0	168,021	170,770	(2,750)
3BA - Project Mgmt D&D	1,810	1,962	1,097	152	865	351,932	340,059	347,904	(11,872)	(7,845)	0	0	0	0	0	461,829	461,110	719
3BB - PFP D4 Deputy Project Mgmt	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	(0)
3BD - PFP Cold & Dark	9,456	7,562	7,662	(1,894)	(100)	834,831	811,866	829,646	(22,945)	(17,759)	0	0	0	0	0	1,164,416	1,171,876	(7,460)
3C - W&FMP/D&DD Project	2,730	2,890	2,730	160	160	332,345	332,201	325,370	(144)	6,832	0	0	0	0	0	553,214	544,249	8,965
3AD - Sludge Treatment Project	2,283	2,295	1,381	13	914	184,895	184,862	193,267	(33)	(8,405)	0	0	0	0	0	318,088	312,469	5,619
3C4 - Waste & Fuels Project Controls	0	0	0	0	0	49,140	49,140	52,386	(0)	(3,247)	0	0	0	0	0	49,140	52,386	(3,247)
3C5 - TRU Project	2,966	2,870	2,559	(96)	311	170,093	170,083	160,112	(9)	9,971	0	0	0	0	0	399,436	376,687	22,749
3C9 - Liquid & Fuels Storage	0	0	0	0	0	0	0	1	0	(1)	0	0	0	0	0	0	1	(1)
3CA - W&FMP Engineering	3,406	3,167	2,475	(239)	692	712,706	711,586	669,878	(1,120)	41,708	0	0	0	0	0	979,368	916,425	62,944
3CD - Waste Disposition	11,384	11,222	9,144	(162)	2,078	1,449,179	1,447,872	1,401,014	(1,306)	46,858	0	0	0	0	0	2,299,245	2,202,217	97,029
3D - Soil & Groundwater Remediation	1,654	1,617	1,347	(36)	270	91,844	92,234	94,914	389	(2,680)	0	0	0	0	0	191,830	193,537	(1,707)
3D0 - Soil & Groundwater Remediation	1,662	1,813	1,590	151	223	139,315	139,626	130,472	311	9,153	0	0	0	0	0	278,329	264,878	13,450
3D2 - GW Remediation Support	1,164	1,164	722	0	442	91,507	91,507	78,477	0	13,030	0	0	0	0	0	164,341	150,822	13,519
3D4 - GW Operations	3,648	5,302	3,332	1,653	1,970	443,958	445,369	446,809	1,411	(1,440)	0	0	0	0	0	653,666	652,669	997
3D8 - GW Analysis and Reporting	8,128	9,896	6,991	1,768	2,905	766,625	768,736	750,672	2,111	18,063	0	0	0	0	0	1,288,165	1,261,906	26,259
b. Cost of Money	0	0	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	0	0
d. Undist. Budget																		
e. Sub Total	31,127	31,332	26,077	205	5,255	3,599,798	3,577,725	3,523,195	(22,072)	54,531	0	0	0	0	0	5,397,964	5,281,409	116,555
f. Management Resrv.																79,835		
g. Total	31,127	31,332	26,077	205	5,255	3,599,798	3,577,725	3,523,195	(22,072)	54,531	0	0	0	0	0	5,477,800		

FORMAT 3, DD FORM 2734/3, BASELINE

April 2014 Monthly Report

CONTRACT PERFORMANCE REPORT															Form Approved	
FORMAT 3 - BASELINE										DOLLARS IN THOUSANDS					OMB No. 0704-0188	
1. CONTRACTOR CH2M HILL Plateau Remediation Company b. LOCATION: Richland, WA					2. CONTRACT a. NAME: Plateau Remediation Contract b. NUMBER: RL14788 c. TYPE: CPAF d. SHARE RATIO:					3. PROGRAM a. NAME: Plateau Remediation Contract b. PHASE c. EVMS ACCEPTANCE NO YES X 9/18/2009					4. REPORT PERIOD a. FROM: 2014/03/24 b. TO: 2014/04/20	
5. CONTRACT DATA																
a. ORIGINAL NEGOTIATED COST 4,312,366					b. NEGOTIATED CONTRACT CHANGE \$1,155,956		c. CURRENT NEGOTIATED COST (A + B) \$5,468,322		d. ESTIMATED COST AUTH UNPRICED WORK \$13,302		e. CONTRACT BUDGET BASE (C + D) \$5,481,624		f. TOTAL ALLOCATED BUDGET \$5,477,800		g. DIFFERENCE (E - F) \$3,824	
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					
6. PERFORMANCE DATA																
BUDGETED COST FOR WORK SCHEDULED (NON - CUMULATIVE)																
SIX MONTH FORECAST																
ITEM																
BCWS CUM TO DATE (2)																
BCWS FOR REPORT PERIOD (3)																
+1 May-14 (4)																
+2 Jun-14 (5)																
+3 Jul-14 (6)																
+4 Aug-14 (7)																
+5 Sep-14 (8)																
+6 Oct-14 (9)																
FY09-13 (10)																
FY14 (11)																
FY15 (12)																
FY16 (13)																
FY17 (14)																
FY18 (15)																
UNDISTRIB BUDGET (16)																
TOTAL BUDGET (17)																
a. PM BASELINE (BEGIN OF PERIOD)																
3,598,941 30,270 37,238 29,428 29,823 38,990 39,376 28,538 3,391,477 382,319 434,125 425,453 372,722 382,040 0 5,388,137																
b. BASELINE CHANGES AUTH DURING REPORT PERIOD																
BCR-012-14-003R0, Annex Construction Realized Risks																
BCR-013-14-011R0, CO #249 NTE, Installation of Transfer Line from ERDF to 200W P&T																
BCR-030-14-005R0, CO #227, Modutank and Investigative Derived Waste Changed Regulatory Requirements and Ground Water Procedure Updates																
BCR-030-14-007R0, Incorporate NTE for CO #250, 100-D-100 Soil Sampling																
BCR-030-14-009R0, Transfer of 300 Area Uranium Treatment from CLIN 7																
BCR-030-14-010R0, Incorporate NTE for CO #251, 200-UP-1 Uranium Treatment at 200W Pump and Treat																
BCR-PRC-14-011R0, Base Year Shift in Support of FY15 PMB Update																
c. PM BASELINE (END OF PERIOD)																
3,599,798 31,127 38,452 30,550 30,856 40,371 41,433 28,574 3,391,477 389,983 434,635 425,976 373,284 382,610 0 5,397,964																
7. MANAGEMENT RESERVE																
79,835																
8. TOTAL																
5,477,800																

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

CONTRACT PERFORMANCE REPORT											CLASSIFICATION (When Filled In)	
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) 2014 / 03 / 24		
b. LOCATION (Address and ZIP Code) Richland, WA			b. NUMBER RL14788				b. PHASE			b. TO (YYYYMMDD) 2014 / 04 / 20		
			c. TYPE CPAF		d. SHARE RATIO		c. EVMS ACCEPTANCE YES 9/18/2009					
5. PERFORMANCE DATA (All figures in whole numbers of equivalent month. One equivalent month equals on person working one month)												
Organizational Breakdown Structure (OBS)  ITEM (1)	ACTUAL CURRENT PERIOD (2)	ACTUAL END OF CURRENT PERIOD (Cumulative) (3)	FORECAST (Non-Cumulative)								AT COMPLETION (15)	
			SIX MONTH FORECAST									
			+1 May (4)	+2 Jun (5)	+3 Jul (6)	+4 Aug (7)	+5 Sep (8)	+6 Oct (9)	FY15-18 (13)			
<b>300 - PRC Project Management</b>												
300 - Office of the President	6	416	5	5	5	5	5	5	5	5	230	678
	<b>6</b>	<b>416</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>230</b>	<b>678</b>
<b>303 - Internal Audit</b>												
303 - Internal Audit	4	286	4	4	4	4	4	4	4	4	184	494
	<b>4</b>	<b>286</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>184</b>	<b>494</b>
<b>304 - General Counsel</b>												
304 - General Counsel	4	274	4	4	4	4	4	4	4	4	184	483
	<b>4</b>	<b>274</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>184</b>	<b>483</b>
<b>31 - Communications &amp; Outreach</b>												
310 - Strategic Planning & Outreach	7	668	7	9	9	9	9	9	7	7	323	1,042
	<b>7</b>	<b>668</b>	<b>7</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>7</b>	<b>7</b>	<b>323</b>	<b>1,042</b>
<b>32 - Safety, Health, Security &amp; Quality</b>												
320 - Safety Health Security/Quality	24	1,878	25	26	25	25	25	25	25	25	1,129	3,157
321 - RAD PRO/Emergency Prep	8	753	8	8	8	8	8	8	8	8	383	1,185
322 - Nuclear Ops Supp & Compliance	4	690	7	7	7	7	7	7	8	8	346	1,078
324 - Quality Assurance	12	1,577	16	16	16	16	16	16	16	16	747	2,422
	<b>49</b>	<b>4,897</b>	<b>57</b>	<b>57</b>	<b>57</b>	<b>57</b>	<b>57</b>	<b>57</b>	<b>57</b>	<b>57</b>	<b>2,605</b>	<b>7,843</b>
<b>34 - Environmental Prog &amp; Strategic Planning</b>												
340 - Environmental Prog & Regl Mgt	36	2,113	38	40	40	40	40	38	44	44	2,206	4,560
341 - Environmental Protection	0	1,000	0	0	0	0	0	0	0	0	0	1,000
	<b>36</b>	<b>3,113</b>	<b>38</b>	<b>40</b>	<b>40</b>	<b>40</b>	<b>40</b>	<b>38</b>	<b>44</b>	<b>44</b>	<b>2,206</b>	<b>5,561</b>
<b>35 - Business Services</b>												
35D - Contract Mgmt & Facility Svcs	27	3,022	29	29	29	29	29	29	28	28	1,303	4,496
35F - Industrial Relations	3	340	4	4	4	4	4	4	5	5	218	583
35H - Human Resources	14	942	14	15	15	15	15	15	14	14	632	1,661
35K - PRC Finance	11	867	12	12	12	12	12	12	12	12	517	1,453
	<b>56</b>	<b>5,170</b>	<b>58</b>	<b>59</b>	<b>59</b>	<b>59</b>	<b>59</b>	<b>59</b>	<b>58</b>	<b>58</b>	<b>2,671</b>	<b>8,193</b>
<b>36 - Prime Contract &amp; Project Integration</b>												
360 - Prime Cont & Prj Integration	0	1	0	0	0	0	0	0	0	0	0	1
361 - Cont Compl & Change Mgmt	10	505	13	13	13	13	13	13	13	13	598	1,180
362 - Strategic Pln & Mgmt	19	1,180	22	22	22	22	22	22	19	19	874	2,183
363 - EVMS Compl & Rptg	15	1,218	16	16	16	16	16	16	14	14	644	1,955
	<b>44</b>	<b>2,904</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>52</b>	<b>46</b>	<b>46</b>	<b>2,116</b>	<b>5,319</b>
<b>38 - Project Technical Services</b>												
381 - Central Engineering	9	518	10	10	11	10	10	9	9	9	429	1,008
382 - Training & Procedures	10	2,043	9	8	8	8	8	9	9	9	392	2,486
383 - Operations Programs	7	731	8	8	8	8	8	8	6	6	276	1,053
384 - Project Delivery	9	1,004	10	11	11	11	10	8	8	8	368	1,432
385 - K Annex Construction & ECRTS	30	1,408	39	42	42	39	39	49	49	49	1,355	3,013
	<b>64</b>	<b>5,704</b>	<b>77</b>	<b>79</b>	<b>80</b>	<b>77</b>	<b>76</b>	<b>81</b>	<b>81</b>	<b>81</b>	<b>2,820</b>	<b>8,993</b>
<b>3B - PFP Closure</b>												
3B0 - PFP Close/BOSS D&D & Infrastruc	64	4,449	69	69	62	85	84	52	52	52	1,751	6,620
3B3 - Project Management/Subcontracts	65	6,370	79	96	98	98	98	108	108	108	1,497	8,444
3B4 - Engrg Nuc Saf Plng&Wrk Control	57	1,796	56	56	61	60	60	79	79	79	1,367	3,533
3B7 - Environmental & Waste	28	2,483	27	27	27	27	27	42	42	42	792	3,452
3BA - Project Mgmt D&D	65	10,392	68	65	67	64	64	62	62	62	989	11,771
3BB - PFP D4 Deputy Project Mgmt	66	15,552	68	68	71	74	68	119	119	119	3,857	19,877
3BD - PFP Cold & Dark	0	0	0	0	0	0	0	0	0	0	0	0
	<b>344</b>	<b>41,042</b>	<b>366</b>	<b>380</b>	<b>386</b>	<b>408</b>	<b>400</b>	<b>462</b>	<b>462</b>	<b>462</b>	<b>10,253</b>	<b>53,697</b>
<b>3C - W&amp;FMP/D&amp;D Project</b>												
3AD - Sludge Treatment Project	117	14,684	122	122	123	123	123	155	155	155	7,243	22,696
3C4 - Waste & Fuels Project Controls	48	6,192	44	45	48	46	46	63	63	63	2,926	9,410
3C5 - TRU Project	0	582	0	0	0	0	0	0	0	0	0	582
3C9 - Liquid & Fuels Storage	138	10,136	146	152	155	147	143	152	152	152	7,787	18,818
3CD - Waste Disposition	139	32,653	145	153	156	146	135	151	151	151	8,505	42,044
	<b>442</b>	<b>64,247</b>	<b>458</b>	<b>472</b>	<b>482</b>	<b>462</b>	<b>448</b>	<b>520</b>	<b>520</b>	<b>520</b>	<b>26,460</b>	<b>93,550</b>
<b>3D - Soil &amp; Groundwater Remediation</b>												
3D0 - Soil & Groundwater Remediation	37	2,686	35	36	36	37	37	39	39	39	1,802	4,710
3D2 - GW Remediation Support	57	5,299	54	67	73	67	66	56	56	56	3,039	8,721
3D4 - GW Operations	45	4,558	53	54	54	52	53	56	56	56	2,596	7,475
3D8 - GW Analysis and Reporting	117	10,769	138	161	158	149	135	88	88	88	5,302	16,900
	<b>256</b>	<b>23,312</b>	<b>281</b>	<b>318</b>	<b>321</b>	<b>306</b>	<b>291</b>	<b>239</b>	<b>239</b>	<b>239</b>	<b>12,738</b>	<b>37,805</b>
<b>Grand Totals:</b>	<b>1,312</b>	<b>152,034</b>	<b>1,405</b>	<b>1,479</b>	<b>1,498</b>	<b>1,481</b>	<b>1,443</b>	<b>1,526</b>	<b>62,791</b>	<b>62,791</b>	<b>223,658</b>	

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

CLASSIFICATION (When Filled In)									
CONTRACT PERFORMANCE REPORT FORMAT 5 - EXPLANATIONS AND PROBLEM ANALYSES							FORM APPROVED OMB No. 0704-0188		
<b>1. CONTRACTOR</b>			<b>2. CONTRACT</b>			<b>3. PROGRAM</b>		<b>4. REPORT PERIOD</b>	
<b>a. NAME</b> CH2M HILL Plateau Remediation Company			<b>a. NAME</b> Plateau Remediation Contract			<b>a. NAME</b> Plateau Remediation Contract		<b>a. FROM (YYYY/MM/DD)</b>  2014/03/24	
<b>b. LOCATION (Address and ZIP Code)</b>  Richland, WA 99354			<b>b. NUMBER</b> DE-AC06-08RL14788		<b>b. PHASE</b> Base		<b>b. TO (YYYY/MM/DD)</b>  2014/04/20		
			<b>c. TYPE</b> CPAF	<b>d. SHARE RATIO</b>	<b>c. EVMS ACCEPTANCE</b> 2009/09/18 NO YES X				
	<b>BCWS</b>	<b>BCWP</b>	<b>ACWP</b>	<b>SV in \$</b>	<b>SV in %</b>	<b>CV in \$</b>	<b>CV %</b>	<b>SPI</b>	<b>CPI</b>
Current:	31,127	31,332	26,077	205	0.7%	5,255	16.8%	1.01	1.20
Cumulative:	3,599,798	3,577,725	3,523,195	(22,072)	-0.6%	54,531	1.5%	0.99	1.02
	<b>BAC</b>	<b>EAC</b>	<b>VAC in \$</b>	<b>VAC in %</b>	<b>CPI to BAC</b>	<b>CPI to EAC</b>			
At Complete:	5,397,964	5,281,409	116,555	2.2%	0.97	1.04			
<b>Explanation of Variance/Description of Problem:</b>									
<b>Current Period Schedule Variance:</b> The variance is within reporting thresholds.									
<b>Current Period Cost Variance:</b> The variance is primarily attributed to PBS RL-0030, due to efficiencies realized in integrated fieldwork accounts by reducing subcontracts, lowering the number of phones, returning rentals, and loaning labor to other projects. The KR4, KX, and K West Pump-and-Treat facilities did not experience the planned level of equipment failures or operational upsets in the month. In addition, realization of planned efficiencies in multiple projects contributed to the variance.									
<b>Cumulative Schedule Variance:</b> The variance is within reporting thresholds.									
<b>Cumulative Cost Variance:</b> The variance is within reporting thresholds.									
<b>Impact:</b>									
<b>Current Period Schedule:</b> No significant impacts have been identified.									
<b>Current Period Cost:</b> Current period cost impacts have been incorporated into the lifecycle EAC.									
<b>Cumulative Schedule:</b> No significant impacts have been identified.									
<b>Cumulative Cost:</b> No significant impacts have been identified.									
<b>Corrective Action:</b>									
<b>Current Period Schedule:</b> No Corrective Actions are required.									
<b>Current Period Cost:</b> Corrective Actions in place to address current period impacts, if any, on the lifecycle EAC.									
<b>Cumulative Schedule:</b> No Corrective Actions are required.									
<b>Cumulative Cost:</b> No Corrective Actions are required.									
<b>Monthly Summary (to include technical causes of VARs, Impacts, and Corrective Action(s):</b>									
For April, the project was 0.7% ahead of schedule and 16.8% under planned cost. For FY2014, the project is 6.4% behind schedule and 7.5% under planned cost.									
Overall schedule performance in April was within reporting thresholds.									
Overall cost performance in April was attributed to PBS RL-0030, due to efficiencies realized in integrated fieldwork account by reducing subcontracts, lowering the number of phones, returning rentals, and loaning labor to other projects. The KR4, KX, and K West Pump-and-Treat facilities did not experience the planned level of equipment failures or operational upsets. In addition, realization of planned efficiencies in multiple projects contributed to the variance.									
Corrective actions underway for PFP, PBS RL-0011 to include continued utilization of HAMTC collective bargaining agreement Craft Alignment, which is trending to increased time on tools, starting to recognize increased time on respirator, which will ultimately result in increasing efficiencies and recovering the negative schedule variance on the PFP project. CHPRC is also pursuing a significant change in the current PFP safety basis and criticality analysis, which if approved would allow an increase to the currently allowed fissile inventory for loading gloveboxes outside the facility. This is expected to reduce the time required to clean out some of the remaining high gram gloveboxes prior to shipment to W&FM for storage. These changes will also increase the efficiencies of future work activities and are expected to enable additional recovery of the schedule variance seen to date. PFP is also refining the DSA to a D&D mode vs. an operations mode which will allow decommissioning of the facility through alternate means. Implementation of this refined strategy, assumes implementation of the previously noted proposed changes in the PFP safety basis and criticality analysis. This will result in re-sequencing demolition activities; stabilizing some materials with grout and other foam stabilizers; reconfiguring the ventilation system to isolate the PRF canyon from the rest of PFP and the provision of temporary ventilation to allow stabilization and removal of the duct level utilizing equipment rather than exposing workers to the difficult work environment found there. No other specific corrective actions are planned at this time.									

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

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

**Variance in Performance BAC and EAC:** The variance at complete (VAC) between the BAC and EAC this month is a +\$116.6 million and +2.2% and is within reporting thresholds.

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

CPs - In Process		
	Total Authorized Unpriced Work	\$13,302
Approved Adjustments to Contract Price (not reflected in B.4-1 Table)		
	Total Negotiated Cost Changes	-
<b>Grand Total Adjustments</b>		<b>\$13,302</b>

**Use of Management Reserve (MR) and Fee Activity:**

**Management Reserve Utilization**

BCR Number	Title	Fiscal Year	MR
BCR-012-14-003R0	<i>Annex Construction Realized Risks</i>	2014 - 2018	-\$1,603K
BCR-030-14-005R0	<i>CO #227, Modutank and Investigative Derived Waste Changed Regulatory Requirements and Ground Water Procedure Updates</i>	2014 - 2018	-\$2,112K

Management Reserve decreased by a total of \$3,715K during April

**Fee Activity**

BCR Number	Title	Fiscal Year	Fee
BCR-030-14-005R0	<i>CO #227, Modutank and Investigative Derived Waste Changed Regulatory Requirements and Ground Water Procedure Updates</i>	2014 - 2018	\$125K

Fee increased by a total of \$125K during April.

**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 ACWP plus the ECWR or BCWR if greater 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), plus the scope identified in the Trend Log that is not in the EAC. The Best/Worst and Most Likely EAC values are documented in the Format 1 Report.

<b>Prepared by:</b> Project Control Staff	<b>Date:</b> 5/20/2014	<b>Approved by:</b>	<b>Date:</b>
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# 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

April 2014  
CHPRC-2014-04, 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	39%
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	50%
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	50%
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	35%
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	100%
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	100%
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	49%

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	42%

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

## KEY ACCOMPLISHMENTS

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

- SHS&Q activities to provide support and technical services to all CHPRC projects and central management of crosscutting services. There were no SHS&Q Recordable injuries or First Aid cases during April.
  - o Occupational Safety and Industrial Hygiene (OS&IH) accomplishments:
    - Continued support of site-wide standards committees and site-wide steering committees.
    - Continue implementation of the Chronic Beryllium Disease Prevention Program (CBDPP) Revision 2A. A Management Plan that documents how CHPRC will implement the CBDPP Revision 2A is now in effect. A Management Directive, documenting the interim controls required while beryllium facility assessments are being completed, is also in effect. Beryllium facility assessments and characterization sampling are being conducted. Beryllium facility assessments have been completed on 128 CHPRC facilities. Projects have begun posting the updated signs and labels.
    - Continued partnering efforts with HPMC on reduction efforts for soft tissue injuries.
    - Provided support to Soil and Groundwater Remediation Project (S&GRP) Sample Management group for the transition of IH sample processing from Waste Sampling and Characterization Facility (WSCF).
    - Continued support to Plutonium Finishing Plant (PFP) for use of the PremAire system to facilitate Deactivation & Decommissioning (D&D) activities in the Plutonium Reclamation

- Facility (PRF) canyon. Training on the system is underway
- Continued to provide support to Project Technical Services (PTS) for determination of respiratory protection for welding activities and activities associated with the application of fire protective coating.
- Coordinating efforts for on-site vehicle safety training/briefing for Decommissioning, Waste, Fuels, and Remediation Services Project (DWF&RS).
- Continued working with Project Facility Chemical Custodians to complete qualification cards.
- Developing revised qualification card for OS&IH subcontractor oversight personnel.
- Performed reviews of legacy work restrictions.
- Initiated efforts to obtain additional OS&IH support to perform subcontractor oversight activities for Project Technical Services (PTS).
- Planning May CHPRC Voluntary Protection Program (VPP) Celebration of achieving STAR status.
- Continued planning for the May 2014 Hanford Safety Expo.
- o Radiological Control accomplishments:
  - Interviewed radiological control technician (RCT) candidates for job openings at PFP.
  - Developed matrix to provide assurance that all issues identified in the PAAA enforcement letter concerning Sr-90 source event had been addressed with appropriate corrective actions.
  - Completed review of the As Low As Reasonably Achievable (ALARA) plan for the WESF Stabilization and Ventilation Project design phase.
  - Completed quarterly dosimeter exchange.
  - Provided support to PFP to resolve problems with new BZM instruments electronically communicating with the RadNet configuration.
  - Worked with LMSI to resolve issues with the Survey Simple program.
  - Provided support for Nuclear Safety Performance Evaluation Board (NSPEB) assessment of DWF&RS.
  - Received positive feedback from RL personnel regarding the self-critical nature of the recently completed assessment of Radiological Survey Reports.
  - Provided support to PFP and DWF&RS regarding portable instrumentation calibration issues related to the service provider (MSA/RSS).
  - Supported effort to retrieve eight inner canister closure system (ICCS) sources from the XO lab at 100K.
- o Nuclear Safety deliverables prepared and transmitted to RL in April include:
  - Documented Safety Analysis:
    - Letter, 1400906, April 7, 2014, *Transmittal of the 2014 Annual Update to HNF-13830, Revision 4, Documented Safety Analysis for the Reduction-Oxidation Facility, and the Unreviewed Safety Question Determination Summary.*
    - Letter, CHPRC-1401348, dated April 9, 2014, *C Transmittal of the Annual Update to the CH2M HILL Plateau Remediation Company Safety Management Program Documented Safety Analysis.*
    - Letter, CHPRC-1401279, dated April 21, 2014, *Transmittal of CHPRC-02188. Revision 0, WESF Stabilization and Ventilation Project Major Modification Determination, for Review and Approval.*
- o Contractor Assurance Regulatory Reporting (CARR) accomplishments:
  - 247 Condition Reports (CRs) were screened in April:
    - No Significant issues identified
    - Two Adverse issues identified
    - 93 Track Until Fixed (TUF) issues identified
    - 54 Trend Only (TO) items identified

- 95 Opportunity for Improvement (OFI) items identified
- Three items Screened Out (factually inaccurate, duplicative of existing Condition Reports)
  - Conducted an independent Effectiveness Review to determine effectiveness of actions taken to address CR-2013-0623, *A Long Standing Culture of Acceptance Resulted in a Significant Material and Waste Inventory at the Soils and Groundwater Project*.
  - Provided lead analysis support to PFP in completion of Apparent Cause Evaluation for CR-2014-0448, *PFP DA/SE Knowledge Gap Related to PFP DSA Version*.
  - One CHPRC Lessons learned was published through OPEXShare.
  - Provided support to for the Defense Nuclear Facilities Safety Board (DNFSB) review of PFP Work Planning and Control conducted March 31 – April 3, 2014.
  - Coordinated the DNFSB/PFP Work Planning and Control follow-up conference call.
  - Coordinated preparations between RL and WESF for an upcoming conference call specific to the potential for WESF concrete degradation due to radiological conditions.
  - Fifty-six documents were provided in response to DNFSB requests.
- o Performance Assurance, Quality Assurance (QA), and Assessment accomplishments:
  - Supported comment/review of Inspector General Draft report on PFP project management.
  - Conducted NSPEB Evaluation of Sludge Treatment and Surveillance Project – 23 Findings, 13 Observations, and no Concerns were identified.
  - Continued evaluations of completed management assessments and provided specific mentoring and feedback to assessors and responsible managers.
  - Assessment field activities were completed for the 10 CFR 835, Subpart M, *Sealed Radioactive Source Control*, surveillance activity. The surveillance team identified that the program was appropriately implemented with some noted deficiencies.
  - Completed the CHPRC annual independent audit of our OCRWM program. The program was found to be compliant with the requirements with some noted discrepancies in the implementation of records management.
  - Completed annual revision of the CHPRC Quality Assurance Program, PRC-MP-QA-599.
  - Continued to work with the Hanford Site Hoisting and Rigging Committee’s special project group to determine the applicability of NQA -1, Part II, Subpart 2.15, Quality Assurance Requirements for Hoisting, Rigging, and Transportation of Items for Nuclear Power Plants, to the current scope of work here at Hanford.
  - Supported the Soils and Ground Water Project in the determination of proper utilization of Quality Assurance resources in the review and approval of environmental documents.
  - Continued to support Project Technical Services and Procurement in the selection of a full service Nondestructive Evaluation (NDE) subcontractor and replacement analytical services that will be lost with the future loss of the WSCF laboratory.
  - Continued support of the Waste and Fuels organization in the procurement of a new calibration contractor for the sludge treatment project.
  - Provided a presentation to the Hanford Site Welding Committee on challenges resultant from our allowance of non-code/incidental welding.
  - Provided Quality Assurance Engineers a briefing on the Nonconformance Report (NCR) performance of CHPRC suppliers of QL-3 products.
  - Provided a CHPRC QA monthly knowledge enhancement briefing on “CHPRC Work Management System.”
- 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:** Implementing Revision 2a to support overall site implementation.

**Action:** A Management Plan that documents how CHPRC will implement the CBDPP Revision 2A is now in effect. A Management Directive, documenting the interim controls required while beryllium facility assessments are being completed, is also in effect. Beryllium facility assessments and characterization sampling are being conducted. Beryllium facility assessments have been completed on 128 CHPRC facilities. Projects have begun posting the updated signs and labels.

- o **Issue:** Accident & Injury Reduction.

**Status:** Continue 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. Discussed concerns where HPMC is referring workers to offsite medical providers.

- o **Issue:** PFP Value Engineering (VE) Initiatives Path Forward.

**Status:** Engaged PFP project personnel with SHS&Q central group SMEs.

**Action:** Supporting PFP foaming initiative, supplied breathing air system upgrade, and new NDA equipment upgrades.

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

### Environmental Protection

- **Compliance Status**

- **Ecology Central Waste Complex Box and WRAP Drum Release Enforcement**

- o Implementation of the required actions in the Ecology Agreed Order (AO) continues. Provided the AO deliverables to Ecology on Acceptable Knowledge ahead of schedule. Ecology indicated that the workshop and presentation materials met the AO deliverable language. Progress on the last deliverable, covering of outside containers continues on schedule.

- **RCRA Permitting Progress**

- o The RCRA permit was successfully modified to allow for reduced staffing of LERF/ETF operations, and groundwater monitoring requirements. EPA has raised concerns that the Closure Plans submitted October 2013 were not “complete”. A meeting will be held with EPA on the plans in May.

- **Asbestos**

- o CHPRC transmitted a payment to the Treasurer, United States of America, per the requirements of the Consent Agreement and Final Order, Docket No. CAA-10-2014-0072, regarding alleged violations of the Clean Air Act (asbestos).

- **Environmental Management System (EMS)**

- o Planning and actions are underway to prepare for the external audit of the EMS scheduled for July. CHPRC is teaming with MSA to perform preliminary assessments across the projects.

- **Environmental Compliance & Quality Assurance (ECQA)**

- **Accomplishments**

- o Completed the independent assessment of CERCLA activities at PFP. The report will be issued May 12, 2014. Three Opportunities for Improvement were identified.
    - o Two MOPs were completed, one at PTS focusing on spill prevention (no issues were identified) and one at the 200 West P&T facility (no issues were identified).

- **Work in Progress**

- o Field interviews have been completed and documentation review is continuing on the Independent Assessment of the EMS. The exit meeting is planned for May 19, 2014 and the draft

report should be out for factual accuracy review at that time. MSA auditors accompanied ECQA on this audit.

- o Requirements have been identified for approximately 35 matrices which have been assigned to the environmental subject matter experts for verification. This process is in compliance with PRC-PRO-EP-52795, *Environmental Requirements Management*, with a focus on three facilities: PFP, T-Plant, and CWC.

## **Business Services**

### **• Acquisition Planning**

- o Assisted DWF&RS with acquisition strategy for the Cs/Sr Capsule Dry Storage Project and WESF K3 Stabilization Project.
- o Assisted DWF&RS with APD and SOW for LERF basin cover inspection.
- o Developed estimated procurement schedules for use by Projects to assist in determining work scopes to be completed this fiscal year.
- o Assisted S&GRP and IH develop APDs and SOWs for offsite analytical services to support WSCF shutdown. Developed acquisition strategy including establishing Sample Management Office, potential vendors, use of ICPTs and if need to be on ESL.
- o Attended Bridging Partnerships as CHPRC representative.

### **• Facilities and Property Management (F&PM)**

- o The annual physical inventory of CHPRC property commenced in February encompassing 4,081 items valued at \$152,328,862. As of April 30, 2014, 57% of the items and 61% of the value has been accounted for with no reported losses.

### **• Finance**

- o April month-end closing was completed on schedule with no cost suspensions.
- o Contract funding has been provided that is sufficient to continue uninterrupted operations through mid-June.
- o Replied to KPMG requests for data, in response to the FY2009 and FY2010 incurred cost audits.
- o CHPRC Finance provided comments to the RL Finance draft Labor Review on April 30, 2014.
- o Submitted FY2014 Fourth Quarter Conference Management Request to RL

### **• Human Resources**

- o There was an increase in staffing activity during the month of April with that trend continuing through the month of May. For the month of April, the company on boarded 29 employees (11 hires, 17 bargaining unit recalls, and 1 employee hired through the labor asset management program). There are currently 103 open requisitions (56 Bargaining Unit and 47 Non-Bargaining Unit).
- o CHPRC has developed a Succession Planning program that has been coordinated with other CH2M HILL projects to plan and support the strategic movement of CH2M HILL employees to staff the continued success of the CHPRC project. A process was developed that will allow the development of staff and maintain stability in filling future leadership positions on the project.

### **• Labor Relations**

- o Labor Relations continues to work with PFP management on moving PFP from the Deactivation phase to the D&D phase.

### **• Procurement**

- o Awarded/amended 126 contracts with a total value of \$4.81M. Additionally, awarded 155 new material purchase orders valued at \$424K to support ongoing project objectives.
- o At the end of the first 67 months of the PRC, procurement volume has been significant; \$2.085B in contract activity has been recorded with approximately 49.6 percent, or \$1.03B, in awards to small businesses. This includes 6,458 contract releases, 16,586 purchase orders, and 200,273 P-Card transactions.

- o Completed and issued 10 Advance Planning Documents and sent one consent package to RL for review or approval.
- o On April 22, 2014, CHPRC Procurement received a letter from RL providing approval of the CHPRC procurement system and revising the thresholds for purchasing actions in accordance with Prime Contract Clause I.104. This approval was based on two previous independent reviews by PERT and a current independent audit review in process.
- o CHPRC was a Gold Sponsor of the Bridging Partnerships Small Business Symposium put on by the Hanford Small Business Council (HSBC). The HSBC is made up of RL, ORP and all the Hanford Prime Contractors. As a member of the HSBC, CHPRC participated in planning the symposium, finding and arranging workshop and keynote speakers, networking reception, Hanford bus tour, as well as planning and exhibiting in the vendor tradeshow.
- o CHPRC held a graduation reception for Project Services Group (PSG) in appreciation and accomplishment as the CHPRC Protégé. Greg White, CEO of PSG, was here to receive the certificate of graduation and letter of appreciation presented by CHPRC President and CEO John Fulton. The reception was attended by staff from Procurement, Communications, and Prime Contracts.

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

- o In April, Prime Contracts Compliance received and processed eight (8) contract modifications (numbers 302, 324, 331 – 334, 336 & 338) from RL. Correspondence Review received and determined the distribution for 65 incoming letters/documents. The Prime Contracts Compliance Manager reviewed 42 outgoing correspondence packages.
- o The second quarterly self-assessment for Performance Measure-00-FY14 was provided to RL on April 28, 2014.
- o A PFP Whitepaper addressing excusable schedule delays was prepared and discussed with the RL Manager on April 22, 2014.
- o Developed comment responses and provided to RL for draft MOD 325 containing FY2014 Performance Measure changes for their use in responding to DOE-HQ.
- o Supported RL in Office of Inspector General (OIG) audit of PFP management through development of factual accuracy comments and report statement, preparing redline of audit report, developing table of factual accuracy and comment responses and compilation of response exhibits that were provided to the OIG. Follow-up meeting with OIG was well received.
- o Two Notice of Change letters were provided to RL in April.

**Change Proposal Activity Summary**

Change Proposals submitted on or ahead of due date	Supplemental Information submitted	Change Proposals definitized on or ahead of 180-day metric
3	0	0

- o Estimating & Program Support provided the following support to the Projects:
  - Plutonium Finishing Plant (PFP):
    - Continued support to information exchanges related to RL’s evaluation of CO #240, PFP Chemical Hazard Investigation and Mitigation of Chemical Lines.
  - Sludge Treatment Project (STP):
    - Continued efforts to assist in the preparation of a Request for Equitable Adjustment that will address the impact that funding changes in FY2012, FY2013, FY2014, and Sequestration had to the overall project cost and schedule.
    - Continued support in the maintenance of the Basis of Estimate(s) associated with

- planning scenarios related to the RL-0012 Performance Measurement Baseline (PMB) and FY2015 baseline planning.
  - Provided support to the Annex Construction subproject by reviewing and developing estimates on the claims submitted by the subcontractor.
- Decommissioning, Waste, Fuels & Remediation Services (DWF&RS) Project
  - In conjunction with the project, completed and submitted to RL, proposals related to the following Change Orders:
    - o CO # 228, *Activities in Support of Ecology Agreed Order*, on April 3, 2014.
  - Continued efforts to prepare a Change Proposal in response to the following directed Change Orders:
    - o CO # 249, *Installation of Leachate Transfer Line from ERDF to 200 West P&T*
    - o CO # 253, *100-K Area Boreholes and Sampling Investigation*
- Soil & Groundwater Remediation Project (S&GRP):
  - In conjunction with the project, completed and submitted to RL, proposals related to the following Change Orders:
    - o CO #250, *Implement the Sampling and Analysis Plan Developed for the 100-D-100 Waste Site and Underlying Groundwater Remediation*, on March 16, 2014;
    - o CO #251, *Incorporate 200-UP-1 Uranium Treatment at the 200 West Pump and Treat Facility*, on March 21, 2014.
  - Continued efforts to prepare Change Proposals in response to the following directed Change Orders:
    - o CO #254, *Central Plateau Inner Area Cleanup Principles / Risk Assessment and Modeling Parameters Document*;
    - o CO #255, *Installation, Operation and Maintenance of an Automated Water Level Monitoring Network (ALWN) in the 100-KR-4 and 100-HR-3 Operable Units*.
- o Estimating & Program Support provided the following support to the functional areas:
  - Safety, Health, Security and Quality:
    - Continued efforts to prepare Change Proposals in response to the following directed Change Order:
      - o CO #248, *Implement Requirements of DOE-0342, Revision 2A, Hanford Site Chronic Beryllium Disease Prevention Program*
  - o Estimating Systems Administration
    - Prepared and presented a briefing to RL Contracting Office and Groundwater Program staff on a process improvement topic relating to the conditions in which RL should segment change orders to facilitate the development and submittal of proposals containing FAR pricing. CHPRC recommended that new work involving design, construction and operations should be divided into multiple proposals so that the estimate and pricing is aligned with the stages of design. This will increase the quality of proposal technical information and pricing, improve negotiation, and provide CHPRC with baseline work that is achievable with reduced risk of negative cost and schedule variances.
    - Received a rate update and completed periodic update of material pricing library in the Sage database.
    - Continued coordination of up versioning efforts for Sage to the SQL Server version.
    - Continued update efforts on the estimating procedure and guide.
- **EVMS Compliance and Reporting**
  - o Provided data to support the EVMS, Stage II data call. This will support the Office of Acquisition and Project Management review of the CHPRC projects that exist in the PARS II repository.

- o Completed the fourth and final EVMS CAM training session.
- o Prepared for mock EVMS interviews, scheduled for June, which would simulate the actual interviews from the Office of Acquisition and Project Management. This will include Vice Presidents, Control Account Managers and Project Control personnel.
- o Provided comments to RL on draft Baseline Update Guidance (BUG).
- o Drafted plan to prepare the Annual Baseline Update, which will focus on project execution and estimate to complete values.
- **Strategic Planning and Integration**
  - o **Interface Management**
    - Continue to work issues on scope and interpretations of Usage-Base Services vs. Direct-Funded Services for J.3 #20 Fire & Emergency Response Services (Fire Protection System Inspection, Testing, and Maintenance).
    - J.3 Table Worktables
      - Audit Table's Points of Contact (POC) List
      - J.3-51 "Property Systems" work with MSA and WRPS to revise Service Delivery Document
    - Facilitated near term RFAR design requirements for the Sludge Treatment Project with MSA Fire Protection, Testing, and Maintenance. Begin development of an internal change control process after completion of Site Manuals Spreadsheet.
    - Continue internal audit of the MSA Statements of Work that are applicable to J.3 Usage-Based Services.
    - Maintained J.13/14 Timeline Titled "Communications 2014 and Beyond". Timeline shows modifications and major activities beyond 2014.
    - In process Interface Documents:
      - HNF-23474 Rev. 2, ICD Between CHPRC and JCI for Hazardous Energy Control
      - HNF-46148 Rev.3, ICD Between CHPRC and MSA for Water System Services
    - Continue working on FY2014 Infrastructure & Services Alignment Plan draft review.
    - Reviewed and commented on AIA HNF-40686 Integrated Biological Control Program Services
    - Continue to receive comments on and revise MOA HNF-49315 Agreement on Hanford Atomic Metal Trades Council (HAMTC) Seniority Related Discharges and Replacements.
    - New Interface Management Team
      - Extensive turnover orientation of Interface Management documents, shared sites and procedures.
      - New team members trained on Collective Bargain Agreement (CBA) and SharePoint site.
      - Introductory meetings with Project Managers at PFP and DWF&RS.
    - Audit of Service Delivery Documents site to reflect new personnel listed on Points of Contact Lists as well as Service Delivery Documents.
    - Attended Quarterly Nuclear Safety Forum.
    - Revision of Interface Management PRC-PRO-MS-10472 in progress.
  - o **Information Management**
    - Finalized transition from Windows XP to Windows 7. Remaining exemptions to the upgrade will be worked.
    - Supported Environmental program with Requirements Management matrices.
    - Provided backfill support for W&FMP records during POC absence
    - Provide Information Technology (IT), event logistics, and facilitation support to company manager meetings, EZAC, PZAC, and Leadership Impact Initiative training
    - Planning team participation and support for upcoming VPP luncheon celebration

- Provided information clearance and release support for 100K, SGW, DWF&RS, SHS&Q and PTS documents
- Created website banners and updated intranet sites for Communications, DWF&RS, W&FMP, HR, SHS&Q, and PC&PI.
- Provided numerous IT support requests for cellular phone issues/questions, meeting set-up, network connections, and printing.
- Installed 45 Thin Client workstations in support of FY14-EMS-PCPI-OB2-T1
- Removed 18 printers from service in support of FY14-EMS-PCPI-OB1-T1
- Processed 13,724 Electronic Records into IDMS

### **Project Technical Services (PTS)**

#### **• Central Engineering**

- o Nine Facility Fire Protection Assessments were issued (2268E, 2269E, 2610E, 2611E, 289T, 289TA, 289TC, 289TD, 289TE).
- o Supported Soil & Groundwater Project (S&GRP) in the development of the Functional Design Criteria and the Statement of Work for the 200-UP-1.
- o Supported the KW Annex construction in the evaluation of material to be used for the structural steel fire protection.
- o Supported DWF&RS in the structural evaluation of the WESF Area 2 for the placement of grout in the hot cells.
- o Added new Non Destructive Examination (NDE) services contractor to the Evaluated Suppliers List, the contractor is now available to provide NDE service.
- o Chaired the semi-annual meeting of the Energy Facility Contractors Group (EFCOG) Engineering Practices Working Group meeting in Washington D.C. April 15-17, 2014.
- o Supported S&GRP (200W P&T) with authoring an FMP that modifies installed heat trace design on piping to permanent.
- o Supported WESF Ventilation and Stabilization Project with review, comment, and approval on the Functional Design Criteria document.
- o Supported the EFCOG Supply Chain Quality Task Team to address the Commercial Grade Dedication of Expansion Anchor Bolts process for nuclear safety application.
- o Supported revision to the PFP FHA. In conjunction with the PFP Safety Basis Team, new fire scenarios were established in support of DSA revision for the remaining life cycle phases of PFP.
- o Supporting the MSA repair of the Manitowoc 90 ton crane. A crack was discovered during routine inspection in the bottom of the boom. The boom material is a European grade high strength low alloy steel which is proving to be difficult to obtain. The crane manufacturer is considering providing the steel to support the qualification of a welding procedure for repairing the crack.

#### **• Procedures and Training**

- o Conducted Leadership Impact Initiative Workshop on April 16-17, 2014.
- o Developed VISION templates for CHPRC for Task Analysis, Task to Training Matrix, DIF Analysis.
- o Worked with DWF&RS VP to finalize plans for next phase of leadership development training. Next quarter's training will be focused on dealing with difficult people.
- o Completed Procedures Management Assessment on human factors considerations. Results indicated that tools exist in the process to ensure human factors are considered. Implementation of tools can be improved (CR-2014-0885).
- o Supported training and procedures needs for SWOC MDSA Rev. 10 implementation.
- o Initiated procedure streamlining efforts for Conduct of Operations procedure set.
- o Developed path forward for update of Work Management procedure set.

- **Operations Program**
  - Submitted CSB Drill Report Conducted on March 20, 2014 to RL for Independent Evaluation Review.
  - Completed Initial Vulnerability Review of WIPP Accident Report for Emergency Preparedness and Maintenance.
  - Supported NSPEB Assessment at CP S&M and 100K.
  - Supported DWF&RS management efforts to improve tracking and disposition of M&TE Notice of Discrepancies.
  - Conducted Senior Supervisory Watches at PFP supporting procedure compliance improvements.
  - Assisted SGRP improving conduct of operations in the areas of procedure compliance, PPE use, communications, and control of equipment status.
  - Assisted CP S&M management on their Con Ops Improvement plan.
  - Supported PFP with requested programmatic changes for their Responsible Managers qualifications.
  - Worked with Environmental updating the content of the pre-demolition checklist.
  - Commenced Work Control process improvement initiative following ESRB concurrence with the path forward.
  - Submitted T-Plant EPHA to RL for approval.
- **Project Delivery**
  - **S&GRP**
    - Completed fabrication of 20 control racks for 100KX and 100DX well realignment projects.
    - Installed over 5,000 linear feet of new HDPE in support of 100K Pump and Treat Facility.
  - **DWF&RS**
    - Completed 75 percent of the fire barrier penetrations. Work is tracking to be completed two weeks ahead of the original schedule due to a coordinated team effort between T Plant, PTS, and Ojeda Business Ventures.
- **KW Annex Construction**
  - Completed shop fire coating application and initiated erection of steel members for the low and intermediate bay steel.
  - Received mezzanine floor shielding plates.
  - Initiated field fire coating application of steel members for the installed mezzanine.
  - Continued fabrication of steel members for the high bay steel – scheduled completion early May.

## Communications

- **Internal**
  - Internally shared photos, videos and presentations from the March all-employee meeting.
  - Began producing a video showcasing efficiencies on the S&GRP project.
  - Produced five issues of the Weekly Update, CHPRC's news bulletin, with manager messages from John Fulton, President and Chief Executive Officer; Moses Jaraysi, Vice President of Environmental Programs and Strategic Planning; Sara Austin, Environmental Management System Specialist; Dee Millikin, Communications Director; and Tracey Heidelberg, Deputy Vice President of Business Services.
- **Public Relations**
  - Supported RL with media regarding cesium and strontium capsule storage and fines regarding asbestos issues.
  - RL posted to social media CHPRC's video of PFP industrial hygiene safety and efficiency improvements.
  - CHPRC's Sludge Treatment Project sharing of lessons learned with the Oak Ridge National

Laboratory as well as the recent zero waste employee events were featured in the Hanford Forward, the site's quarterly newsletter.

- **Public Involvement**
  - o Developed information products for two upcoming comment periods: 100-F/IU Operable Unit Proposed Plan and an Engineering Evaluation/Cost Analysis on WESF capsules disposition (dry storage).

## 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 (%)
Office of the President	0.4	0.4	0.2	0.0	0.0%	(0.1)	41.8%
Internal Audit	0.1	0.1	0.0	0.0	0.0%	0.0	40.8%
General Counsel	0.1	0.1	0.1	0.0	0.0%	0.0	26.0%
Communications	0.1	0.1	0.1	0.0	0.0%	0.0	7.0%
Safety, Health, Security and Quality	1.1	1.1	1.0	(0.0)	-0.9%	0.1	11.7%
Environmental Program and Strategic Planning	0.3	0.3	0.3	0.0	0.0%	0.0	1.8%
Business Services	1.4	1.4	1.5	0.0	0.0%	(0.0)	-1.1%
Prime Contract and Project Integration	1.7	1.7	1.4	(0.0)	-0.0%	0.3	18.3%
Project Technical Services	0.6	0.6	0.6	0.0	0.0%	0.0	0.6%
<b>Indirect WBS 000 Total</b>	<b>5.7</b>	<b>5.7</b>	<b>5.1</b>	<b>(0.0)</b>	<b>-0.2%</b>	<b>0.6</b>	<b>11.1%</b>

Numbers are rounded to the nearest \$0.1M.

#### Indirect WBS 000

##### CM Schedule Performance: (-\$0.0M/-0.2%)

Variance is within reporting thresholds.

##### CM Cost Performance: (+\$0.6M/+11.1%)

Variance is primarily due to lower than expected costs for Time Verification System and subcontract resources.

## 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)
Office of the President	1.2	1.2	1.3	0.0	0.0%	(0.2)	-13.9%	2.1
Internal Audit	0.5	0.5	0.3	0.0	0.0%	0.1	24.7%	0.8
General Counsel	0.8	0.8	0.6	0.0	0.0%	0.2	20.5%	1.4
Communications	0.5	0.5	0.6	0.0	0.0%	(0.0)	-8.6%	1.0
Safety, Health, Security and Quality	7.7	7.7	6.4	(0.0)	-0.6%	1.2	16.1%	14.0
Environmental Program and Strategic Planning	2.3	2.3	2.1	0.0	0.0%	0.2	10.1%	4.2
Business Services	10.0	10.0	8.9	0.0	0.0%	1.1	10.7%	18.2
Prime Contract and Project Integration	11.5	11.5	9.9	0.0	0.0%	1.6	13.8%	21.0
Project Technical Services	3.9	3.9	4.2	0.0	0.0%	(0.3)	-6.7%	7.1
<b>Indirect WBS 000 Total</b>	<b>38.3</b>	<b>38.3</b>	<b>34.4</b>	<b>(0.0)</b>	<b>-0.1%</b>	<b>3.9</b>	<b>10.3%</b>	<b>69.9</b>

Numbers are rounded to the nearest \$0.1M.

### Indirect WBS 000

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

Variance is within reporting thresholds.

#### FYTD Cost Performance: (+\$3.9M/+10.3%)

The favorable cost variance is primarily due to lower than expected costs for Time Verification System and B&O Home Office Cost estimate reductions in prior year assessments.

### Baseline Change Requests

BCR-PRC-14-011R0 – *Base Year Shift of FY2015 PMB Update*

BCRA-PRC-14-013R0 – *HPIC Updates*

## FY2014 G&A Analysis (\$M)

WBS 000 Project Services and Support	FY2014					
	FYTD BCWS	FYTD Actual	FYTD Variance (O)/U	FY2014 BCWS	FY2014 Forecast	FY2014 Variance (O)/U
Office of the President	1.2	1.3	(0.2)	2.1	2.4	(0.3)
Internal Audit	0.5	0.3	0.1	0.8	0.8	0.0
General Council	0.8	0.6	0.2	1.4	1.4	0.0
Communications	0.5	0.6	(0.0)	1.0	1.2	(0.2)
Safety, Health, Security and Quality	7.7	6.4	1.3	14.0	12.3	1.8
Env. Program & Strategic Planning	2.3	2.1	0.2	4.2	3.9	0.3
Business Services	10.0	8.9	1.1	18.2	17.6	0.6
Prime Contract and Project Integration	11.5	9.9	1.6	21.0	18.7	2.3
Project Technical Services	3.9	4.2	(0.3)	7.1	7.4	(0.3)
<b>General &amp; Administrative (G&amp;A)</b>	<b>38.3</b>	<b>34.4</b>	<b>4.0</b>	<b>69.9</b>	<b>65.7</b>	<b>4.1</b>
		<b>FYTD</b>			<b>FY2014</b>	
<b>G&amp;A Distribution</b>		<b>(32.2)</b>			<b>(68.8)</b>	
<b>G&amp;A Liquidation (Over)/Under</b>		<b>2.1</b>			<b>(3.1)</b>	

### Liquidation Analysis

- FYTD through April, application of the G&A rate has under-liquidated total to date G&A costs by \$2.1M. The FY2014 year end projected over liquidation of 3.1M reflected in the fiscal year spend forecast reflects revised funding guidance which significantly increased the G&A base.
- 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.