

Monthly Performance Report

August 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 8:25 am, Sep 30, 2014

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

August 2014
CHPRC-2014-08, Rev. 0

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EXECUTIVE SUMMARY

- The Plutonium Finishing Plant Closure (PFP) Project team finished loading out waste from demolition of the 270-Z building. The team has completed removal of the eight structures planned for removal or demolition in FY2014. Overall deactivation of PFP is 73 percent complete.
- The Soil & Groundwater Remediation Project (S&GRP) achieved three Fiscal Year (FY) Key Performance Goals (KPG) ahead of schedule: Treating 1.8 billion gallons of contaminated groundwater and removing 2,400 kilograms (5,291 pounds) of carbon tetrachloride and 45,000 kilograms (99,208 pounds) of nitrate.
- The Decommissioning, Waste, Fuels & Remediation Services (DWF&RS) and Project Technical Services (PTS) projects continued work on the Annex, which will house the systems and equipment used to retrieve highly radioactive storage from the K West Reactor fuel storage basin. The external walls of the Annex are in place and priming is in process.
- On August 2, 2014, CHPRC hosted the 6th annual company Family Picnic at GESA stadium in Pasco. Consistent with our EMS principles, this was an environmentally friendly, ZERO WASTE picnic. 99 percent of the waste generated was diverted from landfills to be recycled, reused, donated, or composted (933 pounds of garbage were produced, with only 9 pounds that went to a landfill).



Demolition of the 270-Z building at PFP



Walls in place around the Annex

Focus on Safety

- The Decommissioning, Waste, Fuels, and Remediation Services (DWF&RS) Project hosted the August 2014 President's Zero Accident Council (PZAC) meeting. The three main themes for the meeting were:
 - o Hanford Site Traffic Safety Committee
 - o Emergency Preparedness
 - o Teamwork = Success

Two representatives from the Hanford Site Traffic Safety Committee got the meeting off to a good start, identifying the drivers of the committee and the benefit to employees. Noteworthy committee efforts to improve traffic safety included working with local authorities to ease commute issues, a site wide campaign to find and remove roadway obstructions, and an emphasis on the highly successful Driver Awareness Course for employees who operate government vehicles. The next presenter took over the lead position in the meeting by promoting September as Emergency Preparedness month, reminding the audience of the importance of drilling and training so responses to real events are crisp and protective. August Good News Stories highlighted the value of teamwork. Examples of planned electrical outages and large waste box shipments demonstrated how a foundation of well-trained, organized and committed "pit crews" keep the organization running smooth. The Environmental Management System (EMS) update reported the highly successful outcome of the annual ISO 14001 recertification audit, where there were no findings, an affirmation of CHPRC's strong EMS commitment, and three Best in Class designations for Soil and Groundwater Sampling, compliance matrices, and Zero Waste events. Additional presentations on the CHPRC safety performance, conflict of interest ethical considerations, Voluntary Protection Program (VPP) updates, and EMS helped steer the meeting into victory lane.



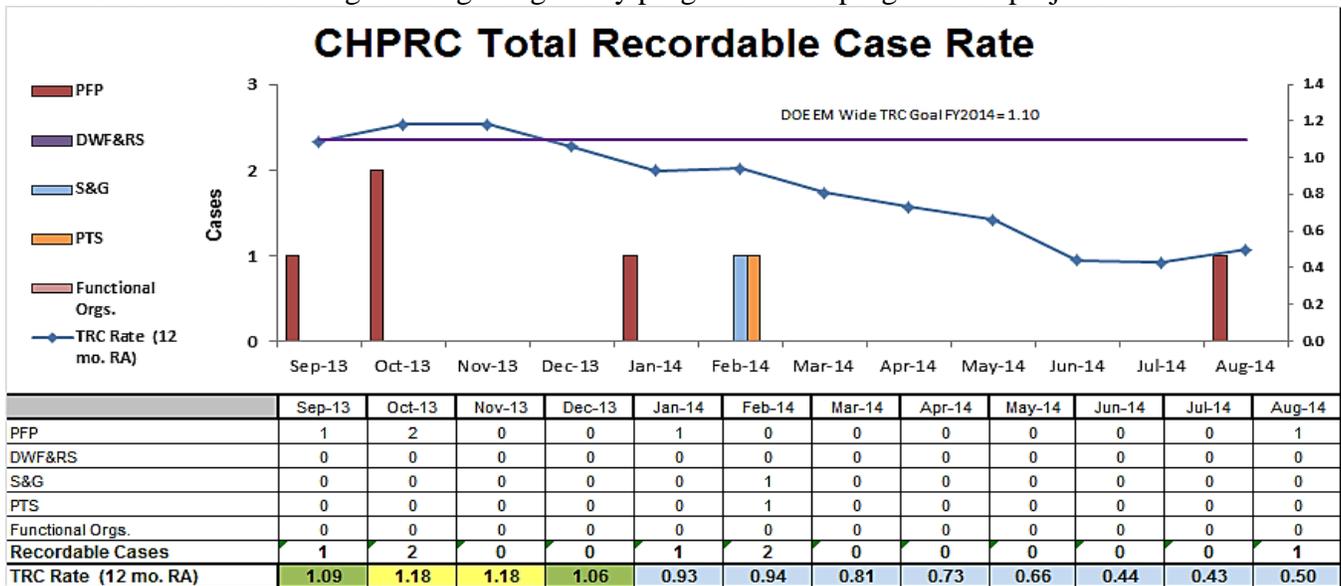
- Four "Thinking Target Zero" (TTZ) bulletins were published in August to convey important occupational safety, health and environmental messages:
 - o EMS Climate Change
 - o 360° Vehicle Inspections
 - o Stress and Change
 - o Eye Protection
- A "Special Safety Bulletin" (SSB) was published in August informing the workforce of new medical surveillance exam policies implemented by the Site Occupational Medical Director (SOMD). The SOMD made changes made in response to DOE direction and emphasis on current employee job task analyses.
- *Weekly Safety Tailgate* briefing packages in August communicated relevant topics and safety information to the workforce:
 - o Biological Hazards
 - o Globally Harmonized System Pictograms
 - o Manufacturer Changes to Respiratory Protection Cartridges
 - o Reducing Skin Cancer Risk
 - o New EJTA Requirements
 - o "What Would You Do?" Ethics Awareness messages
 - o Injury/Illness Summaries and the TTZ of the week



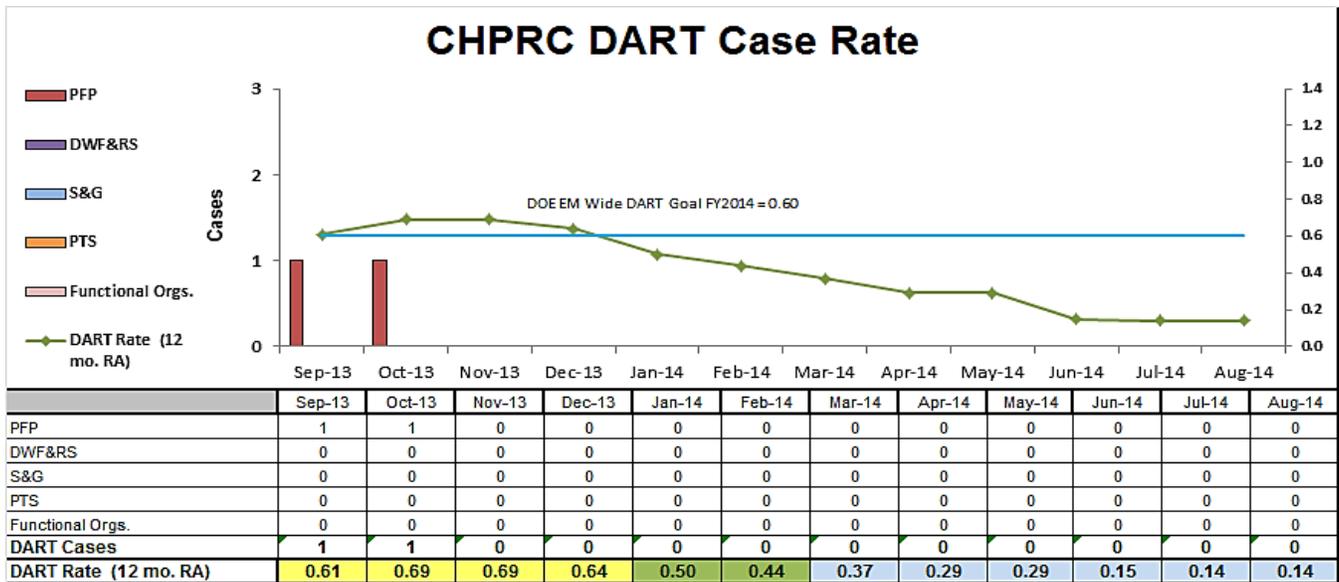
- CHPRC Weekly Updates in August included two blogs with strong safety messages. Ty Blackford, Vice President of DWF&RS, and Mark Wright, Vice President of Project Technical Services (PTS), informed the workforce about their partnering efforts on cleanup and construction at 100KW. The message emphasized the success of the joint work being a product of a strong focus on safety requirements and engagement in the CHPRC safety culture. Mike Swartz, Vice President of PFP, issued a message on demo zone preparations, focusing on safe and compliant progress in demolishing legacy contaminated facilities, thereby reducing risk on the Hanford site.
- Nine CHPRC employees attended the 30th Annual National Voluntary Protection Program Participants Association Conference on August 25-28 in National Harbor, MD. John Fulton was awarded the DOE Contractor Champions award at this conference.

TARGET ZERO PERFORMANCE August 2014

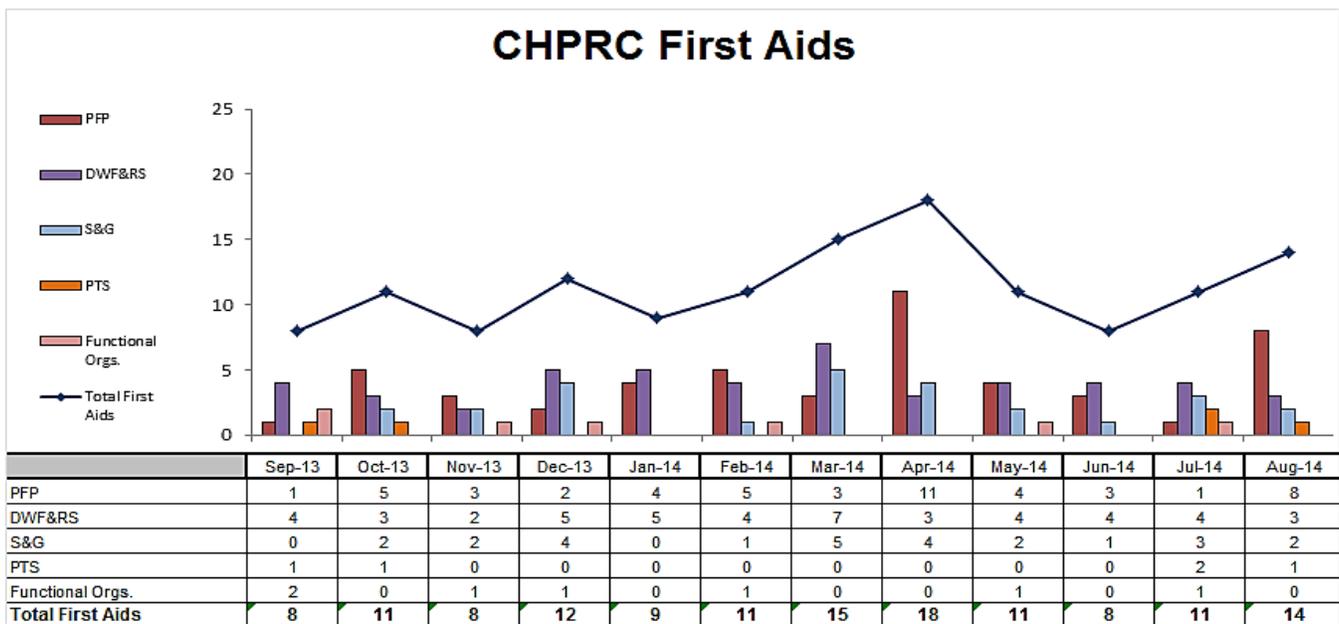
CHPRC continued focusing on integrating safety programs in all program and project areas.



Total Recordable Injury Case (TRC) Rate – The 12 month rolling average TRC rate of 0.50 is based on a total of seven Recordable injuries (five Recordables and two DART cases). There was one Recordable case in August. One case is being evaluated/investigated for potential recordability.



Days Away, Restricted or Transferred (DART) Workdays Case Rate – The 12 month rolling average DART rate of 0.14 is based upon a total of two Days Away cases. There were no DART cases in August 2014. As of August, CHPRC has worked in excess of 2.43 million hours without a DART case.



First Aid Case Summary – CHPRC reported fourteen first-aid cases in August 2014; of these fourteen cases, nine cases required no treatment. There were three self-treated injuries. The contributors were seven Sprains / Strains / Pains, four Abrasions / Contusions, one eye irritation, one puncture wound and one potential exposure to temperature extremes.

KEY ACCOMPLISHMENTS

Projects

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

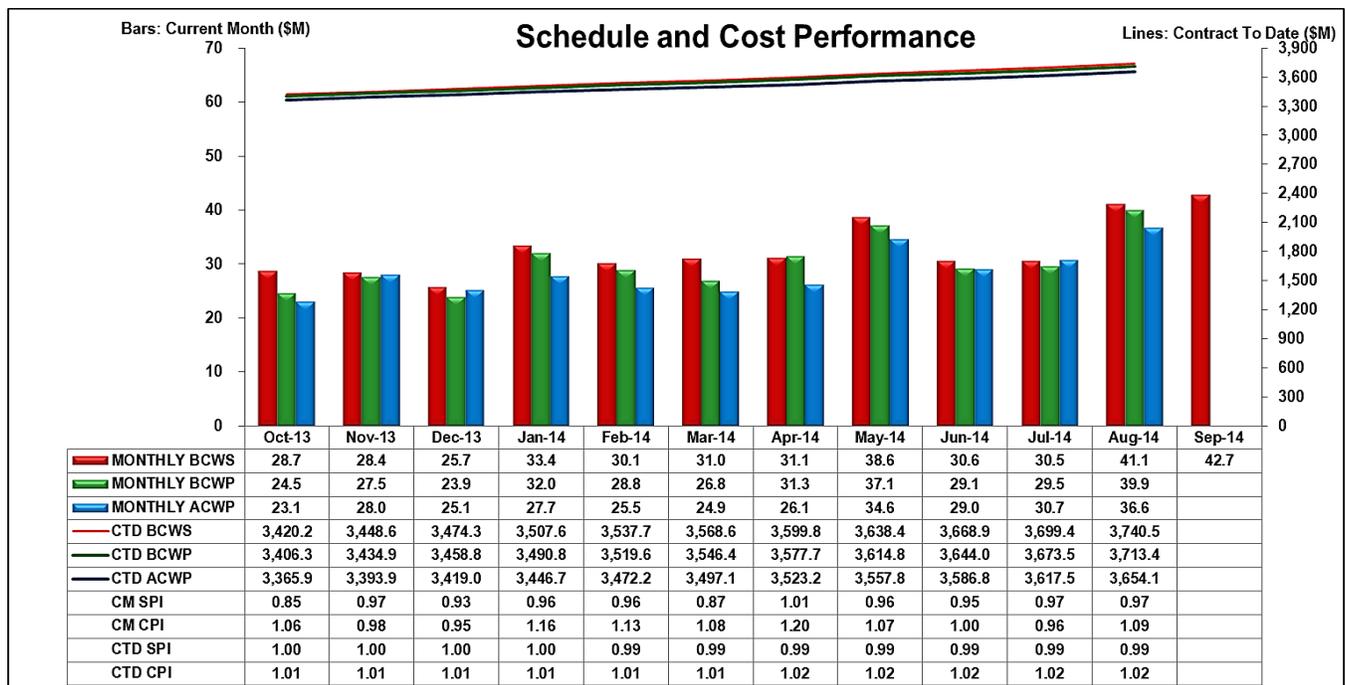
Project Services and Support

- 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	10.4	8.8	9.0	(1.6)	(0.2)	719.3	688.3	725.2	(31.0)	(36.9)	935.4	965.6	(30.3)	
RL-0012 - SNF Stabilization & Disposition	5.5	6.8	6.9	1.3	(0.1)	432.4	436.1	446.8	3.7	(10.7)	692.6	727.2	(34.6)	
RL-0013 - Solid Waste Stab & Disposition	9.4	9.8	7.7	0.4	2.2	870.3	872.0	838.9	1.7	33.1	1,342.8	1,255.9	86.9	
RL-0030 - Soil & Water Rem-Grndwtr/Vadose	12.9	11.7	11.5	(1.2)	0.2	1002.8	1002.3	989.4	(0.5)	12.8	1,511.2	1,462.5	48.8	
RL-0040 - Nuc Fac D&D - Remainder	1.6	1.6	1.3	(0.0)	0.3	388.2	387.2	356.8	(0.9)	30.5	488.7	456.9	31.8	
RL-0041 - Nuc Fac D&D - RC Closure Project	1.0	1.0	0.2	(0.0)	0.8	309.6	309.6	282.1	(0.0)	27.5	393.6	350.2	43.5	
RL-0042 - Nuc Fac D&D - FFTF Project	0.2	0.2	0.1	0.0	0.1	17.9	17.9	15.0	(0.0)	3.0	26.5	20.1	6.4	
(Numbers are rounded to the nearest \$0.1M)	Total	41.1	39.9	36.6	(1.1)	3.3	3,740.5	3,713.4	3,654.1	(27.1)	59.3	5,390.7	5,238.3	152.4

Performance Summary

CHPRC continues to track completion of contract scope within budget and is currently projecting a Variance at Completion of \$152.4M with \$81.9M of Management Reserve for a total positive variance of \$234.3M.

- For August, the project was 2.8% behind schedule and 8.3% under planned cost. For FY2014, the project is 5.3% behind schedule and 5.9% under planned cost. Schedule and cost performance in August was within reporting thresholds.

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	106.8	96.5	10.3
RL-0012	Spent Nuclear Fuel Stabilization and Disposition	72.2	68.8	3.4
RL-0013	Waste and Fuels Management Project	83.8	78.5	5.3
RL-0030	Soil, Groundwater and Vadose Zone Remediation	121.0	109.2	11.8
RL-0040	Nuclear Facility D&D, Remainder of Hanford	13.2	12.2	1.0
RL-0041	Nuclear Facility D&D, River Corridor	10.1	4.5	5.6
RL-0042	Fast Flux Test Facility Closure	2.3	1.6	0.7
Total Base:		409.4	371.3	38.1

Funds/Variance Analysis:

FY2014 Projected Funding reflects a \$0.5M reduction in PBS RL-0030 for BPA, for a revised funding level of \$409.4M.

BASELINE CHANGE REQUESTS

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

Change Request #	Title	Summary of Change
Implemented into the Earned Value Management System for July 2014		
BCR-030-14-021R0	<i>CO #256, 200-BP-5 Design and Install Ready Activities</i>	This baseline change request (BCR) incorporates scope associated with the Change Order (CO) 256, 200-BP-5 Design and Install-Ready Activities, Not to Exceed (NTE) amount of \$300K authorized by Contract Modification (CM) 347. This change increased the PMB by \$298K.
BCR-041-14-003R0	<i>MO 442 Demolition</i>	This BCR adds work scope to the PMB in accordance with Correspondence No. 1401739.3 received on July 14, 2014. The added scope includes performance of activities required to demolish MO442. The change will also remove the work scope associated with demolition of MO917 from CLIN 7. This BCR increased the PMB by \$29K.
BCR-041-14-004R0	<i>Division of Control Accounts</i>	This BCR divides existing long duration control accounts and establishes new control accounts for future remediation and D4 work at the 100K area to enhance the earned value reporting and analysis. This change does not add, delete, or modify existing scope. It closes existing control accounts and creates new ones to facilitate management of the project. This BCR did not change the PMB values.
BCR-PRC-14-023R0	<i>Definitization of CO #247, Incorporate River Corridor Waste Sites into RI-FS Document</i>	This BCR implements DOE-RL direction to implement CM 344, which definitizes CO 247, Waste Site Evaluation Scope for River Corridor Remedial Investigation / Feasibility Study Documents. Per the modification this BCR also moves 200-E-127-PL-A RTD Pipeline scope to CLIN 7 to maintain PMB alignment with the B.4-1 Table. This change decreased the PMB by \$4,667K.
BCR-PRC-14-024R0	<i>Definitization of CO #239, Complete Phase II SWOC Permit Modifications</i>	This BCR implements DOE-RL direction to implement CM 345, which definitizes CO 239, Complete Phase 2 SWOC Permit Modifications. Per the modification this BCR also moves OA-Non-SQUID Specific-Pipelines scope consisting of Pipeline RTD to CLIN 7 to maintain PMB alignment with the B.4-1 Table. This change decreased the PMB by \$308K.
BCR-PRC-14-025R0	<i>Definitization of CO #245, WESF Ventilation System Upgrade CDR</i>	This BCR implements DOE-RL direction to implement CM 351, which definitizes CO 245, Revise Conceptual Design Report for Waste Encapsulation and Storage Facility K1/K3 Exhaust System Upgrade Project. Per the modification this BCR also moves OA-Non-SQUID Specific-Pipelines scope consisting of Pipeline RTD to CLIN 7 to maintain PMB alignment with the B.4-1 Table. This change decreased the PMB by \$1,215K.
BCR-030-14-020R0	<i>Update PBS RL-030 TPA Milestones</i>	This BCR implements four approved TPA change packages into the PMB baseline for PBS RL-030. There is no change to the scope in the PMB as a result of this BCR.

Overall, the contract Performance Measurement Baseline budget decreased \$1,662K.

Management Reserve Activity

BCR Number	Title	Fiscal Year	MR
N/A	N/A	N/A	N/A

There were no changes to Management Reserve during August.

Fee Activity

BCR Number	Title	Fiscal Year	Fee
N/A	N/A	N/A	N/A

There were no changes to Fee during August.

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):

August 2014 Summary of Changes

	FYs 2009-2013	FY2014	FY2015	FY2016	FY2017	FY2018	FYs 2014-2018	Contract Period Total	Total PMB
July 2014 Estimate									
PMB	3,391,477	390,807	438,469	430,238	370,762	370,639	2,000,915	5,392,392	5,392,392
MR	0	1,952	7,250	21,000	21,000	30,649	81,852	81,852	81,852
Fee	155,504	14,325	13,480	19,800	8,800	16,573	72,978	228,482	228,482
Total	3,546,981	407,084	459,199	471,038	400,561	417,862	2,155,745	5,702,725	5,702,725
August 2014 Change									
PMB									
Change to PMB	0	949	411	219	-2,217	-1,023	-1,662	-1,662	-1,662
MR									
Change to MR	0	0	0	0	0	0	0	0	0
Fee									
Change to Fee	0	0	0	0	0	0	0	0	0
Total Change	0	949	411	219	-2,217	-1,023	-1,662	-1,662	-1,662
August 2014 Estimate									
PMB	3,391,477	391,756	438,879	430,457	368,545	369,616	1,999,253	5,390,730	5,390,730
MR	0	1,952	7,250	21,000	21,000	30,649	81,852	81,852	81,852
Fee	155,504	14,325	13,480	19,800	8,800	16,573	72,978	228,482	228,482
Total	3,546,981	408,033	459,610	471,257	398,345	416,838	2,154,083	5,701,064	5,701,064

Changes to/Utilization of Management Reserve in August 2014

	FY2009-2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2014-2018	Total
July 2014 MR Totals								
RL-0011	0	52	3,000	8,000	8,000	0	19,052	19,052
RL-0012	0	0	2,000	3,000	5,000	3,897	13,897	13,897
RL-0013	0	500	500	2,000	800	6,824	10,624	10,624
RL-0030	0	750	1,000	3,000	2,500	8,828	16,078	16,078
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
Total	0	1,952	7,250	21,000	21,000	30,650	81,852	81,852
August 2014 MR Changes/Utilization								
RL-0011	0	0	0	0	0	0	0	0
RL-0012	0	0	0	0	0	0	0	0
RL-0013	0	0	0	0	0	0	0	0
RL-0030	0	0	0	0	0	0	0	0
RL-0040	0	0	0	0	0	0	0	0
RL-0041	0	0	0	0	0	0	0	0
RL-0042	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0
August 2014 MR Totals								
RL-0011	0	52	3,000	8,000	8,000	0	19,052	19,052
RL-0012	0	0	2,000	3,000	5,000	3,897	13,897	13,897
RL-0013	0	500	500	2,000	800	6,824	10,624	10,624
RL-0030	0	750	1,000	3,000	2,500	8,828	16,078	16,078
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
Total	0	1,952	7,250	21,000	21,000	30,650	81,852	81,852

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 -8/31/2014				Projection to FY2018	
Reporting Category				Planned Subcontracting:	\$2,406,850,560
	\$ Value	%	Goal %	Contract-to-date awards:	\$2,126,437,260
				Bal remaining to award:	\$280,413,300
				Goal award\$	Bal to Goal
SB	\$1,066,357,610	50.15%	49.3%	\$1,186,577,326	\$120,219,716
SDB	\$183,833,916	8.65%	8.2%	\$197,361,746	\$13,527,830
SWOB	\$209,812,648	9.87%	7.5%	\$180,513,792	-\$29,298,856
HUB	\$35,374,160	1.66%	2.2%	\$52,950,712	\$17,576,553
VOSB	\$123,436,147	5.80%	3.5%	\$84,239,770	-\$39,196,377
SDVO	\$59,148,080	2.78%	1.3%	\$31,289,057	-\$27,859,023
NAB	\$31,021,254	1.46%	N/A		
Large	\$571,294,429	26.87%	N/A	PRC clause H.20 small business requirement ≥ 17% of total Contract Price performed by SB.	
GOVT	\$2,167,629	0.10%	N/A		
GOVT CONT	\$482,866,522	22.71%	N/A		
EDUCATION	\$93,596	0.00%	N/A	Total Contract (mod 356):	\$5,696,680,278
NONPROFIT_	\$3,420,840	0.16%	N/A	17% rqmt:	\$968,435,647
FOREIGN	\$236,634	0.01%	N/A	SB actual:	\$1,066,357,610
Total	\$2,126,437,260	100.00%	N/A	Bal to rqmt	-\$97,921,963

Notes:

1. Since the CHPRC contract award in October 2008, CHPRC has subcontracted over \$2.12B in goods and services with over 50.1 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
CONTRACT			
J.12/C.2.3.6	PBS-13, Transuranic Waste Certification	WIPP provides shipping resources and manages the schedule for transportation of these containers to WIPP. The schedule is variable and the number of shipments is controlled by DOE-HQ on a complex-wide priority. Cost for shipment of TRU waste offsite is borne by the Carlsbad Field Office.	Ongoing

Section A

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



J. M. Swartz
Vice President for
PFP Closure Project

August 2014
CHPRC-2014-08, 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 PFP Project, working with their RL counterpart, has developed an agreed upon set of metrics and is working on developing a combined dashboard. PFP is continuing to work with RL to incorporate these metrics into the RL dashboard, this is expected to be completed early FY2015.

<i>Key Performance Indicators</i>	<i>Current Month</i>	<i>Contract To Date</i>
Glovebox/ Hood Removed or Dispositioned in Place	-	206 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	6	142 pencil tank units
Buildings Ready for Demo	1	40 structures
Buildings Demolished or Removed	2	40 structures
Non-radioactive Waste Shipped	-	42 m ³
TRU/TRU-M Shipped	19 m ³	1,3796 m ³
LLW/MLLW Shipped	4742 m ³	5,853 m ³

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 at 89 percent complete.

- Continued external process and transfer line isolations from HC-7C glovebox
- Completed internal stripout, painted interior, and separated HC-46F glovebox from E4 ventilation
- Dispositioned 236-Z Pencil Tank 69/70 (6 Pencil Tank Units)
- Exterior modifications/prep completed (4B Airlock, Filter Mods, Tent) in 242-Z
- Completion of demolition and disposition of waste associated with Buildings MO-2704 and MO-270 was accomplished during the month of August.
- Ready for demolition activities were completed on building MO-270.

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.	7/31/14	Completed 7/31/14
			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.	9/30/14	Due to conflicting priorities, an extension was requested and granted to complete by 9/30/14

TARGET ZERO PERFORMANCE

	Current Month	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	2	N/A
Total Recordable Injuries	1	5	<ul style="list-style-type: none"> 8/21/14 - Employee hit head on the A/C Unit located on the North end of MO-2118. Employee was transported to Kadlec Hospital in Richland where three staples to head wound were applied. Employee went to HPMC and was released to return to work with restrictions (no whole entries in CA areas). (23462)
First Aid Cases	8	50	<ul style="list-style-type: none"> 8/4/14 - Employee reported that he was doing required reading and felt something in this eye. The employee tried unsuccessfully to flush it out then reported to HPMC (23440). 8/5/14 - Employee reported that while lifting the NDA probe a zip-tie stuck in the palm of his hand (23449). 8/12/14 - Employee was transporting waste on a hand truck inside a large roll off container and twisted his ankle on a spool of rolled up airline (23455). 8/20/14 - Employee reported low back pain during material movement. Employee was transported HPMC where examined and diagnosed as having lumbar sprain/strain, and was released to return to work with restriction (23460). 8/20/14 - Employee was performing PTO assembly (moving/loading sono tube into PTO plastic tube). He was taken to HPMC where he was examined and diagnosed as having a sprain/strain of the left shoulder/upper arm and was released to return to work without restriction (23461). 8/21/14 - Employee experienced pain in left leg and reported hamstring muscle was sore. Employee was taken to HPMC and diagnosed as having a strain/sprain to left thigh and was released to return to work without restriction (23463). 8/29/14 - Employee reached behind the oxygen analyzer cabinet and caught left arm on something sharp. Employee was taken to HPMC where examined, given wound care and a restriction to protect wound from contamination potential (23467). 8/27/14 - Employee noticed discomfort in shoulder over the weekend after completing work assignment and reported it on 9/3/14 before work started (23469).
Near Misses	0	0	N/A

KEY ACCOMPLISHMENTS

11.02 Maintain Safe & Compliant PFP

- Received notification from DOE that the official letter was in routing for final signatures supporting 14-NSD-0057 - RL, *APPROVAL OF REVISION 10 OF THE PLUTONIUM FINISHING PLANT (PFP) DEACTIVATION AND DECOMMISSIONING DOCUMENTED SAFETY ANALYSIS (DSA) AND REVISION 10 OF THE PFP TECHNICAL SAFETY REQUIREMENTS.*

11.05 Disposition PFP Facility

242-Z

- Completed PFP Specific training for new 242-Z team members
- Completed PreMaire Drills and Emergency Response Training for 242-Z
- Exterior modifications/prep completed (4B Airlock, Filter Mods, Tent)

RMC

- Continued external process and transfer line isolations from HC-7C glovebox.

Backside Rooms

- Completed internal strip-out, painted interior, and separated HC-46F glovebox from E4 ventilation.

236-Z Plutonium Reclamation Facility (PRF)

- Pencil Tanks
 - Shipped 236-Z Pencil Tank 69/70

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 with polyurethane type foam:

1. The foam products previously 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 to fire with non-combustible materials.
2. In addition to the fire hazard, the foam products produce a significant quantity of soot when burned.
3. As a result of the HAI report, RL is recommending that other, non-combustible products be evaluated.

Corrective Action – PFP is evaluating a non-polyurethane foaming material. During the month of June a vendor placed two different foams into the PFP mock-up glovebox. Evaluations during the demonstration reduced the concerns with any off gassing and exothermic reactions. Evaluations of the foam the next day indicated a slight shrinkage of the foam inside the mockup. Evaluation and testing at the vendor facility during June and July indicated the settling could be resolved by utilization of a screw dispersal pump.

Status – During the month of July, two sample sets of foam were dispatched to Southwest Research Institute (SWRI) to begin flammability testing. In August, the preliminary information received from SWRI confirmed the foam is nonflammable. In August the vendor returned to Hanford with a screw dispersal pump and completed the third cementuous foam pour. Inspection over the weeks after the third foaming indicated only a very slight settling (without shrinkage) of the foam which is not considered problematic. Cutting of the demonstration glove box is anticipated in September for a qualitative evaluation of the ability of the cementuous foam to adhere to the glovebox.

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 – The team is continuing to evaluate material form and distribution aspects of accident scenarios, as necessary for developing more accurate and reasonable accident consequences. Accomplishments include:

- Hazard Analysis final comments being incorporated.
- Fire Hazards Analysis final comment incorporation in-process; sending to Fire Marshall for approval mid-September.
- Accident Analysis in-process. Following evaluations being prepared to support Accident Analysis.
 - Peer review for ARF*RF values for gloveboxes complete; ready for independent third party review.
 - Reduction of uncertainty in MAR used for accident analysis in-process.

Issue – PRF Canyon Crane Trolley Drive Belt - During monthly wire rope inspections, personnel noted minor fraying along the outer edge of the PRF canyon crane trolley drive belt. The trolley drive belt is not part of the load bearing portion of the crane, as it exclusively controls the East/West movement of the crane trolley. The fraying appears to be caused by the belt rubbing against the pulley guide rail and is limited to a few inches in length, extending roughly 1/8 inch inward. Two small cracks were also noted in this portion of the belt, also extending about 1/8 inch inward.

Corrective Action - Engineering evaluated photographs and videos of the belt and determined it could continue to be used until it was convenient to schedule a belt replacement. However, personnel assigned to Pencil Tank size reduction were uncomfortable using the crane. Correspondingly, those resources were assigned to other work while Engineering consults with the crane manufacturer for a second opinion. A work package is being developed to replace the belt.

Status – During August, engineering completed their evaluation of belt capability and assigned personnel were briefed on the conclusion. Pencil tank work resumed while the repair package was completed. Belt replacement was initiated the last week of the month and will continue into September.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

 Response Plan Effective
 Response Plan Partially Effective
 Response Plan Not Effective

 Increased Confidence
 No Change
 Decreased Confidence

Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
RL-011/WBS 011				
Overarching PFP Risks				
PFP-009: Aging Building Systems/Components Problems Impact Planned D&D Activities	Included life extension upgrades as part of FY2014 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. This risk will be closed in September.
PFP-062: Ability to Use Perma-Fix Northwest for Glovebox Size Reduction	In the event of Perma-Fix Northwest closing PFP is continuing to options to perform in-situ size reduction of gloveboxes to mitigate this risk if PFNW is no longer able to accept waste from the facility. 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. PFP shipments to and from PermaFix Northwest have been approved through the end of the fiscal year. A concern still remains as to whether enough waste will be generated and shipped to PFNW to continue to provide services to CHPRC. PFP is continuing to monitor this situation.
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.
PFP- 079 – Extend Respiratory Protection Time & Operating Efficiencies	Establishing expectations and behaviors that streamline the shift/pre-job briefings, dress/undress times to allow for additional on-tool time and achieve 2-entries per day. Monitor stay-times and work patterns to establish efficiency increases to 2.5 hours per entry. Achieve consistency in work package preparation to minimize down-time.			Negotiations were successful to extend respiratory protection time with the ratification of the Collective Bargaining Agreement effective November 11, 2013. The PFP project has implemented extended dives since implementation of the agreement, and longer stay times in the field are being realized. Continuing to implement Breakthrough Initiative #1, Tool Time actions.
PFP-083: System Back-Out Plan Implementation Extends Schedule	Identify Back-out Plan implementation activities, durations, logic ties, and resources; and integrate these activities in the project execution schedule. Work activities may be re-sequenced to minimize impacts to the critical path schedule. Where needed, utilize subcontractors with credibility and experience for analysis and document preparation support. Work closely with DOE-RL and Regulators to identify review points to streamline approval process and reduce approval turnaround durations.			Finalization of the back-out planning efforts was completed and incorporated into the field execution schedule in May 2014 to assist the project in better execution to the Performance Measurement Baseline. The FES is continually updated to reflect efficiencies and changes to approach as we continue to polish the plan to achieve slab on grade by 9/30/16. This risk will be closed in September.

Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
RL-011/WBS 011				
PFP-086: Alternate/Temporary System Capabilities Required Prior to Building Demolition	Management Reserves may be required to acquire equipment and services to provide the required alternate temporary facility system services and functions during demolition preparation. Identify MAR that may remain and identify CHPRC and DOE decision points to deactivate ventilation and fire systems. Evaluate air flow and required air changes to minimize contamination spread and establish air flow utilizing existing ducting to the extent practical with air movers and HEPA filtration through existing stack and monitoring.			Alternate temporary facility system services and functions 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.
PFP-091: Approval of DSA Revisions	A team of professionals has been assembled to develop the DSA revision to support open air demolition of a Hazard Category 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.			Staff is in place to support development of two DSA revisions. The annual update which was submitted in June for DOE review and approval. DOE notified CHPRC that Revision 10 was in routing for final approval and is expected to be received early September. Revisions 11 and 12 to the DSA are on track for submittal to RL for approval in November, 2014
PFP-092: Increased Characterization	Events at the facility may increase the need for characterization above what is planned for cost and schedule.			The alternate technical approach assumes more duct work may be left in place for demolition. In order to implement the alternate technical approach, a more comprehensive characterization of 234-5Z than currently planned is required prior to demolition of the facility. Additional coupon sampling is required to provide more accurate data than the previously used, more conservative historical data, and to decrease the level of uncertainty of final results. Improved accuracy and reduced uncertainty in characterization results are required to enable justification of leaving more duct work in place prior to demolition. This effort in the duct level has been initiated and will be ongoing throughout the ready for demolition phase of the PFP Closure Project. This effort will also be initiated in rooms/areas throughout the buildings to determine if structural items can remain in place as assumed or if decontamination or removal of structural items is needed prior to demolition.
PFP-074: Unexpected Configuration/Conditions	Unexpected facility configuration or site conditions are encountered during Cold & Dark, or demolition activities.			In the month of April the project realized this risk 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. The stop work was lifted on June 17. This work stoppage resulted in a new requirement for performance of hazard analysis of these systems and documenting the hazard analysis in the work package. A Notice of Change was submitted to RL for their consideration on June 9, 2014. On August 5, 2014, CHPRC received a letter from the DOE Contracting Officer stating that the cited impacts of the RL-11 Plutonium Finishing Plant work scope do not represent a change to the contract. CHPRC is currently evaluating the letter received from DOE and is making a determination on whether or not to formally respond. While awaiting the decision on path forward for the Notice of Change, PFP has resumed work at the Facility segregating costs associated with this type of work.

242-Z Risks				
PFP-242-04: Dose Rates in 242-Z are Higher Than Planned	Characterization is built into the baseline to perform characterization including dose rate maps. The characterization plan will be utilized in work planning efforts to place temporary shielding around higher dose rate components. The work team is trained to stop work when conditions exceed planning information. This will prevent overexposure and prolonged work stoppages. However, if work is stopped, an alternate plan will need to be developed. Minimal mitigation is available for unknown/newly discovered higher than planned dose rates.			242-Z Teams have been established and are working on work package development and field work prep activities to enable a smooth transition when field work starts in September. The planned entries have been delayed from the projected third week in August as reported last month to early September due to team and work package availability.
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 the field teams to develop more efficient and less intrusive direct 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.			242-Z Teams have been established and are working on work package development and field work prep activities to enable a smooth transition when field work starts in September .
291-Z Risks				
PFP-291-01: 291-Z Characterization Unknowns	Develop characterization plans and objectives. Review historical documentation of facility construction and accident event reports. Incorporate characterization information into facility work plans and execution documents.			Opportunities are being identified to characterize early during maintenance activities which result in allowance of some of the operating fans to be shut down. The plan of the week/day will be the communication tool to determine when early characterization can be conducted.
Balance of Plant Decontamination/Decommissioning Risks				
PFP-BOP-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.).			Characterization efforts continue in the duct level following the sampling plan as developed by the Radiological Control and Environmental organizations at PFP. This effort will also be initiated in rooms/areas throughout the buildings to determine if structural items can remain in place as assumed or if decontamination or removal of structural items is needed prior to demolition. Characterization unit survey plans are being developed and will be added into work packages to support ongoing characterization throughout the ready for demolition phase of the PFP Closure Project.
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 field teams to conduct Walk-downs and Work package development to improve interfaces within subprojects.			Additional field teams have been identified to initiate work in the duct level. Characterization efforts are under way for E4 ducting/Filter boxes to determine waste disposition paths. In addition, field team sizes are always being evaluated to ensure resources are available when opportunities present themselves to work duct level scope earlier than planned in the current Field Execution Schedule.

PFP Demolition Risks				
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 characterization unit survey plans are developed, they will be 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.			The full complement of D&D workers to support the PFP project arrived in July 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. This Risk will be closed in September.
PFP-DEMO-18: ORR Required for PFP D4	The readiness activities schedules in the baseline are 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). This was addressed in revision 10 to the PFP DSA which is currently with DOE for review and approval.
PRF Cleanout/Decontamination Risks				
PFP-PRF-01: PRF Canyon Cleanout Scope Increases	Characterization data will be collected as early as feasible to allow early identification of any issues associated with the planned approach. Failure to achieve end-point criteria to support open air demolition is a basis for Change Request to DOE.			The Characterization strategy has been developed and meetings have been held with project managers to communicate the approach. Efforts are continuing to further define ready-for-demolition criteria for the PRF Facility as it is assumed to be the most challenging to achieve the milestone of slab on grade by 9/30/16.
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.			During the month of July it was identified that the belt on the canyon crane was beginning to show signs of wear. An engineering evaluation was made to continue size reduction efforts as planned. On 8/20/2014 size reductions were placed on hold as the canyon crane hook would not function. Engineering performed evaluations and determined that the trolley belt will need to be replaced. Teams prepared to perform canyon entries for the first week in September. In total PRF pencil tank size reduction activities were impacted 7 shifts for the month of August.

<p>PFPP-PRF-21: OPP: 236-Z Floor/Pan Grouting</p>	<p>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.</p>			<p>There are no issues at this time and this work will be performed in FY2015. In preparation, a grouting concept is being developed and a grout specification is being prepared. This activity will require a revised CSER calculation and DSA USQ evaluation and is currently being worked. A Plant Force Work Review (PFWR) has been processed. A grouting Contract SOW, RFP, Bid Evaluation, and award has been routed for approval.</p>
<p>RMA/RMC Glove Box Removal Risks</p>				
<p>OPPORTUNITY: PFPP-GB-01A: High Gram Box Disposition - FOAM</p>	<p>The responsibility for the implementation on the use of expanding foam at PFP has been assigned to personnel within the PFP Special Projects organization and is essentially being managed as a project. Lessons learned from other DOE sites that have used expanding polyurethane foam for similar applications are being used to facilitate implementation at PFP. The Risk Evaluation Board (REB) will be used to employ senior management personnel from CHPRC and DOE-RL to help resolve any significant issues associated with the use of foam.</p>			<p>Efforts continue under the special projects organization to implement the foaming initiative to foam selected components throughout 234-5Z and 236-Z. In the month of December 2013 the project determined that an additional evaluation would be conducted to determine alternate foaming agents due to the fire analysis that was performed on desired foaming agent. During the month of June 2014 a vendor placed two different foams into the PFP mock-up glovebox. Evaluations of the foam the next day indicated a slight shrinkage of the foam inside the mockup. Evaluation and testing at the vendor facility determined the settling could be resolved by utilization of a screw dispersal pump. In the month of August another on-site mock-up was performed. During the month of September teams will perform test cuts on the demonstration glovebox to determine effectiveness of the foam.</p>
<p>PFPP-GB-02: Glove boxes Isolation/Internal Strip out takes longer than planned</p>	<p>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.</p>			<p>Continue to work with field teams to plan upcoming isolations on remaining gloveboxes incorporating lessons learned from similar work scope that has previously been performed at PFP.</p>

PROJECT BASELINE PERFORMANCE

Current Month

(\$M)

WBS 011/RL-0011 Nuclear Matl Stab & Disp PFP	Budgeted Cost of Work Scheduled (BCWS)	Budgeted Cost of Work Performed (BCWP)	Actual Cost of Work Performed (ACWP)	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)
Total	10.4	8.8	9.0	(1.6)	-15.8%	(0.2)	-1.9%

Numbers are rounded to the nearest \$0.1M

CM Schedule Variance: (-\$1.6M/-15.8%)

The current month negative schedule variance is attributed to delay of planned work on pencil tanks due to a frayed and torn canyon crane trolley belt that was discovered in July. This resulted in the majority of the month of August troubleshooting and planning for the repairs of the trolley belt. Resource availability as a result of unanticipated attrition of RCTs and NCOs to support other Hanford Contractors via the HAMTC LAMP process impacted work efforts on the MT, column, and gallery gloveboxes. In addition, re-sequencing of work in the 242-Z Americium Facility, to align with the availability of D&D workers has caused delays in preparations and initial entry activities. The negative variance is partially offset by completing behind schedule work in 234-5Z RMA/RMC lines and conducting more efficient approaches to remediating the HC-6 Pencil Tanks in 234-5Z Backside Rooms allowing a large portion of the lead shield wall to remain in place until demolition.

CM Cost Variance: (-\$0.2M/-1.9%)

The current month negative 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	719.3	688.3	725.2	(31.0)	-4.3%	(36.9)	-5.4%	935.4	965.6	(30.3)

Numbers are rounded to the nearest \$0.1M

CTD Schedule Variance (-\$31.9M/-4.3%)

The Schedule Variance is within reporting thresholds.

CTD Cost Variance (-\$36.9M/-5.4%)

The negative cost variance is primarily a result of prior year unrecoverable costs as well as FY2013 Sequestration impacts to D&D work scope and extending Level-of-Effort and support services, consistent with delayed activities, in support of completing TPA Milestone M-083-00A. In addition, work scope was added to complete chemical mitigation efforts, unexpected repairs were made to the PRF canyon crane, unplanned costs to support implementation of efficiency initiatives at PFP (i.e., foaming and PreMaire Breathing Air), and increased training as a result of assignment of new Health Physics Techs (as the result of HAMTC lamping process) to PFP have also contributed to this variance.

Variance at Completion (-\$30.3M/-3.2%)

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 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	106.8	96.5	10.3

Numbers are rounded to the nearest \$0.1M

Funds/Variance Analysis

Projected Funding remained at \$106.8M. The spending forecast was reduced from \$101.2M to \$96.5 due to subcontract adjustments associated with delay in receipt of demolition equipment (deferred to FY2015).

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

BCRA-PRC-14-026R0 - *HPIC Updates August 2014*

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		11/12/16	This Tri-Party Agreement completion has been impacted by sequestration and annual funding limitations. It is currently unattainable.
M-083-00A	PFP Facility Transition and Selection Disposition Activities	09/30/16		1/09/17	This Tri-Party Agreement completion is at risk of meeting the 9/30/16 commitment 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)

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

PROJECT SUMMARY

- The 100K Operations group continued maintaining facilities in a safe and compliant condition and continued supporting the Engineered Container Retrieval and Transport System (ECRTS) Project work by supporting Annex Construction Activities and In-Basin Construction activities.
- The ECRTS Project internal review of the draft revision to the Preliminary Documented Safety Analysis (PDSA) has been completed as well as the RL in-process review of the draft revision to the PDSA. Supporting documents and analyses are being finalized in parallel with PDSA comment resolution and ECRTS design documents are being simultaneously updated to reflect consistent structures, systems, and components (SSC) configuration. The revised PDSA is on schedule to be submitted to RL for formal approval in late September. Procurements for the ECRTS Project have progressed with the development of six procurement packages that are into the formal acquisition process and two packages having been released to the blanket ordering agreement holders. Final selection of the Sludge Transport and Storage Container (STSC) vessel procurement is on track for the start of the new fiscal year.
- The Integrated Process Optimization Demonstration (IPOD) continued with completion of the performance of the settler sludge removal from engineered containers (EC) mockup. This has completed the IPOD fieldwork.
- Construction continued its trend of positive performance. The project completed ground grid testing, offloaded the Flanders HEPA unit for receipt inspection, and completed high bay roof deck fire coating application. Continued working structural steel punch-list items, field fire coating applications, epoxy coatings applications and wall panel layout and installation. In-Basin construction has performed very well as the fiscal year closes out. Construction has completed the Facility Modification Package (FMP) for removing interferences for the installation of Panel 103 and is engaging the construction contractor to complete this work by the end of September.
- T-Plant Design - CHPRC-02150, "Equivalency Request for the Hazardous Material Requirements Associated with the Receipt, Handling and Storage of Sludge in T Plant Process Cells," was approved and transmitted to RL. RL has informed CHPRC that the equivalency is not acceptable as written and has provided comments for CHPRC to address. Internal review and strategy sessions to address this issue are underway which include STP, T Plant, and Fire Protection engineering.
- Garnet Filter Testing has completed the filter media retrieval demonstration, demonstrating three major design concepts.

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	9	<ul style="list-style-type: none"> 8/11/14 - Employee stepped over a conduit but caught toe, causing worker to fall. Body part affected: Wrists and face (23452)
Near-Misses	0	0	N/A

KEY ACCOMPLISHMENTS

- ECRTS procurement has fully developed six procurement packages that are into the formal acquisition process. Two packages have been released to the blanket ordering agreement holders.
- IPOD performed settler sludge removal from the EC mockup. Final cleanout was achieved. Approximately 7,280 lbs. buoyant weight of settler material was removed in what would have been retrieved in 10 STSCs with 63 total lifts (the last STSC being 17 lifts to achieve clean out)
- Completed PM for Terminate Safeguards and Security Accountability on material contained in Engineered Sludge Containers, Settler Tubes and IWTS Garnet Filter, PM-12-02.20.a.
- The final garnet filter media retrieval demonstration run was completed. Three major design concepts were demonstrated.
- In-Basin Construction completed the FMP for removing interferences for the future installation of Panel 103. Current plan is to have Grant construction remove the panel interferences beginning September 10, 2014 and complete fieldwork by September 30, 2014.
- T-Plant design, CHPRC-02150, "Equivalency Request for the Hazardous Material Requirements Associated with the Receipt, Handling and Storage of Sludge in T Plant Process Cells," was approved and transmitted to RL. RL has informed CHPRC that the equivalency is not acceptable as written and has provided comments for CHPRC to address. Internal review and strategy sessions to address this issue are underway which include STP, T Plant, and Fire Protection engineering.
- 105KW Annex Construction conducted and passed the fall of potential grid testing. The 105KW Annex is now approved to tie to the existing facilities ground grid. Additionally, the Flanders HEPA unit was offloaded and staged for receipt inspection and completed field fired coating application of the last roof deck – the high bay.
- 100K Operations issued the water loss rate calculation for the month of July and completed the work package to evaluate the skimmer pump and motor condition after malfunctions following initial installation. The system has been placed back in service with hourly vibration and bearing temperature-monitoring requirements for a finite timeframe to ensure the malfunction does not occur again. The 142K annual HEPA degradation evaluation for HVAC systems was completed and the 189K FMP for the repair of the 1803K overflow splash pad has been issued.

MAJOR ISSUES

None currently identified.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

 Risk Response Effective
 Risk Response Partially Effective
 Risk Response Not Effective

 Increased Confidence
 No Change
 Decreased Confidence

Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
RL-0012/WBS 012				
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 RL to ensure reviewers fully understand the basis for current SSC safety classifications. The PDSA will be formally submitted to RL in July 2013. Early procurements of SSC's may be initiated at a higher safety/quality level.			Draft PDSA incorporating the results of supporting analyses and design changes developed to incorporate ECRTS process system nuclear safety initiatives implementation was completed and internal and parallel RL reviews initiated.
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.			Risk mitigation strategy is effective – At this time, no forecasted delays.
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 work is progressing on schedule.
STP-ANX-020: Contractor/Subcontract or 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.			Corrective Action Plan is improving subcontractor field performance. Continued improvement is still required.
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.			Mitigation strategy is effective at identifying design and constructability issues. However, partially effective as physical changes are required that requires additional time and increased cost.
STP-ANX-028: Annex Acquisition – Programmatic Risk	CHPRC is proceeding with contract strategy for the Annex Construction.			CHPRC is proceeding with contracting strategy. This risk is closed and reporting on this risk will be discontinued.

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	5.5	6.8	6.9	1.3	24.7%	(0.1)	-1.7%

Numbers are rounded to the nearest \$0.1M

CM Schedule Performance (+\$1.3M/+24.7%)

Variance is due to progress on the Annex Construction for the Shell completion; this work is currently two months ahead of schedule. The productivity rates for installing the wall panels are significantly ahead of the baseline planning productivity rates.

CM Cost Performance (-\$0.1M/-1.7%)

Variance is within reporting thresholds.

Contract-to-Date

(\$M)

RL-0012 Spent Nuclear Fuel Stabilization and Disposition	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)
Total	432.4	436.1	446.8	3.7	0.9%	(10.7)	-2.5%	692.6	727.2	(34.6)

Numbers are rounded to the nearest \$0.1M

CTD Schedule Performance (+\$3.7M/+0.9%)

Variance is within reporting thresholds.

CTD Cost Performance (-\$10.7M/-2.5%)

Variance is within reporting thresholds.

Variance at Completion (-\$34.6M/-4.9%)

Variance is within reporting thresholds.

Contract Performance Report Formats are provided in Appendix A.

FUNDS vs. SPEND FORECAST (\$M)

RL-0012 Spent Nuclear Fuel Stabilization and Disposition	FY2014		
	Projected Funding	Spending Forecast	Spend Variance
RL-0012	72.2	68.8	3.4

Numbers are rounded to the nearest \$0.1M.

Funds/Variance Analysis

Projected Funding remained at \$72.2M. The spending forecast remained unchanged. The spend variance is driven by buy-back procurements that are not progressing as quickly as planned in FY2014.

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

None currently identified.

MILESTONE STATUS

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

Number	Title	Due Date	Actual Date	Forecast Date	Status/ Comment
M-016-175	Begin sludge removal from 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)

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

PROJECT SUMMARY

The Waste and Fuels Management Project (W&FMP) continued maintaining facilities in a safe and compliant condition. Overall, the project is delivering planned efficiencies but continues to be impacted by emerging work and realized risks. WESF Stabilization and Ventilation Project (W-130) issued Functional Design Criteria, Revision, transmitted Safety in Design Strategy to RL for approval, and received Change Order 259 for Final Design and preparation of the facility for the construction phase of the project. Liquid Effluent Facilities (LEF) received 10 tankers, 42k gallons. The Extended Storage Preparations for Cs/Sr capsules (W-135) project completed CHPRC review of the Project Execution Plan, Statement of Work, and Functions and Requirements Document. Waste Receiving and Processing Facility (WRAP) completed overpack of 11 "Watch List" priority one and two drums. Effluent Treatment Facility (ETF) awarded Heat Exchanger procurement contract. Central Waste Complex (CWC) conducted annual container inventory of seven buildings and awarded contract for the CWC roof and wall repairs. T Plant completed repairs to 214T roof.

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	0	N/A
Total Recordable Injuries	0	0	N/A
First Aid Cases	2	35	<ul style="list-style-type: none"> 8/11/14 - Employee climbed a crane ladder to hand operator a bottle of water. When descending, the worker misjudged the last rung distance from the ground and fell. Body part affected: Hands and knee (23456) 8/28/14 - An employee was using a hand and feet monitor when the employee stepped out, caught a foot on the edge and strained the foot. Body part affected: Foot (23466)
Near Misses	0	1	N/A

KEY ACCOMPLISHMENTS

13.01 Project Management

- Continued Project Management support for high priority projects
- Completed development of the FY2015 Performance Measurement Baseline (PMB) update deliverable. This included a bottoms-up estimate to complete for all baseline scope along with an accompanying basis. The project is currently working with RL to resolve any comments.
- Coordinated the development of a Fiscal Year Integrated Priority List (IPL). Working with other CHPRC projects and RL to finalize.

13.02 Capsule Storage & Disposition

- Completed:
 - 44 Preventive Maintenance (PM) work packages
 - Technical Safety Requirement (TSR) Surveillances
 - Radiological (Rad) surveillances
 - Operational surveillances
- Replaced K3-DPR-3 recorder, completed programing and calibration
- Performed two-year Temperature Control Valve K2 supply (HVAC) calibration and functional test of K3 Supply Cooling Air Indicators/Controller
- Participated in Hazard Review Board (HRB) walk-down and review of work instructions for Canyon Cleanup activities
- WESF Stabilization and Ventilation Project (W-130):
 - Issued Functional Design Criteria, Revision 1
 - Transmitted Safety in Design Strategy to RL for approval
 - Conducted informal review of Conceptual Design
 - Worked with regulators and RL on an Environmental Permitting plan
 - Received Change Order 259 for Final Design and preparation of the facility for the construction phase of the project
- Extended Storage Preparations (W-135):
 - Completed CHPRC review of Project Execution Plan, Statement of Work and Functions and Requirements Document
 - Initiated CHPRC review of Functional Design Criteria
 - Working with regulators and DOE to develop an Environmental Permitting Plan
 - Continued working on the Request for Proposal components for the project

13.03 Canister Storage Building (CSB)

- Continued Multi-Canister Overpack (MCO) monitoring program.
- Completed:
 - Helium Purity and Gas Sampling of MCO H-170
 - Technical Safety Requirement (TSR) CSB/ISA 2-Year Fire Hazard Analysis Review
 - Annual Structural Degradation Investigation
 - Annual ISC inspection on the ISA pad
 - Annual ISA pad Inventory
 - 27 PM work packages

13.06 TRU Repackaging

- Perma-fix Northwest (PFNW) completed the size reduction and repackaging of both fiber reinforced plywood (FRP) TRUM waste packages that were shipped to their facility in July, 2014.
- Supported PFP D4 with the shipment of one TL-1800 shipping package containing a Plutonium Finishing Plant (PFP) glovebox to PFNW for size reduction and repackaging.

13.07 Waste Receiving and Processing Facility (WRAP)

- Performed/Completed:

- o Overpack of 11 “watch list” priority one and two drums
- o Biennial Inventory for material balance area (MBA) 290 (2336W)
- o Air handling unit flow transmitter calibrations for the glovebox and process area exhaust
- Surveillances/PMs:
 - o 13 TSR surveillances
 - o 22 PM packages
 - o 90 Rad surveillances
 - o 46 Operational surveillances

13.08 T Plant

- Completed:
 - o Repairs to 214T roof
 - o Repainting of outdoor Fixed Contamination Areas (FCAs)
- Surveillances/PMs
 - o Eight TSR surveillances
 - o 312 Rad surveillances
 - o 23 PM packages
 - o 201 Operational surveillances

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

- Performed CWC Building secondary containment floor repairs in 2402-WK and 2402-W
- Conducted annual container inventory of seven buildings
- Awarded contract for the fabrication of the IP-1 metal container for 231ZDR-11 on 8/12/14
- Completed monthly application of fixative to waste box 231ZDR-11 and surrounding area
- Awarded contract for the CWC roof and wall repairs
- Surveillances/PMs:
 - o 14 TSR surveillances
 - o 21 PM packages
 - o 226 Rad surveillances
 - o 79 Operational surveillances
- Shipments:
 - o Received five shipments totaling 15 standard waste box (SWBs) and eight drums of TRU/M from PFP

13.11 Liquid Effluent Facilities (LEF)

Effluent Treatment Facilities (ETF)

- Awarded Heat Exchanger procurement contract
- Supported WRPS and its subcontractor on an “Extent of Condition” review to enable WRPS to develop a transition plan at RL direction (Request for Equitable Adjustment)
- Supported shutdown of 242-A cooling water system
- Performed laser mapping of damaged Heat Exchanger to provide accurate “as-built” drawing to vendor
- Completed:
 - o Six-year cleaning, inspection and beryllium sampling of MCC #2
 - o Six-year cleaning, inspection and beryllium sampling of Treated Effluent Disposal Facility (TEDF) Pump Station #2

LERF Basin Cleanup

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)	% inspection complete	Change
42	17,200	161,346	43,500	73,875	9,500	9,500	100	+4
43	0	0	0	0	0	0	97	+2
44	0	245,402	22,620	119,941	14,000	34,500	100	+7

Environmental Restoration Disposal Facility (ERDF) Leachate to 200 West Pump-and-Treat Facility (200W P&T)

- Continued conceptual and preliminary designs
- Continued development of Project Execution Plan
- Acquiring necessary site permits
- PFNW submitted permit modifications to regulator for potential treatment of CHPRC waste stream.

Effluent Treatment Facilities (ETF)

- Received 10 tankers:
 - 42K gallons (308K fiscal year [FY])
- Received 11 drums from WSCF
- Treated effluent to State-Approved Land Disposal Site:
 - 0.0M gallons (1.9M FY)
- Discharged to 200A TEDF:
 - 38M gallons (183M FY)
- Received ERDF Leachate
 - 145K gallons (1.78M 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
 - 20 Rad surveillances
 - Five Operational surveillances
- Shipments:
 - Received three shipments totaling eight waste packages of processed/treated M/LLW from PFNW.

MAJOR ISSUES

Issue: Approximately ten small cuts were identified on Basin 44 cover and liquid can be observed bubbling onto cover.

Corrective Action: Option review in process.

Status: No additional water has been observed on cover for the last three weeks. Daily pumping, as necessary, of any accumulated liquid, while long term CAs are in development.

Issue: During repairs to Basin 42 cover deficiencies, two small cuts were identified on the primary liner under the cover. Both cuts are well above the water line.

Corrective Action: Develop Work Package to repair liner

Status: Work Package in development to repair liner; RCRA Permit Class 2 Modification submitted to Ecology to allow repairs to be performed. Requested temporary authorization from Ecology.

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 (WIPP). This configuration would also mitigate/eliminate the risk and additional cost for long-term management of these containers.

Status: Continuing to use 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. RL has authorized some additional repackaging as part of the FY2014-15 IPL.

Issue: Emergency lighting in the CWC and Waste Receiving and Packaging (WRAP) facilities is failing at an increasing rate. The current version of fluorescent lighting for the 2403 series buildings is no longer available.

Corrective Action: Procure and install new lighting that is readily available and can be maintained in inventory system.

Status: Repairs/replacement is taking place with remaining spares inventory, sufficient to remove compensatory measures.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

 Risk Response Effective  Increased Confidence
 Risk Response Partially Effective  No Change
 Risk Response Not Effective  Decreased Confidence

Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
RL-0013				
PRC-010: Requirements Change	Changes to DOE Orders, Federal, or State Regulations could impact the baseline scope, schedule and/or cost. There is a risk that state directed changes could impact the ability to perform work in the planned manner.			Continued discussions with Regulators indicate potential for additional changes (CWC).
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. DOT Exemptions to transport to/from off-site contractor are complete through the end of Fiscal Year . Additional shipments are identified in "Buy Back/Integrated Priority List" list but currently fall below the available funding line (pending RL approval).
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.
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.			Continue to perform re-labeling, covering and overpacking of containers in CWC. PNOC has been transmitted to DOE-RL regarding additional requirements for Box 231-ZDR-11. Procurements initiated to acquire overpack container and materials for Box 231-ZDR-11 PNOC transmitted to RL for Phase 2B of Agreed Order permitting plan.
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"> • Heat Exchanger procurement continuing. • LERF Cover anomalies are being evaluated & developing repair strategy. • Schedule developed to address CWC repair items • 2706-T fire barrier repair work initiated. Risk Response Plan partially effective – Continuing to experience Corrective Maintenance at higher rate than planned.
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 exceed planned work scope in relation to box 231-ZDR-11.

WSD-W130-01: WESF Ventilation Upgrade Regulatory Strategy	Work with regulators early on to develop a permitting plan that is approved by Ecology and the DOE.			Preliminary planning assumed CERCLA Closure process. However, there is a RCRA permit for WESF that needs to be considered. Continuing process development discussions with DOE, Ecology, and EPA.
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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	9.4	9.8	7.7	0.4	4.3%	2.2	21.9%

Numbers are rounded to the nearest \$0.1M

CM Schedule Performance (\$0.4M/+4.3%)

The current period schedule variance is within threshold.

CM Cost Performance (+\$2.2M/+21.9%)

The current period cost variance is due to 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	870.3	872.0	838.9	1.7	0.2%	33.1	3.8%	1,342.8	1,255.9	86.8

Numbers are rounded to the nearest \$0.1M

CTD Schedule Performance (+\$1.7M/+0.2%)

The schedule variance is within threshold.

CTD Cost Performance (+\$33.1M/+3.8%)

The cost variance is within threshold.

Variance at Completion (+\$86.8M/+6.5%)

The Variance at Completion is due to continued implementation of planned efficiencies.

Contract Performance Report Formats are provided in Appendix A.

FUNDS vs. SPEND FORECAST (\$M)

WBS 013/RL-0013 Waste and Fuels Management Project	FY2014		
	Projected Funding	Spending Forecast	Spend Variance
RL-0013	83.8	78.5	5.3

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 \$81.4 to \$78.5 is primarily the result of adjustments related to authorized buy back scope, the delay in award of CWC roof repair and other contracts, and minor revisions to multiple estimates.

Critical Path Schedule

Critical path analysis can be provided upon request.

Baseline Change Requests

BCR-PRC-14-024R0 - *Definitization of CO #239, Complete Phase II SWOC Permit Modifications*
 BCR-PRC-14-025R0 - *Definitization of CO #245, Update WESF Ventilation System Upgrade CDR*
 BCRA-PRC-14-026R0 - *August 2014 HPIC and Activity ID Change*

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.

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

Section D

Soil and Groundwater Remediation Project (RL-0030)



CH2MHILL
Plateau Remediation Company



M. J. Cherry
Acting Vice President and
Project Manager for
Soil and Groundwater
Remediation Project

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

August 2014
CHPRC-2014-08, 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 August 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	28.5	280.9	15.7	205.1	-	-	-	-	-	-
HX P&T	30.2	295.1	1.9	22.2	-	-	-	-	-	-
KR-4 P&T	10.0	130.6	0.2	4.8	-	-	-	-	-	-
KW P&T	10.4	137.7	0.8	12.8	-	-	-	-	-	-
KX P&T	26.9	265.6	2.1	22.7	-	-	-	-	-	-
200 West P&T	64.8	702.6	5.7	67.8	234	2,635	4,467	49,489	.124x10 ¹²	1.07x10 ¹²
Combined	170.7	1,812.5	26.4	335.4	234	2,635	4,467	49,489	.124x10¹²	1.07x10¹²

Sampling	August	FY2014 Cumulative
Well Sampling Events	196	2,152
Aquifer Tube Sampling Events	41	500
Total Number of Sampling Events	237	2,652
Samples Collected	830	9,248
Analyses Performed	1,141	16,279

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	95% 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	Complete

Objective #	Objective	Target	Due Date	Status
		The volume of contaminated groundwater that is treated as measured in gallons.	Monthly	1.8B gallons treated through 8/31/14
14-SGWR-EMS-OB3-T1	Reduced resources use (fuel use)	Evaluate opportunities to discharge purge water to ground from newly drilled wells.	9/30/14	Complete
		Report results of evaluation by Well ID/Well Name.	Monthly	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	0	N/A
Total Recordable Injuries	0	2	N/A
First Aid Cases	2	28	8/11/2014 – Employee received a wound when arm rubbed against a hanger basket. (23453) S&GRP 8/12/2014 – Employee was working outside in the heat and became light-headed and nauseated. (23457) S&GRP
Near-Misses	0	2	N/A

KEY ACCOMPLISHMENTS

RL-0030.O1 RL 30 Operations

RL 30 Integration & Assessments

Modeling Integration

- Met with PNNL to review process flow chart and interpretation of DOE guidance for modeling at Hanford to support the Groundwater/Vadose Zone Executive Council; provided markup revisions to draft materials.

Environmental Integration

- Researched for RL, to discuss with Ecology, a list of resolutions recently reached for 100-D/H RI/FS that could be applied to other decision documents, such as the 100-N RI/FS.
- Produced and delivered a training session on “Integrating Groundwater Monitoring Requirements under RCRA, CERCLA, and AEA.”

100-NR-2 Operable Unit

- Resolved all comments on the Rev 1 Interim Action Remedial Design/Remedial Action Work Plan.

100-HR-3 Operable Unit

- Received Ecology approval of the Rev 0 100-HR-3 RI/FS report on August 14, 2014.

100-FR-3 Operable Unit

- Public comment period for the 100-FR-3 Proposed Plan completed August 13, 2014.
- Provided the draft Responsiveness Summary to the public comments on the 100-FR-3 Proposed Plan to RL and EPA on August 28, 2014.

300-FF-5 Operable Unit

- Secured RL and EPA approval signatures August 28, 2014, on the Rev 0 300 Area Post-ROD Sampling Instructions (SGW-56993). Proceeding to issue document.
- Resolved EPA comments on the Integrated and Groundwater Addendum of the 300 Area Integrated Remedial Design Report/Remedial Action Work Plan on August 28, 2014.
- Received ecological and cultural clearance for the 300 Area sequestration remedial activities on August 26, 2014 (MSA-1403636).

Central Plateau

200-IS-1 Operable Unit

- Conducted RL waste site scoping summary review on August 28, 2014.
- Provided RL with a draft legal memo on August 19, 2014, for excluding the pre-1987 severed sections of pipelines from designation as “ancillary equipment” for the Hanford Tank Farms.
- Provided RL with TPA Change Package C-13-01 on August 26, 2014, which adds 233 waste sites to 200-IS-1 Operable Unit.

200-UP-1 Operable Unit

- Completed the 90 percent design for the Balance of Plant.
- Submitted Change Proposal CP 030 257 1485, Design, Install and Operations and Maintenance of Iodine Containment at 200-UP-1, to RL on August 13, 2014.

200-BP-5 Operable Unit

- Received RL comments on the Decisional Draft Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit.
- Submitted Change Proposal CP 030 256 1481, 200-BP-5 Design and Install-Ready Activities, to RL on August 13, 2014.
- Completed draft Functional Design Requirements document for the pipelines to the 200 West P&T as part of the design initiation process.

200-PO-1 Operable Unit

- Completed a workshop with Ecology on August 18, 2014, on the DQO process for the Groundwater Sampling and Analysis Plan for the 200-PO-1 Operable Unit.

200 West P&T

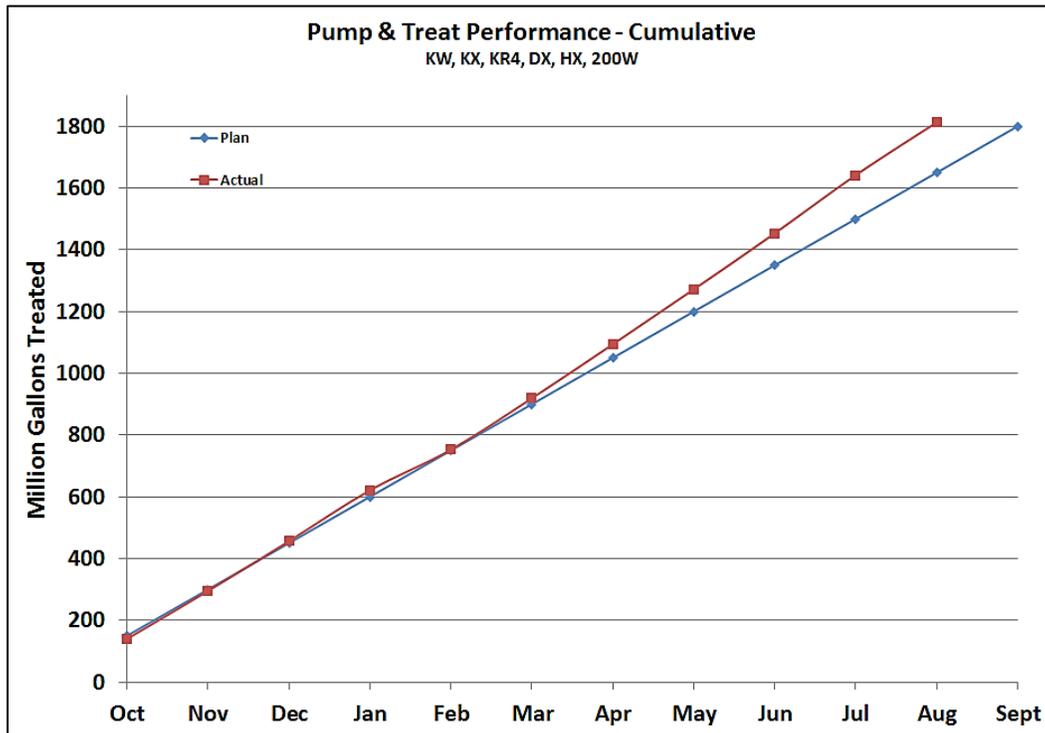
- Average pumping rate for August was 1,447 gpm.
- Effluent concentrations remain below cleanup levels specified in ROD.
- One unplanned shutdown occurred on August 24, 2014; the plant automatically shut down for approximately 2 ½ hours due to loss of communications with the Injection Manifold Building (IMB). The cause of this shut down was due to the failure of two water level transmitters.

200-DV-1 Operable Unit

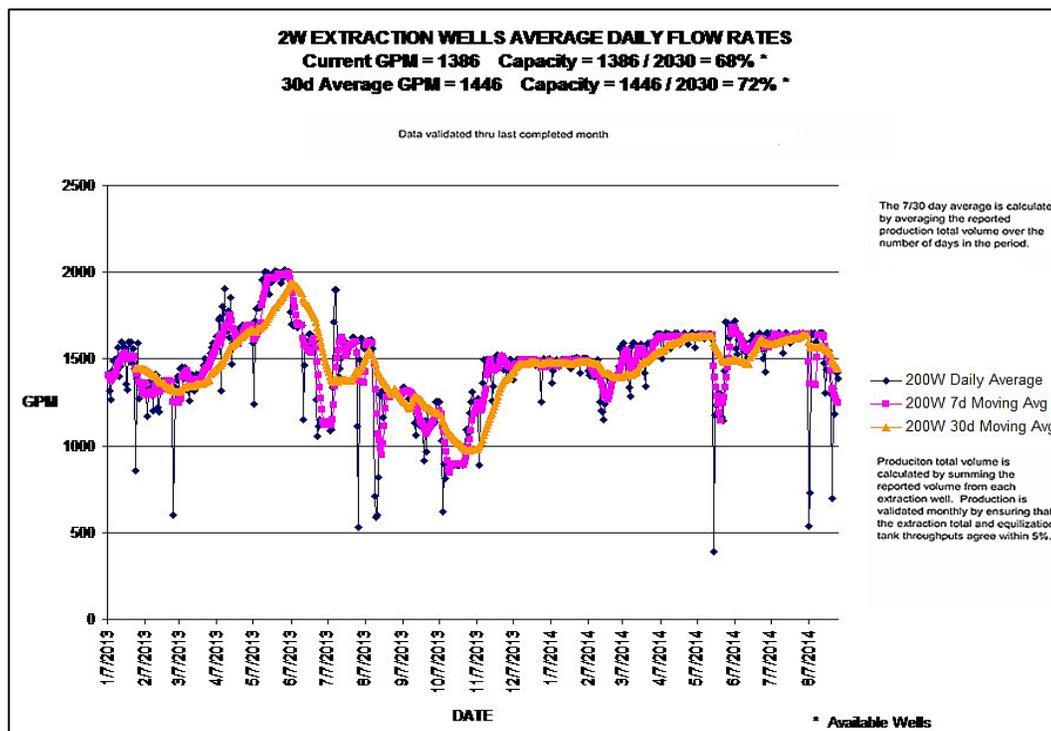
- The B Area perched water extraction system removed 6,863 gallons in August, bringing the total volume of perched water removed to 226,446 gallons since initiating operations on August 30, 2011. The following quantities of contaminants were removed for the month of August:

Contaminant	August	Cumulative (since startup)
Tc-99	1.3 E-04 Ci	29.5 E-03 Ci
Uranium	2.0 kg	49.3 kg
Nitrates	14.3 kg	462.1 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 apatite injection 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 installation of the apatite barrier.

Corrective Action – Several 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 (CRD), which was originally submitted to the Tribes in April, has not been approved. RL continues to work the CRD and associated Memorandum of Agreement (MOA) to address mitigation of past damages.

Status – No progress has been made between RL and the Tribes in obtaining approval of the CRD and MOA. Due to this delay, actions are underway to secure the project and defer installation of the 100-NR-2 apatite barrier until FY2015 or beyond.

Issue – The drilling contractor is behind schedule and having difficulty completing construction on three key injection wells within the 200-ZP-1 Operable Unit, specifically YJ-15, YJ-09 and YJ-07. These 200-ZP-1 wells are needed to support increased treatment capacity at the 200 West pump and treat facility and are scheduled to be completed and connected before September 30, 2014.

Corrective Action – The CHPRC contracting officer requested a recovery plan from the drilling subcontractor, which resulted in the following: 1) increasing the number of construction rigs and crew at the 200-ZP-1 well sites (four crews instead of two); 2) working extra 10 hour days (Friday & Saturday) through September 30, 2014; and 3) working extra hours during the week to complete certain work evolutions (i.e., during grouting, surging, or well development). In addition, work is underway to accelerate construction of a fifth well to use as a back-up if construction problems on these wells cannot be resolved this fiscal year.

Status – Well YJ-15 was successfully completed by end of August. Three remaining rigs and drilling crew are currently working to recover schedule on wells YJ-07, YJ-09 and YJ-24 (backup well).

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

 Risk Response Effective  Increased Confidence
 Risk Response Partially Effective  No Change
 Risk Response Not Effective  Decreased Confidence

Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
RL-030/WBS 030				
<p>SGW-045: Regulator Comments Change Requirements</p> <p>SGW-008: Regulatory Documents Result in Significant Comments from Regulators</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>All Ecology's comments on the Draft A 100-D/H RI/FS have been resolved. The Rev 0 has been approved by Ecology.</p> <p>Slow progress has been made to resolve comments on the 100-N RI/FS Report, Draft A. Currently, the weekly comment resolution meetings with Ecology have progressed partially through the RI (Chapters 1 – 5 and part of Chapter 6). On the FS, three of the four technical position papers that were submitted to Ecology in March 2014 to resolve significant FS comments have not been reviewed. In addition, disagreement remains with Ecology on applicability of phyto-remediation as a viable remedy.</p>
<p>SGW-004: Cultural Resource Reviews</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 continues to work with MSA to accelerate cultural reviews for existing work and is developing a strategy for conducting areal reviews to eliminate the need for project by project reviews in the same areas. Bi-weekly meetings between the two organizations will begin in September to better coordinate the cultural review process.</p> <p>No progress was made on resolution of the Section 6 "Cultural Resources Review (CRR)" and associated Memorandum of Agreement for installation of the 100-NR-2 apatite barrier. As a result, the 100-NR-2 apatite barrier has been delayed until FY2015 or beyond. In addition, CHPRC is attempting to mitigate cost impacts by returning procured chemicals for a refund.</p>
<p>OPPORTUNITY: SGW-007A: Sampling Requirement Reduction</p> <p>SGW-007B: Analytical Reduction</p>	<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>Progress has been made on resolution of RL's comment on the draft <i>Optimization Plan to Revise the Groundwater Sampling Plan</i>. This plan, which is anticipated to be finalized in September, provides the roadmap to revise all groundwater SAPs over the next two years. In accordance with this plan, two revised monitoring plans (100-HR-3 and 200-PO-1) have completed the RL SAP Panel Review. The revised monitoring plans were provided to RL in August; and the DQO for 200-PO-1 DQO was presented to Ecology on August 18, 2014. A meeting has been scheduled with Ecology to discuss the 100-HR-3 DQO.</p>
<p>SGW-160: Failed Well Trips</p>	<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>

Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
RL-030/WBS 030				
SGW-159: Ability to Maintain Flow Rates through Pump and Treat Units	Acquire technical specialist in bio-reactor operation at 200 West P&T to oversee the complexity associated with the water volume/flow and evaluate optimization and nutrient additions to the bed reactor. Installation of additional extraction or injection wells 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.	●	↔	Response Plan Effective
SGW-092: 200 West P&T Operating Requirements	Overtime is utilized to perform critical corrective and preventative maintenance. As operations and maintenance knowledge is learned, staffing levels may be adjusted to achieve optimum P&T operation.	●	↔	Response Plan Effective
SGW-135: Major Equipment Failure at a Pump & Treat	For the P&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.	●	↔	Pump and treat plants operating as designed. 200-West P&T continuing to experience higher than planned maintenance due to injection well bio-fouling and instrumentation issues.

PROJECT BASELINE PERFORMANCE Current Month (\$M)

RL-0030 Soil and Groundwater Remediation	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)
Total	12.9	11.7	11.5	(1.2)	-9.2	0.2	1.9

Numbers are rounded to the nearest \$0.1M.

CM Schedule Performance (-\$1.2M/-9.2%)

The negative schedule variance resulted from the following:

- Based on regulator input, the last three 200-BP-5 Modutank wells will not be drilled in FY 2014.
- Work on the 100-KR-4 and 100-HR-3 well realignments was performed earlier in the year.
- Due to the delay in approval of the 100-NR-2 cultural and ecological resource reviews the barrier expansion and jet injection activities have been deferred.

CM Cost Performance (+\$0.2M/+1.9%)

Variance is within reporting thresholds.

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	1,002.8	1,002.3	989.4	(0.5)	-0.1	12.8	1.3	1,511.2	1,462.5	48.7

Numbers are rounded to the nearest \$0.1M.

CTD Schedule Performance (-\$0.5M/-0.1%)

Variance is within reporting thresholds.

CTD Cost Performance (+\$12.8M/+1.3%)

Variance is within reporting thresholds.

Estimate at Completion (EAC)

The Estimate at Completion decreased \$17.0M from previous month. The primary contributors to this decrease include decrease to the offsite analytical environmental laboratory analysis forecast of \$12.1M based on newly awarded subcontract, a decrease of \$3.2M in the FY2016-18 technical integration forecast per the integrated priority list discussion with RL, and a correction to the geophysical logging forecast of \$1.7M to align with the June values.

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	121.0	109.2	11.8

Numbers are rounded to the nearest \$0.1M.

Funds/Variance Analysis

Projected funding decreased by \$0.5M to \$121.0M. The spend forecast has been reduced to reflect impacts of the approval delay of the cultural and ecological review of the 100-NR-2 apatite injections and 300 Area characterization, the decision to not drill 3 of 4 modutank wells this year, and use of commercial laboratories instead of WSCF for sample analysis.

Critical Path Schedule

Critical path analysis can be provided upon request.

Baseline Change RequestsBCR-030-14-020R0 - *Update PBS RL-030 TPA Milestones*BCR-030-14-021R0 - *CO #256, 200-BP-5 Design and Install-Ready Activities*BCR-PRC-14-023R0 - *Definitization of CO #247, Incorporate River Corridor Waste Sites into RI/FS Documentation***FY2014 Management Reserve (Funded): \$0.75M**

No FY2014 Management Reserve was used during August.

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 August 21, 2014, per extension agreement to October 30, 2014. Negotiations are underway to revise the milestone due date.
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-091-40L-044	PMM Submittal Jul-Sep 4th Qtr. FY2014 Burial Ground Sample Results	TPA	12/15/14		12/15/14	On schedule
M-091-40L-045	PMM submittal Oct-Dec 1st Qtr. FY2015 Burial Ground Sample Results	TPA	3/15/15		3/15/15	On schedule
M-015-113	Submit Draft B, 200-SW-2 Radioactive Landfills Group RFI/CMS/RI/FS Work Plan to Ecology	TPA	3/31/15		3/31/15	On schedule
M-015-110A	Submit RFI/CMS & RI/FS Work Plan for 200-DV-1 OU to Ecology	TPA	3/31/15		10/31/15	Delivery date impacted by the regulators not willing to finalize the Central Plateau Principles and Parameters document.
M-024-58H	Initiate Discussions of Well Commitments	TPA	6/1/15		6/1/15	On schedule
M-091-40L-046	PMM submittal Jan-Mar 2nd Qtr. FY2015 Burial Ground Sample Results	TPA	6/15/15		6/15/15	On schedule

Number	Title	Type	Due Date	Actual Date	Forecast Date	Status/ Comment
M-015-21A	Submit 200-BP-5 & 200-PO-1 OU FS Report and PP(s) to Ecology	TPA	6/30/15			Milestone is not funded in FY2014 and will be missed.
M-015-92A	Submit RFI/CMS & RI/FS Work Plan for 200-EA-1 OU to Ecology	TPA	6/30/15			Milestone is not funded in FY2014 and will be missed.
M-024-66-T01	Conclude Discussions of Well Commitments	TPA	8/1/15			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)

August 2014
CHPRC-2014-08, 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 82 radiological facility surveillances, completed 33 preventive maintenance (PM) activities, and removed PUREX Tank 11 scaffolding, tent, temporary facilities, and power.

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	4	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 82 radiological facility surveillances
 - o 33 preventive maintenance (PM) activities
 - o PUREX Tank 11 removal of scaffolding, tent, temporary facilities, and power
- Started PUREX N-Cell investigative survey work
- Continued removal activities of approximately 1,100 linear feet of high priority steam line
 - o Continued with Asbestos abatement at steam line cut locations. 600 linear feet of steam line by U Plant completed to date and is ready to be sheared. Shearing is scheduled for September.
- Construction Yard Facilities Demolition

- o Completed Cold & Dark on the Construction Yard Facilities
- o Initiated demolition of Construction Yard Facilities
- Completed development of the FY2015 Baseline Update Deliverable. This includes a bottoms-up update of the Estimate to Complete for the project. The project is currently working with RL to resolve any comments.
- Coordinated the development of a Fiscal Year Integrated Priority List (IPL). Working with other CHPRC projects and RL to finalize.

MAJOR ISSUES

None at this time.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

 Risk Response Effective
 Risk Response Partially Effective
 Risk Response Not Effective

 Increased Confidence
 No Change
 Decreased Confidence

Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
RL-0040				
D4-043: Unforeseen Facility Event Impacts Safety or Environment	Unexpected event, including contamination or chemical spread, fire, industrial accident, structural degradation, etc., requires immediate D&D of a small to medium sized facility or requires unplanned facility repairs. Current management of the shutdown facilities includes corrective maintenance based upon historic experience.			Continuing corrective maintenance activities. No unplanned events encountered.
WSR-047: Unforeseen Waste Site Event	Unforeseen waste site event, including contamination or chemical spread, fire, industrial accident, structural degradation, etc. requires immediate disposition or modification to a waste site. Routine surveillance and maintenance of the waste sites, including herbicide applications, is designed to protect workers and the environment.			Initiated construction yard demolition.
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.			Monitoring emerging issues with facility roofs, contamination spread into surveillance paths, and other high risk facility conditions. Added mitigation efforts to the Integrated Priority List.
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 with additional funding. Received authorization to repair/abate ~1,100 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	1.6	1.6	1.3	(0.0)	-1.7%	(0.3)	-20.9%

Numbers are rounded to the nearest \$0.1M

CM Schedule Performance: (-\$0.M/-1.7%)

Variance is within reporting threshold.

CM Cost Performance: (-\$0.3M/-20.9%)

Variance is within reporting threshold.

Contract-To-Date

(\$M)

WBS 040/ RL-0040 Nuclear Facility D&D	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)
Total	388.2	387.2	356.8	(0.9)	-0.2%	30.5	7.9%	488.7	456.9	31.8

Numbers are rounded to the nearest \$0.1M

CTD Schedule Performance: (-\$0.9M/-0.2%)

Variance is within reporting threshold.

CTD Cost Performance: (+\$30.5M/+7.9%)

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 (\$4.3M), U Plant completion of the sampling of Cell 30 with less resources than planned (\$1.1M), Program Management utilizing less resources (\$3.1M) and under run in overhead allocations (\$1.6M).

Variance at Completion (+\$31.8M/+6.5%)

The Variance at Completion is primarily due to implementation of planned efficiencies.

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	12.2	1.0

Numbers are rounded to the nearest \$0.1M.

Funds/Variance Analysis

Projected Funding unchanged from last month. Change in spend forecast from \$12.3 to \$12.2 is within reporting threshold.

Critical Path Schedule

Critical path analysis can be provided upon request.

Baseline Change Requests

- BCR-PRC-14-024R0 - *Definitization of CO #239, Complete Phase II SWOC Permit Modifications*
- BCR-PRC-14-025R0 - *Definitization of CO #245, Updated WESF Ventilation System Upgrade CDR*
- BCRA-PRC-14-026R0 - *August 2014 HPIC and Activity ID Change*

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)

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

PROJECT SUMMARY

Continued work planning for 100K Characterization Wells high-risk drilling and finalized work enclosure ventilation design. Completed routine surveillances. Completed Work Package signoff for mechanical isolations to MO-293 and MO-442 for 100K Head House area demolition. Down-posted three Radioactive Material Areas (RMA).

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

- 100K Characterization Wells:
 - Continued work planning for high risk drilling
 - Obtained final signatures on sampling instructions
 - Drafted special package procedure for sample shipment
 - Initiated subcontracting for work area prep/backfill requirements
 - Finalized work enclosure ventilation design
 - Received change order from RL to mobilize, drill, and complete a report of investigation
- 100K Head House Area Demolition:
 - Completed work package signoff for mechanical isolations to MO-293 and MO-442
- 100K Minimum Safe Activities:
 - Down-posted three Radioactive material areas (consolidated materials in connex boxes, surveyed, and disposed to ERDF)
- Completed Surveillances:

- o Radiological – 6
- o WIDS – 8
- o 105KE Facility Surveillance
- Completed development of the FY2015 Baseline Update Deliverable. This includes a bottoms-up update of the Estimate to Complete for the project. The project is currently working with RL to resolve any comments.
- Coordinated the development of a Fiscal Year Integrated Priority List (IPL). Working with other CHPRC projects and RL to finalize.

MAJOR ISSUES

None at this time.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

 Risk Response Effective
 Risk Response Partially Effective
 Risk Response Not Effective

 Increased Confidence
 No Change
 Decreased Confidence

Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
RL-0041				
WSR-047: Unforeseen Waste Site Event	Perform routine surveillances and maintenance of waste sites including herbicide application.			No concerns.
KBC-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 (~\$500K in 2014 FYSF). Awaiting RL direction to initiate next phase of the project.
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.			No concerns.

PROJECT BASELINE PERFORMANCE

Current Month

(\$M)

WBS 041/RL-0041 Nuclear Facility D&D – River Corridor	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)
Total	1.0	1.0	0.2	(0.0)	-3.4%	0.8	76.1%

Numbers are rounded to the nearest \$0.1M

CM Schedule Performance (-\$0.0M/-3.4%)

The variance is within reporting threshold.

CM Cost Performance (+\$0.8M/+76.1%)

The 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. In addition, the project planned to retain key D4 resources and has been able to redeploy those resources to other CHPRC scope.

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	309.6	309.6	282.1	(0.0)	-0.0%	27.5	8.9%	393.6	350.2	43.5

Numbers are rounded to the nearest \$0.1M

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

The schedule variance is within threshold.

CTD Cost Performance (+\$27.5M/+8.9%)

The positive variance is primarily the result of prior year activity that have 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.

Variance at Completion (+\$43.5M/+11.0%)

The Variance at Completion is primarily due to implementation of planned efficiencies.

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	4.5	5.6

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 \$5.0M to \$4.5M is associated with anticipated efficiencies in forecasted 100K min safe activities.

Critical Path Schedule

Critical Path Analysis can be provided upon request.

Baseline Change Requests

BCR-041-14-003R0 - *MO442 Demolition*

BCR-041-14-004R0 - *Division of Control Accounts*

BCRA-PRC-14-026R0 - *August 2014 HPIC and Activity ID Change*

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)

August 2014
CHPRC-2014-08, 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 25 Preventive Maintenance (PM) activities/operational surveillances
 - o Four radiological surveillances
 - o Four operational surveillances
- Continued to disposition material from the 440 Pad for excess/waste
- Responded to broken septic line – pumped tank pending repairs to the line
- Completed development of the FY2015 Baseline Update Deliverable. This includes a bottoms-up update of the Estimate to Complete for the project. The project is currently working with RL to resolve any comments.

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 – Continuing preparations of new work packages to perform repairs as resources become available.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

 Risk Response Effective  Increased Confidence
 Risk Response Partially Effective  No Change
 Risk Response Not Effective  Decreased Confidence

Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
RL-0042				
FFTF-012: Major Equipment or Structural Failure	FFTF suffers a major equipment failure or structural deterioration while in the Surveillance and Maintenance mode			Continuing Corrective Maintenance activities. Responded to broken sewer line during the month. Repair work does not appear to be significant effort.

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	0.1%	0.1	65.3%

Numbers are rounded to the nearest \$0.1M

CM Schedule Performance: (+\$0.0M/+0.1%)

The current period schedule variance is within threshold.

CM Cost Performance: (+\$0.1M/+65.3%)

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	17.9	17.9	15.0	(0.0)	-0.1%	3.0	16.5%	26.5	20.1	6.4

Numbers are rounded to the nearest \$0.1M

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

The schedule variance is within reporting thresholds.

CTD Cost Performance (+\$3.0M/+16.5%)

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

Variance at Completion (+\$6.4M/+24.1%)

The Variance at Completion is within reporting thresholds.

Contract Performance Report Formats are provided in Appendix A.

FUNDS VS. SPEND FORECAST (\$M)

RL-0042 FFTF Closure	FY2014		
	Projected Funding	Spending Forecast	Spend Variance
RL-0042	2.3	1.6	0.7

Numbers are rounded to the nearest \$0.1M

Funds Analysis

Projected Funding is unchanged from prior month. Spending Forecast change from 1.8 to 1.6 is attributable to efficiencies in min-safe activities.

Critical Path Schedule

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

Baseline Change Requests

None currently identified.

MILESTONE STATUS

None currently identified.

SELF-PERFORMED WORK

The Section H.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



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

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

CLASSIFICATION (When Filled In)																
CONTRACT PERFORMANCE REPORT FORMAT 1 - WORK BREAKDOWN STRUCTURE											DOLLARS IN Thousands of \$		FORM APPROVED OMB No. 0704-0188			
1. CONTRACTOR			2. CONTRACT				3. PROGRAM				4. REPORT PERIOD					
a. NAME CH2M HILL Plateau Remediation Company			a. NAME Plateau Remediation Contract				a. NAME Plateau Remediation Contract				a. FROM (YYYYMMDD) 2014 / 07 / 21					
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 / 08 / 24						
c. TYPE CPAF			d. SHARE RATIO													
5. CONTRACT DATA																
a. QUANTITY	b. NEGOTIATED COST	c. ESTIMATED COST OF AUTHORIZED UNPRICED WORK		d. TARGET PROFIT/ FEE	e. TARGET PRICE	f. ESTIMATED PRICE	g. CONTRACT CEILING	h. ESTIMATED CONTRACT CEILING		i. DATE OF OTB/OTS						
	5,468,189	11,690		228,491	5,696,680	5,548,656	5,696,680	5,548,656								
6. ESTIMATED COST AT COMPLETION						7. AUTHORIZED CONTRACTOR REPRESENTATIVE										
		MANAGEMENT ESTIMATE AT COMPLETION (1)		CONTRACT BUDGET BASE (2)		VARIANCE (3)		a. NAME (Last, First, Middle Initial) Corman, R. K.			b. TITLE Prime Contract Manager					
a. BEST CASE		5,238,313						c. SIGNATURE			d. DATE SIGNED 8/24/2014					
b. WORST CASE		5,474,244														
c. MOST LIKELY		5,320,165		5,479,879		159,714										
8. PERFORMANCE DATA																
WBS[1] ITEM (1)	CURRENT PERIOD					CUMULATIVE TO DATE					REPROGRAMMING ADJUSTMENTS			AT COMPLETION		
	BUDGETED COST		ACTUAL COST WORK PERFORMED (4)	VARIANCE		BUDGETED COST		ACTUAL COST WORK PERFORMED (9)	VARIANCE		COST VARIANCE (12a)	SCHEDULE VARIANCE (12b)	BUDGET (13)	BUDGETED (14)	ESTIMATED (15)	VARIANCE (16)
	WORK SCHEDULED (2)	WORK PERFORMED (3)		SCHEDULE (5)	COST (6)	WORK SCHEDULED (7)	WORK PERFORMED (8)		SCHEDULE (10)	COST (11)						
011 RL-11 NM Stabilization and Disposition PFP	10,437	8,789	8,958	(1,648)	(169)	719,326	688,327	725,178	(30,999)	(36,851)	0	0	0	935,378	965,635	(30,257)
012 RL-12 SNF Stabilization and Disposition	5,462	6,812	6,931	1,349	(119)	432,370	436,072	446,806	3,702	(10,733)	0	0	0	692,566	727,171	(34,605)
013 RL-13 Solid Waste Stabilization & Disposition	9,403	9,807	7,656	404	2,152	870,273	872,014	838,899	1,740	33,114	0	0	0	1,342,773	1,255,918	86,855
030 RL-30 Soil & Wtr Remediatn Grndwtr/Vadose Zone	12,920	11,728	11,506	(1,192)	222	1,002,812	1,002,284	989,437	(527)	12,847	0	0	0	1,511,228	1,462,455	48,773
040 RL-40 Nuclear Facility D&D Remainder of Hanford	1,630	1,601	1,266	(28)	335	388,179	387,232	356,764	(947)	30,468	0	0	0	488,656	456,862	31,793
041 RL-41 Nuclear Facility D&D - River Corridor	1,028	993	238	(35)	756	309,619	309,583	282,084	(36)	27,498	0	0	0	393,621	350,155	43,467
042 RL-42 FFTF Closure	202	202	70	0	132	17,945	17,930	14,963	(14)	2,967	0	0	0	26,508	20,117	6,391
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	41,082	39,933	36,625	(1,149)	3,308	3,740,524	3,713,442	3,654,131	(27,082)	59,311	0	0	0	5,390,730	5,238,313	152,417
f. Management Reserve														81,852		
g. Total	41,082	39,933	36,625	(1,149)	3,308	3,740,524	3,713,442	3,654,131	(27,082)	59,311	0	0	0	5,472,582		
9. Reconciliation to CBB																
a. Variance Adjustment																
b. Total Contract Variance									(27,082)	59,311				5,472,582	5,238,313	234,269

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) 2014/07/21																				
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788			b. PHASE			b. TO (YYYYMMDD) 2014/08/24																				
c. TYPE CPAF		d. SHARE RATIO			c. EVMS ACCEPTANCE NO YES X 9/18/2009																							
5. PERFORMANCE DATA																												
ITEM (1)	FOC	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																												
340 - Environmental Prog & Regl Mgt		652	847	791	196	56	47,546	48,199	44,124	653	4,075	0	0	0	83,054	73,134	9,920											
		652	847	791	196	56	47,546	48,199	44,124	653	4,075	0	0	0	83,054	73,134	9,920											
35 - Business Services																												
35D - Contract Mgmt & Facility Svcs		0	0	0	0	0	23,047	23,047	23,520	0	(473)	0	0	0	23,047	23,520	(473)											
35K - PRC Finance		0	0	0	0	0	429,349	429,349	405,709	0	23,640	0	0	0	429,349	405,709	23,640											
		0	0	0	0	0	452,396	452,396	429,230	0	23,167	0	0	0	452,396	429,230	23,167											
36 - Prime Cont & Project Integration																												
362 - Strategic Pln & Mgmt		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0											
363 - EVMS Compl & Rptg		0	0	0	0	0	20,128	20,128	20,128	0	0	0	0	0	20,128	20,128	0											
		0	0	0	0	0	20,128	20,128	20,128	0	0	0	0	0	20,128	20,128	0											
38 - Project Technical Services																												
382 - Training & Procedures		0	0	0	0	0	(0)	(0)	0	0	(0)	0	0	0	(0)	0	(0)											
385 - K Annex Construction & ECRTS		2,778	4,214	3,839	1,436	375	35,407	39,035	56,778	3,628	(17,743)	0	0	0	92,619	125,696	(33,077)											
		2,778	4,214	3,839	1,436	375	35,407	39,035	56,778	3,628	(17,743)	0	0	0	92,619	125,696	(33,077)											
3B - PFP Closure																												
3B0 - PFP Close/BOSS D&D & Infrastruc		2,269	1,770	3,062	(499)	(1,293)	135,327	126,959	145,104	(8,368)	(18,146)	0	0	0	201,579	224,206	(22,626)											
3B3 - Project Management/Subcontracts		3,394	2,133	1,892	(1,261)	241	140,856	129,528	141,266	(11,328)	(11,738)	0	0	0	190,463	198,713	(8,250)											
3B4 - Engrg Nuc Saf Plng&Wrk Control		1,857	1,857	1,224	0	634	45,879	45,879	39,020	(0)	6,860	0	0	0	74,095	56,225	17,870											
3B7 - Environmental & Waste		867	858	511	(9)	347	51,262	51,485	41,962	224	9,524	0	0	0	73,244	74,309	(1,064)											
3B8 - Project Mgmt D&D		1,303	1,295	1,235	(8)	60	147,760	147,744	150,557	(16)	(2,813)	0	0	0	168,021	171,401	(3,380)											
3B8 - PFP D4 Deputy Project Mgmt		1,631	1,726	1,258	95	468	358,232	346,686	352,683	(11,546)	(5,997)	0	0	0	464,355	453,840	10,516											
3B9 - PFP Cold & Dark		0	0	0	0	0	0	0	0	(0)	(0)	0	0	0	0	0	(0)											
		11,322	9,639	9,182	(1,682)	457	879,317	848,282	870,592	(31,035)	(22,310)	0	0	0	1,171,759	1,178,695	(6,936)											
3C - W&FMP/D&DD Project																												
3AD - Sludge Treatment Project		3,434	3,491	3,359	57	132	344,322	344,323	337,200	1	7,122	0	0	0	547,583	549,020	(1,437)											
3AC - Waste & Fuels Project Controls		2,967	2,936	1,703	(30)	1,234	194,903	194,748	199,557	(155)	(4,809)	0	0	0	318,475	293,260	25,215											
3C5 - TRU Project		0	0	0	0	0	49,140	49,140	52,386	0	(3,247)	0	0	0	49,140	52,386	(3,247)											
3C9 - Liquid & Fuels Storage		3,569	3,711	3,509	142	202	182,604	183,156	172,364	552	10,792	0	0	0	398,536	388,772	9,765											
3CA - W&FMP Engineering		0	0	0	0	0	0	0	1	0	(1)	0	0	0	0	1	(1)											
3CD - Waste Disposition		4,091	4,213	3,526	122	687	727,035	727,490	683,856	456	43,634	0	0	0	976,406	896,069	80,337											
		14,062	14,352	12,098	290	2,254	1,498,004	1,498,856	1,445,365	853	53,491	0	0	0	2,290,140	2,179,509	110,631											
3D - Soil & Groundwater Remediation																												
3D0 - Soil & Groundwater Remediation		2,116	2,379	1,365	263	1,014	99,118	99,343	100,687	225	(1,345)	0	0	0	194,715	171,672	23,043											
3D2 - GW Remediation Support		2,376	2,124	1,976	(252)	149	147,457	147,611	137,609	154	10,002	0	0	0	256,216	239,085	17,130											
3D4 - GW Operations		1,584	1,564	2,250	(20)	(686)	96,799	96,764	84,062	(35)	12,701	0	0	0	164,429	150,331	14,097											
3D8 - GW Analysis and Reporting		6,192	4,813	5,123	(1,379)	(310)	464,352	462,828	465,556	(1,524)	(2,728)	0	0	0	665,275	670,833	(5,558)											
		12,269	10,881	10,715	(1,388)	166	807,726	806,546	787,914	(1,181)	18,631	0	0	0	1,280,634	1,231,922	48,712											
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		41,082	39,933	36,625	(1,149)	3,308	3,740,525	3,713,442	3,654,131	(27,082)	59,311	0	0	0	5,380,730	5,238,313	152,417											
f. Management Resrv.														81,852														
g. Total		41,082	39,933	36,625	(1,149)	3,308	3,740,525	3,713,442	3,654,131	(27,082)	59,311	0	0	0	5,472,582													

FORMAT 3, DD FORM 2734/3, BASELINE

August 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: 2014/07/21 b. TO: 2014/08/24						
5. CONTRACT DATA																		
a. ORIGINAL NEGOTIATED COST 4,312,366				b. NEGOTIATED CONTRACT CHANGE \$1,155,823		c. CURRENT NEGOTIATED COST (A + B) \$5,468,189		d. ESTIMATED COST AUTH UNPRICED WORK \$11,690		e. CONTRACT BUDGET BASE (C + D) \$5,479,879		f. TOTAL ALLOCATED BUDGET \$5,472,582		g. DIFFERENCE (E - F) \$7,297				
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																		
ITEM (1)			BCWS CUM TO DATE (2)	BCWS FOR REPORT PERIOD (3)	SIX MONTH FORECAST						FY09-13 (10)	FY14 (11)	FY15 (12)	FY16 (13)	FY17 (14)	FY18 (15)	UNDISTRIB BUDGET (16)	TOTAL BUDGET (17)
					+1 Sep-14 (4)	+2 Oct-14 (5)	+3 Nov-14 (6)	+4 Dec-14 (7)	+5 Jan-15 (8)	+6 Feb-15 (9)								
a. PM BASELINE (BEGIN OF PERIOD)			3,739,736	40,295	42,548	28,308	32,175	29,036	38,239	32,939	3,391,477	390,807	438,469	430,238	370,762	370,639	0	5,392,392
b. BASELINE CHANGES AUTH DURING REPORT PERIOD																		
BCR-030-14-021R0 - CO #256, 200-BP-5 Design and Install Ready Activities											103	195	0	0	0		298	
BCR-041-14-003R0 - MO 442 Demolition											29	0	0	0	0		29	
BCR-041-14-004R0 - Division of Control Accounts												0	0	0	0		0	
BCR-PRC-14-023R0 - Definitization of CO #247, Incorporate River Corridor Waste Sites into RI-FS Document.											90	215	219	(993)	2		(467)	
BCR-PRC-14-024R0 - Definitization of CO #239, Complete Phase II SWOC Permit Modifications											43	0	0	(41)	(310)		(308)	
BCR-PRC-14-025R0 - Definitization of CO #245, WESF Ventilation System Upgrade CDR											683	0	0	(1,183)	(715)		(1,215)	
BCR-030-14-020R0, Update PBS RL-030 TPA Milestones											0	0	0	0	0		0	
c. PM BASELINE (END OF PERIOD)			3,740,524	41,082	42,709	28,388	32,259	29,108	38,323	32,973	3,391,477	391,756	438,879	430,457	368,545	369,616	0	5,390,730
7. MANAGEMENT RESERVE																81,852		
8. TOTAL																5,472,582		

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

CLASSIFICATION (When Filled In)											
CONTRACT PERFORMANCE REPORT FORMAT 4 - STAFFING										FORM APPROVED OMB No. 0704-0188	
1. CONTRACTOR			2. CONTRACT			3. PROGRAM			4. REPORT PERIOD		
a. NAME CH2M HILL Plateau Remediation Company			a. NAME Plateau Remediation Contract			a. NAME Plateau Remediation Contract			a. FROM (YYYYMMDD) 2014 / 07 / 21		
b. LOCATION (Address and ZIP Code) Richland, WA			b. NUMBER RL14788			b. PHASE			b. TO (YYYYMMDD) 2014 / 08 / 24		
			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 Sep (4)	+2 Oct (5)	+3 Nov (6)	+4 Dec (7)	+5 Jan (8)	+6 Feb (9)	FY15-18 (13)		
303 - Internal Audit											
303 - Internal Audit	4	302	3	5	5	5	5	5	5	210	540
	4	302	3	5	5	5	5	5	5	210	540
304 - General Counsel											
304 - General Counsel	4	290	4	5	5	5	5	5	5	210	530
	4	290	4	5	5	5	5	5	5	210	530
31 - Communications											
310 - Communications	8	696	8	9	9	9	9	9	9	378	1,128
	8	696	8	9	9	9	9	9	9	378	1,128
32 - Safety, Health, Security & Quality											
320 - Safety Health Security/Quality	23	1,974	28	26	26	26	26	26	26	1,085	3,217
321 - RAD PRO/Emergency Prep	9	788	9	9	9	9	9	9	9	382	1,224
322 - Nuclear Ops Supp & Compliance	6	713	8	8	8	8	8	8	8	336	1,097
324 - Quality Assurance	13	1,632	16	17	17	17	17	17	17	726	2,460
	52	5,107	60	60	60	60	60	60	60	2,530	7,998
34 - Environmental Prog & Strategic Planning											
340 - Environmental Prog & Regl Mgt	38	2,275	37	45	45	45	45	45	45	1,936	4,472
341 - Environmental Protection	0	1,000	0	0	0	0	0	0	0	0	1,000
	38	3,275	37	45	45	45	45	45	45	1,936	5,473
35 - Business Services											
35D - Contract Mgmt & Facility Svcs	25	3,127	28	29	29	29	29	29	29	1,192	4,491
35F - Industrial Relations	4	356	4	5	5	5	5	5	5	221	607
35H - Human Resources	15	1,002	15	15	15	15	15	15	15	620	1,710
35K - PRC Finance	17	1,350	17	18	18	18	18	18	18	767	2,225
	60	5,835	64	67	67	67	67	67	67	2,800	9,033
36 - Prime Contract & Project Integration											
360 - Prime Cont & Prj Integration	0	1	0	0	0	0	0	0	0	0	1
361 - Cont Compl & Change Mgmt	12	550	13	13	13	13	13	13	13	546	1,174
362 - Strategic Pln & Mgmt	18	1,254	24	20	20	20	20	20	20	819	2,195
363 - EVMS Compl & Rptg	14	1,275	14	15	15	15	15	15	15	630	1,994
	44	3,080	51	48	48	48	48	48	48	1,996	5,364
38 - Project Technical Services											
381 - Central Engineering	8	550	8	9	9	9	9	9	9	391	995
382 - Training & Procedures	10	2,081	10	10	10	10	10	10	10	419	2,558
383 - Operations Programs	8	760	8	7	7	7	7	7	7	294	1,097
384 - Project Delivery	11	1,057	12	10	10	10	10	10	10	426	1,545
385 - K Annex Construction & ECRTS	35	1,032	35	22	32	65	60	60	60	1,565	2,872
	71	5,480	72	58	68	102	96	96	96	3,096	9,067
3B - PFP Closure											
3B0 - PFP Close/BOSS D&D & Infrastruc	83	4,819	41	46	46	46	46	46	46	1,699	6,792
3B3 - Project Management/Subcontracts	76	7,172	98	94	97	99	102	109	109	1,326	9,098
3B4 - Engrg Nuc Saf Plng&Wrk Control	52	2,009	53	51	51	51	51	51	51	499	2,816
3B7 - Environmental & Waste	27	2,592	28	35	35	35	35	35	35	532	3,328
3BA - Project Mgmt D&D	61	10,650	65	64	64	64	64	64	64	722	11,755
3BB - PFP D4 Deputy Project Mgmt	66	15,815	92	95	91	86	83	87	87	3,193	19,541
3BD - PFP Cold & Dark	0	0	0	0	0	0	0	0	0	0	0
	366	43,057	378	386	384	381	382	392	392	7,970	53,330
3C - W&FMP/D&D Project											
3AD - Sludge Treatment Project	132	15,206	132	156	157	157	154	151	151	6,378	22,491
3C4 - Waste & Fuels Project Controls	50	6,421	57	65	65	65	65	64	64	2,855	9,655
3C5 - TRU Project	0	582	0	0	0	0	0	0	0	0	582
3C9 - Liquid & Fuels Storage	141	10,702	147	143	141	140	140	140	140	4,464	16,017
3CD - Waste Disposition	141	33,241	147	140	134	133	130	130	130	8,835	42,890
	464	66,152	484	503	496	495	488	485	485	22,531	91,634
3D - Soil & Groundwater Remediation											
3D0 - Soil & Groundwater Remediation	36	2,836	37	40	40	40	40	40	40	1,777	4,851
3D2 - GW Remediation Support	53	5,510	59	64	63	65	62	74	74	2,755	8,652
3D4 - GW Operations	60	4,774	52	56	55	54	54	54	54	2,292	7,390
3D8 - GW Analysis and Reporting	127	11,275	116	114	120	122	119	114	114	5,739	17,719
	277	24,395	263	274	278	281	275	282	282	12,564	38,611
Grand Totals:	1,388	157,669	1,424	1,460	1,464	1,497	1,480	1,493	1,493	56,220	222,709

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

CLASSIFICATION (When Filled In)									
CONTRACT PERFORMANCE REPORT FORMAT 5 - EXPLANATIONS AND PROBLEM ANALYSES							FORM APPROVED OMB No. 0704-0188		
1. CONTRACTOR			2. CONTRACT			3. PROGRAM		4. REPORT PERIOD	
a. NAME CH2M HILL Plateau Remediation Company			a. NAME Plateau Remediation Contract			a. NAME Plateau Remediation Contract		a. FROM (YYYY/MM/DD) 2014/07/21	
b. LOCATION (Address and ZIP Code) Richland, WA 99354			b. NUMBER DE-AC06-08RL14788		b. PHASE Base		b. TO (YYYY/MM/DD) 2014/08/24		
		c. TYPE CPAF	d. SHARE RATIO		c. EVMS ACCEPTANCE 2009/09/18 NO YES X				
	BCWS	BCWP	ACWP	SV in \$	SV in %	CV in \$	CV %	SPI	CPI
Current:	41,082	39,933	36,625	(1,149)	-2.8%	3,308	8.3%	0.97	1.09
Cumulative:	3,740,424	3,713,442	3,654,131	(26,982)	-0.7%	59,311	1.6%	0.99	1.02
	BAC	EAC	VAC in \$	VAC in %	TCPI				
At Complete:	5,390,730	5,238,313	152,417	2.8%	1.06				
Explanation of Variance/Description of Problem:									
Current Period Schedule Variance: The variance is within reporting thresholds.									
Current Period Cost Variance: The variance is due to implementation of planned efficiencies.									
Cumulative Schedule Variance: The variance is within reporting thresholds.									
Cumulative Cost Variance: The variance is within reporting thresholds.									
Impact:									
Current Period Schedule: N/A									
Current Period Cost: No significant impact, planned efficiencies have been incorporated into the lifecycle EAC.									
Cumulative Schedule: N/A									
Cumulative Cost: N/A									
Corrective Action:									
Current Period Schedule: N/A									
Current Period Cost: No Corrective Actions are needed; planned efficiencies have been incorporated into the lifecycle EAC.									
Cumulative Schedule: N/A									
Cumulative Cost: N/A									
Monthly Summary (to include technical causes of VARs, Impacts, and Corrective Action(s):									
For August, the project was 2.8% behind schedule and 8.3% under planned cost. For FY2014, the project is 5.3% behind schedule and 5.9% under planned cost.									
Overall schedule performance in August was within reporting thresholds.									
Overall cost performance in August was due to implementation of planned efficiencies.									
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 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 +\$152.4 million and +2.8% and is within reporting thresholds.

Format 1 and 3 Contract Data: Contract Price Adjustments

CPs - In Process		
	Total Authorized Unpriced Work	\$11,690
Approved Adjustments to Contract Price (not reflected in B.4-1 Table)		
	Total Negotiated Cost Changes	-
Grand Total Adjustments		\$11,690

Use of Management Reserve (MR) and Fee Activity:

Management Reserve Utilization

BCR Number	Title	Fiscal Year	MR
N/A	N/A	N/A	N/A

There were no changes to Management Reserve during August.

Fee Activity

BCR Number	Title	Fiscal Year	Fee
N/A	N/A	N/A	N/A

There were no changes to Fee during August.

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.

Prepared by: Project Control Staff	Date: 9/18/2014	Approved by:	Date:
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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

August 2014
CHPRC-2014-08, 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	80%
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	100%
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	75%
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.	9/30/14	75%
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	77%

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	70%

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	7	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 August.
 - 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. Beryllium facility assessments have been completed on 459 CHPRC facilities. Characterizations of facilities are being performed as identified through the assessment process. Beryllium characterizations have been completed on 50 CHPRC facilities and beryllium verifications have been completed on 13 CHPRC facilities.
 - Continued partnering efforts with HPMC on reduction efforts for soft tissue injuries and other health issues as they arise.
 - Continued to provide support to Soil and Groundwater Remediation Project (S&GRP) Sample Management & Reporting (SMR) for the transition of Industrial Hygiene (IH) sample processing from Waste Sampling and Characterization Facility (WSCF).
 - Continued support to Project Technical Services (PTS) for oversight of IH monitoring to ensure appropriate hazard controls and respiratory protection are being used for welding activities and painting activities at the 100K Annex project. Supported PTS in setting up a satellite respirator issue stations at the site.

- Continued working with Project Facility Chemical Custodians (FCC) to complete qualification cards.
- Continued to provide technical support to Decommissioning, Waste, Fuels, and Remediation Services for work activities associated with demolition of old construction laydown area.
- Provided support for the internal assessment of CHPRC processes for collecting, handling, and shipping IH samples. Working the assigned corrective actions regarding Chain of Custody forms as a result of the assessment.
- Continued efforts in implementing the Global Harmonization Standard requirements.
- Continued to provide ergonomic assessments for Functional Organizations.
- Provided technical support to the Nevada National Security Site to help develop their Chemical Management Program.
- o Radiological Control accomplishments:
 - Transferred ten Canberra continuous air monitors (CAMs) and two CAM control centers from Waste Receiving and Processing Facility to PFP for use as portable CAMs resulting in cost savings of \$130K.
 - Streamlined process for obtaining administrative control limit (ACL) extensions of up to 1,250 mrem for PFP personnel.
 - Provided training to PFP workers on the importance of hand protection in helping prevent contaminated wounds.
 - Implemented use of a single set (versus two pair) of anti-C's at PFP for non-intrusive work activities within posted high-contamination areas to address potential heat stress concerns.
 - Mentored radiological control technicians preparing for required biennial requalification testing.
 - Conducted quarterly company-level ALARA meeting.
 - Provided controller/evaluator support for several Emergency Preparedness drill activities.
- o Nuclear Safety deliverables prepared and transmitted to RL in August include:
 - Documented Safety Analysis:
 - Letter, CHPRC-1400145, August 19, 2014, *Transmittal of PRC-NS-00004, Revision 2, CH2M HILL Plateau Remediation Company Criticality Safety Program Description Document.*
 - Letter, CHPRC-1402841, dated August 26, 2014, *Transmittal of the 2014 Annual Update of the Documented Safety Analysis for the 224-T Facility, CP-14641, Revision 5, and the Unreviewed Safety Question Determination Summary.*
 - Letters received from RL in August include:
 - Letter, 14-NSD-0073_RL, dated August 15, 2014, *Transmittal of CP-55076, U Plant Facility Hazard Categorization (FHC), and the Unreviewed Safety Question (USQ) Determination Summary for U Plant.*
 - Letter, 14-NSD-0057_RL, dated August 29, 2014, *Approval of Revision 10 of the Plutonium Finishing Plant (PFP) Deactivation and Decommissioning Documented Safety Analysis (DSA) and Revision 10 of the PFP Technical Safety Requirements.*
- o Transportation Safety accomplishments:
 - Preparing second All Contractor Transportation Safety Managers meeting, scheduled for September 16, 2014.
 - Providing Packaging Design Authority support for the Concrete Box to meet Transportation Safety Document packaging/shipping requirements. Packaging design authority is supporting source inspection of container manufacturer.
 - Developing training program for transportation safety engineers.
- o Contractor Assurance Regulatory Reporting (CARR) accomplishments:
 - 229 Condition Reports (CRs) were screened in August:

- No Significant issues identified
- One Adverse issues identified
- 116 Track Until Fixed (TUF) issues identified
- 31 Trend Only (TO) items identified
- 80 Opportunity for Improvement (OFI) items identified
- One Screen Out
- 172 CRs administratively closed.
- 383 CR actions administratively closed.
- Provided lead analysis support to S&GRP on Apparent Cause Evaluation for EM-RL—CPRC-GPP-2014-0002 (CR-2014-1500), *Sub-Contractor Well Driller's Well Casing Jack Assembly Fails*.
- Five external Lessons Learned were submitted to OPEX.
- Coordinated monthly CHPRC/Defense Nuclear Facility Safety Board (DNFSB) Information Request Status call.
- Coordinated two DNFSB conference calls concerning the Sludge Treatment Plant.
- Fifty-six documents were provided in response to DNFSB requests for information.
- o Performance Assurance, Quality Assurance (QA), and Assessment accomplishments:
 - Conducted apparent cause sessions to review the concern raised by DOE-RL in their core surveillance of Contractor Oversight Effectiveness (roll-up) evaluation, DOE-RL 14-00D-0025.
 - Assessment field activities were initiated for the 10 CFR 835, Subpart E, Monitoring of Individuals and Areas, surveillance activity.
 - Continued evaluations of completed management assessments and provided specific mentoring and feedback to assessors and responsible managers.
 - At the request of Waste Encapsulation and Storage Facility/Canister Storage Building facility management, provided operations support to evaluate aspects of the Control of Equipment and System Status process.
 - As a result of internal workshops to review the CHPRC Assessment Program Plan and associated assessment process documents, initiated revisions to the CHPRC Management Assessment and Work Site Assessment procedures.
 - Initiated actions in support of the annual assessment schedule development, including a review of contract modifications impacting Table J.2 requirements which may affect the CHPRC list of required assessments.
 - Supported the extent of condition report for deferred maintenance for Operations Completed support of CHPRC Safeguards and Security Self-Assessment Report, SHS&Q-MA-2014-13006.
 - Completed a review of Engineering Procedures for appropriate utilization of QA resources.
 - Work with the Waste and Fuels organization in the procurement planning of the Effluent Test Facility Evaporator Heat Exchanger and IP-1 Transportation containers.
 - Participated in the acceptance testing of the 100KW Annex HEPA ventilation system at Flanders Corporation in Greenville, NC.
 - Supported the Waste and Fuels organization in their procurement of a new calibration services contractor for specialty instruments that support the sludge treatment project.
 - Supported the Vitrification Plant Contractor request to provide the Suspect/Counterfeit Items materials presented at the Region X Voluntary Protection Program Participants Association Conference in Anchorage, Alaska.
 - Performed surveillance on Office of Civilian Radioactive Waste Management (OCRWM) Records storage locations identifying a weakness in locked cabinets.

- Completed the DOE-HQ OCRWM Audit. Fourteen Conditions Adverse to Quality (CARs) and four recommendations were identified. The review identified no Significant Conditions Adverse to Quality (SCARs).
- 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.
 - o **Status:** Implementing Revision 2a across CHPRC.
 - o **Action:** Beryllium facility assessments and characterization sampling are being conducted. Beryllium facility assessments have been completed on 459 CHPRC facilities. Additional personnel resources from MSA are being utilized for conducting Be assessments/characterization in PRC facilities. Weekly Be product status as per RL is being received from Be CAP committee.
 - o **Issue:** Accident & Injury Reduction.
 - o **Status:** Continue investigating recent recordable and DART injuries to determine cause, prevention and reduction.
 - o **Action:** Continuing to interface with project personnel, supporting EZACs and project safety meetings for continued focus on injury prevention. Improving TRC/DART rate trends are demonstrating that these efforts are being effective.
 - o **Issue:** PFP Value Engineering (VE) Initiatives Path Forward.
 - o **Status:** Engaged PFP project personnel with SHS&Q central group SMEs.
 - o **Action:** Supporting PFP foaming initiative, supplied breathing air system implementation, and new NDA equipment upgrades. PFP completed personnel training in July for the new supplied breathing air system.

Environmental Program and Strategic Planning (EP&SP)

- **Compliance Status**
 - o **Ecology Central Waste Complex Box and WRAP Drum Release Enforcement**
 - o All required actions complete. Procurement underway of ZDR-11 box shipping container. On schedule for January 2015 completion.
 - o Corporate independent audit of container management at Central Waste Complex and T Plant was conducted in late August. Report to be issued in September.
 - o **RCRA Permitting Progress**
 - o CHPRC supporting State Department of Ecology staff with project management approach for the Hanford Facility RCRA Rev 9 permit.
- **Environmental Management System (EMS)**
 - o On August 2, 2014 CHPRC hosted the 6th annual company Family Picnic at GESA stadium in Pasco. Consistent with our EMS principles, this was an environmentally friendly, ZERO WASTE picnic. This was a great way to model environmental stewardship to our community. With 2,000 in attendance, 99% of the waste generated was diverted from landfills to be recycled, reused, donated, or composted (933 pounds of garbage were produced with only 9 pounds that went to a landfill).
- **Environmental Compliance & Quality Assurance (ECQA)**
 - o **Accomplishments**
 - o ECQA completed an internal Independent Assessment of the CHPRC sampling processes as requested by DOE-RL. The exit meeting was conducted on August 11, 2014. Results of the IA identified 3 Findings, 11 Opportunities for Improvement (OFIs), and 2 Noteworthy Practices.
 - o The EDI organization completed a management assessment of the Hanford Environmental Information System (HEIS) Operations & Maintenance. Work was conducted between May 15, 2014 and July 30, 2014. The assessment included a review of seven documents that address HEIS

operations and interviews of 15 people. Five noteworthy practices and six opportunities for improvement were identified.

- o The NSF International Strategic Registrations organization completed its 3-year EMS certification audit. Results indicated that the CHPRC EMS is very thorough, well documented and effectively implemented. The EMS is supported by a strong senior management commitment, robust training program and personnel dedicated to operational excellence. A total of zero Major Nonconformance's, zero Minor Nonconformance's, zero Opportunities for Improvement and 11 Proficiencies were noted during this Registration Audit.

Business Services

• Acquisition Planning

- o Coordinated a vendor demonstration for an environmentally friendly decontamination product. CHPRC, WRPS, and RL staff was invited to attend.

• 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 August 31, 2014, 97 percent of the items have been accounted for. CHPRC has one reported loss, a land survey transducer valued at \$6.9K.

• Finance

- o August 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 September.
- o Replied to KPMG requests for data, in response to the FY2010-FY2013 incurred cost audits.
- o Replied to RL requests for unallowable cost support for Quarter 3, FY2014.

• Human Resources

- o CHPRC hired three WSU-TC Co-operative employees after their summer internship concluded, and are anticipating hiring approximately 10-12 Co-operative employees in the near future.
- o A new user and environmentally responsible automated job posting system was rolled out on Thursday, August 28, 2014. Internal and external applicants will be able to access the new system from the Human Resources intranet webpage and external careers website, respectively. The new Job Posting system was designed to streamline the hiring process. Also, as a federal contractor, CHPRC is subject to certain nondiscrimination and affirmative action record keeping and reporting requirements imposed by the U.S. Department of Labor's Office of Federal Contract Compliance Programs (OFCCP). Recently, the OFCCP announced changes to regulations requiring candidates have the opportunity to self-identify their veteran and/or disability status.
- o Implemented a new Management Directive (MD) that details changes to the Bereavement and Jury Duty time recording and record keeping. The Bereavement time code, D, can only be used when a request is reviewed and approved by Human Resources. Jury Duty documentation will not be maintained by Human Resources. This MD will be in effect until changes to the relevant procedure have been approved and published.

• Procurement

- o Awarded/amended 111 contracts with a total value of \$10.5M. Additionally, awarded 234 new material purchase orders valued at \$1.0M to support ongoing project objectives.
- o At the end of the first 71 months of the PRC, procurement volume has been significant; \$2.12B in contract activity has been recorded with approximately 50.15 percent, or \$1.066B, in awards to small businesses. This includes 6,588 contract releases, 17,478 purchase orders, and 205,960 P-Card transactions.
- o Completed and issued one Advance Planning Document for review or approval.
- o On August 27, 2014, CHPRC issued Contract 54134-1 to Columbia Energy & Environmental Services for various general service fabrication services in support of the STP ECRTS in the

amount of \$2,278,840.74. This contract was awarded as a Firm Fixed Price type contract based on competition to CHPRC's approved GS Fabrication Basic Ordering Agreement holders.

- o CHPRC awarded a contract to GE Ionics, Inc. (GE) for the purchase of a replacement evaporator heater for the ETF. Total award value was \$490,723.00 and it is due to be delivered the first of May 2015. There were extensive negotiations required with GE in regards to the four-part contract and the general provisions.

Prime Contract and Project Integration (PC&PI)

- o PC&PI continued their efforts to lead the company wide opportunity for improvement related to the appropriate use of Code of Accounts (COAs). During the reporting period PC&PI worked with CHPRC Business Services, Projects, and Functional organizations to develop a consensus recommendation for a path forward to improve COA use. This recommendation was presented to and endorsed by Management and development of an implementation plan for the recommendation was initiated.

• Contracts Compliance and Change Management

- o In August, Prime Contracts Compliance received and processed nine (9) contract modifications (numbers 323, 350, 351, 352, 353, 354, 355, 356 and 357) from RL was received and processed. Correspondence Review received and determined the distribution for 47 incoming letters/documents. The Prime Contracts Compliance Manager reviewed 54 outgoing correspondence packages.
- o Two Notice of Change letters were provided to RL in August. Submitted three letters for completion packages for eight FY2014 performance measures.

Change Proposal/REA Summary

Change Proposals submitted on or ahead of due date	Request for Equitable Adjustments submitted	Supplemental Information submitted	Change Proposals definitized on or ahead of 180-day metric	Other Proposals Definitized
2	0	4	2	0

- o Estimating & Program Support provided the following support to the Projects:
 - Plutonium Finishing Plant (PFP):
 - Awaiting RL's disposition of CO #240 - PFP Chemical Hazard Investigation and Mitigation of Chemical Lines.
 - Sludge Treatment Project (STP):
 - Awaiting RL's disposition of REA 012 1454 - *Sludge Treatment Project Work Scope Priorities and Sequestration Impacts*
 - Continued support in the maintenance of the estimates associated with the RL-0012 Performance Measurement Baseline (PMB) planning scenarios related to K-West Basin in-basin construction and T-Plant sludge storage modifications. .
 - Decommissioning, Waste, Fuels & Remediation Services (DWF&RS) Project
 - Submitted updated pricing that reflected a CHPRC update to forward pricing rates that was submitted to RL on June 4, 2014, for the following:
 - o CO #228, *Activities in Support of Agreed Order*, on August 6, 2014;
 - o CO #253, *Borehole Planning and Sample Instruction*, on August 19, 2014.
 - Received and initiated planning and development of proposals related to the following:
 - o CO #258, *Turnover of the Integrated Disposal Facility Performance Assessment to Office of River Protection*, on August 19, 2014;
 - o CO #252, *Boreholes*, on August 19, 2014;
 - o CO #259, *Preliminary and Final Design Waste Encapsulation and Storage Facility*

Stabilization and Ventilation Project, on August 14, 2014.

- In coordination with CHPRC Finance, reviewed and provided comments and recommendations on the CHPRC FY2015 Waste Rate calculations in preparation for their submittal to RL.
- Reviewed the estimate developed in response to Other Hanford Contractor request for support from the Pacific Northwest National Laboratory, to provide Transportation and Packaging Support during FY 2015.
- Soil & Groundwater Remediation Project (S&GRP):
 - In conjunction with the project, completed and submitted to RL, the following:
 - o CO #256 – *200-BP-5 Remedial Action Plan Design and Installation Activities*, on August 18, 2014,
 - o CO #257 – *200-UP-1 Hydraulic Containment for Iodine (I-129)*, on August 18, 2014.
 - In conjunction with the project, negotiated and definitized the following:
 - o CO #250 – *100-D-100 Waste Site Excavation Soil and Underlying Groundwater Investigation*, on August 15, 2014,
 - o CO #251 - *200-UP-1 Uranium Treatment at the 200W Pump and Treat Facility*, on August 18, 2014.
 - In conjunction with the project, initiated planning for the development and submittal of a proposal in response to the following:
 - o CO #260, *100-NR-2 Bioventing Well Clarification*, on August 26, 2014.
 - In conjunction with the project, responded to RL questions and provided a revision to the proposed price for the following:
 - o CO #254 - *Central Plateau Inner Area Cleanup Principles / Risk Assessment and Modeling Parameters*, on August 28, 2014.
 - Responded to questions from Washington Closure Hanford, related to an estimate for the installation of two investigations /monitoring wells at the 100 N Area, former gasoline station, that was submitted on July 31, 2014.
- o Functional Area Support:
 - Project Technical Support:
 - Submitted updated pricing that reflected a CHPRC updated to forward pricing rates that was submitted to RL on June 4, 2014 for the following:
 - o CO #248, *Chronic Beryllium Disease Prevention Program Phase II A*, on August 19, 2014.
 - Initiated work in an estimate that supports Project Technical Support's procurement of a cantilevered shade structure for the 289-T waste packaging facility.
- o Estimating Systems Administration
 - Completed an administrative revision to the PRC-GD-PC-40434, Cost Estimating Guide.
 - Completed comment response and published a new management plan, PCR-MP-CMT-52887, *Change Proposal Management Plan*.
 - Estimators completed required reading for the new Change Proposal Management Plan.
 - Initiated a required reading request for project controls personnel, and Control Account Managers, to read the newly revised estimating procedure and guide.
 - Completed two data / information request submittals to KPMG in support of their audit of CHPRC's estimating system Change Proposal process, on August 5 and August 14, 2014.
 - Set the date for on-site field visit by KPMG to begin the week of September 29, 2014.
- **EVMS Compliance and Reporting**
 - o Working with RL to address Review Comment Records (RCRs) on the FY2015 Annual Performance Measurement Baseline (PMB) Update. Comments are very minor and will be incorporated and/or addressed in the final submittal, scheduled for September 23, 2014.

- o In conjunction with RL, solidified the scope that will be performed in FY2015, based on priorities and available funding.
- o Process improvement activities continue to enhance CHPRC's readiness for an anticipated DOE-HQ Office of Acquisition and Project Management (OAPM) onsite Stage 3 Review of CHPRC's EVMS continued. These activities, which involve the central and Project's Project Controls organizations, include addressing feedback from internal and external assessments, including feedback from the DOE-HQ OAPM Stage 2 Review of CHPRC's EVMS. One of these activities was to kick-off a cause analysis as to why actions in response to previously identified EVMS deficiencies and Opportunities for Improvement (OFIs) have been completed, assessments continued to identify new deficiencies and OFIs. PC&PI has teamed with CHPRC Contractor Assurance & Regulatory Reporting to perform this "Why" analysis.
- **Strategic Planning and Integration**
 - o **Interface Management**
 - Completed scope 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 #20 Fire and Emergency Response Services Service Delivery Document has been approved for update to reflect changes.
 - J.3 Table Worktables
 - J.3-51 "*Property Systems*" worked with MSA and WRPS to revise and publish Service Delivery Document
 - J.3-34 "*Biological Controls*" worked with MSA to revise and publish Service Delivery Document
 - J.3-33 "*Analytical Services*" review/comment/concurrence for deletion of WSCF scope (contractor self-performance) provided to MSA
 - J.3-76 Began process of cancelling HNF-5095 Rev1, AIA between WCH and CHPRC for Operating the 300 Area Retention/Transfer/System
 - Continue managing spreadsheets identifying site manuals, site committee agreements and Supplemental Contract Requirements Documents to establish need for internal change control process routing for Project review.
 - Continue management assessment of the MSA Statements of Work that are applicable to J.3 Usage-Based Services.
 - Quarterly review and comment of J.13/J.14 tables.
 - WSCF 6266 ownership dispositioned – Building to stay with MSA. SOW and Contract Release will be issued for CHPRC to provide surveillance of 6266
 - 4707 ownership remains with MSA – Building to transfer to CHPRC. AIA for occupancy and usage in route for execution while J.13 table update process is ongoing.
 - 275W ownership remains with MSA – Building to transfer to CHPRC. AIA for occupancy and usage has been approved and issued. J.13 table update process is ongoing.
 - 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 (In USQ/Engineering release)*
 - FY2014 Infrastructure & Services Alignment Plan (ISAP) published.
 - Concurrence received from all Contractors on MOA HNF-49315 Agreement on Hanford Atomic Metal Trades Council (HAMTC) Seniority Related Discharges and Replacements - awaiting publication.
 - Annual update (data call for FY2015) of Service Level Agreement with ATL for laboratory sampling scope is being finalized.

- Completed annual update of Sample Archive data call with ATL routing for Project input.
- Revision of Interface Management PRC-PRO-MS-10472 in progress.
- Continue work on MSA TPA Integration support.
- Interface Management engaged with Effluent Treatment Facility on Near Field Monitoring requirements.
- Continue to provide updated input on a monthly basis to CHPRC Contracts on the Performance Measure PM-00-FY14, Critical Self-Assessment in Risk Management and Integration with Other Hanford Contractors.
- o **Information Management**
 - Continued software development of Respiratory Protection Equipment Tracking automation. Software implementation is planned for September 2014.
 - Continued inventory of all OCWRM holdings located at the 3212 Building to locate 1000 records that do not have specific box locations on the OCRWM Index
 - Provided IT, event logistics, and facilitation support to company manager meetings, EZAC, PZAC, and Leadership Impact Initiative training
 - Provided information clearance and release support for 100K, SGW, DWFRS, SHSQ and PTS documents
 - Provided numerous IT support requests for cellular phone issues/questions, meeting set-up, network connections, and printing.
 - Published revisions to PRC-MP-IRM-40119, *Document Control and Records Management Plan*, and PRC-PRO-IRM-10588, *Records Management Processes*, to incorporate the newly revised DOE Order 243.1B.
 - Cancelled PRC-PRO-IRM-232, *Project Files Management*, and related forms, to streamline and limit the use of project files to Construction projects only.
 - Cancelled PRC-PRO-IRM-595, *Transferring or Excessing Automatic Data Processing Storage Media*, due to no PRC specific processes were included in the procedure. The MSA version of the same procedure was endorsed instead.
 - Installed 11 Thin Client workstations in support of FY14-EMS-PCPI-OB2-T1
Processed 11,465 Electronic Records into IDMS

Project Technical Services (PTS)

- **Central Engineering**
 - o Fire Protection Engineering
 - The 105KW Fire Hazards Analysis was published.
 - The 200W Pump and Treat Fire Hazards Analysis was published.
 - The 105 KW Annex/ECRTS Preliminary Fire Hazards Analysis was published.
 - PRC Fire Protection Engineer attained his Deputy Fire Marshal (DFM) credentials.
 - Providing technical support to the DWF&RS organization related to application of Fire Program Requirements to T Plant.
 - Assisted PFP in the preparation of the PFP Fire Hazards Analysis.
 - o Engineering Services
 - Supporting DWF&RS in the evaluation of the WESF Ventilation and Stabilization Project (W-130) for the placement of grout in the hot cells and design/installation of a replacement K-3 Ventilation system. The Conceptual Design Review kicked off August 27; comments are due to the Project early September.
 - Reviewed and approved the WESF project W-130 Functional Design Criteria document.
 - Performed a 30% design peer review for the ERDF Leachate Transfer Line design.
 - Supporting the DWF&RS in the review/evaluation of the Capsule Extended Storage Project

- (W-135) Function and Requirements Document, the Project Execution Plan, and the Statement of Work. The project involves the removal, packaging, and storage of the cesium and strontium capsules from their current location in WESF to a new extended storage facility.
- Providing support for DWF&RS STP with a review of the I&C portions of the Preliminary Documented Safety Analysis and Control Decision Report that are being revised.
 - Supported STP with review of the I&C portions and providing RCR comments for the Preliminary Documented Safety Analysis and Control Decision Report that are being revised.
 - Supported PFP in the evaluation of the floor in the 234-5Z duct level to allow some storage of removed equipment. As identified in the current DSA seismic criteria, the effective dead load of 234-5Z duct level has been reduced by limiting the live load to 30psf transient.
- o Engineering Standards/Programs
- Performed the CWC 3 Month TSR Combustible Surveillance walkdown to verify compliance. Issues discovered were quickly corrected. Work package documentation completed prior to due date of August 31, 2014.
 - Providing technical support to the DWF&RS organization in preparation for the September 23-24 visit by DNFSB Staff.
 - Participating on the Hanford Site Electrical Safety Program committee to disposition comments from site reviewers for a draft revision to DOE-0359.
 - Supported ASME AG-1 DRAFT 2014 edition response to public comments conference call. An unprecedented number of public comments opposed the inclusion of a non-mandatory appendix associated with limiting HEPA filter service life. In conjunction with DOE, volunteered to develop a position paper and proposed response targeted to the HEPA project team in attempt to communicate appropriate language that would address the comments yet still allow the appendix to be included.
 - Participating in decisions related to restructuring the Energy Facility Contractors Group (EFCOG). Providing leadership to the Engineering Practices Working Group (EPWOG) in developing Engineering initiatives and supporting overall EFCOG objectives.
 - Supporting RL in the review of the Draft Report of the Hanford Site-Wide Probabilistic Seismic Hazard Analysis. This study was conducted to fulfill the requirements for DOE facilities as well as those for commercial nuclear power plants, through a collaboration and joint sponsorship between DOE and Energy Northwest. The study also fulfills the requirement to develop an update to the PSHA as required by DOE Order 420.1B (Facility Safety; DOE 2005) and its recent update 420.1C (DOE 2012).
- **Procedures and Training**
 - o Completed the respiratory job task analyses meeting with training, CHPRC, WRPS, and HAMMER representatives.
 - o Identified path forward for implementation of new records table requirements in procedures.
 - o Completed a draft needs analysis for PFP D&D workers.
 - o Provided training support to the ETF bladder repair scope of work.
 - o Supported transition activities for turnover of ETF to Tank Farms.
 - o Conducted a pilot of records management training.
 - o Submitted draft Engineering qualification cards for subject matter expert review.
 - **Operations Program**
 - o Provided mentoring to CHPRC users of the updated Calibration Service Request system, placed into service Monday, August 11, 2014.
 - o Developed a tailgate slide regarding safe work practices for charging if alkaline batteries are used to replace rechargeable batteries in portable M&TE, Radcon, and IH equipment.

- o Initiated an improvement initiative to improve the conduct of pre-drill briefings for the emergency preparedness coordinators.
- o Participated in the Emergency Management Institute special interest group co-operative Virtual Tabletop Exercise.
- o Conducted one Full-up Operational Drill, two table top drills and one ICP limited drill.
- o Conduct of Work mentors continuing to observe and including some participation as controllers during drills and are providing feedback from the projects to the Emergency Preparedness personnel.
- o Developing work management web toolbox.
- o Working with Projects, Contracts, and Procurement to establish an alternative process for near term, on-site calibration services.
- o Working with MSA to develop requirements and test a software application for combined control and accountability of M&TE and request calibration service.
- o Assisting projects to complete reviews of Recall Basis 3 & 4 and Inactive PM Activities to support implementation of PRC-PRO-MN-19304.
- o New Emergency Preparedness Manager is in place.
- **Project Delivery**
 - o S&GRP
 - Completed shop fabrication of three mechanical racks and installed racks at Wells 210, 212, and 220 (August 28, 2014).
 - Worked YJ23 for 200W P&T ITB-1 HDPE Piping and Header Installation. Targeted completion date of September 3, 2014 for the acceptance walkdown and turnover.
 - Working installation of fiber optics and well realignment/connections for YE14, Targeted completion date of September 5, 2014.
 - Mechanical installation for wells YE17 and YE20 completed August 22, 2014.
 - Pressure testing of acid tubing on chemical metering pump for Wells 205 and 206 for modifications at 100KW P&T completed August 22, 2014.
 - o DWF&RS
 - Continued preparation work for 291-S Roof replacement, 105KW Roof repair, Annex Interface Wall Sealing at 100K, 1803 Raw Water Tank Repair, 189 Clearwell Tank Replacement, ERDF Leachate Transfer lines, WRAP Roof Maintenance, ETF Heat Exchanger replacement, WSCF 6267 Remodel.
 - o PD Program
 - Completed RFP period for NQA-1 capable Construction Contractor. Received 6 submittals. Evaluations in progress. Expecting to award end of October.
- **KW Annex Construction**
 - o Continued working items on the structural steel punchlist, two of three items completed. Final item contingent on the completion of fire coating in the high bay due to fall protection issues, target completion September 10, 2014.
 - o Continued field preparation and application of primer/intumescent fire coatings.
 - Low Bay Area scheduled to complete late September. Only remaining application around Door 108, application awaiting Flanders staging in building.
 - Mezzanine Area fire proofing to be completed on the hold back areas after High Bay complete – scheduled to start hand trowel application on September 2, 2014.
 - High Bay Area – spray application complete – hand trowel scheduled to complete early-September
 - Intermediate Bay Area - complete
 - o Complete floor coatings in the ME/HEPA rooms (Low Bay) – sumps and stem wall curbs still in

progress

- o Offloaded the Flanders HEPA filter system and staged units in the Low Bay.
- o Continued installation of Wall Panels, ahead of schedule.
- o Continued door framing to support wall panel installation.
- o Continued rebar installation and formwork for the layout of the outside HIH shielding.

Communications

• Internal

- o Produced a video of a concrete pour for the Annex and of demolition of the 270-Z building at PFP.
- o Produced four issues of the Weekly Update, the CHPRC news bulletin, with manager messages from Dee Millikin, Communications Director;
- o Hosted recognition activities to celebrate 1 million safe hours worked and 2 million hours worked without a lost-time injury.

• Public Relations

- o Issued a release and video news release for update on PFP ancillary facility demolition.
- o Issued a press release announcing that S&GRP completed a key performance goal to remove 250 kilograms of hexavalent chromium from groundwater.
- o The DOE-EM Update newsletter featured stories on CHPRC's progress at PFP and in groundwater cleanup.

• Public Involvement

- o 100-F/IU Proposed Plan: Supported development of the comment responsiveness summary that will accompany the Record of Decision.
- o LERF/ETF Permit Modification: Developed and mailed a fact sheet and placed ad for 60-day comment period on a Class 2 Modification to the Hanford Facility Dangerous Waste Permit. These revisions involve changes to maintenance activities in the basins at the Liquid Effluent Retention Facility and the 200 Area ETF.
- o 100-D/H Proposed Plan: Supported planning of the public involvement process for 100-D/H Proposed Plan, which is projected to be issued in late September or early October.

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 (%)
Internal Audit	0.1	0.1	0.1	0.0	0.0%	0.0	22.3%
General Counsel	0.1	0.1	0.1	0.0	0.0%	0.0	34.7%
Communications	0.1	0.1	0.1	0.0	0.0%	(0.0)	-12.1%
Safety, Health, Security and Quality	1.5	1.5	1.1	(0.0)	-0.8%	0.4	26.1%
Environmental Program and Strategic Planning	0.5	0.5	0.5	0.0	2.4%	(0.1)	-10.8%
Business Services	2.1	2.1	1.9	0.0	0.0%	0.2	7.6%
Prime Contract and Project Integration	2.1	2.1	1.6	0.0	0.0%	0.5	23.9%
Project Technical Services	0.7	0.7	0.6	0.0	0.0%	0.1	13.0%
Indirect WBS 000 Total	7.2	7.2	6.0	(0.0)	-0.0%	1.1	15.9%

Numbers are rounded to the nearest \$0.1M.

Indirect WBS 000

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

Variance is within reporting thresholds.

CM Cost Performance: (+\$1.1M/+15.9%)

The favorable variance is primarily due to lower than expected costs for Time Verification System, and staffing vacancies currently in process of being backfilled.

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)
Internal Audit	0.7	0.7	0.6	0.0	0.0%	0.0	25.4%	0.8
General Counsel	1.3	1.3	1.0	0.0	0.0%	0.3	22.1%	1.4
Communications	0.9	0.9	1.0	0.0	0.0%	(0.1)	-10.0%	1.0
Safety, Health, Security and Quality	13.4	13.4	10.4	(0.1)	-0.6%	2.9	21.8%	14.9
Environmental Program and Strategic Planning	4.0	3.9	3.8	(0.1)	-1.3%	0.2	4.2%	4.4
Business Services	18.3	18.3	17.2	0.0	0.0%	1.0	5.7%	20.3
Prime Contract and Project Integration	18.8	18.8	16.1	0.0	0.0%	2.7	14.5%	21.0
Project Technical Services	6.4	6.4	6.7	0.0	0.0%	(0.3)	-4.6%	7.1
Indirect WBS 000 Total	63.8	63.7	56.7	(0.1)	-0.2%	6.9	10.9%	71.0

Numbers are rounded to the nearest \$0.1M.

Indirect WBS 000

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

Variance is within reporting thresholds.

FYTD Cost Performance: (+\$6.9M/+10.9%)

The favorable cost variance is primarily due to lower than expected costs for Time Verification System, B&O Home Office Cost estimate reductions in prior year assessments, and staffing vacancies currently in process of being backfilled.

Baseline Change Requests

BCRA-PRC-14-026R0 - August 2014 HPIC and Activity ID Change



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	1.9	2.1	(0.2)	2.1	2.4	(0.3)
Internal Audit	0.7	0.6	0.2	0.8	0.6	0.2
General Council	1.2	1.0	0.3	1.4	1.1	0.3
Communications	0.9	1.0	(0.1)	1.0	1.1	(0.1)
Safety, Health, Security and Quality	13.4	10.4	3.0	14.9	11.8	3.1
Env. Program & Strategic Planning	4.0	3.8	0.2	4.4	4.4	0.1
Business Services	16.4	15.1	1.2	18.2	17.4	0.9
Prime Contract and Project Integration	18.8	16.1	2.7	21.0	18.3	2.6
Project Technical Services	6.4	6.7	(0.3)	7.1	7.4	(0.3)
General & Administrative (G&A)	63.8	56.7	7.0	71.0	64.5	6.5
		FYTD			FY2014	
G&A Distribution		(55.6)			(64.3)	
G&A Liquidation (Over)/Under		1.1			0.2	

Liquidation Analysis

- FYTD through August, application of the G&A rate has under-liquidated total to date G&A costs by \$1.1M. The FY2014 year end projected under-liquidation of \$0.2M reflected in the fiscal year spend forecast reflects a projected decrease in the G&A costs.
- 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.