

Monthly Performance Report

September 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 6:46 am, Oct 28, 2014

Release Approval

Date

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J. A. Ciucci
President and Chief
Executive Officer

Monthly Performance Report

U.S. Department of Energy Contract,
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September 2014
CHPRC-2014-09, Rev. 0

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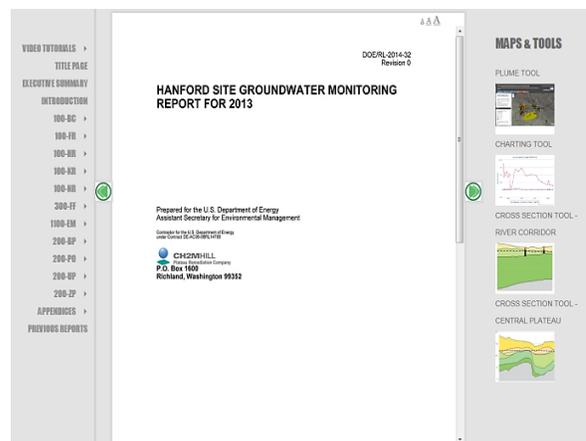
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EXECUTIVE SUMMARY

- September 2014 marked the end of the sixth year of the Plateau Remediation Contract. Since 2008, some of CH2M HILL Plateau Remediation Company's progress across the Hanford Site has included:
 - Removing 165 buildings
 - Treating nearly 7 billion gallons of contaminated groundwater
 - Removing 208 gloveboxes and 142 pencil tanks from the Plutonium Finishing Plant
 - Reducing the active area of cleanup by 331 square miles
 - Completing 137 TPA Milestones
 - Awarding over 48 percent of contracts to small businesses
- CHPRC met or exceeded over 92% of all DOE Fiscal Year Key Performance Goals (KPG) in FY2014 with the remaining goals on schedule to complete in the upcoming months.
- Workers at the Plutonium Finishing Plant Closure Project (PFP) reentered the hazardous and historic McCluskey Room for the first time since 2011 to finish preparing it for demolition. Inside the room, employees are wearing new, specially designed suits that they helped choose, trained on, and gave feedback on its performance in training before deployment.
- The Decommissioning, Waste, Fuels & Remediation Services (DWF&RS) and Project Technical Services (PTS) teams continued construction of the KW Annex that will house the systems and equipment used to retrieve highly radioactive sludge. Progress in September included completing final items on structural steel engineering punch list and completing spray application of the field fire coating of steel members.
- The Soil & Groundwater Remediation Project (S&GRP) launched the Hanford Groundwater Report Interactive Viewer. With this deployment, the 2013 Groundwater Report is now available to the public in a web-tool delivery that includes powerful interpretative tools including the plume tool, charting tool and cross section tool.



Workers enter the extremely hazardous and historic McCluskey Room



Hanford Groundwater Report

- The September 2014 President’s Zero Accident Council (PZAC) meeting was hosted by the Safety, Health, Security & Quality (SHS&Q) organization. The three main themes for the meeting were:
 - o Get Out and Look – Vehicle Safety
 - o Take the Right Steps to Prevent Slips, Trips & Falls
 - o CHPRC Community Legacy Project

The meeting began with two presentations that mapped out improvement paths for vehicle safety and slips, trips, and falls.

The vehicle safety presentation, based on recent increases in minor incidents, focused on identifying safe routes of travel prior to moving a vehicle and better understanding of blind spots. The report on slips, trips, and falls highlighted injuries resulting from “same level falls” and how they can be prevented through alertness and deliberate usage and care of designated walkways. Safe trailblazing was the theme of a presentation on volunteer work related to CHPRC’s Community Legacy Project. CHPRC is investing in the community, enhancing the future, and changing lives by helping to expand a wildly popular trail system in the Tri-Cities. The presentation discussed how to safely perform the type of work to be expected when charting the new course, such as moving dirt and spreading gravel. Monthly PZAC briefings on core programs and topics included updates and inspirational accounts:

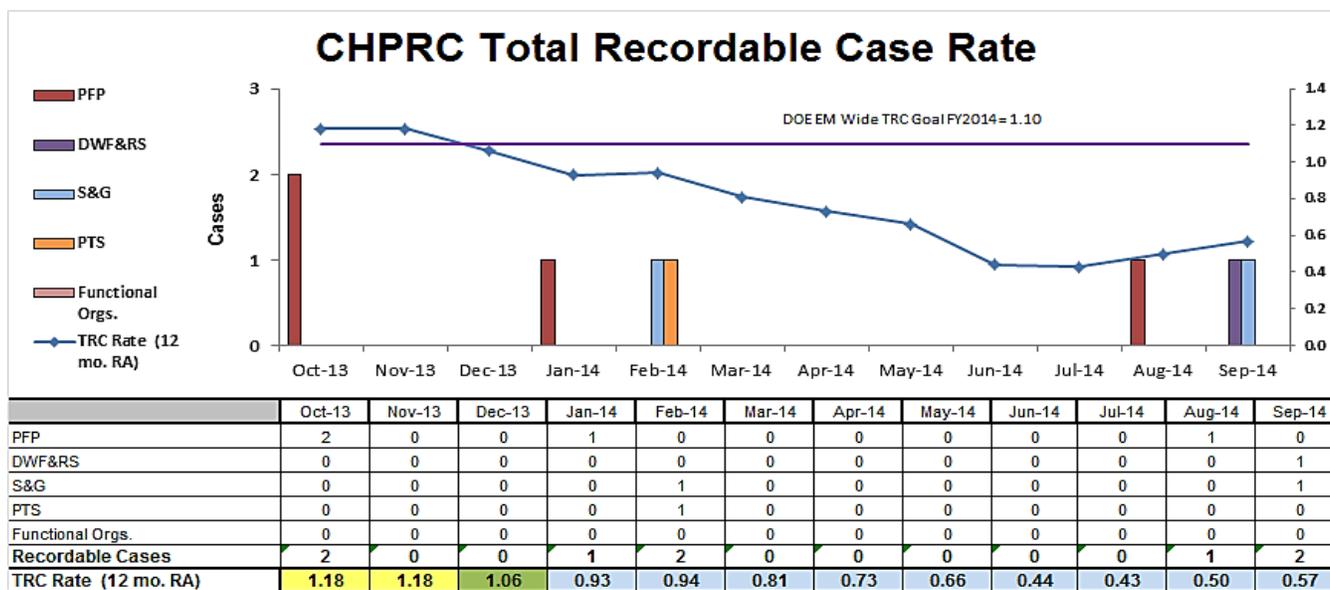
- o EMS recap of FY2014 successes
- o VPP update, including CHPRC participation at the national conference and status of the 2014 Safety Improvement Plan
- o Injury and illness performance review
- o Good New Stories highlighting respiratory protection enhancements and community involvement activities
- o Hero Award presentation for off-duty CHPRC employees who rendered aid to unconscious citizen
- o Stretch and Flex
- Five “*Thinking Target Zero*” (TTZ) bulletins were published in September to convey important occupational safety, health and environmental messages:
 - o School in Session – Drive Safely
 - o EMS Objectives and Targets
 - o Reduced Visibility – Headlight Care
 - o VPP Employee Involvement
 - o Flu Prevention
- September *Weekly Safety Tailgate* briefing packages communicated relevant topics and safety information to the workforce:
 - o Return to Work After a Holiday: Focus on Safety
 - o Globally Harmonized System Pictograms
 - o Asbestos Procedure Updates
 - o Pedestrian Safety
 - o Overhead Power Lines
 - o Stay Fit on Your Next Flight
 - o Integrated Document Management System Search Information
 - o Reduce Mosquito Population
 - o Traffic Safety Information
 - o Deer and Elk Season



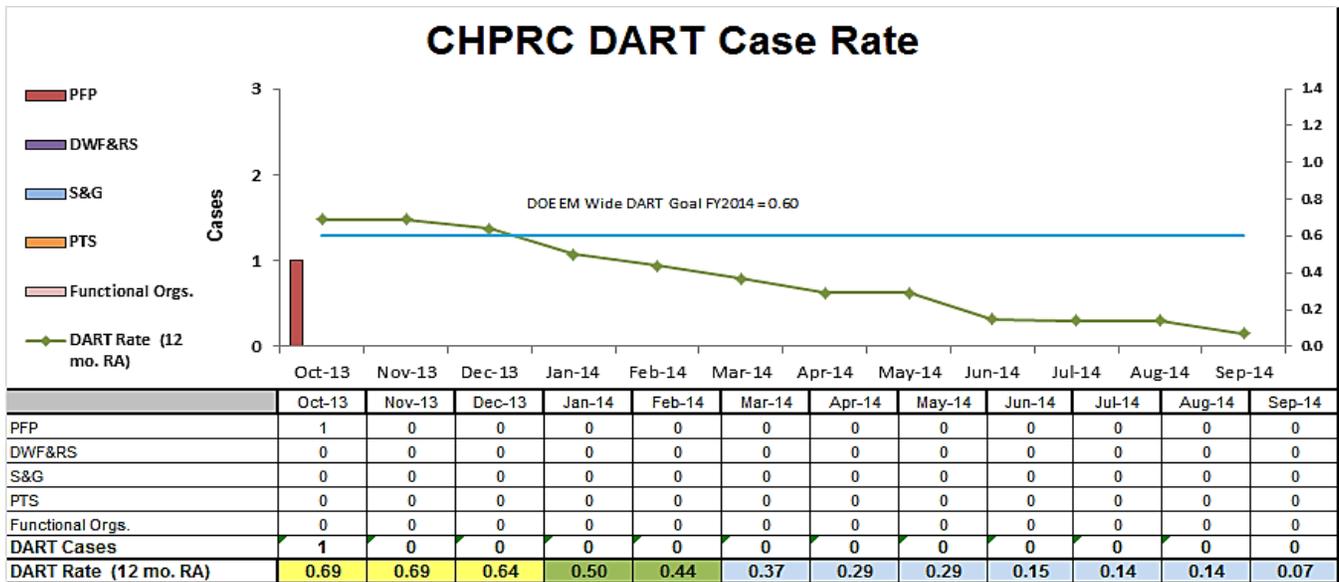
- o Local Waste Collection Event
- o Personal Protection Procedure Update
- o Hanford Flu Clinics
- o “What Would You Do?” Ethics Awareness messages
- o Injury/Illness Summaries and the TTZ of the week
- September CHPRC Weekly Updates included two blogs by Terry Vaughn, Vice President of SHS&Q. The first message challenged the workforce to refocus on safety when returning from the Labor Day holiday, with an emphasis on the additional awareness needed coming to and from work due to the start of school. Mr. Vaughn’s second blog highlighted CHPRC participation at the Voluntary Protection Program Participants Association National Conference and included an application of the presentation by the conference’s keynote speaker. Former Special Forces member Keni Thomas told his incredible story from the 1993 “Blackhawk Down” missions in Somalia. Thomas’ message was that leadership has never been about the rank or position you hold; it is about the example you set. This message, when applied to CHPRC safety leadership, demonstrates the same commitment and preparation. Two additional blogs by S&GRP Vice President Karen Wiemelt and S&GRP Deputy Mark Cherry, applauded the accomplishments of the organization, which were achieved through dedicated safe and compliant performance.

TARGET ZERO PERFORMANCE September 2014

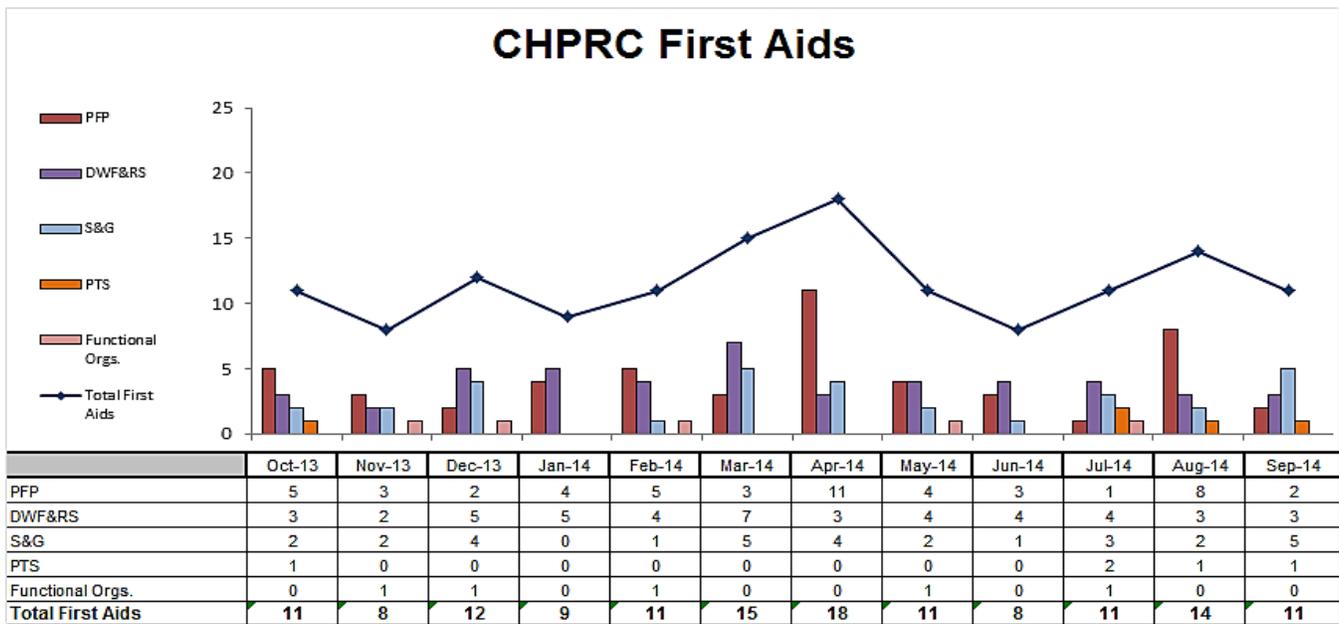
CHPRC continued focusing on integrating safety programs in all program and project areas.



Total Recordable Injury Case (TRC) Rate – The 12 month rolling average TRC rate of 0.57 is based on a total of eight Recordable injuries. There were two Recordable cases in September. 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 0.07 is based upon a total of one Days Away case. There were no DART cases in September 2014. As of September, CHPRC had worked in excess of 2.69 million hours without a DART case with one pending case under review.



First Aid Case Summary – CHPRC reported 11 first-aid cases in September 2014; of these 11 cases, 9 cases required no treatment. There were two self-treated injuries. The contributors were four Sprains / Strains / Pains, three Cuts / Lacerations / Punctures, two Abrasions / Contusions, one eye irritation, and one potential chemical exposure.

KEY ACCOMPLISHMENTS

Projects

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

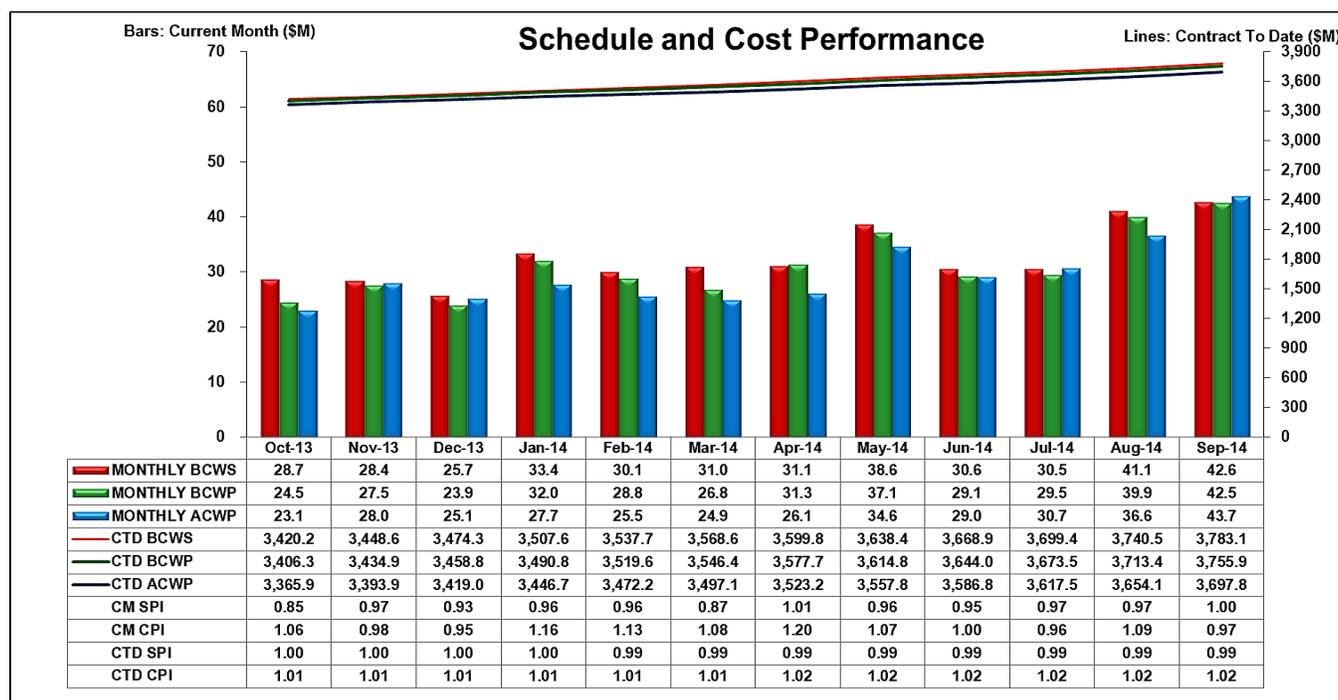
Project Services and Support

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

MAJOR ISSUES

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

EARNED VALUE MANAGEMENT



	\$M					\$M					\$M			
	Current Period					Contract to Date					Contract Period			
	Budgeted Cost		Actual Cost	Variance		Budgeted Cost		Actual Cost	Variance		BAC	EAC	Variance	
	BCWS	BCWP	ACWP	Schedule	Cost	BCWS	BCWP	ACWP	Schedule	Cost				
RL-0011 - Nuclear Materials Stab & Disp PFP	12.5	10.9	11.7	(1.7)	(0.8)	731.9	699.2	736.9	(32.7)	(37.7)	937.4	966.8	(29.4)	
RL-0012 - SNF Stabilization & Disposition	5.4	7.8	10.1	2.5	(2.3)	437.7	443.9	456.9	6.2	(13.0)	692.6	726.6	(34.0)	
RL-0013 - Solid Waste Stab & Disposition	8.8	9.2	6.9	0.3	2.2	879.1	881.2	845.8	2.1	35.4	1,344.3	1,253.6	90.6	
RL-0030 - Soil & Water Rem-Grndwtr/Vadose	13.6	11.8	13.2	(1.8)	(1.4)	1016.4	1014.1	1002.6	(2.3)	11.5	1,514.2	1,463.7	50.5	
RL-0040 - Nuc Fac D&D - Remainder	1.3	1.8	1.4	0.5	0.4	389.5	389.0	358.2	(0.4)	30.9	488.7	456.3	32.4	
RL-0041 - Nuc Fac D&D - RC Closure Project	0.8	0.8	0.3	(0.0)	0.5	310.5	310.4	282.4	(0.1)	28.0	394.6	356.5	38.1	
RL-0042 - Nuc Fac D&D - FFTF Project	0.2	0.2	0.1	0.0	0.1	18.1	18.1	15.0	(0.0)	3.1	26.5	20.0	6.5	
(Numbers are rounded to the nearest \$0.1M)	Total	42.6	42.5	43.7	(0.1)	(1.2)	3,783.1	3,755.9	3,697.8	(27.2)	58.1	5,398.2	5,243.6	154.6

Performance Summary

CHPRC continues to track completion of contract scope within budget and is currently projecting a Variance at Completion of \$154.6M with \$79.9M of Management Reserve for a total positive variance of \$234.5M.

For September, the project was 0.3% behind schedule and 2.9% over planned cost. For FY2014, the project is 4.7% behind schedule and 4.9% under planned cost. Schedule and cost performance was within reporting thresholds during the month of September.

FUNDING ANALYSIS

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

PBS	Project	FY2014		Variance
		Total Funding	Total Cost	
RL-0011	Nuclear Materials Stabilization and Disposition	106.8	95.8	11.0
RL-0012	Spent Nuclear Fuel Stabilization and Disposition	72.2	69.1	3.1
RL-0013	Waste and Fuels Management Project	83.8	75.5	8.3
RL-0030	Soil, Groundwater and Vadose Zone Remediation	121.0	109.3	11.7
RL-0040	Nuclear Facility D&D, Remainder of Hanford	13.2	11.7	1.5
RL-0041	Nuclear Facility D&D, River Corridor	10.1	4.4	5.7
RL-0042	Fast Flux Test Facility Closure	2.3	1.6	0.7
Total Base:		409.4	367.3	42.1

Funds/Variance Analysis:

There were no funding changes in the month of September. FY2014 total funding reflects remains at \$409.4M.

BASELINE CHANGE REQUESTS

In September 2014, CHPRC approved and implemented sixteen (16) BCRs impacting the PMB. The Change Requests are identified in the table below:

Change Request #	Title	Summary of Change
Implemented into the Earned Value Management System		
BCR-011-14-006R0	<i>PFP Demolition Equipment Realized Risk</i>	This Baseline Change Request (BCR) draws down Management Reserve (MR) to address realized risk PFP-DEMO-01- "Demolition Equipment Availability and Condition". This change increased the PMB by \$2,000K.
BCR-011-14-008R0	<i>Implementation of PFP Zone Strategy</i>	This BCR modifies the schedule to implement the PFP area strategy for demolition activities in the 234-5Z duct level vs. the current system approach. Logic for work sequence remains the same and there is no impact to the overall PFP schedule as a result of this BCR. This BCR did not change the PMB value.
BCR-012-14-006R0	<i>Annex General Contractor Construction Rebaseline Alignment with PMB</i>	This BCR adds activities to include best known information as received from the General Contractor, subcontractors and vendors and incorporates more detail from the general contractor to accurately reflect when this scope is performed. The Annex Construction work scope is not currently on critical path for the project, therefore this BCR has no impact to the current critical path for the overall Sludge Treatment Project. This BCR did not change the PMB value.
BCR-013-14-016R0	<i>WESF Stabilization and Ventilation Project Design Finalization and Const. Prep</i>	This BCR incorporates scope associated with Change Order (CO) 259, WESF Stabilization and Ventilation Project Design Finalization & Construction Preparations, Not to Exceed (NTE) amount of \$1.5M authorized by Contract Modification (CM) 353 into the PMB. This change increased the PMB by \$1,500K.
BCR-013-14-017R0	<i>Detailed Planning for ETF Heat Exchanger Replacement</i>	This BCR modifies FY2015 baseline activity 2L7010 - Design, Procure and Install Heat Exchanger from a Planning Package (PP) into detailed Work Packages (WPs). This BCR did not change the PMB value.
BCR-013-14-018R0	<i>CS/SR Planning Package Deferral</i>	This BCR defers the start of the CS/SR PP from October 1, 2014 to January 1, 2015 as the current FY2015 Integrated Priority List (IPL) does not support funding for this activity in FY2015. The delay in the start of this activity allows CHPRC time to work with RL to reach agreement on the path forward for the CS/SR Capsule Dry Storage Project. Agreement on this path forward is required to enable preparation of accurate detailed planning for this PP. An additional BCR will be processed to reflect the agreed path forward. This BCR did not change the PMB value.
BCR-030-14-022R0	<i>Move PW-1/3/6 RD/RAWP from CLIN 7 to PMB</i>	This BCR moves the scope associated with preparing and issuing the PW-1/3/6 decision documents from CLIN 7 into the PMB to support meeting Hanford Federal Facility and Consent Agreement Milestone M-016-125 - 200-CW-5 & PW-1/3/6 Submit Remedial Design/ Removal Action Work Plan (RD/RAWP) to EPA as described in the Record of Decision (ROD), due 9/30/15. This change increased the PMB by \$1,046K.
BCR-030-14-023R0	<i>CO#257 Design Install & O&M of Hydraulic Containment Wells for I-129</i>	This BCR incorporates scope associated with CO 257, Design, Installation and O&M of Hydraulic Containment Wells for I-129 at 200-UP-1 Operable Unit, authorized by CM 348. This

Change Request #	Title	Summary of Change
	<i>at 200-UP-1 OU</i>	change increased the PMB by \$3,000K.
BCR-030-14-024R0	<i>Detailed Planning for 100-HR-3 D&D</i>	This BCR modifies baseline activity 30.13.08.01.0120 - Perform D&D of Electrocoagulation Unit, Piping & Exterior Cable from a PP into detailed WPs. The remaining PP scope will be planned in detail and converted to a work package as part of a future BCR. This BCR did not change the PMB value.
BCR-030-14-025R0	<i>Definitization of CO #250, 100-D-100 Waste Site Soil & GW Investigation</i>	This BCR incorporates scope associated with CM 354, which definitizes CO 250, 100-D-100 Waste Site Excavation Soil and Underlying Groundwater Investigation. Per the modification this BCR also moves FY2018 work scope for the 100-NR-2 Drill Wells CERCLA 5 Year Out-Years from the PMB to CLIN 7 to maintain PMB alignment with the B.4-1 Table. This change decreased the PMB by \$1,100K.
BCR-040-14-005R0	<i>200 West Tier 2 EE/CA</i>	This BCR implements DOE-RL direction and replaces the regulator review/comment incorporation/document finalization for the 200 West Tier II EE/CA with scope adding appropriate 200 West facilities to RAWP DOE/RL-2010-33 in order to capture additional facilities in a regulatory document. This will allow D4 of appropriate 200 West facilities currently lacking regulatory document coverage to begin once funding has been approved. This BCR did not change the PMB value.
BCR-041-14-005R0	<i>Min Safe Segregation</i>	This BCR divides the current PBS RL-041 FY2015 Minimum Safe control accounts between Min Safe and Project Support and modifies the FY2015 schedule to align Project Support with waste site remediation. This change better defines the estimated resources required to perform the specific activities and support the prioritization of work across the RL-0041 PBS. During previous PMB Updates the combined Project Management/Minimum Safe accounts were not time phased to align with the deferral of discrete work scope being moved outside the contract period of performance due to funding constraints and DOE-RL priorities. CHPRC will work with DOE-RL to develop and implement an appropriate path forward for FY2015-FY2018 Project Management/Minimum Safe account(s) to address the need for further segregation, time phasing, and potential change in scope. This BCR did not change the PMB value.
BCR-041-14-006R0	<i>CO #252 KE Boreholes Phase II</i>	This BCR incorporates scope associated with the CO 252, KE Boreholes Phase II, NTE amount of \$1,000K authorized by CM 323. This change increased the PMB by \$1,000K.
BCR-PRC-14-028R0	<i>FY2015 STP Impacts from DOE Funding and Priority Guidance</i>	This BCR defers the start of T-Plant Modification efforts until January 1, 2015 in PBS RL-0012 and RL-0013 as the current FY2015 Integrated Priority List (IPL) has impacted the baseline dates for the T-Plant Modifications. The delay in the start of these activities allows CHPRC time to work with RL to reach agreement on the path forward. Agreement on this path forward is required to enable preparation of accurate detailed planning for this PP. An additional BCR will be processed to reflect the agreed path forward. This BCR did not change the PMB value.
BCR-PRC-14-029R0	<i>Move Unused FY2014 Management Reserve</i>	This BCR moves \$1,900K of unused FY2014 MR to FY2015, for a net zero change. This BCR did not change the PMB value.

Change Request #	Title	Summary of Change
BCRA-011-14-007R0	<i>BOE Updates</i>	This BCR modifies the PFP Basis of Estimate (BOE) to resolve a DOE Review Comment Record (RCR) for the FY2014 PMB update. This BCR did not change the PMB value.

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

Management Reserve Activity

BCR Number	Title	Fiscal Year	MR
BCR-011-14-006R0	<i>PFP Demolition Equipment Realized Risk</i>	2014 - 2018	\$-2,000K
BCR-PRC-14-029R0	<i>Move Unused FY2014 Management Reserve</i>	2014 - 2018	\$0

Overall, Management Reserve decreased by \$2,000K.

Fee Activity

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

There were no changes to Fee during September.

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):

September 2014 Summary of Changes

	FYs 2009-2013	FY2014	FY2015	FY2016	FY2017	FY2018	FYs 2014-2018	Contract Period Total	Total PMB
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
September 2014 Change									
PMB									
Change to PMB	0	-103	8,574	121	0	-1,147	7,445	7,445	7,445
MR									
Change to MR	0	-1,952	-48	0	0	0	-2,000	-2,000	-2,000
Fee									
Change to Fee	0	0	0	0	0	0	0	0	0
Total Change	0	-2,055	8,526	121	0	-1,147	5,445	5,445	5,445
September 2014 Estimate									
PMB	3,391,477	391,653	447,453	430,578	368,545	368,469	2,006,698	5,398,175	5,398,175
MR	0	0	7,202	21,000	21,000	30,649	79,852	79,852	79,852
Fee	155,504	14,325	13,480	19,800	8,800	16,573	72,978	228,482	228,482
Total	3,546,981	405,978	468,136	471,378	398,345	415,691	2,159,528	5,706,509	5,706,509

Changes to/Utilization of Management Reserve in September 2014

	FY2009-2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2014-2018	Total
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
September 2014 MR Changes/Utilization								
RL-0011	0	-52	-1,948	0	0	0	-2,000	-2,000
RL-0012	0	0	0	0	0	0	0	0
RL-0013	0	-500	500	0	0	0	0	0
RL-0030	0	-750	750	0	0	0	0	0
RL-0040	0	-300	300	0	0	0	0	0
RL-0041	0	-300	300	0	0	0	0	0
RL-0042	0	-50	50	0	0	0	0	0
Total	0	-1,952	-48	0	0	0	-2,000	-2,000
September 2014 MR Totals								
RL-0011	0	0	1,052	8,000	8,000	0	17,052	17,052
RL-0012	0	0	2,000	3,000	5,000	3,897	13,897	13,897
RL-0013	0	0	1,000	2,000	800	6,824	10,624	10,624
RL-0030	0	0	1,750	3,000	2,500	8,828	16,078	16,078
RL-0040	0	0	700	1,500	1,800	4,000	8,000	8,000
RL-0041	0	0	600	3,450	2,800	7,000	13,850	13,850
RL-0042	0	0	100	50	100	100	350	350
Total	0	0	7,202	21,000	21,000	30,650	79,852	79,852

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 -9/30/2014				Projection to FY2018	
Reporting Category				Planned Subcontracting:	\$2,406,850,560
				Contract-to-date awards:	\$2,237,169,174
				Bal remaining to award:	\$169,681,386
	\$ Value	%	Goal %	Goal Award	Bal to Goal
SB	\$1,077,630,951	48.17%	49.3%	\$1,186,577,326	\$108,946,376
SDB	\$185,578,913	8.30%	8.2%	\$197,361,746	\$11,782,833
SWOB	\$211,652,692	9.46%	7.5%	\$180,513,792	-\$31,138,900
HUB	\$35,666,823	1.59%	2.2%	\$52,950,712	\$17,283,890
VOSB	\$125,382,703	5.60%	3.5%	\$84,239,770	-\$41,142,933
SDVO	\$60,906,401	2.72%	1.3%	\$31,289,057	-\$29,617,343
NAB	\$31,077,392	1.39%	N/A	PRC clause H.20 small business requirement ≥ 17% of total Contract Price performed by SB.	
Large	\$580,734,558	25.96%	N/A		
GOVT	\$2,170,959	0.10%	N/A		
GOVT CONT	\$572,866,522	25.61%	N/A		
EDUCATION	\$94,724	0.00%	N/A	Total Contract (mod 366):	\$5,696,680,278
NONPROFIT_	\$3,423,332	0.15%	N/A	17% rqmt:	\$968,435,647
FOREIGN	\$248,129	0.01%	N/A	SB actual:	\$1,077,630,951
Total	\$2,237,169,174	100.00%	N/A	Bal to rqmt	-\$109,195,303

Notes:

1. Since the CHPRC contract award in October 2008, CHPRC has subcontracted over \$2.2B in goods and services with over 48 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)



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Vice President for
PFP Closure Project

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CHPRC-2014-09, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

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

<i>Key Performance Indicators</i>	<i>Current Month</i>	<i>Contract To Date</i>
Glovebox/ Hood Removed or Dispositioned in Place	2	208 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	-	142 pencil tank units
Buildings Ready for Demo	-	40 structures
Buildings Demolished or Removed	-	40 structures
Non-radioactive Waste Shipped	1	43 m ³
TRU/TRU-M Shipped	4 m ³	1,400 m ³
LLW/MLLW Shipped	28 m ³	5,881 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 90 percent complete.

- Completed cleanout and prepared HC-7C glovebox for removal from E4 ventilation.
- Dispositioned HC-5 and HC-18BS gloveboxes to PermaFix Northwest (PFNW) for size reduction.
- Initiated external process isolations on HC-6 glovebox in 234-5Z Backside Rooms.
- Completed size reduction and seal out of 236-Z PRF Pencil Tanks 29/32 (9 Units).
- Separated the Miscellaneous Treatment (MT-1) glovebox from E4 ventilation.
- Made initial inspection entry into the 242-Z Americium Facility – first entry into the facility since May, 2011.
- Received RL approval of Revision 10 of the Plutonium Finishing Plant (PFP) Deactivation and Decommissioning Documented Safety Analysis (DSA), Revision 10 of the PFP Technical Safety Analysis (DSA), and Revision 11 of the HNF-11724 safety management programs.

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	Completed 9/30/14
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	Completed 10/2/14

TARGET ZERO PERFORMANCE

	Current Month	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	1	N/A
Total Recordable Injuries	0	4	N/A
First Aid Cases	2	51	<ul style="list-style-type: none"> • 9/9/2014 - Employee strained upper-back while cleaning out the floor area of the glovebox, packaging size reduction items. Employee was transferred to HPMC and returned to work with restriction. (23474) • 9/29/2014 - Employee struck his left knee on a square sheet metal duct resulting in a small abrasion. Employee was taken for a wound count then reported to HPMC for a zone dressing and was released to return to work with a zone bandage restriction. (23488)
Near Misses	0	0	N/A

KEY ACCOMPLISHMENTS

11.02 Maintain Safe & Compliant PFP

- Received RL approval of Revision 10 of the Plutonium Finishing Plant (PFP) Deactivation and Decommissioning Documented Safety Analysis (DSA), Revision 10 of the PFP Technical Safety Analysis (DSA), and Revision 11 of the HNF-11724 safety management programs. An implementation plan has been drafted and is in PFP management review.

11.05 Disposition PFP Facility

242-Z

- Made initial inspection entry into 242-Z on September 8 – first entry made into the Americium facility since May, 2011.
- Completed E3 ventilation modifications in 242-Z.
- Set up 242-Z control room and glovebox lighting.
- Inspected 242-Z control room fire suppression system.

RMC

- Completed external process and transfer line isolations, painted, and prepped HC-7C for removal from E4 ventilation.
- Dispositioned the HC-5 and HC-18BS gloveboxes to PermaFix Northwest for size reduction.

Backside Rooms

- Transferred glovebox HC-46F to PFP Waste Operations and removed from the building to ready for disposition.
- Initiated external process and transfer line isolations on HC-6 glovebox.

236-Z Plutonium Reclamation Facility (PRF)

- Pencil Tanks
 - Completed size reduction and seal out of Pencil Tank 29/32 (9 Units).
- Miscellaneous Treatment (MT) Gloveboxes
 - Separated the MT-1 glovebox from E4 ventilation.

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 has evaluated 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. A demonstration with a screw dispersal pump was completed in August.

Status – During the month of September Southwest Research Institute (SWRI) submitted the final report confirming the foam is nonflammable. In September, size reduction of the three demonstration glovebox sections commenced. A qualitative evaluation of the ability of the non-polyurethane foam to adhere to the glovebox is being developed and is anticipated to be issued to DOE in October.

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 comments being incorporated.
- Accident Analysis in-process.
- Control Decision Meetings being held to select controls.

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 consulted with the crane manufacturer for a second opinion. A work package was 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 performed and completed in 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-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 fiscal year 2015. 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-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 Revision 12 of the DSA. Revision 10 has been approved by DOE and is in the implementation process. Revision 11 has been submitted and is in the final signature cycle at DOE. Development of Revision 12 to the DSA is currently focused on completion of Control Selection and the Accident Analysis. Comments on the paper addressing revised ARF*RF values have been received and are being evaluated. Submittal of Revision 12 to DOE at the end of November, 2014 is predicated to be successful in resolution of the comments.

Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
RL-011/WBS 011				
PFP-092: Increased Characterization	Events at the facility may increase the need for characterization above what is planned for cost and schedule.			Characterization results for 234-5Z Duct Level have shown that some duct may remain in place with appropriate mitigation (e.g. isolation, fixative application, etc.). However, the data shows that a large amount of the pre-filter box duct will need to be removed prior to demolition. Current results provide valuable information that will alter our approach to ductwork characterization. Going forward the project will implement a more targeted approach by coupon sampling to determine duct removal to points in the system where coupons may begin to show lower activity, which would indicate no further removal would be required. This differs from the previous approach of mapping the system to determine the amount of material-at-risk in duct segments to determine mitigation and waste disposition.
PFP-074: Unexpected Configuration/Conditions	Unexpected facility configuration or site conditions are encountered during Cold & Dark, or demolition activities.			As a result of a realized risk in April, work packages which have similar demister pipe removal activities were immediately suspended pending investigation and incorporation of possible corrective actions. Mitigation actions were to perform hazard analysis of systems and document them in the work package. Stop work was lifted on June 17. 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. Planned entries were initiated in the month of September.
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 have developed work packages and completed field work preparation activities to support field work that started 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. No opportunities were identified in the month of September to characterize early. Characterization efforts are scheduled to begin December 2015.
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, and asbestos activities have been restarted. Work package development for removal of process equipment is slated to complete October, and field work supervisors are continuing to work on qualifications to deploy field teams in the duct level late October. 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 continue. As characterization unit survey plans are developed, they will be added to work packages. The Air Dispersion Model update for 234-5Z and 291-Z is scheduled to finish Jan-16, 2015; 242-Z April 16, 2015; 236-Z July 20, 2015.
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. Dose rate survey results were mapped on September 25th to obtain accurate dose results (unmitigated) to plan manual entries and grouting requirements.

<p>PFP-PRF-02: PRF Canyon Crane Reliability Issues Result in Cost/Schedule Growth</p>	<p>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.</p>			<p>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>
<p>PFP-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 is work that 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. Grouting contract is expected to initiate February 2015, and field activities to start November 2015.</p>
<p>RMA/RMC Glovebox Removal Risks</p>				
<p>OPPORTUNITY: PFP-GB-01A: High Gram Box Disposition - FOAM</p>	<p>The responsibility for the implementation on the use of expanding foam at PFP has been assigned to personnel within the PFP Special Projects organization and is essentially being managed as a project. Lessons learned from other DOE sites that have used expanding polyurethane foam for similar applications are being used to facilitate implementation at PFP. The Risk Evaluation Board (REB) will be used to employ senior management personnel from CHPRC and DOE-RL to help resolve any significant issues associated with the use of foam.</p>			<p>Efforts continue under the special projects organization to implement the foaming initiative to foam selected components throughout 234-5Z and 236-Z. In the month of 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 Southwest Research Institute (SWRI) submitted the final report confirming the foam is nonflammable. In September size reduction of the three demonstration glovebox sections commenced. A qualitative evaluation of the ability of the non-polyurethane foam to adhere to the glovebox is being developed and is anticipated to be issued to DOE in October.</p>
<p>PFP-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>Field teams incorporated lessons learned from similar work that has previously been performed at PFP. This risk will continue to be reported until HC-9B is isolated ECD December 2014.</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	12.5	10.9	11.7	(1.7)	-13.3%	(0.8)	-7.7%

Numbers are rounded to the nearest \$0.1M

CM Schedule Variance: (-\$1.7M/-13.3%)

The current month negative schedule variance is attributed to delay of disposition of waste to PermaFix Northwest for size reduction caused by project's decision to leave gloveboxes in place until such time that the facility is in a ready for demolition status. This eliminates the need for unnecessary facility modifications to remove the gloveboxes at this time. In addition, the duct level characterization team was reassigned to perform critical path work in the 236-Z facility while work package development for work on E4 ducting and asbestos removal activities in the duct level were being performed. The project's previous year decision to change the sequence of when field work would begin on the 242-Z project resulted in preparations and initial entries that were planned to be worked early in Fiscal Year 2014 to be executed 11 months past their original planned start date. For the month of September, the 242-Z field work team made their initial entry and performed preventive maintenance functions to support the planned follow-on work activities associated with gloveboxes located in the 242-Z control room. Delay of disposition of waste to PermaFix Northwest for size reduction caused by project's decision to leave gloveboxes in place until such time that the facility is in a ready for demolition status and project management activities that are apportioned to completing discrete D&D work scope are also contributing to this variance. The negative variance is partially offset by completing behind schedule work in 234-5Z RMA/RMC lines, 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, and receipt of large pieces of demolition equipment planned to be received earlier in the year.

CM Cost Variance: (-\$0.8M/-7.7%)

The current month negative cost variance is associated with underestimating the number of pieces of demolition equipment and their associated attachments that would be required to support the demolition of the PFP facility. This resulted in procurement of two additional excavators with attachments and two additional front end loaders. In addition, apportioned project management activities resulting in a constant staff providing support services while schedule performance on discrete D&D work scope is lagging. The negative cost variance is partially offset by unexpected FY 2014 passbacks associated with CHPRC labor, waste, MSA Labor, Fleet, Hammer Training, and Janitorial Services.

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	731.9	699.2	736.9	(32.7)	-4.5%	(37.7)	-5.4%	937.4	966.8	(29.4)

Numbers are rounded to the nearest \$0.1M

CTD Schedule Variance (-\$32.7M/-4.5%)

The Schedule Variance is within reporting thresholds.

CTD Cost Variance (-\$37.7M/-5.4%)

The negative cost variance is primarily a result of prior year unrecoverable costs as well as FY 2013 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 (-\$29.4M/-3.1%)

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	95.8	11.0

Numbers are rounded to the nearest \$0.1M

Funds/Variance Analysis

Projected Funding remained at \$106.8M. The spending forecast was reduced from \$96.5 to \$95.8 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-I & 291-Z Facilities* – and kicks off demolition of the 242-Z/242-ZA and 236-Z facilities leading to completion of the final TPA milestone – M-083-00A, *PFP Facility Transition and Selection Disposition Activities*.

Baseline Change Requests

BCR-011-14-006R0 - *PFP Demolition Equipment Realized Risk*

BCR-011-14-008R0 - *Implementation of PFP Zone Strategy*

BCRA-011-14-007R0 - *BOE Updates*

BCR-PRC-14-029R0 - *Move Unused FY2014 Management Reserve*

BCR-PRC-14-030R0 - *Pension Adjustment*

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		11/3/16	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		12/12/16	The PFP Project continues to make progress on the behind schedule critical path work scope being performed. However, 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
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September 2014
CHPRC-2014-09, 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 Preliminary Documented Safety Analysis for the Sludge Treatment Project Engineered Container Retrieval and Transfer System and the Sludge Treatment Project Safety Design Strategy* Letter was issued to RL. Submitting the Preliminary Documented Safety Analysis to RL satisfies the completion/rating criteria for Performance Measure (PM)-12-02-2K.1b. Procurements for the ECRTS Project has awarded fabrication contracts for five procurement sets with varying scheduled deliveries throughout FY2015. The Sludge Transport and Storage Container (STSC) vessel procurement is on track to award in October.
- The Integrated Process Optimization Demonstration (IPOD) - Approved and issued the IPOD Test Report on September 25, 2014. Issuance of this document satisfies the completion/rating criteria of Performance Measure (PM)-12-02-2K.1a. Completed removal of ECRTS test bed instrumentation and sent out for post demonstration calibration.
- Maintenance and Storage Facility (MASF) - continued training at the facility for operations staff to become familiar with the ECRTS equipment and processes.
- Construction completed; structural steel punchlist, spray application of fire coating of steel members and epoxy coatings in the low bay, placed heat pump on its pad, temporary wall panels around hose-in-hose shielded chase, the installation of the outside catwalk and initiated installation of EPDM roofing system. In-Basin construction progressed well as the fiscal year closed out. Construction completed the fieldwork for removing interferences for the future installation of Panel 103 and the Facility Modification Package (FMP) for removing the top two sections of the ECs.
- RL has notified CHPRC that CHPRC-02150, *Equivalency Request for the Hazardous Material Requirements Associated with the Receipt, Handling and Storage of Sludge in T Plant Process Cells* is not acceptable as written. RL provided comments for CHPRC to address and a meeting to was held on September 22, 2014 to discuss the comments. CHPRC took the action to revise the equivalency request based on the discussions in the meeting and will re-submit it to RL for approval.

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

KEY ACCOMPLISHMENTS

- CHPRC Issued CHPRC-1403888 – The Preliminary Documented Safety Analysis for the Sludge Treatment Project Engineered Container Retrieval and Transfer System and the Sludge Treatment Project Safety Design Strategy for RL approval. This completes Performance Measure (PM)-12-02-2K.1b.
- The IPOD Test Report was approved by the STP Joint Test Group (JTG) and issued on September 25, 2014. This completes Performance Measure (PM)-12-02-2K.1a.
- Grant construction completed the fieldwork for removing interferences for the future installation of Panel 103.
- KW Annex Construction Completed:
 - o final item on structural steel engineering punch list,
 - o spray application of the field fire coating of steel members,
 - o epoxy coatings application in the low bay,
 - o concrete sealer on the walls in the low and intermediate bays,
 - o Placement of outside Heat Pump (Chiller) on the pad,
 - o installation of Wall Panels (temporary panel) around the outside hose-in-hose (OHIH) shielded chase – working punch list walk down items
 - o stripping of form work for OHIH side shielding,
 - o submittal reviews to allow installation of the EPDM roofing system, and
 - o Installation of the outside catwalk on the Low Bay roof.
- 100K Operations completed RV-11 motor replacement, skimmer weir cleanout and backwash of sand filter, 6-month leak mitigation inspection and tie-in for new lighting in Room 16 at 105KW.
- Maintenance and Storage Facility (MASF) - repaired HVAC chiller oil pressure line; replaced/re-installed thrown belt(s), completed fabrication of rupture disk fixture so that operations during two retrieval system operation required for sludge "layering" in a STSC can be performed during training at MASF and the filter media washing in preparation for reloading into the ECRTS sand filter, and performed "dry" demonstration lift of top two sections of ½ length Engineered Container (EC) mockup using engineered lifting devices.

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.			PDSA incorporating the results of supporting analyses and design changes developed to incorporate ECRTS process system nuclear safety initiatives implementation was issued and RL review 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-084: T-Plant Transition from Min-Safe Takes Longer than Planned	Initial activities to support the Sludge Treatment Project at T-Plant should include performance of critical assessments/inspection of facility support systems such as fire, ventilation, crane, and electrical to determine condition. Existing spare parts are adequate to ready to support the STP project.			STP schedule analysis identified T-Plant construction support as critical to the overall success to the project. Accelerating T-Plant preparations for construction may enhance the risk mitigation strategy.
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.			FY2014 buy-back In-Basin Construction work scope was completed. Currently requesting approval from RL to proceed with accelerating FY2016 construction activities.
STP-ANX-020: Contractor/Subcontractor Performance	Mitigation strategy is to provide extensive oversight on subcontractors work scope. Implement a Corrective Action Plan for contractor to implement to address shortfalls in performance. Closely coordinate, plan, and monitor construction using detailed field schedules to minimize impacts.			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.

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	5.4	7.8	10.1	2.5	46.2%	(2.3)	-29.2%

Numbers are rounded to the nearest \$0.1M

CM Schedule Performance (+\$2.5M/+46.2%)

Variance is due to performance of accelerated work scope with buy-back funds, this work scope includes ECRTS Procurement of process equipment and Annex Construction shell completion.

CM Cost Performance (-\$2.3M/-29.2%)

Variance is primarily due to changes and claims on the construction work scope for the Annex Construction Project. Claims are based on loss of productivity, fire proofing applications, swing shift and OT support and sequestration impacts, these claims have not negotiated to final value yet.

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	437.7	443.9	456.9	6.2	1.4%	(13.0)	-2.9%	692.6	726.6	(34.0)

Numbers are rounded to the nearest \$0.1M

CTD Schedule Performance (+\$6.2M/+1.4%)

Variance is within reporting thresholds.

CTD Cost Performance (-\$13.0M/-2.9%)

Variance is within reporting thresholds.

Variance at Completion (-\$34.0M/-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	69.1	3.1

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

BCR-PRC-14-028R0 - *FY2015 STP Impacts from DOE Funding and Priority Guidance*

BCR-PRC-14-006R0 - *Annex General Contractor Construction Rebaseline Alignment with PMB*

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)



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September 2014
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Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

The Waste and Fuels Management Project (W&FMP) continued maintaining facilities in a safe and compliant condition. Overall, the project is delivering planned efficiencies but continues to be impacted by emerging work and realized risks. Effluent Treatment Facilities (ETF) conducted tours for DOE-HQ staff and WRPS Senior Management. Liquid Effluent Facilities (LEF) received 10 tankers – a total of 42K gallons (containing various waste water streams; e.g. Mixed Waste Burial Trench leachate, Ground Water perched water, and Tank Farms condensate). Completed the Engineering Design for the Waste Encapsulation and Storage Facility (WESF) K3 Ventilation System (FY 2014 Key Performance Goal). The project also transmitted remaining FY 2014 deliverables to RL for the Extended Storage Preparations for Cs/Sr Capsules Project. The Central Waste Complex (CWC) shipped one fiberglass-reinforced plywood box – 54.4m³ Transuranic/mixed (TRU/M) to Perma-Fix Northwest (PFNW), which included 2.2m³ of which when repackaged, will complete TPA milestone M-091-44T. Two Naval reactor compartments from the USS New York City SSN 696 and USS Cincinnati SSN 693 were received for disposal in Trench 94.

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	Complete – 9/30/14

TARGET ZERO PERFORMANCE

	CM Quantity	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	0	N/A
Total Recordable Injuries	1	1	<ul style="list-style-type: none"> 9/11/14 - Employee tripped and fell landing on hand and knee. The worker was determined to have a fractured finger. Body part affected: Finger (23475)
First Aid Cases	1	33	<ul style="list-style-type: none"> 9/23/14 - Employee was working in a crowded office and struck wrist on the corner of a desk. Body part affected: Wrist (23473)
Near Misses	0	0	N/A

KEY ACCOMPLISHMENTS

13.01 Project Management

- Continued Project Management support for high priority projects

- Completed implementation of baseline changes to incorporate DOE-directed changes and updated baseline status file to reflect FY2015 funding and priorities as documented in the FY2015 Integrated Priority List (IPL)

13.02 Capsule Storage & Disposition

- Completed:
 - o 44 Preventive Maintenance (PM) work packages
 - o Technical Safety Requirement (TSR) Surveillances
 - o Radiological (Rad) surveillances
 - o Operational surveillances
- Performed:
 - o Annual Beta Monitor calibrations/30 Day Beta Monitor Loop verification
 - o Annual Manipulator Lateral Rotation verification
 - o Annual Calibration of K3 Filter Differential Pressure Transmitters
 - o Annual verification of no Cesium Capsule/Rack near Pool Cell End Wall(s)
 - o Annual Maintenance on Van Air Dryer System and removed/packaged desiccant
 - o 30 day Functional Testing of Pool Cell Weight Factor Indicators and Transmitters
 - o Canyon Entry Work - initial Radiological Surveys, Radiological Characterization Samples, Packaged and removed Low Level Combustible Soft Waste, Obtained Still Pictures and Video, and Engineering Visual Structural Evaluation of canyon
 - o Annual Calibration of K3 Exhaust Duct Pressure Switch
 - o Semi-Annual/Quarterly Calibration of pool cell Weight Factor Alarm Switch
 - o Secondary testing of 1600 amp breaker in support of replacing No.1 main breaker F8X24
- Replaced K3 HEPA Filter/Pit RIT's Components
- WESF Stabilization and Ventilation Project (W-130):
 - o Transmitted to RL the Change Proposal for detailed design and preparation of the WESF for the construction phase
 - o Completed WESF FY2014 Key Performance Goal
 - Complete the Engineering Design for the WESF K3 Ventilation System
 - o Transmitted FY2014 deliverables to RL
 - Project Execution Plan
 - Functions and Requirements Document
 - Functional Design Criteria
 - Conceptual Design Report
 - Environmental Permitting Strategy
- Extended Storage Preparations for Cs/Sr Capsules (W-135):
 - o Transmitted FY2014 deliverables to RL
 - Acquisition Planning Document
 - Project Execution Plan
 - Request for Proposal
 - o The project was placed on hold pending RL authorization to proceed and identification of associated required funding

13.03 Canister Storage Building (CSB)

- Continued Multi-Canister Overpack (MCO) monitoring program.
- Completed:
 - o Annual Exhaust Stack Converter/Flow Control Loop Calibration
 - o 46 Preventive Maintenance (PM) work packages
 - o Quarterly Technical Safety Requirement (TSR) MHM Channel Checks
 - o Annual Coffing Hoist Inspection
 - o Quarterly Exhaust Mass Flow Controller Inspections

- o Two-year Mega Door inspection and maintenance
- o Five-year MCO MHM reeling drum
- o Semi-Annual Wire Rope inspection

13.06 TRU Repackaging

- o Shipped (75 DMA 20 F8) large Fiberglass-Reinforced Plywood waste box - 54.4m³ TRU/M - from Outside Storage Area A to PFNW on September 17, 2014 during scheduled road closure
 - When repackaged this fulfill the remaining 2.2m³ required to complete TPA Milestone M-91-44T

13.07 Waste Receiving and Processing Facility (WRAP)

- Performed/Completed:
 - o Annual Dwyer calibrations for Zone 11 Low Pressure Differential Indicator Switches
 - o Six month glovebox Ansul® discharge panel test and inspection
 - o Shipment of nine hazardous waste drums (expired chemicals) off-site
- Surveillances/PMs:
 - o 21 TSR surveillances
 - o 23 PM packages
 - o 92 Rad surveillances
 - o 49 Operational surveillances

13.08 T Plant

- Completed:
 - o Annual calibration of 2706T and 2706-TA Pressure Differential instruments, transmitter, and controller
 - o Annual 2.4KV transformer inspection
 - o 291T one year Inspection Stack Probe and Sample Line Inspection
 - o Defense Nuclear Facilities Safety Board (DNFSB) tour related to seismic analysis of 221T and 271T
- Surveillances/PMs
 - o 11 TSR surveillances
 - o 346 Rad surveillances
 - o 40 PM packages
 - o 118 Operational surveillances

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

- Performed/Completed:
 - o Annual Material Balance Area (MBA) management assessment for MBA 295 (2402-WG)
 - o MBA 292 Inventory with RL & MSA Safeguards
 - o Annual calibration for level indicators and transmitters at Mixed Waste Trench (MWT) 31/34
 - o Pre-award visit to vendor of the IP-1 Bag (used for 231-ZDR-11) to assess implementation of its QA Program
- Surveillances/PMs:
 - o 14 TSR surveillances
 - o 29 PM packages
 - o 224 Rad surveillances
 - o 79 Operational surveillances
- Shipments:
 - o Received three shipments totaling eight standard waste boxes

13.11 Liquid Effluent Facilities (LEF)

Effluent Treatment Facilities (ETF)

- Completed Quarterly State of the Project meetings
- Conducted tour of ETF and Liquid Effluent Retention Facility (LERF) for DOE-HQ staff
- Conducted tour of ETF and LERF for WRPS Senior Management
- Continued to support WRPS and its subcontractor on their performance of an “Extent of Condition” review to enable WRPS to develop a plan to transition ETF to WRPS
- Supported 242-A evaporator initial startup run
- Pumped all Waste Sampling and Characterization Facility (WSCF) drums to LERF Basins
- Replaced transmitter and completed calibration of Pump Station #3 at Treated Effluent Disposal Facility (TEDF)
- Completed:
 - Semi-annual Preventive Maintenance (PM) on 291 Load-In pumps
 - Annual stack sampler pressure indicator calibration
 - Motor Control Center (MCC) #4 six year cleaning, inspection and beryllium sampling
 - Annual Vessel Off-gas (VOG) High-Efficiency Particulate Air filter (HEPA) inspection
 - Annual air sampler calibrations
 - Quarterly lab hood air flow testing
 - Quarterly Local Control Unit (LCU) cabinet cleaning
 - Annual portable HEPA filter dP calibrations
 - Biennial sump level switch calibrations
 - Biennial HEPA filter inlet temp calibration

LERF Basin Cleanup

- Completed cleaning, inspection, and air operating permit quarterly and annual surveillances on all three basins

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	0	167,366	0	136,015	4,000	22,500	100%	Complete
43	0	18,380	0	60,100	0	0	100%	Complete
44	0	245,402	0	141,241	0	23,900	100%	Complete

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

- Continued conceptual and preliminary designs
- Worked on development of the Project Execution Plan
- Worked on acquiring required site permits

Effluent Treatment Facilities (ETF)

- Shipped two secondary waste drums to Diversified Scientific Services, Inc. (DSSI) for treatment
- Received 10 tankers containing a total of 42K gallons of miscellaneous waste water streams (e.g. Mixed Waste Burial Trench leachate, Ground Water perched water, and Tank Farms condensate) for treatment, for a total of 350K gallons received in FY2014
- Treated effluent to State-Approved Land Disposal Site:
 - 0.0M gallons (1.9M FY)
- Discharged to 200A TEDF:
 - 106M gallons (289M FY)

- Received ERDF Leachate
 - 142K gallons (1.92M 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
 - 25 Rad surveillances
 - Five Operational surveillances
- Shipments:
 - Received one shipment totaling one waste packages of processed/treated M/LLW from PFNW

Work for Others

- Received two Naval reactor compartments in Trench 94 for disposal; USS New York City SSN 696 and USS Cincinnati SSN 693

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: Repair liner.

Status: Work Package to repair scheduled for October 1, 2014

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. Additional shipments and repackaging were included in the FY 2015 IPL, but currently fall below the available funding line.

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 is complete . Updated permit requirements include quarterly removal of soil and vegetation and complete inspection of the covers.
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. While some repairs are possible due to location, some require additional/ongoing strategy development. Schedule developed to address CWC repair items 2706-T fire barrier repair work initiated. Scaffold erection and asbestos testing is planned for October 2014. 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.
WSD-W135-01: Cs/Sr Capsule Extended Storage Acquisition Planning Document Approval	Teaming with DOE is incorporated into the baseline to identify and incorporate new requirements. However, if additional requirements are identified, the additional scope to add to planning and subsequent flow-down is not included within the work planning.	●	↓	Developing the planning associated with the project has been deferred until December. Deferral increases the likelihood that a delay to the acquisition planning may be delayed.

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	8.8	9.2	7.0	0.3	3.9%	2.2	24.5%

Numbers are rounded to the nearest \$0.1M

CM Schedule Performance (\$0.3M/+3.9%)

The current period schedule variance is within threshold.

CM Cost Performance (+\$2.2M/+24.5%)

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	879.1	881.2	845.8	2.1	0.2%	35.4	4.0%	1,344.3	1,253.6	90.6

Numbers are rounded to the nearest \$0.1M

CTD Schedule Performance (+\$2.1M/+0.2%)

The schedule variance is within threshold.

CTD Cost Performance (+\$35.4M/+4.0%)

The cost variance is within threshold.

Variance at Completion (+\$90.6M/+6.7 %)

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	75.5	8.3

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 \$78.5 to \$75.5 is primarily the result of passbacks (reductions in cost) associated with over liquidations of labor, G&A, and MSA-provided services.

Critical Path Schedule

Critical path analysis can be provided upon request.

Baseline Change Requests

BCR-PRC14-029R0 - *Move Unused FY2014 Management Reserve*

BCR-013-14-016R0 - *WESF Stabilization and Ventilation Project Design Finalization and Const. Prep*

BCR-013-14-017R0 - *Detailed Planning for ETF Heat Exchanger Replacement*

BCR-013-14-018R0 - *CS/SR Planning Package Deferral*

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



K. L. Wiemelt
Vice President and
Project Manager for
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M. N. Jaraysi
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Environmental Program
and Strategic Planning

September 2014
CHPRC-2014-09, 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, groundwater treatment, and well drilling completed in September 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	24.3	305.1	13.1	218.2	-	-	-	-	-	-
HX P&T	20.6	315.7	1.6	23.9	-	-	-	-	-	-
KR-4 P&T	3.5	134.1	0.1	5.0	-	-	-	-	-	-
KW P&T	12.4	150.2	2.4	15.2	-	-	-	-	-	-
KX P&T	24.9	290.5	1.9	24.6	-	-	-	-	-	-
200 West P&T	51.2	753.9	4.5	72.3	161	2,796	3,454	52,943	.112x10 ¹²	1.18x10 ¹²
Combined	137.0	1,949.5	23.7	359.2	161	2,796	3,454	52,943	.112x10¹²	1.18x10¹²

Sampling	September	FY2014 Cumulative
Well Sampling Events	210	2,362
Aquifer Tube Sampling Events	48	548
Total Number of Sampling Events	258	2,910
Samples Collected	971	10,220
Analyses Performed	1,832	18,110

Well Drilling by Area	September	FY2014 Cumulative
Perched Water	-	2
100-BC-5	-	8
M-24	-	3
200-ZP-1	2	4
Modutank	-	1
100-KR-4	-	6
100-HR-3	-	4
Total Wells Drilled	2	28

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	Complete
		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	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
		The volume of contaminated groundwater that is treated as measured in gallons.	Monthly	1.9B gallons treated through 9/30/14
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	Removed
		This target will be met upon submittal of TPA Change Notice to RL, EPA, and Ecology.	Status at completion	Removed

TARGET ZERO PERFORMANCE

	CM Quantity	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	0	N/A
Total Recordable Injuries	1	3	9/30/2014 – While working at the 200 West P&T, employee stood on a pump pedestal in order to obtain a measurement. Employee then lost balance and dislocated shoulder when grabbing on to a nearby scaffold rail. The employee was transported to Kadlec Medical Center for evaluation. (23489) S&GRP
First Aid Cases	5	32	<p>9/2/2014 – Employee got foreign body in eye while grinding steel. Employee was referred to vision clinic and then released back to work with no restriction. (23470) S&GRP</p> <p>9/3/2014 – Employee received cut to arm while working with a purge water truck at the modutanks. Employee was seen at HPMC, treated, and released back to work with minor restriction. (23471) S&GRP</p> <p>9/5/2014 - Employee was attempting to remove a well cap from groundwater well. The well cap came off the well and fell, striking the employee's right shin on upper part of his ankle. The injury was reported immediately to his supervisor and the employee was seen at HPMC. The employee returned to work without restrictions. (23472) S&GRP</p> <p>9/15/2014 – Employee disembarked from boat after aquifer tube sampling and lost balance and fell onto right arm and back when the boat shifted. Employee was taken to HPMC, treated with over the counter medication and returned to work without restrictions. (23477) S&GRP</p> <p>9/22/2014 – Employee developed elbow pain from cumulative work tasks. The employee was evaluated at HPMC, given a cold pack, soft splint and released to work with a restriction. (23483) S&GRP</p>
Near- Misses	1	3	9/29/2014 - A S&GRP drilling contractor was back-pulling construction well casing at a well under construction using a choker hitch nylon sling configuration. The casing section was ten feet long approximately eight inches in diameter and weighing approximately 450 pounds slipped from the choker and fell approximately two feet to the ground. There were no injuries, and only minor equipment damage was incurred.

KEY ACCOMPLISHMENTS

RL-0030.O1 RL 30 Operations RL 30 Integration & Assessments Strategic Integration

- Completed development (with RL coordination) of the Central Plateau Principles which are being incorporated into individual CERCLA work plans. Parameters are being revised per RL feedback. Materials are being prepared for presentation of the Principles and Parameters to the Hanford Advisory Board.

Risk & Modeling Integration

- Briefed RL and demonstrated the process for calculating Preliminary Remediation Goals (PRGs) in the Central Plateau.
- Submitted letter with attachments of deliverables to RL for the work under Contract Modification 352, Change Order 258 NTE for Integrated Disposal Facility Performance Assessment (IDF PA) planning phase activities in FY2014.
- Deployed the Hanford Groundwater Report Interactive Viewer. Groundwater Reports are now available to the public in a web-tool delivery that includes powerful interpretative tools.
- Conducted project overview meeting with Washington State University Tri-Cities student team for project to develop a scoping telescopic mesh refinement (TMR) model for the 100-K Area as a learning exercise. Modeling Support Project Plan approved by CHPRC and WSU-TC and discussed with RL.

WSCF Closure

- Contracts for Environmental and IH analytical services have been placed with eight offsite labs.

River Corridor**100-NR-2 Operable Unit**

- Submitted final Rev 1 Interim Action Remedial Design/Remedial Action Work Plan (RD/RAWP) to RL.

100-HR-3 Operable Unit

- Transmitted the Rev 0 100-HR-3 RI/FS report to RL on September 30, 2014.
- Transmitted the Draft A Monitoring Plan (SAP) to RL on September 22, 2014.

100-FR-3 Operable Unit

- Record of Decision was signed by RL and EPA on September 30, 2014.

300-FF-5 Operable Unit

- Submitted Rev 0 300 Area Integrated RD/RAWP and groundwater addendum to RL on September 15, 2014.

Central Plateau**200-IS-1 Operable Unit**

- Conducted RL and Ecology waste site scoping summary reviews on September 9, 25, and 29, 2014.
- Provided RL with updates to TPA Change Package C-13-01 and new Change Package C-14-02 on September 16, 2014; these change packages add 230 waste sites to 200-IS-1 Operable Unit and corrects/removes TSD designation on 10 waste sites.

200-UP-1 Operable Unit

- Issued the design for the Balance of Plant uranium extraction system.
- Initiated design of the Iodine-129 hydraulic containment system.
- Transmitted Rev 3 of the 200 West P&T O&M Plan incorporating the 200-UP-1 uranium system to RL with EPA's approval.

200-BP-5 Operable Unit

- Issued Functional Requirements for Connecting the 200-BP-5 Extraction Well to the 200 West Pump and Treat System, SGW-58220.

200-PO-1 Operable Unit

- Completed a second workshop with Ecology on September 9, 2014, and RL transmitted the Draft A Groundwater Sampling and Analysis Plan for the 200-PO-1 Operable Unit to the regulators for review.

200 West P&T

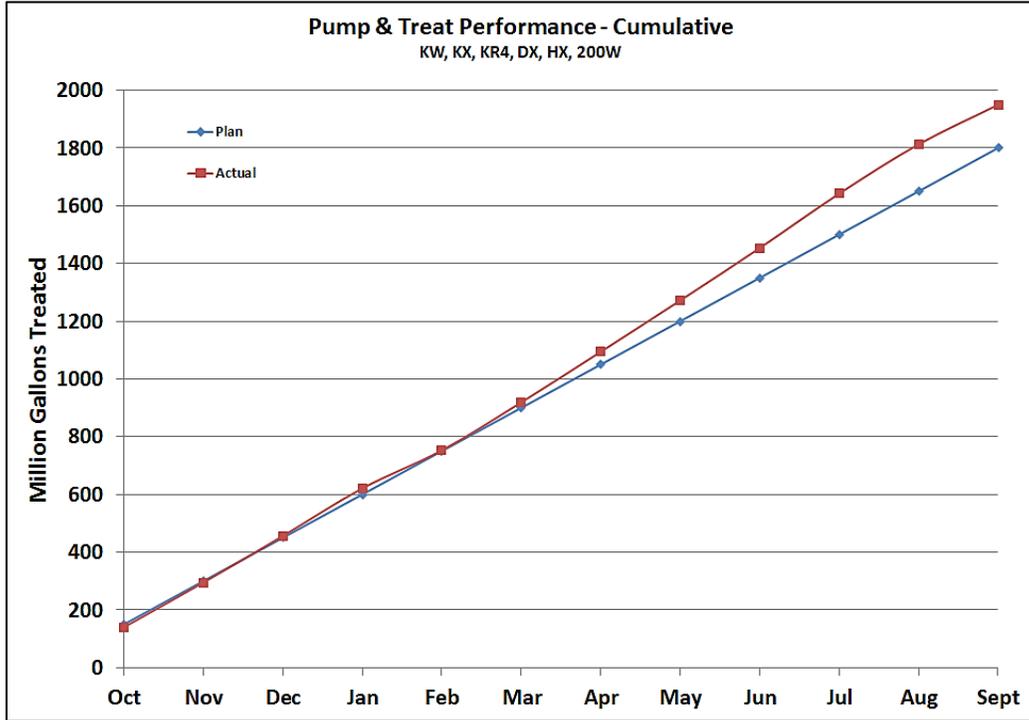
- Average pumping rate for September was 1,216 gpm. The reduced flows were due to plant downtime for operational improvements and bringing new injection/extraction wells on line.
- Effluent concentrations remain below cleanup levels specified in ROD.

200-DV-1 Operable Unit

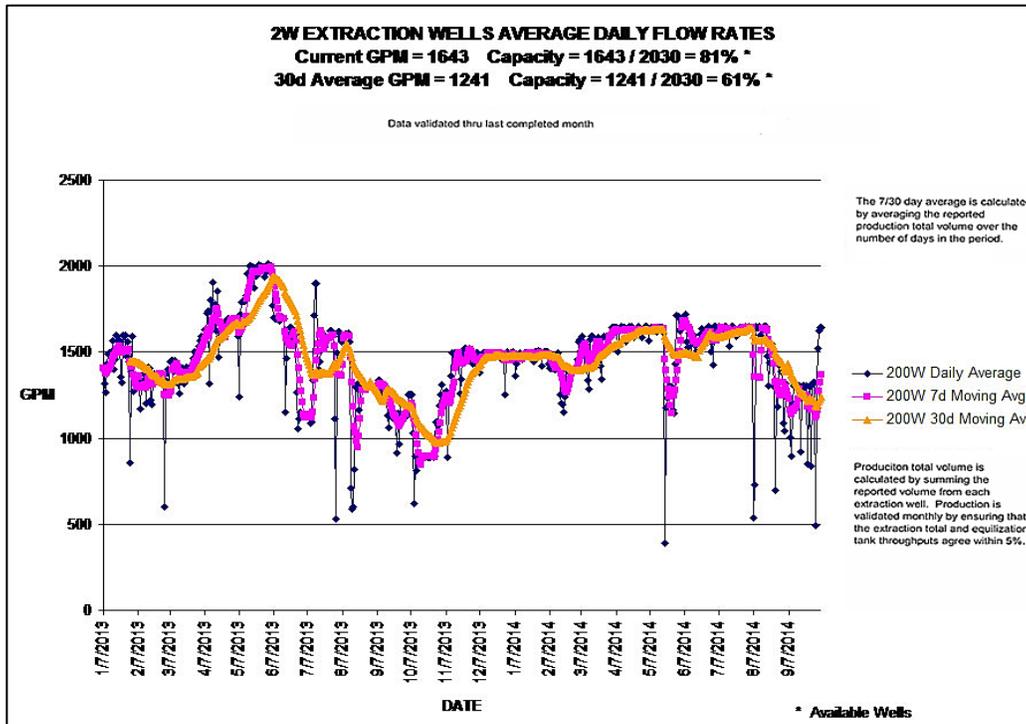
- The B Area perched water extraction system removed 6,645 gallons in September, bringing the total volume of perched water removed to 233,141 gallons since initiating operations on August 30, 2011. The following quantities of contaminants were removed for the month of September:

Contaminant	September	Cumulative (since startup)
Tc-99	1.1 E-04 Ci	28.8 E-03 Ci
Uranium	2.0 kg	49.1 kg
Nitrates	14.6 kg	466.9 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 in 2014. The work is also deferred out of 2015 for planning purposes.

Corrective Action – Continue to work the CRR 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 CRR and MOA. Due to this delay, actions were completed to defer installation of the 100-NR-2 apatite barrier until FY2016 or beyond. This project will be reviewed for funding once cultural issues are resolved. Since this scope has been deferred, this issue will be removed from the monthly report.

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; 3) working extra hours during the week to complete certain work evolutions (i.e., during grouting, surging, or well development); and 4) working a second shift to expedite the settling of the sand pack on YJ-7. 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 completed in August and YJ-9 was successfully completed by end of September along with the back-up well, YJ-24. Four out of the five wells were completed as required by the FY2014 Pump and Treat Optimization Plan. Well YJ-7 has not been completed by end of September and has issues that will require further technical discussions before a path forward is developed.

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-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 verbally 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 – 7). 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.</p>
<p>SGW-004: Cultural Resource Reviews</p>	<p>Obtain cultural/ecological reviews before design progresses. Walk downs with cultural resource review teams (tribal, RL, 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 began in September to better coordinate the cultural review process. Early identification of FY15 work scope has also allowed the cultural review process to begin early.</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 FY2016 or later. In addition, CHPRC mitigated cost impacts by returning procured chemicals but took delivery of 12 associated tanks which will be used for 300 Area uranium sequestration.</p>
<p>OPPORTUNITY: SGW-007A: Sampling Requirement Reduction 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>The Optimization Plan to Revise the Groundwater Sampling Plan is final and provides the roadmap to revise all groundwater SAPs over the next two years. In accordance with this plan, two SAPs (100-HR-3 and 200-PO-1) were completed on schedule. Several other SAPs are in development and are being coordinated with RL for the SAP Panel Review.</p>
<p>SGW-159: Ability to Maintain Flow Rates through Pump and Treat Units</p>	<p>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.</p>			<p>Several new injection and extraction wells were hooked up at the end of September and are expected to increase flow rates in October. Additional injection and extraction wells have also been identified in FY2015 that will improve flow rates through the pump and treat units.</p> <p>Even though several actions were completed in September that will improve flow rates, the risk assessment was changed from green to yellow from the previous month due to the low flow rates that were observed in September.</p>

Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
RL-030/WBS 030				
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 is operating as designed. The 200 West P&T is continuing to experience higher than planned maintenance costs due to foaming issues with bioreactors and care to prevent bio-fouling.

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	13.6	11.8	13.2	(1.8)	(12.9)	(1.4)	(11.7)

Numbers are rounded to the nearest \$0.1M.

CM Schedule Performance (-\$1.8M/-12.9%)

The negative schedule variance resulted from the following:

- 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.
- Schedule variance earned for accelerated sample collection, analysis, and data management earlier this FY returned to zero.
- Additional required drawings and modifications increased the duration of the design effort of the uranium treatment system as the design progressed to the 90% design phase. Change in design has contributed to pipe procurement delays and will also increase the time needed for pipeline construction.
- This is offset, in part, by positive schedule performance obtained by initiating drilling of FY2015 200-ZP-1 wells (authorized with buyback funds).

CM Cost Performance (-\$1.4M/-11.7%)

The negative cost variance resulted from the following:

- Construction cost associated with adding pretreatment to the KR-4 P&T facility in order to accommodate a recently drilled well with a very high chromium concentration. These facility modifications were not planned.
- The design contract for the UP-1 Balance of Plant was increased to pay for additional required

drawings and design modifications, thus increasing the cost of in-house engineering to review and approve the design drawings.

- The project purchased more material and resin than planned for the KR-4 and KW P&Ts.
- A larger chemical purchase was made this month to support the increasing pumping rates at the 200-W P&T. In addition, the cost of material and subcontracts for injection well hook up was greater than planned.
- These values were offset, in part by a positive cost variance against the groundwater laboratory analysis and data management account due to savings realized by using offsite analytical laboratories resulting in overall lower cost of analyses and an accrual reconciliation this month.

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	1,016.4	1,014.1	1,002.6	(2.3)	(0.2)	11.5	1.1	1,514.2	1,463.7	50.5

Numbers are rounded to the nearest \$0.1M.

CTD Schedule Performance (-\$2.3M/-0.2%)

Variance is within reporting thresholds.

CTD Cost Performance (+\$11.5M/+1.1%)

Variance is within reporting thresholds.

Estimate at Completion (EAC)

The Estimate at Completion change from the previous month is within reporting thresholds.

Contract Performance Report Formats are provided in Appendix A.

FUNDS vs. SPEND FORECAST (\$M)

RL-0030 Soil and Groundwater Remediation	FY2014		
	Projected Funding	Spending Forecast	Spend Variance
RL-0030	121.0	104.5	16.7

Numbers are rounded to the nearest \$0.1M.

Funds/Variance Analysis

Projected Funding remained unchanged at \$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 Requests

BCR-030-14-022R0 – *Move PW-1/3/6 RD/RAWP from CLIN 7 to PMB*

BCR-030-14-023R0 – *CO#257 Design Install & O&M of Hydraulic Containment Wells for I-129 at 200-UP-1 OU*

BCR-030-14-024R0 – *Detailed Planning for 100-HR-3 D&D*

BCR-030-14-025R0 – *Definitization of CO #250, 100-D-100 Waste Site Soil & GW Investigation*

FY2014 Management Reserve (Funded): \$0.75M

No FY2014 Management Reserve was used during September.

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-091-40L-043	PMM Submittal Apr-Jun 3rd Qtr. FY2014 Burial Ground Sample Results	TPA	9/15/14	8/28/14		Complete
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		6/9/15	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-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		11/25/14	On schedule

Number	Title	Type	Due Date	Actual Date	Forecast Date	Status/ Comment
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
M-015-21A	Submit 200-BP-5 & 200-PO-1 OU FS Report and PP(s) to Ecology	TPA	6/30/15		6/30/16	To be missed. The FS Report and PP are funded in FY15, but cannot achieve the milestone since this scope was not funded in FY14.
M-015-92A	Submit RFI/CMS & RI/FS Work Plan for 200-EA-1 OU to Ecology	TPA	6/30/15		11/1/18	To be missed. This scope was not funded in FY14 or in FY15.
M-024-66-T01	Conclude Discussions of Well Commitments	TPA	8/1/15		8/1/15	On schedule
M-091-40L-047	PMM submittal Apr-June 3rd Qtr. FY2015 Burial Ground Sample Results	TPA	9/15/15		9/15/15	On schedule
M-015-110B	Submit CMS & FS & PP/Proposed CA Decision for 200-DV-1 OU to Ecology	TPA	9/30/15		6/25/18	To be missed. The 200-DV-1 work plan (M-015-110A) has not been submitted to the regulators.
M-016-125	Submit a RD/RA WP for 200-CW-5 and 200-PW-1/3/6 to EPA	TPA	9/30/15		9/30/15	On schedule
M-016-190	Complete installation of extraction and injection wells for U Plant area P&T for uranium and tech-99, and Iodine-129 hydraulic containment system	TPA	9/30/15		9/30/15	On schedule
M-085-02	Submit a change package to establish a schedule for submittal of the RI/FS Work Plans for the 200-CB-1, 200-CP-1, and 200-CR-1 Operable Units and a schedule for submittal of the Removal Action Work Plans for 224B and 224T Plutonium Concentration Facilities	TPA	9/30/15		9/30/15	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)

September 2014
CHPRC-2014-09, 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 93 radiological facility surveillances, completed 37 preventive maintenance (PM) activities, continued PUREX N-Cell investigative survey work, and continued removal activities of approximately 1,100 linear feet of steam line.

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	Complete – 09/30/14

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	2	5	<ul style="list-style-type: none"> • 9/24/14 - Employee was performing work when employee began to feel light headed, dizzy and began to sweat. Body part affected: Respiratory (23484) • 9/19/14 - Employee was taping piping when the employee's arm came into contact with a wire which then caused a puncture wound to forearm. Body part affected: Arm (23481)
Near-Misses	0	0	N/A

KEY ACCOMPLISHMENTS

- Performed Waste Information Data System (WIDS) waste site housekeeping (tumbleweed removal, corrected posting issues)
- Completed:
 - o 93 radiological facility surveillances

- o 37 preventive maintenance (PM) activities
- Continued 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
- Completed Spiderlift maintenance for NESHAPs preparations
- Completed B-Plant & PUREX annual NESHAPs inspections
- Completed 252AB roof repairs

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.	●		Construction yard demolition <i>nearing completion.</i>
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. Streamline repair and abatement nearly complete.

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	1.3	1.8	1.4	0.5	38.5%	0.4	22.1%

Numbers are rounded to the nearest \$0.1M

CM Schedule Performance: (+\$0.5M/+38.5%)

The favorable schedule variance is due to completing work that was scheduled for completion in prior months, i.e., PUREX Tank 11, Repair of 252AB/291S Roofs, Steam line removal.

CM Cost Performance: (+\$0.4M/+22.1%)

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	389.5	389.0	358.2	(0.5)	-0.1%	30.6	7.9%	488.7	456.3	32.4

Numbers are rounded to the nearest \$0.1M

CTD Schedule Performance: (-\$0.4M/-0.1%)

Variance is within reporting threshold.

CTD Cost Performance: (+\$30.9M/+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 (\$4.6M), 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 (\$1.7M).

Variance at Completion (+\$32.4M/+6.6%)

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	11.7	1.5

Numbers are rounded to the nearest \$0.1M.

Funds/Variance Analysis

Projected Funding is unchanged from last month. Change in spend forecast from \$12.2 to \$11.7 is primarily attributable to minor deferrals of demolition and steam line activities coupled with passbacks (reductions in cost) associated with over liquidations of labor, G&A, and MSA services.

Critical Path Schedule

Critical path analysis can be provided upon request.

Baseline Change Requests

BCR-PRC-40-005R0 - *200W Tier 2 EE/CA – RL-40*

BCR-PRC14-029R0 - *Move Unused FY2014 Management Reserve*

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)

September 2014
CHPRC-2014-09, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

Continued remaining work planning for 100K Characterization Wells high-risk drilling. Completed routine surveys and surveillances. Started excavations for 100K Head House Area Demo for fire line and potable water isolations.

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	Complete – 9/30/14

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 remaining work planning for high risk drilling
 - Completed critical work planning activities, work packages, subcontractor work documents, radiological planning documents, shipping and transportation documents
- 100K Head House Area Demolition:
 - Started excavations for fire line and potable water isolations
 - Working with MSA to assign resources to complete isolations (projecting late October due to competing priorities)
- Completed Surveillances:
 - Radiological – 34

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. Design phase of the work scope nearly complete. Received CO from RL for construction and well installation.
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	0.8	0.8	0.3	(0.0)	-3.4%	0.5	59.9%

Numbers are rounded to the nearest \$0.1M

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

The variance is within reporting threshold.

CM Cost Performance (+\$0.5M/+59.9%)

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	310.4	310.4	282.4	(0.1)	-0.0%	28.0	9.0%	394.6	356.5	38.1

Numbers are rounded to the nearest \$0.1M

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

The schedule variance is within threshold.

CTD Cost Performance (+\$28.0M/+9.0%)

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 (+\$38.1M/+9.6%)

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	4.4	5.7

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 \$4.5 to \$4.4 is within threshold.

Critical Path Schedule

Critical Path Analysis can be provided upon request.

Baseline Change Requests

BCR-PRC14-029R0 - *Move Unused FY2014 Management Reserve*

BCR-041-14-005R0 - *Min Safe Segregation*

BCR-041-006R0 - *CO #252 KE Boreholes Phase II*

BCR-PRC-14-031R0 - *HPIC Updates September 2014*

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
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Fuels, and Remediation
Services (DWF&RS)

September 2014
CHPRC-2014-09, 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	Complete – 9/30/14

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 Five radiological surveillances
 - o Five operational surveillances
- Continued to disposition material from the 440 Pad for excess/waste

MAJOR ISSUES

None at this time.

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 prior month. Pumping septic tank pending planned line repairs.

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	1.1%	0.1	68.8%

Numbers are rounded to the nearest \$0.1M

CM Schedule Performance: (+\$0.0M/+1.1%)

The current period schedule variance is within threshold.

CM Cost Performance: (+\$0.1M/+68.8%)

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	18.1	18.1	15.0	(0.0)	-0.1%	3.1	17.1%	26.5	20.0	6.5

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 (+\$6.5M/+24.5%)

The Variance at Completion is within reporting thresholds.

Contract Performance Report Formats are provided in Appendix A.

FUNDS VS. SPEND FORECAST (\$M)

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

Numbers are rounded to the nearest \$0.1M

Funds Analysis

Projected Funding and Spend Forecast is unchanged from prior month.

Critical Path Schedule

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

Baseline Change Requests

BCR-PRC14-029R0 - *Move Unused FY2014 Management Reserve*

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



September 2014
CHPRC-2014-09, 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 / 08 / 25								
b. LOCATION (Address and ZIP Code) Richland, WA			b. NUMBER RL14788			b. PHASE			b. TO (YYYYMMDD) 2014 / 09 / 30								
			c. TYPE CPAF		d. SHARE RATIO		c. EVMS ACCEPTANCE NO YES X 9/18/2009										
5. CONTRACT DATA																	
a. QUANTITY	b. NEGOTIATED COST	c. ESTIMATED COST OF AUTHORIZED UNPRICED WORK		d. TARGET PROFIT/ FEE	e. TARGET PRICE	f. ESTIMATED PRICE	g. CONTRACT CEILING	h. ESTIMATED CONTRACT CEILING		i. DATE OF OTB/OTS							
	5,468,189	13,620		228,491	5,696,680	5,551,927	5,696,680	5,551,927									
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		5,243,584						c. SIGNATURE			d. DATE SIGNED 9/30/2014						
b. WORST CASE		5,478,067															
c. MOST LIKELY		5,323,436		5,481,809		158,373											
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	12,530	10,862	11,697	(1,668)	(835)	731,856	699,189	736,875	(32,667)	(37,686)	0	0	0	937,378	966,819	(29,440)	
012 RL-12 SNF Stabilization and Disposition	5,362	7,842	10,128	2,479	(2,286)	437,733	443,914	456,934	6,181	(13,019)	0	0	0	692,566	726,605	(34,039)	
013 RL-13 Solid Waste Stabilization & Disposition	8,821	9,161	6,917	340	2,243	879,094	881,174	845,817	2,080	35,358	0	0	0	1,344,273	1,253,643	90,630	
030 RL-30 Soil & Wtr Remediatn Grndwtr/Vadose Zone	13,555	11,803	13,182	(1,752)	(1,379)	1,016,367	1,014,087	1,002,619	(2,280)	11,468	0	0	0	1,514,173	1,463,659	50,514	
040 RL-40 Nuclear Facility D&D Remainder of Hanford	1,301	1,802	1,404	501	398	389,481	389,034	358,168	(447)	30,866	0	0	0	488,656	456,294	32,361	
041 RL-41 Nuclear Facility D&D - River Corridor	833	805	323	(28)	482	310,452	310,388	282,407	(65)	27,980	0	0	0	394,621	356,549	38,073	
042 RL-42 FFTF Closure	202	204	64	2	141	18,147	18,134	15,027	(12)	3,108	0	0	0	26,508	20,017	6,491	
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	42,606	42,479	43,715	(127)	(1,236)	3,783,130	3,755,921	3,697,846	(27,209)	58,075	0	0	0	5,398,175	5,243,584	154,591	
f. Management Reserve																	
g. Total	42,606	42,479	43,715	(127)	(1,236)	3,783,130	3,755,921	3,697,846	(27,209)	58,075	0	0	0	5,478,027			
9. Reconciliation to CBB																	
a. Variance Adjustment																	
b. Total Contract Variance																	
										(27,209)	58,075				5,478,027	5,243,584	234,442

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 / 08 / 25									
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788			b. PHASE			b. TO (YYYYMMDD) 2014 / 09 / 30									
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)							
34 - Envr Program & Strategic Planning		653	685	897	32	(212)	48,199	48,884	45,021	685	3,862	0	0	0	83,054	72,416	10,638
340 - Environmental Prog & Regl Mgt		653	685	897	32	(212)	48,199	48,884	45,021	685	3,862	0	0	0	83,054	72,416	10,638
35 - Business Services		0	0	0	0	0	23,047	23,047	23,520	0	(473)	0	0	0	23,047	23,520	(473)
35D - Contract Mgmt & Facility Svcs		0	0	0	0	0	446,481	446,481	422,162	0	24,319	0	0	0	446,481	422,162	24,319
35K - PRC Finance		0	0	(679)	0	679	469,528	469,528	445,682	0	23,846	0	0	0	469,528	445,682	23,846
3B - PFP Closure		2,547	1,474	1,994	(1,072)	(520)	137,874	128,433	147,099	(9,441)	(18,665)	0	0	0	201,579	224,761	(23,182)
3B0 - PFP Close/BOSS D&D & Infrastruc		3,462	3,706	6,070	243	(2,365)	144,319	133,234	147,336	(11,085)	(14,102)	0	0	0	192,463	203,160	(10,697)
3B3 - Project Management/Subcontracts		1,867	1,867	997	0	870	47,747	47,747	40,017	(7,730)	0	0	0	0	74,095	58,109	15,987
3B4 - Engrg Nuc Saf Plng&Wrk Control		2,514	1,056	774	(1,458)	282	53,776	52,541	42,736	(1,235)	9,806	0	0	0	73,244	67,775	5,470
3B7 - Environmental & Waste		1,311	1,320	1,270	9	50	149,071	149,064	151,826	(7)	(2,762)	0	0	0	168,021	175,523	(7,502)
3BA - Project Mgmt D&D		964	1,574	622	610	952	126,279	115,379	138,625	(10,900)	(23,245)	0	0	0	160,726	168,980	(8,254)
3BB - PFP D4 Deputy Project Mgmt		0	0	0	0	0	0	0	0	(0)	(0)	0	0	0	0	0	(0)
3BD - PFP Cold & Dark		12,666	10,998	11,727	(1,668)	(729)	659,065	626,398	667,638	(32,667)	(41,240)	0	0	0	870,129	898,308	(28,179)
3C - Decom Waste Fuels & Remed Svcs		277	351	387	74	(36)	1,898	1,898	1,235	0	663	0	0	0	3,398	2,733	665
36X - Support to 3C - W&FMP/D&D Project		1,942	2,439	5,517	497	(3,077)	35,728	39,927	61,446	4,198	(21,520)	0	0	0	90,721	126,454	(35,733)
38X - Support to 3C - W&FMP/D&D Project		3,420	5,403	4,629	1,983	773	347,742	349,725	341,830	1,983	7,895	0	0	0	547,583	546,493	1,090
3AD - Sludge Treatment Project		554	526	160	(28)	366	236,468	236,403	217,836	(65)	18,567	0	0	0	307,625	290,395	17,230
3BX - Support to 3C - W&FMP/D&D Project		2,932	2,865	1,435	(67)	1,429	197,835	197,513	200,994	(222)	(3,382)	0	0	0	318,475	292,260	26,215
3C4 - Waste & Fuels Project Controls		0	0	0	0	0	49,140	49,140	52,386	0	(3,247)	0	0	0	49,140	52,386	(3,247)
3C5 - TRU Project		3,622	3,979	3,079	357	900	186,226	187,135	175,443	908	11,692	0	0	0	398,536	386,535	12,001
3C9 - Liquid & Fuels Storage		3,637	4,116	4,261	479	(145)	730,672	731,607	688,118	935	43,489	0	0	0	976,406	896,060	80,346
3CD - Waste Disposition		16,385	19,678	19,469	3,294	210	1,785,709	1,793,447	1,739,288	7,738	54,159	0	0	0	2,691,584	2,593,317	98,567
3D - Soil & Groundwater Remediation		2,104	1,880	654	(225)	1,226	101,222	101,222	101,341	0	(119)	0	0	0	194,769	170,752	24,017
3D0 - Soil & Groundwater Remediation		2,537	3,123	2,839	586	284	149,994	150,734	140,447	740	10,286	0	0	0	256,824	238,216	18,608
3D2 - GW Remediation Support		1,592	1,571	1,552	(21)	19	98,391	98,334	85,614	(57)	12,720	0	0	0	164,429	149,815	14,614
3D4 - GW Operations		6,669	4,545	7,258	(2,124)	(2,713)	471,021	467,374	472,814	(3,648)	(5,440)	0	0	0	667,557	675,078	(7,520)
3D8 - GW Analysis and Reporting		12,902	11,119	12,302	(1,784)	(1,183)	820,628	817,664	800,216	(2,964)	17,448	0	0	0	1,283,579	1,233,861	49,719
b. Cost of Money		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
c. Gen. and Admin.		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
d. Undist. Budget		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
e. Sub Total		42,606	42,479	43,715	(127)	(1,236)	3,783,130	3,755,921	3,697,846	(27,209)	58,075	0	0	0	5,398,175	5,243,584	154,591
f. Management Resrv.															79,852		
g. Total		42,606	42,479	43,715	(127)	(1,236)	3,783,130	3,755,921	3,697,846	(27,209)	58,075	0	0	0	5,478,027		

FORMAT 3, DD FORM 2734/3, BASELINE

September 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: 2014/08/25 b. TO: 2014/09/30			
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 \$13,620		e. CONTRACT BUDGET BASE (C + D) \$5,481,809		f. TOTAL ALLOCATED BUDGET \$5,478,028			g. DIFFERENCE (E - F) \$3,781			
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)	BUDGETED COST FOR WORK SCHEDULED (NON - CUMULATIVE)										UNDISTRIB BUDGET (16)	TOTAL BUDGET (17)		
					SIX MONTH FORECAST						FY09-13 (10)	FY14 (11)	FY15 (12)	FY16 (13)			FY17 (14)	FY18 (15)
+1 Oct-14 (4)	+2 Nov-14 (5)	+3 Dec-14 (6)	+4 Jan-15 (7)	+5 Feb-15 (8)	+6 Mar-15 (9)													
a. PM BASELINE (BEGIN OF PERIOD)			3,783,233	42,709	28,388	32,259	29,108	38,323	32,973	35,279	3,391,477	391,756	438,880	430,457	368,545	369,616	0	5,390,730
b. BASELINE CHANGES AUTH DURING REPORT PERIOD																		
BCR-011-14-006R0 - PFP Demolition Equipment Realized Risk													2,000					2,000.0
BCR-011-14-008R0 - Implementation of PFP Zone Strategy																		0.0
BCR-012-14-006R0 - Annex General Contractor Construction Rebaseline Alignment with PMB																		0.0
BCR-013-14-016R0 - WESF Stabilization and Ventilation Project Design Finalization and Const. Prep													1,500					1,500.0
BCR-013-14-017R0 - Detailed Planning for ETF Heat Exchanger Replacement																		0.0
BCR-013-14-018R0 - CS/SR Planning Package Deferral																		0.0
BCR-030-14-022R0 - Move PW-1/3/6 RD/RAWP from CLIN 7 to PMB													1,046					1,046.0
BCR-030-14-023R0 - CO#257 Design Install & O&M of Hydraulic Containment Wells for I-129 at 200-UP-1 OU												39	2,840	121				3,000.0
BCR-030-14-024R0 - Detailed Planning for 100-HR-3 D&D																		0.0
BCR-030-14-025R0 - Definitization of CO #250, 100-D-100 Waste Site Soil & GW Investigation												(142)	189		(1,147)			(1,100.0)
BCR-040-14-005R0 - 200 West Tier 2 EE/CA																		0.0
BCR-041-14-005R0 - Min Safe Segregation																		0.0
BCR-041-14-006R0 - CO #252 KE Boreholes Phase II													1,000					1,000.0
BCR-PRC-14-028R0 - FY2015 STP Impacts from DOE Funding and Priority Guidance																		0.0
BCR-PRC-14-029R0 - Move Unused FY2014 Management Reserve																		0.0
BCRA-011-14-007R0 - BOE Updates																		0.0
c. PM BASELINE (END OF PERIOD)			3,783,130	42,606	33,311	37,516	35,913	44,454	38,552	41,456	3,391,477	391,653	447,455	430,578	368,545	368,469	0	5,398,176
7. MANAGEMENT RESERVE																		
8. TOTAL																		

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

CONTRACT PERFORMANCE REPORT											CLASSIFICATION (When Filled In)	
FORMAT 4 - STAFFING											FORM APPROVED OMB No. 0704-0188	
1. CONTRACTOR			2. CONTRACT				3. PROGRAM			4. REPORT PERIOD		
a. NAME CH2M HILL Plateau Remediation Company			a. NAME Plateau Remediation Contract				a. NAME Plateau Remediation Contract			a. FROM (YYYYMMDD) 2014 / 08 / 24		
b. LOCATION (Address and ZIP Code) Richland, WA			b. NUMBER RL14788				b. PHASE			b. TO (YYYYMMDD)		
			c. TYPE CPAF		d. SHARE RATIO		c. EVMS ACCEPTANCE YES 9/18/2009			2014 / 09 / 30		
5. PERFORMANCE DATA (All figures in whole numbers of equivalent month. One equivalent month equals on person working one month)												
Organizational Breakdown Structure (OBS)	ACTUAL CURRENT PERIOD	ACTUAL END OF CURRENT PERIOD (Cumulative)	FORECAST (Non-Cumulative)								AT COMPLETION	
			SIX MONTH FORECAST									
			+1 Oct (4)	+2 Nov (5)	+3 Dec (6)	+4 Jan (7)	+5 Feb (8)	+6 Mar (9)	FY15-18 (13)			
ITEM (1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(13)	(15)		
300 - Office of the President												
35X - Support to President	5	429	5	5	5	5	5	5	5	215	676	
	5	429	5	5	5	5	5	5	5	215	676	
303 - Internal Audit												
303 - Internal Audit	4	306	5	5	5	5	5	5	5	205	541	
	4	306	5	5	5	5	5	5	5	205	541	
304 - General Counsel												
304 - General Counsel	3	293	5	5	5	5	5	5	5	205	529	
	3	293	5	5	5	5	5	5	5	205	529	
31 - Communications												
310 - Communications	8	704	9	9	9	9	9	9	9	369	1,127	
	8	704	9	9	9	9	9	9	9	369	1,127	
32 - Safety, Health, Security & Quality												
320 - Safety Health Security/Quality	25	2,000	19	19	19	22	24	24	24	1,050	3,178	
321 - RAD PRO/Emergency Prep	10	798	9	9	9	9	9	9	9	373	1,226	
322 - Nuclear Ops Supp & Compliance	6	719	8	8	8	8	8	8	8	328	1,095	
324 - Quality Assurance	15	1,647	17	17	17	17	17	17	17	706	2,454	
	56	5,163	53	53	53	56	58	58	58	2,458	7,953	
34 - Environmental Prog & Strategic Planning												
340 - Environmental Prog & Regl Mgt	40	2,315	45	45	46	46	46	46	46	1,893	4,483	
341 - Environmental Protection	0	1,000	0	0	0	0	0	0	0	0	1,000	
	40	3,315	45	45	46	46	46	46	46	1,893	5,483	
35 - Business Services												
35D - Contract Mgmt & Facility Srvcs	26	3,153	27	27	27	27	27	27	27	1,157	4,474	
35F - Industrial Relations	4	360	4	4	4	4	4	4	4	211	596	
35H - Human Resources	16	1,018	16	16	16	15	14	14	14	600	1,709	
35K - PRC Finance	12	938	13	13	13	13	13	13	13	533	1,549	
	58	5,469	61	61	61	60	59	58	58	2,501	8,328	
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	562	13	13	13	13	13	13	13	533	1,173	
362 - Strategic Pln & Mgmt	15	1,248	17	17	18	18	18	18	18	794	2,150	
363 - EVMS Compl & Rptg	16	1,291	15	15	15	15	15	15	16	620	2,002	
	43	3,101	45	45	46	46	46	46	47	1,948	5,325	
38 - Project Technical Services												
381 - Central Engineering	7	557	9	9	9	9	9	9	9	379	989	
382 - Training & Procedures	10	2,092	10	10	10	10	10	10	10	409	2,559	
383 - Operations Programs	9	770	7	7	7	7	7	7	7	287	1,099	
384 - Project Delivery	11	1,068	10	10	10	10	10	10	10	416	1,545	
	38	4,487	36	36	36	36	36	36	36	1,491	6,192	
3B - PFP Closure												
3B0 - PFP Close/BOSS D&D & Infrastruc	60	4,879	55	58	59	61	61	61	61	1,575	6,809	
3B3 - Project Management/Subcontracts	107	7,279	105	104	107	117	117	111	111	1,406	9,346	
3B4 - Engrg Nuc Saf Plng&Wrk Control	59	2,068	45	45	46	46	46	46	46	590	2,930	
3B7 - Environmental & Waste	32	2,624	32	32	32	32	32	35	35	663	3,483	
3BA - Project Mgmt D&D	76	10,726	64	64	64	64	64	64	64	901	12,009	
3BB - PFP D4 Deputy Project Mgmt	60	8,993	96	93	90	86	93	96	96	1,001	10,550	
3BD - PFP Cold & Dark	0	0	0	0	0	0	0	0	0	0	0	
	394	36,569	397	396	398	406	413	413	413	6,135	45,126	
3C - W&FMP/D&D Project												
36X - Support to 3C - W&FMP/D&D Project	7	29	2	2	2	2	2	2	2	4	44	
38X - Support to 3C - W&FMP/D&D Project	42	1,073	23	67	67	67	67	67	67	1,551	2,984	
3AD - Sludge Treatment Project	134	15,340	154	158	156	152	149	149	149	6,659	22,918	
3BX - Support to 3C - W&FMP/D&D Project	9	6,892	20	13	19	21	19	10	10	2,430	9,424	
3C4 - Waste & Fuels Project Controls	50	6,459	65	65	65	65	64	64	64	2,791	9,639	
3C5 - TRU Project	0	582	0	0	0	0	0	0	0	0	582	
3C9 - Liquid & Fuels Storage	147	10,848	142	140	139	139	139	139	139	4,378	16,066	
3CD - Waste Disposition	154	33,395	155	140	137	146	157	152	152	8,768	43,051	
	543	74,619	562	585	585	592	598	585	585	26,581	104,707	
3D - Soil & Groundwater Remediation												
3D0 - Soil & Groundwater Remediation	39	2,875	38	39	38	38	38	38	38	1,727	4,832	
3D2 - GW Remediation Support	56	5,566	63	65	63	63	73	75	75	2,668	8,637	
3D4 - GW Operations	63	4,837	54	54	54	54	54	54	54	2,218	7,379	
3D8 - GW Analysis and Reporting	128	11,403	183	130	133	140	133	149	149	5,585	17,856	
	287	24,682	339	288	289	295	298	316	316	12,198	38,704	
Grand Totals:	1,479	159,136	1,561	1,533	1,538	1,561	1,578	1,583	1,583	56,200	224,690	

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) 2014/08/25	
b. LOCATION (Address and ZIP Code) Richland, WA 99354			b. NUMBER DE-AC06-08RL14788		b. PHASE Base		b. TO (YYYY/MM/DD) 2014/09/30		
			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:	42,606	42,479	43,715	(127)	-0.3%	(1,236)	-2.9%	1.00	0.97
Cumulative:	3,783,130	3,755,921	3,697,846	(27,209)	-0.7%	58,075	1.5%	0.99	1.02
	BAC	EAC	VAC in \$	VAC in %	TCPI				
At Complete:	5,398,175	5,243,584	154,591	2.9%	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 within reporting thresholds.									
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: N/A									
Cumulative Schedule: N/A									
Cumulative Cost: N/A									
Corrective Action:									
Current Period Schedule: N/A									
Current Period Cost: N/A									
Cumulative Schedule: N/A									
Cumulative Cost: N/A									
Monthly Summary (to include technical causes of VARs, Impacts, and Corrective Action(s):									
For September, the project was 0.3% behind schedule and 2.9% over planned cost. For FY2014, the project is 4.7% behind schedule and 4.9% under planned cost. Rate changes were implemented in the EVMS system, which had minor impacts on the overall variances.									
Overall schedule performance in September was within reporting thresholds.									
Overall cost performance in September was within reporting thresholds.									
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 +\$154.6 million and +2.9% and is within reporting thresholds.

Format 1 and 3 Contract Data: Contract Price Adjustments

CPs - In Process		
	Total Authorized Unpriced Work	\$13,620
Approved Adjustments to Contract Price (not reflected in B.4-1 Table)		
	Total Negotiated Cost Changes	-
Grand Total Adjustments		\$13,620

Use of Management Reserve (MR) and Fee Activity:

Management Reserve Utilization

BCR Number	Title	Fiscal Year	MR
BCR-011-14-006R0	<i>PFP Demolition Equipment Realized Risk</i>	2014-2018	\$-2,000K
BCR-PRC-14-029R0	<i>Move Unused FY2014 Management Reserve</i>	2014-2018	\$0

Overall, Management Reserve decreased by \$2,000K.

Fee Activity

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

There were no changes to Fee during September.

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: 10/20/2014	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

September 2014
CHPRC-2014-09, 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	100%
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	100%
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	100%
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	100%

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	100%

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	5	N/A
Near-Misses	0	0	N/A

KEY ACCOMPLISHMENTS

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

- SHS&Q activities 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 September.
- 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 540 CHPRC facilities. Characterizations of facilities are being performed as identified through the assessment process. Beryllium characterizations have been completed on 101 CHPRC facilities and beryllium verifications have been completed on 13 CHPRC facilities. An additional 37 facilities have been sampled and awaiting results.
 - Continued to provide support to Soil and Groundwater Remediation Project (S&GRP) Sample Management & Reporting (SMR) office for the review and selection of offsite laboratories for Industrial Hygiene samples.
 - Provided technical support to S&GRP to determine appropriate hazard controls for fall protection hazards associated with ladder use.
 - 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 (DWF&RS) for work activities associated with demolition of old construction laydown area.
- Continued to work the assigned corrective actions regarding Chain of Custody forms that were identified in the assessment of CHPRC processes for collecting, handling, and shipping of IH samples.
- Continued efforts implementing the Global Harmonization Standard (GHS) requirements.
- Provided classroom technical support to HAMMER for the GHS training.
- Continued to provide ergonomic assessments for Functional Organizations, the Plutonium Finishing Plant (PFP) Plastics Shop, and DWF&RS Maintenance and Storage Facility.
- Continued to assist the Nevada National Security Site with the development of their Chemical Management Program.
- o Radiological Control accomplishments:
 - Provided info to DOE-RL regarding a personnel contamination event that occurred at PFP on October 3, 2014.
 - Briefed DOE-RL on PFP Millwright's positive bioassay result associated with September 2, 2014 crane maintenance in the Plutonium Reclamation Facility (area was posted RA/HCA/ARA). Millwright was wearing breathing zone lapel air sampler. After exiting the area the lapel air sample was counted and found to have values in excess of 1 DAC-hr (2.23 DAC-hrs).
 - Participated in monthly Stoplight Chart Review with DOE-RL.
- o Nuclear Safety deliverables prepared and transmitted to RL in September include:
 - Documented Safety Analysis:
 - Letter, CHPRC-1403855, September 16, 2014, *Transmittal of Capsule Extended Storage Project Safety Design Strategy, CHPRC-02236, Revision 0, to RL for Review and Approval.*
 - Letter, CHPRC-1403888, dated September 22, 2014, *The Preliminary Documented Safety Analysis for the Sludge Treatment Project Engineered Container Retrieval and Transfer System and the Sludge Treatment Project Safety Design Strategy for RL Approval.*
 - Letters received from RL in September include:
 - Letter, 14-NSD-0072_RL, dated September 12, 2014, *Transmittal of the 2014 Annual Update to CP-14977, Revision 7, Plutonium Extraction (PUREX) Facility Documented Safety Analysis (DSA) and the Unreviewed Safety Question.*
 - Letter, 14-NSD-0079_RL, dated September 12, 2014, *Transmittal of the Annual Update to the CH2M Hill Plateau Remediation Company (CHPRC) Safety Management Program (SMP) Documented Safety Analysis (DSA).*
- o Transportation Safety accomplishments:
 - All-contractor meeting was held. As a result of discussions at the meeting, CHPRC is in the process of picking up containers from Washington Closure Hanford for future transport of the EBR II casks. In addition, CHPRC is providing excess containers to Pacific Northwest National Laboratory (PNNL) and Washington River Protection Solutions.
 - Issued authorization allowing PNNL Radium drum shipment in 4x4x4 box using a Monolith Special Packaging Authorization prepared by CHPRC Transportation Safety.
 - Issued a contract with PNNL to prepare Transportation Safety documents to support PNNL shipments to the Environmental Restoration Disposal Facility.
- o Contractor Assurance Regulatory Reporting (CARR) accomplishments:

- 273 Condition Reports (CRs) were screened in September:
 - One Significant issues identified
 - Three Adverse issues identified
 - 99 Track Until Fixed (TUF) issues identified
 - 57 Trend Only (TO) items identified
 - 111 Opportunity for Improvement (OFI) items identified
 - Two Screen Out
- 207 CRs administratively closed.
- 522 CR actions administratively closed.
- The CHPRC Quarterly Performance Analysis Report, Fourth Quarter, Fiscal Year 2014, was timely transmitted to DOE-RL.
- One NTS report was submitted: NTS-RL—CPRC-CENTPLAT-2014-0001, *Personnel Exposure to Manganese Above 2013 ACGIH TLV Limit*.
- Supported the Office of Worker Safety and Health Enforcement Regulatory Assist Review of the CHPRC Worker, Safety and Health/10 CFR 851 Reporting Program.
- Two external Lessons Learned and One Just-In-Time notice were submitted to OPEX.
- Coordinated response and document request to upcoming Defense Nuclear Facility Safety Board (DNFSB) review of the PFP Ventilation System, Back-out Plan, and High Mass Glovebox activities.
- Coordinated monthly CHPRC/DNFSB Information Request Status call.
- Coordinated two DNFSB conference calls concerning the Sludge Treatment Plant.
- Sixty-seven documents were provided in response to DNFSB requests for information.
- o Performance Assurance, Quality Assurance (QA), and Assessment accomplishments:
 - Presented results to Executive Safety Review Board (ESRB) of apparent cause for the concern raised by DOE-RL in their core surveillance of Contractor Oversight Effectiveness (roll-up) evaluation, DOE-RL 14-OOD-0025.
 - Performed Management Assessment to evaluate the Hazard Analysis to support revision 12 to the PFP DSA in support of D&D activities.
 - Supported strategy for procurement of Weld Cover gas in response to a RL issue identified regarding the quality of welding activities.
 - Issued a Safety Culture Sustainment Plan in response to DOE-RL letter 1403458A/14-AMSE-0022, “Safety Culture Sustainment Plans.”
 - Issued the 10 CFR 835, Subpart E, Monitoring of Individuals and Areas, triennial assessment final report.
 - Issued the 10 CFR 835, Subpart L, “Radioactive Contamination Control,” triennial assessment final report.
 - Provided specific mentoring and feedback to assessors and responsible managers that conducted management assessments. Feedback was provided to help improve the quality, including clarity and readability of future reports.
 - Supported the assessment of the S&GRP sampling organization in response to 14-ESQ-0087, “CHPRC Assessment of Sample, Packaging, Storage and Offsite Shipping Process.” (EP&SP-2014-IA-14525)
 - Continued efforts to initiate a revision to the Assessment Program Plan and related implementing procedures.
 - Provided direct support to various program functions in the development of their FY2015 assessment activities.
 - Completed compilation of the FY2015 Integrated Evaluation Plan (IEP) and the assessment of the FY2015 IEP to ensure incorporation of necessary Safety Management Program related

- and “required” assessment activities.
- Initiated company-wide revision of PRC-MP-MS-003, *Integrated Safety Management System/Environmental Management System Description*.
- Supported the Project Technical Services organization in their procurement of critical materials to support Ground Water construction and tie-in activities.
- Assisted the DWF&RS organization in the review of the Functional Design Criteria (FDC) and Statement of Work (SOW) for the WESF Capsule Extended Storage Initiative.
- Performed the annual surveillance of the CHPRC Suspect/Counterfeit program.
- Conducted a three day “Auditing Methods for Lead Auditors” class. Session was attended by nineteen students from multiple site contractors and both local offices of the Department of Energy.
- Supported the August 20, 2014 site drill in the 200 West Area.
- Worked with DWF&RS in the revision of the Annex Construction CGI Guide and in the development of a procurement strategy for safety significant uni-strut.
- Revised the Quality Assurance Program Plan for the Implementation of the OCRWM Quality Assurance Requirements and Description.
- Supported RL in the review of two updated chapters of the International Atomic Energy Association technical document *Managing Suspect and Counterfeit Items in the Nuclear Industry*, IAEA-TECDOC-1169.
- Supporting Transportation organization in the procurement planning of the IP-1 Transportation containers and the WESF capsule dry storage initiative. QA staff participated in a technical and quality survey of the supplier of the IP-1 bag system to ensure capability prior to award.
- Supported S&GRP in the review of statements work for 100N Bioventing, KR-4 High Radiation Well Drilling, Hyporheic Zone Sampling, and Well Geophysical Data Logging services contracts.
- Continued efforts in support of MSA in the evaluation of the NQA-1-2008, Part II, Subsection 2.15 for inclusion within the Hanford Site Hoisting and Rigging Manual (HSHRM.) Initial proposal for changing of the HSHRM to include this requirement was rejected by the site Hoisting and Rigging committee.
- Continued work with Lockheed Martin Information Services and the CHPRC Strategic Planning organization in the resolution of OCRWM records issues.
- Worked with MSA and other site contractors in development of a strategy to reevaluate all subcontractors that are under extensions to their tri-annual re-audit requirement to remain on the Evaluated Suppliers list.
- Supported the DWF&RS organization in the review and approval of the WESF Capsule Extended Storage Functional Requirements Document and Statement of Work.
- Participated in the Commercial Grade Dedication of Software workshop hosted by WRPS QA.
- Supported the DWF&RS organization in the resolution of concrete questions with the Design Specification for the KW Basin IXM.
- 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 540 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. Improved 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 initiatives, supplied breathing air system implementation, and new NDA equipment and process upgrades.

Environmental Program and Strategic Planning (EP&SP)

- **Compliance Status**

- **Ecology CWC Box and WRAP Drum Release Agreed Order (AO)**

- o All CHPRC required actions complete. ZDR-11 box shipping container on schedule for January 2015 completion.
 - o Corporate independent audit of container management at CWC and T Plant was completed and final report issued in September.
 - o Concluded compliance concerns workshops with RL. Issues and recommended solutions to be provided to RL in October.

- **RCRA Permitting Progress**

- o Closure plan sessions resumed with Ecology. RCRA permit renewal progress is slow with Ecology focus on issuing permit section templates (CAPS – Conceptual Agreement Packages).

- **Environmental Management System (EMS)**

- o All CHPRC FY2014 EMS goals were met.
 - o Workshop on setting CHPRC EMS 2015 objectives and targets completed. Draft objectives in progress.

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

- **Accomplishments**

- o ECQA coordinated an external assessment of waste container management at the SWOC. This assessment was performed by a team of four senior CH2M HILL waste management experts. The team focused on compliance with dangerous waste regulations in Washington Administrative Code (WAC) 173-303 and interim status requirements in 40 CFR 265, as cited in WAC 173-303-400. Two findings and eighteen opportunities for improvement (observations and practices) resulted from the assessment and will be entered into the CHPRC CRRS system. Seven notable practices were also identified.
 - o An annual compliance assessment was performed of stack requirements at B-Plant for compliance with National Emission Standards for Air Pollutants (NESHAPS) quality assurance method specified in 40 CFR 61, Method 114, Appendix B, and compliance with ALARACT requirements as stated in CPSM-PRO-EP-52827. An inspection of the 296-B-1 Stack was observed. The assessor determined that NESHAP and ALARACT requirements are being effectively implemented at B-Plant. One finding resulted related to required surveys.
 - o An assessment was completed by the S&GRP ECO at the 200West Pump & Treat Facility to determine compliance with stack air emissions. This assessment was performed as part of objective & target 14-EMS-SGWR-OB1-T1. Lines of inquiry were developed from RD/RAWP DOE/RL-2008-78 and Operations & Maintenance Plan DOE/RL-2009-124, Appendix C, Air Monitoring Plan. One finding and five opportunities for improvement were identified and entered into CRRS.

- o An assessment schedule for FY2015 was completed as required by PRC-PRO-QA-40091 *Integrated Assessment Planning*.

Environmental Requirements Management

- o ECQA goals met in FY2014:
 - Environmental requirements for over 200 governing documents were identified and verified, and over 60 compliance matrices developed.
 - Compliance matrices were submitted to five priority Projects (PFP, CWC, T Plant, ETF and K Basins) for identification of implementing mechanisms (procedures).
 - PFP completed identification of implementing mechanisms.
 - The required documents were developed and approved to place DOORS_PRC in the “production” stage. The Production Readiness Review Board (PPRB) has approved DOORS_PRC based on completion of the required Software Management Plan, Test Plan & Procedure, and the Acceptance Test Report. This software tool is now ready to begin populating it with information from compliance matrices.
 - An Operating Record Management project was initiated with resources and funding for identification of required documents that comprise the operating record. A dashboard will be developed as a tool to assist in consistently managing those records company-wide. This project is planned for completion in FY2015.

Business Services

• Acquisition Planning

- o Assisted DWF&RS with development/submittal of documents to RL on the Capsule Extended Storage Project. Documents which included an Acquisition Planning Document (APD), Statement of Work and Project Execution Plan. Jointly presented acquisition strategy approach and estimated Project schedule to RL.
- o Assisted S&GRP Sample Management Office with award of contracts to offsite laboratories to replace WSCF analysis capabilities.
- o Supported FY year-end activities including tracking contract items for potential accruals.
- o Assisted S&GRP with APD and Noncompetitive Justification for bioventing system that is being transferred from TOC to PRC on October 1, 2014.

• Facilities and Property Management (F&PM)

- o The FY2014 100% wall-to-wall Physical Inventory campaign commenced on February 27, 2014. The annual physical inventory encompassed 4,081 items valued at \$152,328,862. The final FY2014 results were 99.78 percent accuracy of items and 99.98 percent accuracy of the value. CHPRC had 9 reported losses (LDDR), valued at \$33,658.08.
- o The FY2014 results continue to exceed historical balanced scorecard metrics of 98% accuracy for equipment items. In accordance with the new DOE O 580.1A requirements for 100% accountability for High Risk Property and Sensitive Property, CHPRC achieved those benchmarks as well. The overall performance represents continuous improvement throughout duration of the PRC. The accuracy rates in FY2014 were the equivalent or exceeded the previous accuracy of records set in FY2011.

• Finance

- o CHPRC successfully closed FY2014 with actual costs below authorized funding in all funding control points. FY2014 performance includes and has \$42M of carryover base funding to start FY2015.
- o Submitted FY2015 Overhead Rates to RL for approval.
- o Replied to KPMG requests for data, in response to the ongoing FY2010-FY2013 incurred cost audits.
- o Responded to RL requests for data for FY2013 quarterly invoice reviews

- **Human Resources**
 - o Completed the 2014 merit salary planning for all salaried employees, effective in October 2014. This involved allocation of funds and discussions with executive and senior management.
- **Procurement**
 - o Awarded/amended 174 contracts with a total value of \$17.9M. Additionally, awarded 234 new material purchase orders valued at \$1.2M to support ongoing project objectives.
 - o At the end of the first 72 months of the PRC, procurement volume has been significant; \$2.14B in contract activity has been recorded with approximately 50.19 percent, or \$1.077B, in awards to small businesses. This includes 6,615 contract releases, 17,664 purchase orders, and 208,185 P-Card transactions.
 - o Completed and issued one Advance Planning Document for review or approval.
 - o CHPRC received RL consent to award the contract to Perma-Fix Northwest Richland, Inc. for Transuranic and Mixed Transuranic Waste Size Reduction and Repackaging Services.
 - o On September 10, 2014, CHPRC issued Contract 54134-2 to Columbia Energy & Environmental Services for STP Control Panel Fabrication for Buyback Set 1 in the amount of \$361,000.00. This contract was awarded as a Firm Fixed Price type contract based on competition to CHPRC's approved GS Fabrication Basic Ordering Agreement holder.

Prime Contract and Project Integration (PC&PI)

- **Contracts Compliance and Change Management**
 - o In September, Prime Contracts Compliance received and processed nine (9) contract modifications (numbers 358-364 and 366-367) from RL. Correspondence Review received and determined the distribution for 68 incoming letters/documents. The Prime Contracts Compliance Manager reviewed 55 outgoing correspondence packages.
 - o One Notice of Change letter was provided to RL in September.
 - o Submitted two completion package letters for two FY2014 Performance Measures.
 - o In conjunction with project personnel, briefed RL Senior Leadership on RL-30 Constructive Change on September 11, 2014.

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
1	0	1	3	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
 - Negotiated and definitized the following:
 - o CO #253 – *Borehole Planning and Sampling Instruction*, on September 22, 2014.
 - Submitted CO #259, *Preliminary and Final Design Waste Encapsulation and Storage*

- Annual update (data call for FY2015) of Service Level Agreement with ATL for laboratory sampling scope was finalized.
- Worked with MSA to add specialty printing (e.g. Plotters) to the copier contract to start a lease program including maintenance. MSA currently going through Turndown process.
- Attended MSA Snow Removal Kickoff Plan meeting.
- Responded to MSA review request on Loaned Labor Process informational white paper.
- Responded to MSA request on feedback regarding preference of overhead versus underground electrical line crossing for Route 4S near 2704HV. Mutual agreement reached that an underground option should be pursued so to not interrupt or limit options “high load” shipments within or onto the site.
- Participated in a joint contractor letter to HPMC requesting their service availability be consistent and supportive of the 4x10 work schedule being implemented by the major Prime Contractors.
- o Annual Forecast of Services:
 - Final annual forecast of services provided to MSA.
 - Status of usage based services needs ongoing and communicated to MSA as appropriate.
- o Inter-Contractor Issue Resolution:
 - Attended weekly field interface and resource allocation meetings.
 - Participating in regular Interface Management leadership meetings with RL, MSA and WRPS.
 - Supporting resolution of stop work regarding radiological protection requirements associated with MSA Biological Controls work in or around CHPRC WIDS sites.
- o Controlling and Service Agreements:
 - MOA HNF-49315 Agreement on Hanford Atomic Metal Trades Council (HAMTC) Seniority Related Discharges and Replacements - Published.
 - HNF-23474 Rev. 2, ICD between CHPRC and JCI for Hazardous Energy Control -Revision in process
 - HNF-46148 Rev.3, ICD between CHPRC and MSA for Water System Services (In USQ/Engineering release) - Revision in process.
 - HNF-50957 Rev. 1, AIA between WCH and CHPRC for Operating the 300 Area Retention/Transfer/System - Cancellation in process.
 - HNF-41077, Rev. 1, AIA between CHPRC and MSA for Use and Occupation of Buildings 6268 and 6269 - Cancellation in process.
 - HNF-3395, Rev. 5, ICD between the 242-A Evaporator Facility and the Liquid Effluent Facility - Revision in process.
 - PRC-AIA-MS-02430, Rev. 0, AIA between CHPRC and MSA for Use and Occupation of building 4707 - Published
 - PRC-AIA-MS-03622, Rev. 0, AIA between CHPRC and MSA for Use and Occupation of building 275W - Published
- o J.3 Table:
 - J.3 #20 Fire and Emergency Response Services Service Delivery Document update issued.
 - Provided J.3-25 “Environmental Reporting” scope interpretation to LERF management addressing the available options for operating, maintaining and data analysis for the new LERF basin NOC air monitoring requirements.
- o J.13/J.14 Tables:
 - Awaiting RL direction regarding transfer of ownership on 275W and 4707 from MSA - AIAs for occupancy and usage approved.
 - Quarterly review and comment of J.13/J.14 tables ongoing.

- Met with DOE-AMRP representatives to discuss process improvements to the J.13/J.14 review/approval processes and appropriate contract actions.
- Solicited feedback from Project/Environmental personnel to validate/update the review team necessary for J.13/J.14 reviews/approvals.
- o Internal Operations:
 - 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.
 - Revision of Interface Management PRC-PRO-MS-10472 is in progress.
 - Continue management assessment of the MSA Statements of Work that are applicable to J.3 Usage-Based Services
 - Spreadsheets identifying site manuals, site committee agreements and Supplemental Contract Requirements Documents to establish need for internal change control process routing for Project review.
 - Produced “Be in the Know” informational document on Biological Control services for the Interface Management rapid web page.
 - Working efficiency and cost savings initiative to provide WDOE direct access to WIDS reference documents electronically via IDMS based on sampling techniques. This will allow access permissions to the regulator without requiring clearance of the WIDS references.
 - Supported advanced preparation of a Statement of Work that eventually will allow for inter-contractor reimbursement for union steward time spent supporting other Hanford Contractor Labor Relation activities.
 - Continue support of WSCF transition and CHPRC Sample Management Office implementation, as requested. Specifically, sample transport scope/jurisdiction concerns.
 - Continue support of ETF/LERF/TEDF transition to WRPS, as requested.
 - Completed eCPIC Baseline Year 2016 Information Technology crosscut budget data call.
 - Assisted 100-K Annex project in verification of medical and qualifications for construction forces. Included tracing and understanding how 3rd party contractors are handled via PeopleCore, EJTA, HPMC Medical Portal, and HSWET. Information relayed to the Project Manager and their training representative.
 - Facilitated reconciliation of PFP Dose Reconstruction Project cost dispute and contract authorization mechanism.
 - Solicited final year end passback data from MSA for proper ETC EVMS allocation.

Information Management

- Completed software development of Respiratory Protection Equipment Tracking automation. Currently waiting for final installation of monitor and scanning hardware. Software implementation and training is planned for the third week of October 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. 71% of documents have been tied to a box location to date.
- 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, S&GRP, DWF&RS, SHS&Q and PTS documents.
- Provided numerous IT support requests for cellular phone issues/questions, meeting set-up, network connections, and printing.
- Complete triennial Safety Management Program (SMP) Management Assessments for Document Control & Records Management and Software Quality Assurance.

- Installed 10 Thin Client workstations in support of FY14-EMS-PCPI-OB2-T1
Processed 14,044 Electronic Records into IDMS.

Project Technical Services (PTS)

• Central Engineering

- o Fire Protection Engineering
 - Received Fire Marshal Approval on two white papers for the STP Annex – PRC-STP-00891 and PRC-STP-00904.
 - Fire Protection Engineering Manager was hired.
- o Engineering Services
 - Completed Preliminary Design review for the Environmental Remediation Disposal Facility (ERDF) to 200W Pump-and-Treat transfer line.
 - Supported the S&GRP in the preparation and approval of the SOW for the 289-T Cantilevered Shade Structure. The new structure will replace the temporary structure that exists to protect outside electrical panels from solar heating.
- o Engineering Standards/Programs
 - 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.
 - Reviewed the Interface Control Document between CH2M HILL Plateau Remediation Company and Mission Support Alliance, LLC for Water System Services (HNF-46148). Major change was adding the interface at 200W P&T facility.

• Procedures and Training

- o Expanding the Leadership Impact training to leaders outside the management ranks.
- o Analyzing procedure modification costs and developing strategies for cost saving/avoidances.
- o Developing Code of Accounts (COA) training to support new strategy.
- o Supporting Records Management training across the company.
- o Analyzing the Inspector General report on LANL waste packaging for potential vulnerabilities.

• Operations Program

- o Compiling data to address DOE HQ, EM-42, deferred maintenance follow-up questions.
- o Completed SMP assessments for both Work Control and CONOPs
- o Sent draft update of PRC-PRO-WKM-12115, Work Management, Revision 4 to core development team, including links to the testing website and toolbox. They are to be socializing it with their VPs and other Directors soon and provide further direction.

• Project Delivery

- o S&GRP
 - Completed last of 19 well system installations in FY2014.
 - Issued procurement specification for UP-1 well realignment double wall HDPE pipe.
 - Commenced installation of header modification at 100KX P&T.
 - Structural and foundation design media approved for the 200W P&T weather enclosure tent. Initiated procurement of tent system and foundation blocks.
 - Construction contract award made for installation of sunshade at 200W P&T.
- o DWF&RS
 - Remediate tank 1803 erosion pad.
 - Completed 291-S roof repair.
 - CWC Phase 1 complete

- **KW Annex Construction**

- o Continued the installation of wall panels, two outstanding NCRs to close prior to Shell Complete Milestone.
- o Completed epoxy flooring (minus top coat to be completed after ME/EE installation) in the Low and Intermediate Bays.
- o Stripped form work for OHH side shielding.
- o Continued the installation of the outside catwalk on the Low Bay roof.
- o Initiated the outside stairs.
- o Initiated the steel preparation/primer/painting of the catwalk on the Low Bay roof.
- o Continued the layout of Mechanical and HVAC hangers and equipment.
- o Continued the installation of the structural supports for the electrical panels.
- o Initiated the installation of the exhaust stack anchorage and transition pieces through the Low Bay roof to support the EPDM installation.
- o Released ME work package to allow the initiation of the anchoring of the ME equipment.
- o Approaching completion of the EPDM roofing system on the High and Intermediate Bays.
- o Continued the steel preparation/primer/painting of the catwalk on the Low Bay roof.
- o Continued the layout of Mechanical (ME) and HVAC hangers and equipment.
- o Continued the installation of the electrical panels supports.
- o Continued the installation of the exhaust stack anchorage and transition pieces through the Low Bay roof to support the EPDM installation.
- o Received Baker Tanks to support the fire hydrant testing.
- o Continued fire coating application touch ups.

Communications

- **Internal**

- o Administered a survey inviting employee feedback regarding communications and events.
- o Produced a video of the first entry in the McCluskey Room at PFP and a video of construction on the KW Annex for the STP.
- o Hosted an all-managers meeting to share recent progress in safety and cleanup, identify best practices and lessons learned, and discuss upcoming goals and expectations for FY2015.
- o Produced four issues of the CHPRC Weekly Update employee bulletin including manager messages from Terry Vaughn, vice president of SHS&Q; Mark Cherry, acting vice president of S&GRP; Karen Wiemelt, vice president of S&GRP

- **Public Relations**

- o CHPRC's progress in groundwater cleanup and decommissioning at PFP were featured in the monthly *EM Update* newsletter.
- o Supported RL with media, including a press release and video, about workers entering the McCluskey Room at PFP. The story was featured by the local media.
- o Washington State University Tri-Cities celebrated September 8, 2014 as CH2M HILL Day in honor of our financial contributions to the Richland campus.
- o Supported RL in responding to media inquiries regarding ETF and Perma-Fix Northwest permit modification.
- o The *Hanford Forward*, the Hanford quarterly newsletter, featured stories about decommissioning PFP.

- **Public Involvement**

- o 100-F/IU Proposed Plan: Supporting development of the comment responsiveness summary that will accompany the ROD.
- o LERF/ETF Permit Modification: Developed and mailed a fact sheet and placed an advertisement 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 LERF and the 200 Area ETF. The comment period ends October 24, 2014 and a public meeting was held September 11, 2014.

- o 100-D/H Proposed Plan: Planning 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	24.8%
General Counsel	0.1	0.1	0.1	0.0	0.0%	0.1	45.6%
Communications	0.1	0.1	0.1	0.0	0.0%	(0.0)	-1.8%
Safety, Health, Security and Quality	1.5	1.5	1.1	0.1	5.1%	0.5	31.0%
Environmental Program and Strategic Planning	0.4	0.5	0.5	0.1	11.8%	0.0	7.2%
Business Services	2.1	2.1	1.7	0.0	0.0%	0.4	19.6%
Prime Contract and Project Integration	2.1	2.1	1.6	0.0	0.0%	0.6	26.4%
Project Technical Services	0.7	0.7	0.6	0.0	0.0%	0.1	11.8%
Indirect WBS 000 Total	7.2	7.3	5.7	0.1	1.8%	1.7	22.7%

Numbers are rounded to the nearest \$0.1M.

Indirect WBS 000

CM Schedule Performance: (+\$0.1M/+1.8%)

Variance is within reporting thresholds.

CM Cost Performance: (+\$1.7M/+22.7%)

The favorable variance is primarily due to 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	0.8	0.8	0.6	0.0	0.0%	0.2	25.4%	0.8
General Counsel	1.4	1.4	1.1	0.0	0.0%	0.3	24.5%	1.4
Communications	1.0	1.0	1.1	0.0	0.0%	(0.1)	-9.2%	1.0
Safety, Health, Security and Quality	14.9	14.9	11.5	(0.0)	-0.1%	3.4	22.8%	14.9
Environmental Program and Strategic Planning	4.4	4.4	4.2	0.0	0.0%	0.2	4.5%	4.4
Business Services	20.3	20.3	18.9	0.0	0.0%	1.4	0.7%	20.3
Prime Contract and Project Integration	21.0	21.0	17.7	0.0	0.0%	3.3	15.7%	21.0
Project Technical Services	7.0	7.0	7.3	0.0	0.0%	(0.2)	-2.9%	7.1
Indirect WBS 000 Total	71.0	70.1	62.4	(0.0)	-0.0%	8.6	12.1%	71.0

Numbers are rounded to the nearest \$0.1M.

Indirect WBS 000

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

Variance is within reporting thresholds.

FYTD Cost Performance: (+\$8.6M/+12.1%)

The favorable cost variance is primarily due to B&O Home Office Cost estimate reductions in prior year assessments, and staffing vacancies currently in process of being backfilled.

Baseline Change Requests

BCR-PRC-14-029R0 – *Move Unused FY2014 Management Reserve*

BCR-PRC-14-030R0 – *Pension Adjustment*

BCR-PRC-14-028R0 – *FY2015 STP Impacts from DOE Funding and Priority Guidance*

BCRA-PRC-14-028R0 – *HPIC Updates September 2014*



FY2014 G&A Analysis (\$M)

WBS 000 Project Services and Support	FY2014		
	FY2014 BCWS	FY2014 Actual Cost	FY2014 Variance (O)/U
Office of the President	2.1	2.3	(0.2)
Internal Audit	0.8	0.6	0.2
General Council	1.4	1.1	0.3
Communications	1.0	1.1	(0.1)
Safety, Health, Security and Quality	14.9	11.5	3.4
Env. Program & Strategic Planning	4.4	4.2	0.2
Business Services	18.2	16.6	1.6
Prime Contract and Project Integration	21.0	17.7	3.3
Project Technical Services	7.1	7.3	(0.2)
General & Administrative (G&A)	71.0	62.4	8.6
		FY2014	
G&A Distribution		(62.4)	
G&A Liquidation (Over)/Under		0.0	

Liquidation Analysis

- For FY2014, application of the G&A rate over-liquidated total G&A costs by \$1.1M, which was distributed to the projects in September. Passbacks were distributed at fiscal year end to fully liquidate all G&A costs.

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.