

Monthly Performance Report

October 2015

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



P.O. Box 1600
Richland, Washington 99352

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APPROVED

By Ashley R Jenkins at 2:23 pm, Nov 19, 2015

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Date

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J. A. Ciucci
President and Chief
Executive Officer

Monthly Performance Report

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October 2015
CHPRC-2015-10, Revision 0

CONTENTS

EXECUTIVE SUMMARY.....	2
TARGET ZERO PERFORMANCE.....	4
KEY ACCOMPLISHMENTS	6
MAJOR ISSUES.....	6
EARNED VALUE MANAGEMENT	6
FUNDING ANALYSIS	7
BASELINE CHANGE REQUESTS	8
SELF-PERFORMED WORK.....	11
GOVERNMENT FURNISHED SERVICES AND INFORMATION.....	11

PROJECT BASELINE SUMMARY SECTIONS

Section A – Nuclear Materials Stabilization and Disposition of PFP (RL-0011).....	A
Section B – Spent Nuclear Fuel Stabilization and Disposition (RL-0012)	B
Section C – Solid Waste Stabilization and Disposition (RL-0013)	C
Section D – Soil and Groundwater Remediation Project (RL-0030)	D
Section E – Nuclear Facility D&D, Remainder of Hanford (RL-0040).....	E
Section F – Nuclear Facility D&D, River Corridor (RL-0041).....	F
Section G – FFTF Closure (RL-0042).....	G

APPENDICES

Appendix A – Contract Performance Reports
Appendix B – Project Services and Support (WBS 000)
Appendix C – Capital Asset Projects

EXECUTIVE SUMMARY

CH2M HILL Plateau Remediation Company advanced cleanup throughout the Hanford Site during the month of October. Major accomplishments included:

- The Plutonium Finishing Plant (PFP) closure project continued Plutonium Reclamation Facility (PRF) canyon cleanup, which was delayed due to concerns over waste found in the canyon. The PFP team characterized the first through fourth floors of the PRF, which is an important step in identifying where further decontamination efforts are required before demolition.
- The Waste and Fuels Management Project (W&FMP) continued preparations for sludge operations at T Plant by returning the 221T canyon crane to service and shipped 43.5 cubic meters (m³) of suspect transuranic mixed waste to Perma Fix Northwest (PFNW) for repackaging.
- The Soil and Groundwater Remediation Project (S&GRP) completed installation and preparations to operate the Stage A Uranium Sequestration System with injections scheduled to begin in November 2015; completed the two-year hyporheic zone sampling initiative with over 1,300 hexavalent chromium samples collected; in the 200-PW-1 Operable Unit, provided an evaluation of the carbon tetrachloride source to U.S. Environmental Protection Agency (EPA) who is anticipated to approve permanent shut down of the Soil Vapor Extraction (SVE) system; and treated uranium-contaminated groundwater from 200-UP-1 through the new uranium ion exchange system continuously through October.
- The K Basin Operations and Plateau Remediation (KBO&PR) project continued testing activities at the Maintenance and Storage Facility (MASF) and prepared for cold commissioning, as well as awarding the fabrication contract for the T Plant sludge storage equipment.



Employees in protective clothing remove waste from the PRF canyon floor.



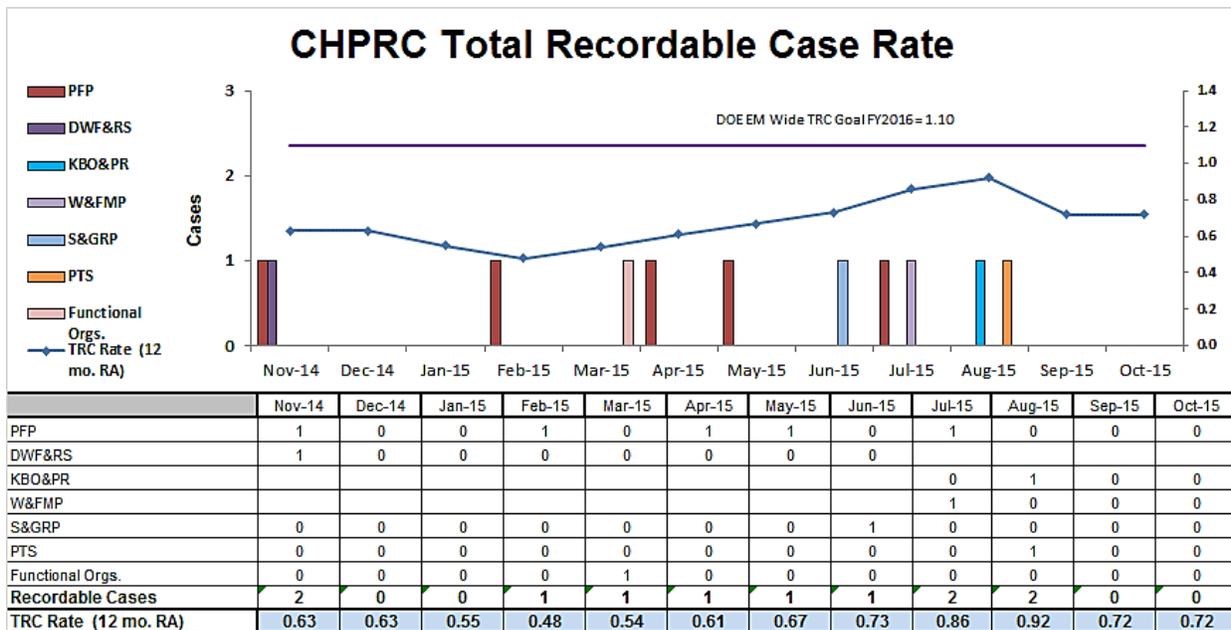
Employees with contractor Apollo train at MASF for upcoming relidding work in the K West Reactor fuel storage basin.

- The October 2015 President’s Zero Accident Council (PZAC) meeting was hosted by the Safety, Health, Security & Quality (SHS&Q) organization. The four main ideas for the meeting were:
 - o Roadway Safety during Emergency Responses: Yield to Emergency Vehicles – It’s the Law.
 - o Fire Safety is everyone’s Business: Have a plan; share the plan; practice the plan.
 - o VPP Self-Assessment: October 26 – November 5, 2015; Housekeeping – Make a Good Impression.
 - o Winter Safety Campaign: November 2 – February 22, 2016; are you prepared?
- Four “*Thinking Target Zero*” (TTZ) bulletins were published in October to convey important occupational, safety, health, and environmental messages:
 - o Drive Safely Work Week - Plan Ahead.
 - o Fire Safety Month: Properly installed and maintained smoke alarms play a vital role in reducing fire deaths and injuries.
 - o What to expect for the upcoming VPP Self-Assessment.
 - o Your role in the EMS: Recycling.
- October *Weekly Safety Tailgate* briefing packages communicated relevant topics and safety information to the workforce:
 - o Four Lessons Learned: Electrical Safety - Shocks incurred at RL facilities; Shielded Box slides off forklift tines following encounter with unstable soil; Idaho National Lab - multiple sets of Zytron® 100 Level D coveralls had stressed and/or incomplete stitching on seams.
 - o “What Would You Do?” Ethics Awareness messages.
 - o Injury/Illness Summaries and the TTZ of the week.
 - o Avoid Deer and Elk Strikes.
 - o Information regarding reporting injuries and what the rules are for self-treat, first aid, and medical emergencies.
 - o Information regarding Worksite Flu Clinics.
 - o Expired hard hats in flash hood.
 - o Anti-C Flame resistant clothing.
 - o Snakes on the move.
 - o Hearing protection Personal Protection Equipment (PPE).
 - o Top 10 Occupational Safety and Health Administration (OSHA) Violations in FY2015.
 - o Return to work process for personal conditions.
 - o Cardiac arrest awareness.
 - o Dangers of Distraction: Reminders of the risk of distracted driving due to cell phone use.
 - o Winter Safety Campaign: Safety is Always in Season.
 - o Winter travel safety.
 - o Reminder about Daylight Saving Time Ending.
 - o Washington State Patrol Performing Distracted Driving Emphasis Patrols in the coming months.
 - o Hard Hat Recycling on November 9 thru 12.
- Weekly Updates in October featured blogs that highlighted safety, health, and environmental messages:
 - o Communications Director Dee Millikin reported on high-level stakeholders who have toured the Hanford Site, which provide stakeholders information about Hanford cleanup.

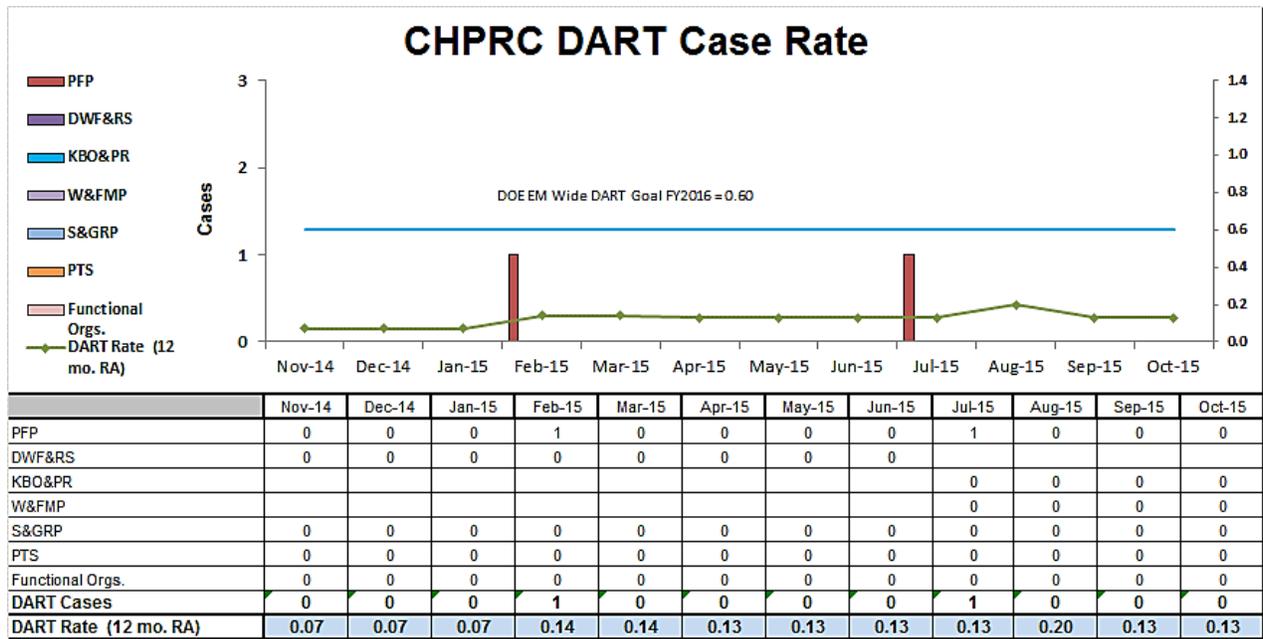
- o Terry Vaughn, Vice President of SHS&Q, discussed employee involvement being the key to the VPP self-assessment.
- The October Kudos Corner recognized individuals and teams who made a significant contribution to safety at work, home or play:
 - o A S&GRP team at 200 West Pump and Treat safely applied heat tracing (an electric system used to maintain or raise the temperature of pipes and vessels) and insulation to reduce condensation in the granular activated carbon containers in the colder months in order to reduce the already very low carbon tetrachloride emissions even further.
 - o The Functional Organization EZAC was recognized for focusing on distraction-free driving by providing employees with “Text Free Driver” thumb bands and a “Take the Pledge” card to demonstrate their promise to not text and drive and to make cars a no phone zone while driving.
 - o A PFP radiological control technician was recognized for spotting a potential chemical hazard and alerting coworkers.
 - o A T-Plant worker who discovered a three-foot long rattlesnake on the second floor of T Plant. He ensured the safety of his coworkers by blocking off the area and notifying the proper personnel to relocate the snake.

TARGET ZERO PERFORMANCE

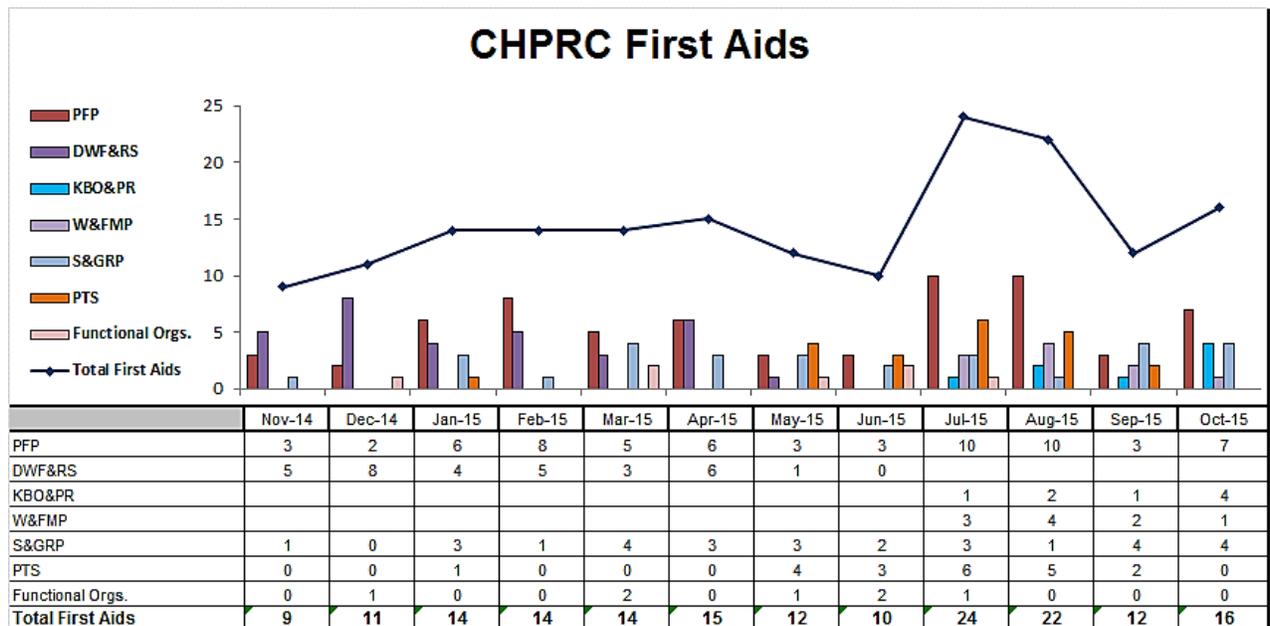
CHPRC continued focusing on integrating and implementing safety programs in all program and project areas.



Total Recordable Injury Case (TRC) Rate: The 12-month rolling average TRC rate of 0.72 is based on a total of 11 Recordable injuries. There were no Recordable cases for October. There are no cases currently being evaluated or investigated for potential recordability.



Days Away, Restricted or Transferred (DART) Workdays Case Rate: The 12-month rolling average DART rate of 0.13 is based upon a total of two Days Away cases. There were no DART cases in October.



First Aid Case Summary: CHPRC reported 16 first aid cases in October; of these, eight cases required no treatment. There were three self-treated injuries. The contributors were six sprains/strains/pains, five miscellaneous (potential exposures), two abrasions/contusions, one cut/laceration, one insect bite/sting and one precautionary exam.

KEY ACCOMPLISHMENTS

Projects

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

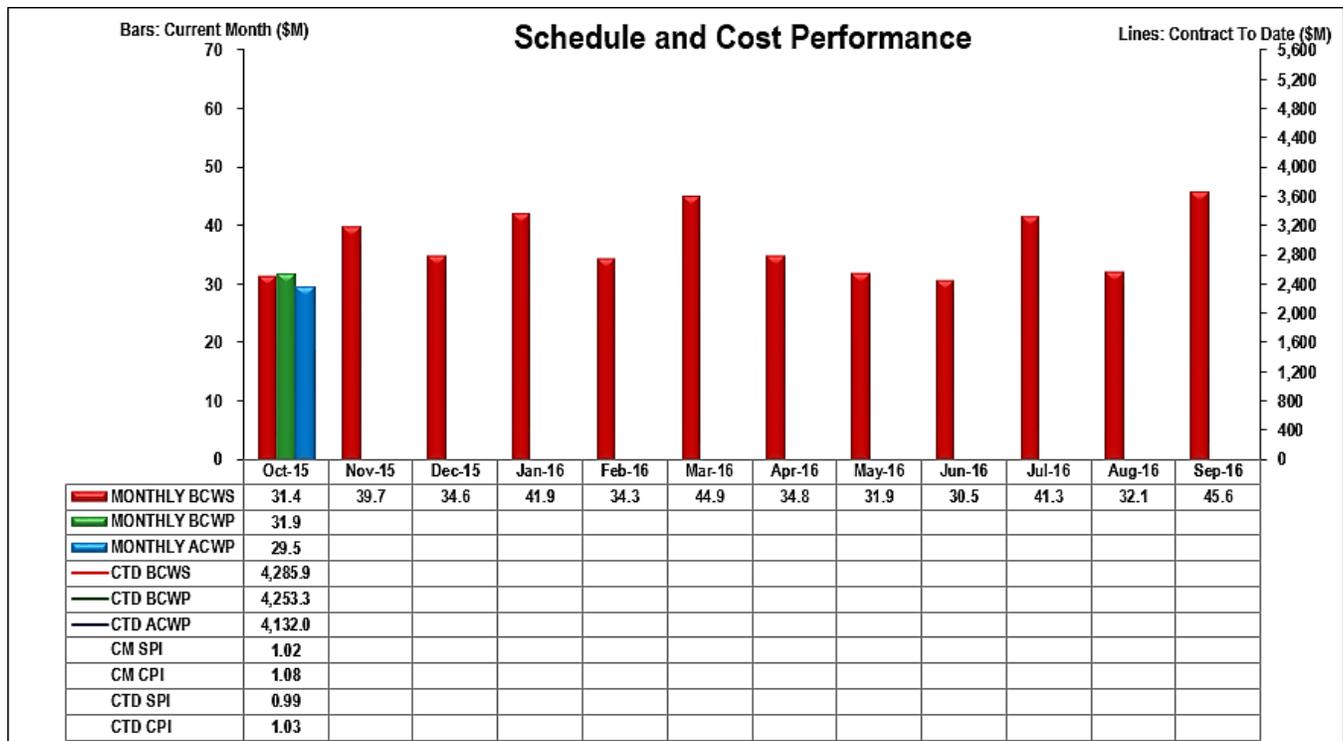
Project Services and Support

- 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



	SM Current Period					SM Contract to Date					SM Contract Period		
	Budgeted Cost		Actual Cost	Variance		Budgeted Cost		Actual Cost	Variance		BAC	EAC	Variance
	BCWS	BCWP	ACWP	Schedule	Cost	BCWS	BCWP	ACWP	Schedule	Cost			
RL-0011 - Nuclear Materials Stab & Disp PFP	8.3	7.1	6.6	(1.3)	0.5	871.8	843.3	849.4	(28.5)	(6.0)	969.8	967.5	2.2
RL-0012 - SNF Stabilization & Disposition	4.4	6.4	5.2	2.0	1.2	521.5	522.1	535.1	0.6	(13.0)	717.5	724.0	(6.5)
RL-0013 - Solid Waste Stab & Disposition	7.7	7.8	7.0	0.1	0.9	987.8	991.0	933.8	3.3	57.2	1,335.3	1,255.1	80.2
RL-0030 - Soil & Water Rem-Grndwtr/Vadose	8.8	7.5	7.8	(1.3)	(0.3)	1163.7	1154.9	1135.2	(8.8)	19.7	1,565.4	1,513.8	51.5
RL-0040 - Nuc Fac D&D - Remainder	1.2	1.3	1.8	0.0	(0.6)	403.2	403.1	371.5	(0.1)	31.6	471.5	436.1	35.4
RL-0041 - Nuc Fac D&D - RC Closure Project	0.8	1.6	1.1	0.9	0.5	317.6	318.6	290.5	0.9	28.1	398.9	367.4	31.5
RL-0042 - Nuc Fac D&D - FFTF Project	0.1	0.1	0.1	(0.0)	0.1	20.2	20.3	16.6	0.0	3.7	26.7	22.7	4.0
Total	31.4	31.9	29.5	0.5	2.4	4,285.9	4,253.3	4,132.0	(32.5)	121.3	5,485.1	5,286.6	198.4

(Values are rounded to the nearest \$0.1M)
 (Values do not have UB breakout)

Performance Summary

CHPRC continues to track completion of contract scope within budget and is currently projecting a Variance at Completion of \$198.4 million with \$60.3 million of Management Reserve (MR) for a total positive variance of \$258.7 million.

For October and the FY, the project was 1.5 percent ahead of schedule and 7.4 percent under planned cost. Contract to Date (CTD) the project was 0.8 percent behind schedule and 2.9 percent under planned cost.

The current month favorable schedule variance is within reporting thresholds.

The current month favorable cost variance is primarily due to RL-0012 accruing for claims for the Annex Facility Construction pending final negotiations and closeout with the Contractor.

FUNDING ANALYSIS

FY2016 Funds vs. Fiscal Year Spend Forecast (\$M)

PBS	Project	FY 2016		Variance
		Projected Funding	Spending Forecast	
RL-0011	Nuclear Materials Stabilization and Disposition	116.2	104.6	11.6
RL-0012	Spent Nuclear Fuel Stabilization and Disposition	114.3	86.9	27.4
RL-0013	Waste and Fuels Management Project	109.6	104.4	5.2
RL-0030	Soil, Groundwater and Vadose Zone Remediation	126.1	125.3	0.8
RL-0040	Nuclear Facility D&D, Remainder of Hanford	24.6	22.9	1.7
RL-0041	Nuclear Facility D&D, River Corridor	15.1	14.0	1.1
RL-0042	Fast Flux Test Facility Closure	3.3	1.7	1.6
Total Base:		509.3	459.8	49.5

Funds/Variance Analysis

FY2016 initial funding guidance received from RL reflects a total expected funding level of \$509.3 million. The funds include the Line Item funding for the STP CAP project, which has been assigned for FY2016 and FY2017 work scope resulting in a positive variance in FY2016.

BASELINE CHANGE REQUESTS

In October 2015, CHPRC approved and implemented twenty four (24) BCRs impacting the Performance Measurement Baseline (PMB). Each change request is identified in the table below:

Change Request #	Title	Summary of Change
BCR-013-16-001R0	<i>CO #282, Burial Ground CA/HCAs to URMAs</i>	This BCR incorporates the scope valued at \$237.3K associated with Change Order (CO) #282 and the related NTE value of \$250K authorized by Contract Modification (CM) 414 on June 12, 2015. This BCR increased the PMB by \$237K.
BCR-013-16-002R0	<i>Definitization of CO #290, Canister Storage Building (CSB) Stack Modeling</i>	This BCR incorporates the definitization of CO #290 documented by CM 435, received September 24, 2015. The scope of CO #290 is to re-evaluate and perform a statistical analysis of the data generated during qualification testing of the CSB stack to determine if stack flow rates can be qualified as representative and what that range would be. This BCR increased the PMB by \$119K.
BCR-013-16-003R0	<i>T Plant Repack to WA-3 - Certify Large/Small container CH Transuranic Mix Waste (TRUM)</i>	This BCR removes ~\$6 million of T Plant waste repackaging work scope from PMB and adds \$6 million of work scope for WA-3 - Certify Large/Small container CH Transuranic Mix Waste (TRUM) for net change of \$0. This BCR does not change the PMB value.
BCR-030-16-001R0	<i>CO #293, 100-BC-5 RI-FS Decision Document Rewrite</i>	This BCR incorporated the scope associated with CO #293 which was issued by CM 426 on August 13, 2015. This BCR increased the PMB by \$333K.
BCR-030-16-002R0	<i>CO #292, 200-SW-2 RIFS WP Aerial Rad Survey</i>	This BCR incorporated the scope associated with the CO # 292 \$200K NTE value authorized by CM 425 issued on August 12, 2015. This BCR increased the PMB by \$200K.
BCR-030-16-003R0	<i>PBS RL-0030 Work Scope Deferral</i>	This BCR deferred FY2016 work scope associated with FY2016 Value Engineering Studies, 200-IS-1 Decision Documents, and Deep Vadose Zone Treatability Tests that have been impacted by RL funding priorities to FY2017 and beyond. This BCR does not change the PMB value.
BCR-030-16-004R0	<i>Revise 100-FR-3 Planning to Reflect ROD Final Remedy</i>	This BCR revised 100-FR-3 planning to be consistent with the ROD final remedy. This BCR does not change the PMB value.
BCR-030-16-005R0	<i>Combine Redundant WBS from Definitized Change Proposals</i>	This BCR combined redundant WBS elements for definitized Change Orders originally created to facilitate cost segregation to enable simplified time charging. This BCR does not change the PMB value.
BCR-030-16-006R0	<i>Definitization of CO #267, 200-UP-1 SE Chromium Plume Characterization, Evaluation, and Remedial Design</i>	This BCR incorporates the definitization of CO #267 as documented by CM 432 received September 29, 2015. This BCR increased the PMB by \$5,423K.
BCR-040-16-001R0	<i>Deferral of Canyon Risk Mitigation Planning Package</i>	This BCR deferred the start of Planning Package CR-0025, scheduled to start November 30, 2015, to March 28, 2015. This deferral will provide additional time to resolve with RL which canyon risk mitigation activities will be performed. This BCR does not change the PMB value.

Change Request #	Title	Summary of Change
BCR-041-16-001R0	<i>Incorporate PBS RL-0041 Capital Asset Project FY2016 Performance Measures</i>	This BCR incorporated FY2016 Performance Measures for the PBS RL-0041 Capital Asset Project as reflected in CM 439 received September 29, 2015. This BCR does not change the PMB value.
BCR-041-16-002R0	<i>Deferral of PBS RL-0041 Unfunded Work Scope</i>	This BCR deferred FY2016 work scope associated with 100-K Area waste site remediation and facility demolition that was not funded. Specifically, remediation of waste sites located in Area AM - 100-K-81, 100-K-80, 116-K-3 (WBS 041.02.02.03.07 100-K Waste Site Area AM – Part 2), and the demolition of 1908K (WBS 041.02.04.03.04 1908K Structure – Part 2). This BCR does not change the PMB value.
BCR-PRC-16-002R0	<i>Incorporate RL-0012 CAP 15-D-401 Sludge Retrieval Project Baseline</i>	This BCR modifies the PMB to implement the PBS RL-0012 CAP 15-D-401 baseline as directed by Correspondence 1504881 and Plateau Remediation CM 445. This BCR increased the PMB by \$21,317K.
BCR-PRC-16-003R0	<i>Incorporate FY2016 Performance Measures</i>	This BCR incorporated FY2016 Performance Measures for PBSs RL-0013, RL-0030, and RL-0040 as reflected in CM 439 received September 29, 2015. BCR-PRC-16-002R0, <i>Incorporate RL-0012 CAP 15-D-401 Sludge Retrieval Project Baseline</i> , incorporates PBS RL-0012 capital asset project related FY2016 PEMP deliverables. This BCR does not change the PMB value.
BCR-PRC-16-004R0	<i>Address Bags of Suspect Plutonium Nitrate</i>	This BCR incorporated the scope to address the bags of suspect Plutonium nitrate in REDOX as authorized by CM 445. This BCR increased the PMB by \$1,645K.
BCR-PRC-16-005R0	<i>Reinstate Canyon Facility Risk Mitigation</i>	This BCR incorporated scope for demolition preparation and demolition for high risk small facilities including REDOX ancillary buildings 2710S, 2718S, and 2711S which was authorized by CM 445. This BCR increased the PMB by \$2,000K.
BCR-PRC-16-006R0	<i>Documentation to Support Canyon Stabilization and Risk Mitigation</i>	This BCR incorporated scope for initiation of DSA updates, FHAs, and Draft EE/CAs required for canyon stabilization and risk mitigation as authorized by CM 445. This BCR increased the PMB by \$1,988K.
BCR-PRC-16-007R0	<i>Increase Frequency of PMs</i>	This BCR incorporated scope to address deferred maintenance - e.g. breakers that was authorized by CM 445. This BCR increased the PMB by \$1,705K.
BCR-PRC-16-008R0	<i>Reinstate Certify Large-Small Repack Container CH TRUM from CLIN7</i>	This BCR incorporates scope to address <i>Reinstate Certify Large-Small Repack Container CH TRUM certification of Large-Small Repack Container</i> as authorized by CM 445. This BCR increased the PMB by \$13,817K.
BCR-PRC-16-009R0	<i>Outer Area Waste Site Remediation</i>	This BCR incorporates scope for outer area waste site remediation as authorized by CM 445. This BCR increased the PMB by \$2,500K.

The Allocated (Distributed) Budget increased by \$51,284K.

Undistributed Budget Activity

BCR Number	Title	Fiscal Year	UB
BCR-PRC-16-010R0	<i>Undistributed Budget Adjustments October 2015</i>	2015 - 2018	\$-7,272K
BCR-PRC-16-012R0	<i>Revisions to Undistributed Budget for Contract Modification 445</i>	2015 - 2018	\$-23,655K
BCR-PRC-16-013R0	<i>Revisions to PBS RL-0012 Undistributed Budget Associated with Contract Modification 445</i>	2015 - 2018	\$-19,369K

The Undistributed Budget decreased by \$50,296K for an overall increase to the Performance Measurement Baseline of \$988K.

Management Reserve Activity

BCR Number	Title	Fiscal Year	MR
BCR-PRC-16-002	<i>Incorporate RL-0012 CAP 15-D-401 Sludge Retrieval Project Baseline</i>	2015 - 2018	\$-21,317K
BCR-PRC-16-013R0	<i>Revisions to PBS RL-0012 Undistributed Budget Associated with Contract Modification 445</i>	2015 - 2018	\$19,369K

Overall, there was a decrease of \$1,947K to Management Reserve during October.

Fee Activity

BCR Number	Title	Fiscal Year	Fee
NA	NA	2014 - 2018	NA

Overall, there was no change to Fee during October.

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

October 2015 Summary of Changes

	FY 2009-2013	FY2014	FY2015	FY2016	FY2017	FY2018	FYs 2014-2018	Contract Period Total	Total PMB
September 2015 Estimate									
PMB	3,391,477	391,653	471,323	436,340	389,299	403,993	2,092,608	5,484,085	5,484,085
MR	0	0	0	23,187	13,984	25,107	62,278	62,278	62,278
Fee	155,504	14,325	14,501	21,292	9,463	17,822	77,403	232,907	232,907
Total	3,546,981	405,978	485,824	480,819	412,747	446,922	2,232,290	5,779,270	5,779,270
October 2015 Change									
PMB									
Change to PMB	0	0	0	6,651	32,480	-38,143	988	988	988
MR									
Change to MR	0	0	0	-1,947	0	0	-1,947	-1,947	-1,947
Fee									
Change to Fee	0	0	0	0	0	0	0	0	0
Total Change	0	0	0	4,703	32,480	-38,143	-959	-959	-959
October 2015 Estimate									
PMB	3,391,477	391,653	471,323	442,991	421,780	365,850	2,093,597	5,485,073	5,485,073
MR	0	0	0	21,239	13,984	25,107	60,330	60,330	60,330
Fee	155,504	14,325	14,501	21,292	9,463	17,822	77,403	232,907	232,907
Total	3,546,981	405,978	485,824	485,522	445,227	408,779	2,231,330	5,778,311	5,778,311

Changes to/Utilization of Management Reserve in October 2015

	FY2009-2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2014-2018	Total
September 2015 MR Totals								
RL-0011	0	0	0	7,293	3,800	0	11,093	11,093
RL-0012	0	0	0	5,000	5,000	3,897	13,897	13,897
RL-0013	0	0	0	2,751	800	6,824	10,375	10,375
RL-0030	0	0	0	2,897	484	6,546	9,926	9,927
RL-0040	0	0	0	1,000	1,000	740	2,740	2,740
RL-0041	0	0	0	4,096	2,800	7,000	13,896	13,896
RL-0042	0	0	0	150	100	100	350	350
Total	0	0	0	23,187	13,984	25,107	62,278	62,278
October 2015 MR Changes/Utilization								
RL-0011	0	0	0	0	0	0	0	0
RL-0012	0	0	0	-1,948	0	0	-1,948	-1,948
RL-0013	0	0	0	0	0	0	0	0
RL-0030	0	0	0	0	0	0	0	0
RL-0040	0	0	0	0	0	0	0	0
RL-0041	0	0	0	0	0	0	0	0
RL-0042	0	0	0	0	0	0	0	0
Total	0	0	0	-1,948	0	0	-1,948	-1,948
October 2015 MR Totals								
RL-0011	0	0	0	7,293	3,800	0	11,093	11,093
RL-0012	0	0	0	3,053	5,000	3,897	11,950	11,950
RL-0013	0	0	0	2,751	800	6,824	10,375	10,375
RL-0030	0	0	0	2,897	484	6,546	9,926	9,927
RL-0040	0	0	0	1,000	1,000	740	2,740	2,740
RL-0041	0	0	0	4,096	2,800	7,000	13,896	13,896
RL-0042	0	0	0	150	100	100	350	350
Total	0	0	0	21,239	13,984	25,107	60,330	60,331

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 -10/31/2015				Projection to FY18	
Reporting Category				Planned Subcontracting:	\$2,439,813,277
				Contract-to-date awards:	\$2,288,328,252
				Bal remaining to award:	\$151,485,025
	\$ Value	%	Goal %	Goal award\$	Bal to Goal
SB	\$1,191,771,848	52.08%	49.3%	\$1,202,827,946	\$11,056,098
SDB	\$204,911,731	8.95%	8.2%	\$200,064,689	-\$4,847,042
SWOB	\$235,649,806	10.30%	7.5%	\$182,985,996	-\$52,663,810
HUB	\$44,721,216	1.95%	2.2%	\$53,675,892	\$8,954,676
VOSB	\$150,077,584	6.56%	3.5%	\$85,393,465	-\$64,684,119
SDVO	\$78,004,562	3.41%	1.3%	\$31,717,573	-\$46,286,989
NAB	\$36,063,168	1.58%	N/A		
Large	\$607,331,306	26.54%	N/A	PRC clause H.20 small business requirement ≥ 17% of total Contract Price performed by SB.	
GOVT	\$2,262,011	0.10%	N/A		
GOVT CONT	\$482,866,522	21.10%	N/A		
EDUCATION	\$102,319	0.00%	N/A	Total Contract (mod 421):	\$5,732,255,464
NONPROFIT_	\$3,647,248	0.16%	N/A	17% rqmt:	\$974,483,429
FOREIGN	\$346,999	0.02%	N/A	SB actual:	\$1,191,771,848
Total	\$2,288,328,252	100.00%	N/A	Bal to rqmt	-\$217,288,419

Notes:

1. Since the CHPRC contract award in October 2008, CHPRC has subcontracted over \$2.28 billion in goods and services with over 52 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-0013, Transuranic Waste Certification	WIPP provides shipping resources and manages the schedule for transportation of these containers to WIPP. The schedule is variable and the number of shipments is controlled by DOE-HQ on a complex-wide priority. Cost for shipment of TRU waste offsite is borne by the Carlsbad Field Office.	Ongoing

Section A

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



J. M. Swartz
Vice President for
PFP Closure Project

October 2015
CHPRC-2015-10, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

The 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	-	228 gloveboxes/hoods
KPP Rooms/Areas Ready for Demo	-	60 rooms/areas
Asbestos/ACM Removed	520	22,886 feet
Process Vacuum Piping Dispositioned	427	3,907 feet
Process Transfer Line Dispositioned	46	1,312 feet
Pencil Tank Units Removed (Shipped)	-	196 pencil tank units
Buildings Ready for Demo	-	43 structures
Buildings Demolished or Removed	-	43 structures
Non-radioactive Waste Shipped	-	72 m ³
TRU/TRU-M Shipped	70 m ³	1,974 m ³
LLW/MLLW Shipped	122 m ³	6,752 m ³

The removal of plutonium-contaminated process equipment continued with a particular focus on removing gloveboxes, associated piping, and ductwork. The total number of gloveboxes removed to date is at 98 percent complete.

- Continued with the Implementation Verification Review (IVR) for HNF-15500 “PFP. Deactivation and Decommissioning Documented Safety Analysis” Revision 12 and HNF-15502 “PFP Deactivation and Decommissioning Technical Safety Requirements” Revision 12.
- Continued development of Safety Basis Revision 13 in preparation for submittal to RL.
- The 242-Z team created access to the tank room.
- Tank isolations were started on W3, W4, W5, W1, and W13.
- Completed EF-5 inspection and placed exhaust fan back in service.
- Continued 236-Z PRF Canyon waste debris clean-up, packaging, and load-outs.
- Continued PRF Gallery Glovebox isolations.
- Completed Filter Box FB-36 removal from PRF.
- Removed 520 feet of asbestos.
- Removed 84 feet of E-4 ducting from 234-5Z Duct Level.
- Completed size reducing top level of Glovebox HA-9A.

EMS Objectives and Target Status

Objective #	Objective	Targets	Actions	Due Date	Status
16-EMS-PFP-OB1-T1	Minimize emissions resulting from demolition of 234-5Z, 236-Z, 242-Z, and 291-Z.	Inspect 234-5Z, 236-Z, 242-Z, and 291-Z for the presence of asbestos containing materials (ACM) and produce a report identifying ACM requiring removal or abatement and methods for protecting remaining ACM from resulting in visible emissions.	1. Issue report documenting thorough inspection of 236-Z	12/31/15	TBD
			2. Issue report documenting thorough inspection of 242-Z	03/31/16	TBD
			3. Issue report documenting thorough inspection of 234-5Z	06/30/16	TBD
			4. Issue report documenting thorough inspection of 291-Z	09/30/16	TBD
16-EMS-PFP-OB1-T2	Minimize emissions resulting from demolition of 234-5Z, 236-Z, 242-Z, and 291-Z.	Develop an air dispersion model that will guide the D4 processes to keep radiological emissions as low as reasonably achievable below the regulatory limit of 10 mrem/year.	5. Issue air dispersion modeling report	12/31/15	TBD

TARGET ZERO PERFORMANCE

	Current Month	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	2	N/A
Total Recordable Injuries	0	3	N/A
First Aid Cases	7	66	<ul style="list-style-type: none"> • 10/2/15 – Employee lifted lid on job box, when lid slid down caused employee to twist and tighten stomach muscles causing strain. Employee taken to HPMC and returned to work with no new restrictions. (23825) • 10/2/15 – Employee diagnosed with potential contact/exposure to hazardous chemical after Hi-Q blue box started as he was preparing to calibrate. HPMC examined and completed lab work. Employee returned to work without restriction. (23827) • 10/7/15 – Employee stumbled which caused knee pain, employee taken to HPMC and returned to work with no restriction. (23832) • 10/8/15 – Employee cut thumb on sharp object while stocking shelves,

	Current Month	Rolling 12 Month	Comment
			<p>employee taken to HPMC and returned to work with no restriction. (23833)</p> <ul style="list-style-type: none"> • 10/12/15 – Employee was working on scaffold and bumped head on duct, causing neck pain. Employee taken to HPMC and returned to work with no restriction. (23836) • 10/15/15 – Employee reported a potential exposure to an unknown substance. Employee taken to HPMC and returned to work with no restriction. (23842) • 10/26/15: Employee inadvertently hit hand against duct, employee taken to HPMC and returned to work with no restriction.(23853)
Near Misses	0	4	N/A

KEY ACCOMPLISHMENTS

11.02 Maintain Safe & Compliant PFP

- Continued with the Information Validation Review (IRV) for HNF-15500 “PFP Deactivation and Decommissioning Documented Safety Analysis” Revision 12 and HNF-15502 “PFP Deactivation and Decommissioning Technical Safety Requirements” Revision 12.
- Continued developing Safety Basis Revision 13 in preparation for submittal to RL.
- Submitted a letter to RL requesting the implementation date for DSA Revision 12 be moved forward to no later than 30 days after removal of Glovebox HA-9A Plexiglas panels, as opposed to 30 days after glovebox size reduction.

11.05 Disposition PFP Facility

242-Z

- Efficiencies in process were realized upon examining photos from the last entry (e.g. scaffolding will be far less than anticipated).
- Created access to the 242-Z tank room.
- Air compressor failure impeded performance (~3wks).
- Photos were collected to terminate the waste in the tank room. Tanks W6, W13, and W5 are complete.
- Sample plan developed for material discovered in Tank W6.
- Tank W6 was removed to allow access for upcoming work.
- Tank isolations were started on W3, W4, W5, W1, and W13.

234-5Z

- RMA Line:
 - o Completed size reducing top level of Glovebox HA-9A.

234-5Z

- Duct Level:
 - o Removed 520 feet of asbestos.
 - o Removed 84 feet of E-4 ducting from 234-5Z Duct Level.
 - o Removed 46 feet of process transfer lines.
 - o Completed EF-5 inspection and placed exhaust fan back in service.

236-Z PRF

- Canyon:
 - o Continued Canyon waste debris clean-up, packaging, and load-outs.
- Gallery Gloveboxes:
 - o Continued 236-Z PRF Gallery Glovebox isolations.
- Bulk Area Clean-Out:
 - o Completed Filter Box FB-36 removal.

MAJOR ISSUES

Issue – The existing Documented Safety Analysis (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 DSA/TSR Revision 12 was approved by RL on May 4, 2015. The implementation plan has been approved, affected documents are being modified, and training is being performed. Implementation has been delayed to align with completion of the in-situ size reduction efforts being performed on the HA-9A and HC-9B Gloveboxes in 234-5Z. Implementation is now scheduled for the end of November 2015.

Issue – Removal of hazardous material will be coordinated using a regulatory compliant graded approach, to avoid cost and schedule impacts associated with complete removal of materials such as brass, electrical components, and lead based paint residues.

Corrective Action – Coordinate with Maintenance and Waste Integration to establish mass balance calculations for various hazardous materials, demonstrating how much hazardous material may remain with building rubble and still meet Environmental Restoration Disposal Facility (ERDF) waste acceptance criteria.

Status – PFP is continuing to work with Maintenance and Waste Integration to establish mass balance calculations. Calculations were completed in September using CHPRC-0560, *Plutonium Finishing Plant Rubble Calculations*, demonstrating that residual hazardous constituents are not expected to pose any significant cost and schedule impacts. Completed calculations have identified that minor segregation and packaging of specific material (i.e. large diameter fire suppression lines) may be necessary during demolition phases. More detailed mass balance calculations for the individual demolition areas will be completed by October 30, 2015 with the final reports being issued by the end of November. No change in status for the month of October.

Issue – PRF Canyon floor scrapings from Pan J staged in a collection tray on the Canyon floor expanded. A clear and unanticipated chemical reaction was occurring within the material. A previously noted hard substance was observed within the loose debris on Pan J. This hard

substance was originally thought to be concrete (congealed, spalled wall fines) but upon further review was believed to be a plasticized material, which was not unexpected.

Corrective Action – PFP will perform 100 percent visual inspection of all waste drums that contain PRF canyon waste. In addition, all Pan J waste packages will be retrieved and placed into the PRF Canyon after which waste will be unpackaged from the bags and cartons to meet combustible controls limitations. This work will be performed in the PRF Canyon.

Status – A meeting was held with facility subject matter experts (SMEs) and members of the PRF canyon work crew to discuss present status and recovery actions following the identification of a chemical reaction associated with the canyon floor pan wastes. Discussion was held to determine the extent of condition, recovery plan, and path forward to allow continued packaging of the canyon floor pan waste.

Issue - PFP Safeguards posture/requirements – PFP management team was contacted on October 6th by the Mission Support Alliance (MSA) Safeguards POC informed that there was an immediate need to reduce the physical inventory of specific nuclear materials staged in the PFP Waste Storage Area due to a safeguards requirement (not known to PFP team nor specified in the PFP procedures, contracts or other safety basis requirements).

Corrective Actions - Immediate actions were developed working with Safeguards, the PFP MBA custodian and PFP Waste Operations which resulted in the immediate movement of a total of 4 drums to other approved waste storage areas to satisfy the immediate Safeguards request/requirement.

On October 22, 2015, a Limited Area was established on the North side of the PFP facility supporting the Waste Storage in MBA-223 and this resolved the Safeguards Storage Issue.

Status - Action is resolved with establishment of the Limited Area. This issue will be closed in November reporting.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

-  Opportunity currently realized, or mitigation efforts are currently working toward, or after risk trigger with no foreseeable impacts.
-  Mitigation efforts are currently working toward risk trigger with the possibility of actions not in place prior to risk occurrence. Recovery actions may be needed.
-  Risk currently realized, or risk mitigation efforts are past risk trigger date with foreseeable impacts. Recovery actions needed.

-  Increased Confidence
-  No Change
-  Decreased Confidence

Risk Title	Unmitigated Risk Impacts	Assessment		Comments		
		Month	Trend			
RL-0011/WBS-011.OA						
Explanation of major changes to the project monthly spotlight chart:						
In the month of October RL-0011 conducted risk register updates based on current planning assumptions, and to-go work scope. Based on these updates one (1) risk was identified as a potential transfer risk to RL (PFP-DEMO-18).						
Realized Risks (Risks that are currently impacting project cost/schedule)						
No realized risks identified for RL-0011 in the month of October.						
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)						
Lifecycle Risk Triggers (Risk could be realized at any point of the project)						
PFP-092-01: Increased Characterization	Source term uncertainties increase the need for characterization above what is planned for cost and schedule, resulting in cost impacts and schedule delays. Risk Handling Strategy: Control Probability: Medium (26% to 74%) Worst Case Impacts: \$1.5 million, 45 days			Risk Trigger: Will continue throughout project lifecycle until Demolition activities commence.		
				Mitigation action(s)	FC Date	%
				Identify characterization coordinator to perform field characterization/sampling.	Complete	100
				Develop characterization strategy to lessen the unexpected identification of unknowns (i.e., beryllium, asbestos, radiological and vapors).	Complete	100
				Develop process for rapid integration of actions resulting from characterization results into planned field work activities.	Complete	100
Mitigation Assessment: In the month of October new risk owner re-characterized PFP-092, and is no longer a "key project risk". This risk was split out into two (2) different risks PFP-092-01 – deals with increased characterization effort due to uncertainties or missed opportunities - a need for more data collection events. This is viewed as a moderate risk. PFP-092-02 deals with impacts of characterization results once received - real high holdup discovered late. It is the latter component that is a high risk due to potential to impact critical path. As a result of these changes PFP-092-01 will no longer be reported on; however, PFP-092-02 will be reflected next month.						
FY2016 Risk Triggers (Risk could be realized in FY2016)						
PFP-DEMO-02: Air Modeling Increases Equipment Removal/Decontamination for Demo	Air Dispersion identified additional MAR reduction higher than planned or RL directs constrains from Revision 12 SER, resulting in additional decontamination/fixatives and equipment removal prior to initiating open-air demolition resulting in schedule delays. Risk Handling Strategy: Control Probability: Medium (26% to 74%) Worst Case Impacts: \$0, 120 days *Cost increase will result in cost per day impacts from crews, and hotel load.			Risk Trigger: 07/06/2015		
				Mitigation action(s)	FC Date	%
				Work with the CHPRC environmental to ensure that an understanding of equipment, components, and residual material criterion are understood and bounded for air modeling	Complete	100
				Develop SOW to allow PNNL to update Air Dispersion model based on engineering controls to sequester MAR.	Complete	100
				Deliver bounding estimates of residual holdup and current planned demolition sequence durations to PNNL to isolate any period where demolition progress may need to be slowed.	Complete	100
				Once the residual material/contamination is quantified, work with regulators to identify controls to allow for equipment removal and demolition as planned.	12/3/15	0
				Identify opportunities where demolition operations could be accelerated to recover any schedule delays	12/3/15	75
Mitigation Assessment: In the month of October, the project identified additional mitigation actions to increase risk posture. At this time 236-Z (PRF) appears to be the only area that will challenge intended demolition boundaries and planned activities to decontaminate Gallery Gloveboxes and the Canyon walls (post debris removal and floor grouting) and should achieve requisite levels. Mitigation action delay of two (2) months results in no alternative course of actions needed at this time.						

Risk Title	Unmitigated Risk Impacts	Assessment		Comments		
		Month	Trend			
RL-0011/WBS-011.OA						
PFP-291-01 - 291-Z Characterization Unknowns	Characterization data will uncover higher levels of contamination than expected in the stack and 291-Z plenum to support demolition, resulting in cost impacts and schedule delays. Risk Handling Strategy: Control Probability: Medium (26% to 74%) Worst Case Impacts: \$1 million, 88 days	●	↔	Risk Trigger: 07/09/16		
				Mitigation action(s)	FC Date	%
				Identify characterization team to obtain characterization data for 291-Z.	01/07/16	0
				In the event additional cleanout is required, work with Plan of the Day/Plan of the week to schedule additional overtime to recover from schedule delays.	04/04/16	0
Mitigation Assessment: In the month of October new risk owner re-characterized PFP-291-01, and is no longer a “key project risk”. As a result this risk will no longer be reported on, but will continue to be monitored.						
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)						
FY2016 Risk Triggers (Risk could be realized in FY2016)						
PFP-PRF-22: OPP: NDA Process Allows for Section Results to be used	Improved NDA process allows for disposition of Gallery Gloveboxes into waste containers by using section data rather than summation of entire glovebox, resulting in schedule efficiencies. Risk Handling Strategy: Exploit Probability: Likely (75% to 90%) Worst Case Impacts: \$0, 60 days *Cost savings will result in cost per day from crews, and hotel load.	●	↔	Risk Trigger: 10/05/2015		
				Mitigation action(s)	FC Date	%
				Identify activities necessary to implement in the FES	Complete	100
				Complete FES activities (last FES activity PRF-GGB-0120)	05/11/16	0
Mitigation Assessment: No changes in the month of October. No foreseeable impacts in the near future. Opportunity will continue to be tracked and monitored throughout the Gallery Glovebox subproject lifecycle. No alternative course of actions needed at this time.						
Unassigned Risks (Pending ownership of identified risks/opportunities)						
No unassigned risks identified in the month of October .						

PROJECT BASELINE PERFORMANCE

Current Month

(\$M)

WBS 011/RL-0011 Nuclear Matl Stab & Disp PFP	Budgeted Cost of Work Scheduled (BCWS)	Budgeted Cost of Work Performed (BCWP)	Actual Cost of Work Performed (ACWP)	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)
Total	8.3	7.1	6.6	(1.3)	-15.1	0.5	7.2

Numbers are rounded to the nearest \$0.1 million.

CM Schedule Variance: (-\$1.3M/-15.1%)

The current month unfavorable schedule variance is the result of impacts resulting from a chemical reaction when working on PRF canyon floor cleanup efforts, stop works associated with the PremAire breathing air systems support the 242-Z tank work and the 234-5Z HA-9A Glovebox in-situ size reduction efforts, stop work associated with draining of chemical lines in the 234-5Z duct level, and a lack of resources to complete balance of 234-5Z work. While resources have been assigned to complete higher priority work (i.e. RMA/RMC glovebox removal, 242-Z demo prep, and PRF canyon entries), to accelerate start of demo of PRF and 242-Z and implement DSA Revision 12, the balance of 234-5Z scope is not staffed or performing as planned. Eight teams are planned to be working the balance of 234-5Z scope, currently only five teams are assigned. Impacts from the stop works and PRF chemical reaction have resulted in a three week impact to the critical path activities to achieving slab on grade at PFP and have been incorporated into the current performance schedule.

CM Cost Variance: (+\$0.5M/+7.2%)

The current month positive cost variance is primarily the result of labor efficiencies being realized in 242-Z by using Decontamination and Decommissioning (D&D) workers instead of Nuclear Chemical Operators (NCOs) and by not having to utilize as many Pipefitters as previously planned for the current portion of work. Field work efficiencies in the Tank Room have been realized by leaving some equipment/tanks in place for demolition rather than size reducing them and removing them prior to demolition. In addition, the 242 team used fewer PremAire Breathing Air Suits and hoses than previously planned, this is partially offset by impacts associated with the chemical reaction in PRF, stop works associated with PremAire breathing air systems, and stop work associated with draining of chemical lines in the duct level. Impacts from the stop works and PRF chemical reaction have been incorporated into the EAC.

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	871.8	843.3	849.4	(28.5)	-3.3%	(6.0)	-0.7%	969.8	967.5	2.2

Numbers are rounded to the nearest \$0.1 million

CTD Schedule Variance (-\$28.5M/-3.3%)

The Schedule Variance is within reporting thresholds.

CTD Cost Variance (-\$6.0M/-0.7%)

The Cost Variance is within reporting thresholds.

Variance at Completion (+\$2.2M/+0.2%)

The Variance at Completion is within reporting thresholds.

Contract Performance Report Formats are provided in Appendix A.

FUNDS vs. SPEND FORECAST (\$M)

WBS 011/RL-0011 Nuclear Matl Stab & Disp PFP	FY2016		Spend Variance
	Projected Funding	Spending Forecast	
RL-0011	\$116.2	\$104.6	\$11.6

Numbers are rounded to the nearest \$0.1 million

Funds/Variance Analysis

FY2016 expected funding for Project Baseline Structure (PBS) RL-0011 is \$116.2 million. The Fiscal Year Spend Forecast for October is \$104.6.

Critical Path Schedule

Following adjustments to the PRF Canyon characterization schedule, the new PFP Critical Schedule Path flows through the 234-5Z Duct level E4 ducting and filter box removal, then to the final focused decontamination throughout 234-5Z. This leads into 234-5Z Cold & Dark and Ready for Demo, allowing demolition of 234-5Z and attached facilities to commence. Once complete, the final step is stabilization of the PFP site leading to completion of the final Tri-Party Agreement milestone – M-083-00A - *PFP Facility Transition and Selection Disposition Activities*.

Baseline Change Requests

BCR-PRC-16-010R0, *Undistributed Budget Adjustments October 2015*

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 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 Significant Progress on Deactivation & Removal of 208 Glovebox's and Disposal of all 236-Z Pencil Tanks	09/30/15		9/30/15	Complete

M-083-00A	PFP Facility Transition and Selection Disposition Activities	09/30/16		1/3/17	<p>Stop works associated with Premaire breathing air suits/hoses in support of in-situ size reduction efforts caused the Tri-Party Agreement milestone projected completion date to slip. As the PFP Project continues to make progress on the behind schedule critical path work scope being performed it is anticipated that efficiencies will be recognized to bring the schedule into alignment with a completion date of September 30, 2016. However, this Tri-Party Agreement completion is currently at risk of meeting the September 30, 2016 commitment date. The impacts from the stop works and chemical reaction in PRF during the month of October have caused the forecast date to move three weeks since last month.</p>
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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)



R. M. Geimer
Vice President for
K Basin Operations and
Plateau Remediation
(KBO&PR)

October 2015
CHPRC-2015-10, 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, supporting the Engineered Container Retrieval and Transport System (ECRTS) Project work by supporting Annex construction activities and continued debris dose rating and relocation activities in 105KW Basin. The Operations team worked several monthly and quarterly routines during the period.
- RL continues their review of the updated Preliminary Documented Safety Analysis (PDSA) and Safety Design Strategy (SDS). Development of the KW Basin integrated DSA, which combines the ECRTS PDSA and the KW Basin FSAR into a single safety basis document continued. The ECRTS Project Procurement currently has fourteen procurement packages fully developed with fabrication in progress, five procurement packages have been completed and with one package remaining to be developed.
- Continued testing activities at the MASF and prepared for cold commissioning. Continued work on developing and approving test specifications and supporting AVS inspection and tagging of ECRTS Equipment. Reconfigured system to as-delivered status in preparation for Operations personnel Group 2 training/familiarization.
- Annex Construction continued working remaining punch list items.
- Establishment of STP as a Capital Asset Project (CAP) continued. Implemented BCR to incorporate CAP baseline into PMB. Provided documentation for upcoming Independent Cost Estimate (ICE)/External Independent Review (EIR) in November.

EMS OBJECTIVES AND TARGET STATUS

None at this time.

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	3	23	<ul style="list-style-type: none"> • 10/07/2015 – Pulling on tarp on Roll-on/Roll-off (RO/RO) container, employee strained left shoulder. (23834) • 10/13/2015 – Putting liner in RO/RO container, employee strained right elbow. (23837) • 10/26/2015 – Stepping out of truck, employee strained right hip. (23852)
Near-Misses	0	1	N/A

KEY ACCOMPLISHMENTS

- ECRTS Process Equipment Procurement, completed fabrication and delivered three Booster Pump Skids and two Rupture Disk Skids to MASF.
- Complete fabrication of the Overfill Recovery Tool (ORT) and testing is in progress.
- Completed fabrication, calibration, and testing on ECRT-CAB-601/601A – Oxygen Analyzer, fabrication and testing activities are complete on PNL-402 (Instrument Disconnect Panel) and CHPRC Plastic Shop has completed fabrication of the first three sets of contamination drapes.
- MASF:
 - Re-configured the ECRTS test mockup to support construction personnel training on engineered container sample tube removal and engineered containers (ECs) sample lid removal. Construction personnel completed training on the removal of sample tubes in K Basin ECs, removal of top two EC sections, divider plate installation, dunnage deployment, and EC lid installation using the ECRTS mockup in MASF. The K-Basin pool mockup was then re-configured with removal of top two container sections and lid placement in preparation for Operations personnel to continue familiarization and training.
 - Completed fabrication of long pole cameras and wedge tool for Construction use during EC rework.
- ECRTS Sludge Transfer System Container (STSC)/CASK Venting Demonstration:
 - STS cask leak test activity to demonstrate leak testing hardware and methodology was completed and issued STS cask leak test report.
 - Annex Construction completed the hydrostatic and forward flow test for the sprinkler system, completed heat trace system CAT; completed contractor cleanup of lay down yard, Mechanical Contractor completed all punch list items for the compressed air/instrument air systems, and completed air compressor and dryer vendor start up.
 - The T Plant Sludge Storage Equipment fabrication contract was awarded with the kickoff meeting held on October 13, 2015. The contractor has begun work on submittals and Request for Information (RFI).
 - 100K Operations completed pre-filter change-out on Unit 2 HVAC at KW Basin, re-lamping KW Basin, loading 105KW Ion Exchange Columns (IXMs) with resin, Emergency Preparedness Full-UP Drill and Operations Drill, 105KW Admin Area HVAC filter replacement and an unregulated waste shipment. The KW Basin operation team successfully completed extraction of approximately 750 ml of sample material from the KW-105 North load out pit immediately following a Sand Filter Back Wash. Sample material was safely packaged and shipped to Pacific Northwest National Laboratory (PNNL) for analysis.
- K Basin Deactivation Preparation:
 - Completed Task 1 development testing for the garnet filter media removal and Task 2 evaluation and selection of camera hardware for remote viewing of the inside of the garnet filter vessel.

MAJOR ISSUES

None currently identified.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

- Opportunity currently realized, or mitigation efforts are currently working toward, or after risk trigger with no foreseeable impacts.
- Mitigation efforts are currently working toward risk trigger with the possibility of actions not in place prior to risk occurrence. Recovery actions may be needed.
- Risk currently realized, or risk mitigation efforts are past risk trigger date with foreseeable impacts. Recovery actions needed.

- ↑ Increased Confidence
- ↔ No Change
- ↓ Decreased Confidence

Risk Title	Unmitigated Risk Impacts	Assessment		Comments																		
		Month	Trend																			
RL-0012/WBS-012																						
Explanation of major changes to the project monthly spotlight chart: No major changes to the spotlight chart for the month of October.																						
Realized Risks (Risks that are currently impacting project cost/schedule)																						
STP-134-A: Contract Close-Out, Balance of CAT, & Subcontractor Performance - Annex Construction	Contract closeout administrative cost, scope, and schedule are greater than anticipated extending the project closeout process beyond the planned work scope period requiring additional support and resources to assist in the contract closeout process as a result of late change requests, post contract REA's and change requests resulting, arbitration, post contract claims or legal proceedings. Risk Handling Strategy: Accept Probability: Low (10% to 25%) Worst Case Impacts: \$6.5 million, 28 days	●	↑	Risk Event: Change orders to limit eventual claims at the end of the job. <table border="1" style="width: 100%; border-collapse: collapse; font-size: 8px;"> <thead> <tr style="background-color: #e0e0e0;"> <th>Risk recovery action(s)</th> <th>Risk Date</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Issued Subcontractor Status Request Matrix</td> <td rowspan="3" style="text-align: center;">05/08/12</td> <td style="text-align: center;">Complete</td> <td style="text-align: center;">100</td> </tr> <tr> <td>Develop estimate on the "To Go Costs"</td> <td style="text-align: center;">Complete</td> <td style="text-align: center;">100</td> </tr> <tr> <td>Document changes into Phase I or Phase II completion buckets</td> <td style="text-align: center;">Complete</td> <td style="text-align: center;">100</td> </tr> <tr> <td>Incurring Costs have been submitted by Contractor – CHPRC is reviewing.</td> <td></td> <td style="text-align: center;">12/31/15</td> <td style="text-align: center;">95</td> </tr> </tbody> </table> Recovery Action Assessment: Approximately 25 items remain on Construction punchlist. 8 of 9 Sub-CAT's completed. Fire projection Sub-CAT descope from subcontractor and the Sub-CAT is being rewritten by CHPRC and requires further clarification by the CHPRC FPE. Post Power up CAT is in progress and approximately 85% complete. Delays have been encountered with mechanical control system testing (i.e., ATS) and trouble shooting is in progress. Forecast completion of the CAT testing by the end of November, possibly sooner depending on FPE feedback on fire system functional testing. CHPRC is awaiting proposal response from the subcontractor. CHPRC cost proposal from February 28, 2015, to contract completion is under review by CHPRC. The slip to the incurred cost review does not result in any alternate actions at this time.	Risk recovery action(s)	Risk Date	FC Date	%	Issued Subcontractor Status Request Matrix	05/08/12	Complete	100	Develop estimate on the "To Go Costs"	Complete	100	Document changes into Phase I or Phase II completion buckets	Complete	100	Incurring Costs have been submitted by Contractor – CHPRC is reviewing.		12/31/15	95
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Document changes into Phase I or Phase II completion buckets		Complete	100																			
Incurring Costs have been submitted by Contractor – CHPRC is reviewing.		12/31/15	95																			
STP-067A: Safety Classification of SSCs	RL requires CHPRC to upgrade the safety classification of systems, structures, and/or components to a safety classification more conservative than the safety analysis dictates resulting in cost impacts, and schedule delays. Risk Handling Strategy: Accept Probability: Low (10% to 25%) Worst Case Impacts: \$600K, 120 days	●	↑	Risk Event: A PDSA Safety Evaluation Report (SER) containing three Conditions of Approval (COAs) was transmitted to CHPRC on February 5, 2015, (1500632/15-NSD-0027_RL). RL has requested submittal of a new or revised STSC headspace hydrogen mitigation control strategy for review and approval. The Nuclear Safety Initiatives for spray leak methodology/spray leak control and for sludge layering have been approved, which will allow design modifications and related procurements to begin. All design changes will be reviewed through the USQ-Like process to ensure compliance with the approved PDSA, subject to the restrictions imposed by the COAs. <table border="1" style="width: 100%; border-collapse: collapse; font-size: 8px;"> <thead> <tr style="background-color: #e0e0e0;"> <th>Risk recovery action(s)</th> <th>Risk Date</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Prepare a Notice of Change to notify RL that CHPRC believes a scope change has occurred with developing a PDSA.</td> <td rowspan="4" style="text-align: center;">02/05/15</td> <td style="text-align: center;">Complete</td> <td style="text-align: center;">100</td> </tr> <tr> <td>Meet with RL to agree upon the Actions required to resolve COQ number 1, number 2, and number 3.</td> <td style="text-align: center;">Complete</td> <td style="text-align: center;">100</td> </tr> <tr> <td>Execute the agreed upon work scope to update the ECRS Design and PDSA.</td> <td style="text-align: center;">Complete</td> <td style="text-align: center;">100</td> </tr> <tr> <td>Resubmit the updated PDSA to RL for approval.</td> <td style="text-align: center;">Complete</td> <td style="text-align: center;">100</td> </tr> </tbody> </table> Recovery Action Assessment: In the month of October CHPRC did not receive any indication that RL has issues with the PDSA revision submitted in September. CHPRC and RL Senior Management met and agreed upon a path forward. Recovery actions listed above are consistent with meeting results from April 6, 2015. Although CHPRC submitted a NOC via CHPRC-1501242, dated March 19, 2015, RL denied a change occurred via 15-AMRP-0142. No alternative course of actions needed at this time.	Risk recovery action(s)	Risk Date	FC Date	%	Prepare a Notice of Change to notify RL that CHPRC believes a scope change has occurred with developing a PDSA.	02/05/15	Complete	100	Meet with RL to agree upon the Actions required to resolve COQ number 1, number 2, and number 3.	Complete	100	Execute the agreed upon work scope to update the ECRS Design and PDSA.	Complete	100	Resubmit the updated PDSA to RL for approval.	Complete	100	
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Risk Title	Unmitigated Risk Impacts	Assessment		Comments														
		Month	Trend															
RL-0012/WBS-012																		
STP-123-T: Design Maturity - T-Plant	<p>The final Nitrogen System design is pending FHA update. The construction specification is currently in development. In addition, changes resulting from the PDSA impact the design. There is additional risk with bidder interpretation of the facility ECRs. They do not clearly provide the entire scope of the contractor's work and clarifying bid document details are required.</p> <p>Risk Handling Strategy: Accept</p> <p>Probability: Very Likely (>90%) Worst Case Impacts: \$200K, 96 days</p>			<p>Risk Event: The risk is being realized based on constructability reviews of the FMPs. The impacts associated with this are the additional cost and resources associated with correcting design errors and providing constructability aids, conducting material take offs, resulting in a lower cost underrun for performing the original design. Schedule impacts eminent due to spec and ECR quality. Actions for re-lidding design near term actions.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Risk recovery action(s)</th> <th>Risk Date</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Incorporate PTS Comments on Construction Spec.</td> <td rowspan="3" style="text-align: center;">03/03/15</td> <td style="text-align: center;">Complete</td> <td style="text-align: center;">100</td> </tr> <tr> <td>Complete PTS Construction Review w/Drawings and Specifications</td> <td style="text-align: center;">Complete</td> <td style="text-align: center;">100</td> </tr> <tr> <td>Incorporate Comments and Revise T-Plant Design Documents for the Construction SOW</td> <td style="text-align: center;">11/30/15</td> <td style="text-align: center;">99</td> </tr> </tbody> </table> <p>Recovery Action Assessment: The approved design specification and nitrogen system ECR was released on ~ August 13, 2015. The two-month delay in completing the design media has resulted in an equivalent delay in the completion of bid documents (i.e., SOW, construction aids). To minimize the schedule slip, a 90 percent draft bid document (draft SOW, specification, ECR's and construction aid) was issued to the bidders. The goal was to provide them a package so they could review the design, the associated requirements and formulate any bid questions they may have. A construction pre-bid conference was held on September 9, 2015 to review the bid documents. They were also provided with a 130-page power point presentation that walked them through the entire design and the T-Plant facility (i.e. photo essay) so they could appreciate the challenges and constraints. The SOW review by SME's was completed and approved on September 9, 2015, and a follow up T-Plant subcontractor facility walk down was held on September 10, 2015. Subcontractor bid questions were also submitted on September 10, 2015. Contractor questions have been reviewed and responses prepared. Clarifications, as applicable, were incorporated into the SOW. RFP preparation has been initiated and it is anticipated that the bid package will be issued to the subcontractors NLT October 13, 2015. The goal is to incorporate comments and address questions by NLT October 12, 2015. Alternative course of actions are pending a change in MDSA and TSR revision 11 (HNF-15280) direction from RL. As a result, the released design for the Nitrogen System is now in question and presents a new schedule risk to the project. This change is to be incorporated into the T-Plant Risk list or mitigated in the schedule and cost estimate update that is in progress. This issue is still a concern and resulted in slip to recovery actions. The slip to recovery actions currently does not impact project cost/schedule.</p>	Risk recovery action(s)	Risk Date	FC Date	%	Incorporate PTS Comments on Construction Spec.	03/03/15	Complete	100	Complete PTS Construction Review w/Drawings and Specifications	Complete	100	Incorporate Comments and Revise T-Plant Design Documents for the Construction SOW	11/30/15	99
Risk recovery action(s)	Risk Date	FC Date	%															
Incorporate PTS Comments on Construction Spec.	03/03/15	Complete	100															
Complete PTS Construction Review w/Drawings and Specifications		Complete	100															
Incorporate Comments and Revise T-Plant Design Documents for the Construction SOW		11/30/15	99															
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)																		
FY2018 Risk Triggers (Risk could be realized in FY2018)																		

Risk Title	Unmitigated Risk Impacts	Assessment		Comments																		
		Month	Trend																			
RL-0012/WBS-012																						
STP-018-O: STP Operational Upset or Spill - During 1st STSC	An operational upset or spill results in a work shutdown at K Basins, resulting in schedule delays. Risk Handling Strategy: Control Probability: Medium (26% to 74%) Worst Case Impacts: \$6M, 90 days *Cost increase will result in hotel load cost per day.	●	↔	<p>Risk Trigger: Will commence in FY2018 and continue throughout project lifecycle until sludge is removed from 105KW Basin.</p> <table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Conduct testing and training at MASF and develop procedures that use the information and knowledge gained during the activity for use at the KW Basin.</td> <td>05/25/17</td> <td>20</td> </tr> <tr> <td>Conduct rigorous startup testing following system installation at the 105KW Basin and Annex.</td> <td>05/12/17</td> <td>0</td> </tr> <tr> <td>Utilize overtime as needed, or if required, to respond to events</td> <td>As needed</td> <td>N/A</td> </tr> </tbody> </table> <p>Mitigation Assessment: Forecasted mitigation dates are consistent with overall STP critical path schedule. Changes to the mitigation actions do not result in any impacts to the overall schedule or cost. ECRTS Familiarization training for the NCOs at MASF has started and will continue through December 2015. Training and procedure development is underway as well. On-the-job-training (OTJ) for the operators on MASF equipment will start in FY2017. No foreseeable impacts in the near future and no alternative course of actions needed at this time.</p>	Mitigation action(s)	FC Date	%	Conduct testing and training at MASF and develop procedures that use the information and knowledge gained during the activity for use at the KW Basin.	05/25/17	20	Conduct rigorous startup testing following system installation at the 105KW Basin and Annex.	05/12/17	0	Utilize overtime as needed, or if required, to respond to events	As needed	N/A						
Mitigation action(s)	FC Date	%																				
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Utilize overtime as needed, or if required, to respond to events	As needed	N/A																				
STP-073-C: Processing Efficiency - Retrieval & Shipping, During 1st STSC	The realized processing efficiency associated with sludge retrieval and shipping operations does not match baseline plan. Risk Handling Strategy: Accept Probability: Low (10% to 25%) Worst Case Impacts: \$0K, 8 days	●	↔	<p>Risk Trigger: Beginning with Operations Campaign – August 15, 2018, per current Field Execution Schedule (FES)</p> <table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Review lessons learned from NLOP sludge retrieval.</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Incorporate operations personnel recommendations into the ECRTS Process System & STSC design.</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Evaluate alternatives to reduce the total STSC's by optimization of sludge loading.</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Test the Design on simulated sludge and test the production hardware to validate operability prior to installation in the 105 KW Basin.</td> <td>09/30/16</td> <td>50</td> </tr> <tr> <td>Fully train operations personnel on the system at MASF prior to commencing operations in the basin including providing adequate time to achieve reasonable operational proficiency.</td> <td>8/15/18</td> <td>20</td> </tr> </tbody> </table> <p>Mitigation Assessment: In the month of October CHPRC revised risk STP-073-C to reflect processing efficiency during the 1st STSC retrieval (STP-073-C). Operations personnel were given training on the process system equipment and will continue to participate in training activities through production system installation at 100K. No foreseeable impacts in the near future and no alternative course of actions needed at this time.</p>	Mitigation action(s)	FC Date	%	Review lessons learned from NLOP sludge retrieval.	Complete	100	Incorporate operations personnel recommendations into the ECRTS Process System & STSC design.	Complete	100	Evaluate alternatives to reduce the total STSC's by optimization of sludge loading.	Complete	100	Test the Design on simulated sludge and test the production hardware to validate operability prior to installation in the 105 KW Basin.	09/30/16	50	Fully train operations personnel on the system at MASF prior to commencing operations in the basin including providing adequate time to achieve reasonable operational proficiency.	8/15/18	20
Mitigation action(s)	FC Date	%																				
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Fully train operations personnel on the system at MASF prior to commencing operations in the basin including providing adequate time to achieve reasonable operational proficiency.	8/15/18	20																				
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)																						
Lifecycle Risk Triggers (Risk could be realized at any point of the project)																						
STP-114: Aging Building Systems/Components Problems Impact Operations & S&M Activities	Problems with aging building systems/ components (e.g., ventilation systems, water distribution system, CAM's, instrument air system, fire alarm system, and electrical system, etc.) result in inoperability or requires unscheduled maintenance/ outages, impacting planned operations or on-going surveillance and maintenance activities. Risk Handling Strategy: Control Probability: Very Likely (>90%) Worst Case Impacts: \$1 million, 88 days	●	↔	<p>Risk Trigger: Will continue throughout project lifecycle until sludge is removed from 105KW Basin.</p> <table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Perform critical system reliability assessments; maintenance practices; procure critical spares, and maintain existing redundancies.</td> <td>On-Going</td> <td>N/A</td> </tr> <tr> <td>Continue with baseline plan for corrective and preventative maintenance on systems, structures and components.</td> <td>On-Going</td> <td>N/A</td> </tr> </tbody> </table> <p>Mitigation Assessment: No changes in the month of October. Operations continues to maintain the facilities in an operational status with no foreseeable impacts in the near future, and no alternative course of actions needed at this time.</p>	Mitigation action(s)	FC Date	%	Perform critical system reliability assessments; maintenance practices; procure critical spares, and maintain existing redundancies.	On-Going	N/A	Continue with baseline plan for corrective and preventative maintenance on systems, structures and components.	On-Going	N/A									
Mitigation action(s)	FC Date	%																				
Perform critical system reliability assessments; maintenance practices; procure critical spares, and maintain existing redundancies.	On-Going	N/A																				
Continue with baseline plan for corrective and preventative maintenance on systems, structures and components.	On-Going	N/A																				
FY2016 Risk Triggers (Risk could be realized in FY2016)																						

Risk Title	Unmitigated Risk Impacts	Assessment		Comments																		
		Month	Trend																			
RL-0012/WBS-012																						
STP-111-B: Contractor/Subcontractor Performance – ECRTS Annex/ In-Basin Equipment Installation	The General Contractor and their supporting subcontractors have historically performed poorly and will be challenged on this project by compliance with project and contract flow down requirements (e.g. quality, nuclear standards, site safety requirements, subcontract management to ensure contract requirements are met, NRTL compliance, suspect counterfeit, Buy-American contract clause, Project Controls requirements, development of Construction Acceptance Testing (CAT), timely processing of submittals compliance with all the subcontract flow down requirements) as well as deployment and maintenance of key staff that are essential to safe, cost effective and on-time project delivery. This risk is further compounded by sequestration and decrement funding. Risk Handling Strategy: Control Probability: Very Likely (>90%) Worst Case Impacts: \$800K, 96 days			<p>Risk Trigger: The risk is that the General Contractor will not be able to comply with all contract requirements (e.g. for quality, nuclear standards, site safety requirements, subcontract management, NRTL compliance, suspect counterfeit, Buy-American contract clause, Project Controls requirements, adequately develop the Construction Acceptance Testing [CAT], timely processing of submittals and compliance with all subcontract and contract flow down requirements) and be challenged to deploy or maintain essential project staff.</p> <table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Establish weekly CHPRC and General Contractor interface meetings.</td> <td>Ongoing</td> <td>N/A</td> </tr> <tr> <td>Implement extensive oversight</td> <td>Ongoing</td> <td>N/A</td> </tr> <tr> <td>Acquisition planning document written to allow additional work to be added to successful bidder if their performance is acceptable.</td> <td>Ongoing</td> <td>N/A</td> </tr> <tr> <td>Provide additional training, increase schedule duration for project effort.</td> <td>Ongoing</td> <td>N/A</td> </tr> <tr> <td>Add Overtime, 2nd shift, or change work schedule to 5-8s to allow more entries per week increasing overall performance.</td> <td>Ongoing</td> <td>N/A</td> </tr> </tbody> </table> <p>Mitigation Assessment: Mitigation actions are currently under development for this risk. CHPRC risk ownership was transferred in the month of October and is expected that next month risk mitigation actions will be finalized, and forecasted finish dates applied.</p>	Mitigation action(s)	FC Date	%	Establish weekly CHPRC and General Contractor interface meetings.	Ongoing	N/A	Implement extensive oversight	Ongoing	N/A	Acquisition planning document written to allow additional work to be added to successful bidder if their performance is acceptable.	Ongoing	N/A	Provide additional training, increase schedule duration for project effort.	Ongoing	N/A	Add Overtime, 2nd shift, or change work schedule to 5-8s to allow more entries per week increasing overall performance.	Ongoing	N/A
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Provide additional training, increase schedule duration for project effort.	Ongoing	N/A																				
Add Overtime, 2nd shift, or change work schedule to 5-8s to allow more entries per week increasing overall performance.	Ongoing	N/A																				
Unassigned Risks (Pending ownership of identified risks/opportunities)																						
No unassigned risks identified in the month of October .																						

PROJECT BASELINE PERFORMANCE Current Month (\$M)

RL-0012 Spent Nuclear Fuel Stabilization and Disposition	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)
Total	4.4	6.4	5.2	2.0	45.8%	1.2	19.2%

Numbers are rounded to the nearest \$0.1 million

CM Schedule Performance (+\$2.0M/+45.8%)

The schedule variance is the result of the incorporation of the CAP baseline estimate into the PMB; the procurement portion of the estimate is lower than the previous PMB baseline and resulted in a point adjustment in the current period and a positive schedule variance.

CM Cost Performance (+\$1.2M/+19.2%)

The current month cost variance is the result of a high volume of vacation time in operations accounts and three Health Physics Technicians (HPT) transferred from 100K Operations in the month the procurement contract for Procurement Set 3 is under accrued this month resulting in a positive cost variance. There was a point adjustment made in the User Based Services account that resulted in a large adjustment to BCWS and BCWP creating a positive cost variance.

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	521.5	522.1	535.1	0.6	0.1%	(13.0)	-2.5%	717.5	724.0	(6.5)

Numbers are rounded to the nearest \$0.1 million

CTD Schedule Performance (+\$0.6M/+0.1%)

The variance is within reporting thresholds.

CTD Cost Performance (-\$13.0M/-2.5%)

The variance is within reporting thresholds.

Variance at Completion (-\$6.5M/-0.9%)

The 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	FY2016		
	Projected Funding	Spending Forecast	Spend Variance
RL-0012	114.3	86.9	27.4

Numbers are rounded to the nearest \$0.1 million.

Funds/Variance Analysis

FY2016 expected funding for PBS RL-0012 is \$114.3 million. The funds include the Line Item funding for the STP CAP project, which has been assigned for FY2016 and FY2017 work scope resulting in a positive variance in FY2016.

Critical Path Schedule

The critical path flows through the installation of process equipment, 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 include 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* (milestone is outside contract period in FY2019).

Baseline Change Requests

BCR-PRC-16-002R0, *Incorporate RL-012 CAP 15-D-401 Sludge Retrieval Project Baseline*

BCR-PRC-16-010R0, *Undistributed Budget Adjustments October 2015*

BCR-PRC-16-012R0, *Revisions to Undistributed Budget for Contract Modification 445*

BCR-PRC-16-013R0, *Revisions to PBS RL-0012 Undistributed Budget Associated with Contract Modification 445*

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.

Number	Title	Due Date	Actual Date	Forecast Date	Status/ Comment
M-016-175	Begin Sludge Removal from 105KW Fuel Storage Basin.	09/30/2018		09/15/2018	The forecast date of September 15, 2018.

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)



C. J. Simiele
Vice President for
Waste and Fuels
Management Project
(W&FMP)

October 2015
CHPRC-2015-10, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

W&FMP maintained 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. The Capsule Extended Storage Project completed internal review of the Functions and Requirements Document, Functional Design Criteria, Code of Record, and Statement of Work. The Waste Encapsulation and Storage Facility (WESF) Stabilization and Ventilation Project (W-130) transmitted the required Notice of Construction Application (NOCA) to Washington State Department of Health (WDOH). In addition, WESF performed comprehensive surveys of canyon deck/walls/equipment, canyon decontamination and painting, the removal of guard rails, weights, and mixed and low-level waste (MLLW and LLW). Transuranic (TRU) Repackaging Project shipped a fiberglass-reinforced plywood (FRP) waste box 231Z-DR-7 (43.5 m³) from Central Waste Complex (CWC) to Permafex Northwest (PFNW) for processing.

EMS Objectives and Target Status

None at this time.

TARGET ZERO PERFORMANCE

	CM Quantity	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	0	N/A
Total Recordable Injuries	0	3*	N/A *1 Recordable case, PTS in support of RL-0013.
First Aid Cases	1	32*	<ul style="list-style-type: none"> 10/29/2015 – Employee had allergic reaction to Lysol wipes (23855) *8 First Aid Cases, PTS in support of RL-0013.
Near Misses	0	1	N/A

KEY ACCOMPLISHMENTS

13.01 Project Management

- o Prepared the FS-1 Data Evaluation Report for submittal to Ecology.

13.02 Capsule Storage & Disposition

- o Completed 35 preventive maintenance (PM) work packages.

a. Capsule Extended Storage Project:

- Prepared draft permitting plan for technical review.
- Completed CHPRC review of the Functions and Requirements Document, Functional Design Criteria, Code of Record, and Statement of Work for design and fabrication contract.
- Continued preparation of Alternative Evaluation for Capsule Extended Storage Project, including development of alternative descriptions and evaluation criteria.

b. WESF Stabilization and Ventilation Project (W-130):

- Issued stabilization contract change to allow for long lead procurement of core drilling equipment.

- Transmitted:
 - NOCA to WDOH.
 - 2015 annual update to DSA to RL for approval.
- Conducted a Project Review Board review to assess project cost, schedule, and risk status, as well as identify areas of improvement prior to beginning field construction.
- Toured fabrication facility to view progress on new K3N heater. Fabrication of K3N heater is 85 percent complete.
- Completed:
 - Ground scans for layout of K3N skid, construction trailer layout, and power connections for construction trailers.
 - Review of K3N heater structural calculations.
 - Fabrication and delivery of G7 tank basket, for the storage of suspect or leaking capsules, to WESF; completed preliminary dry fit.
- Performed canyon entries to perform comprehensive survey of canyon deck/walls/equipment, canyon decontamination and painting, and the removal of guard rail, weights, and MLLW and LLW.
- Conducted entries into G-cell for the removal, repair and inspection of electrical cables to the two-ton hoist/trolley and bridge in support of G-7 capsule storage tank.

13.03 Canister Storage Building (CSB)

- o Completed:
 - Repair of drainage ditch from the CSB Fire Water Tank TK-500-001.
 - Annual environmental inspection and cleaning of Neutron Radiography Facility (NRF) Training, Research, Isotopes, and General Atomics (TRIGA) rad vaults.
 - Material Balance Area (MBA) 209 Inventory.
 - 27 PM work packages.

13.06 TRU Repackaging

- o Shipped one FRP to PFNW for repack – 43.5 m3.
- o TRUM Waste completed and returned fiscal year to date – 127.0 m3.

a. TRU Projects:

- Completed TRU Waste Assessment based on Argonne National Lab Lines of Inquiry.

13.07 Waste Receiving and Processing Facility (WRAP)

- Performed/Completed:
 - o Roof repairs on 2336W and 2404-WB.
 - o Surveillances/PMs:
 - 99 Surveillances.
 - 15 PM packages.

13.08 T Plant

- Preparation for Sludge Receipt:
 - o Reactivate 221T canyon bridge crane for preventive maintenance activities.
 - o Re-lamped 221T canyon lighting.
- Surveillances/PMs:
 - o 373 Surveillances.
 - o 26 PM packages.

13.09 CWC and Low Level Burial Grounds (LLBG)

- Performed/Completed:
 - o Replacement of MWT 31 P1 primary sump pump.
 - o Installation of new box covers over 13 waste boxes in the Outside Storage Area (OSA) A.
 - o 2404-WA roof repairs.

CWC Container Watch List:

- o Currently there are zero priority-1 and 0 priority-2 waste drums in storage.

- Surveillances/PMs:
 - o 29 PM packages.
 - o 282 Surveillances.
 - o Shipments Received:
 - 36 SWBs and 31 waste drums from PFP to CWC.

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 (MWT)

- Completed:
 - o 125 Surveillances.
- Shipments Received:
 - o 12 waste boxes and four waste drums from PFNW.

MAJOR ISSUES

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 over packing drums). RL has provided additional authorization for \$17 million of TRU Repackaging, which helps to address this issue, and containers are being shipped to commercial repackaging facility. Additional repackaging scope was incorporated into the contract and performance measurement baseline in October.

Issue:

The Canister Storage Building FF-01 license contains a maximum stack flow rate of 9,000 Cubic Feet per Minute (CFM), while the monitoring system was verified to be in compliance with regulatory requirements at higher flow rates.

Corrective Action:

RL and WDOH were notified of the situation. Options to rectify the situation were evaluated. WDOH prefers an engineering evaluation by PNNL to justify use of the higher flow rates. This will also provide defensibility for past data. Following successful completion of the engineering evaluation, RL will submit a Notice of Concern (NOC) revision to modify the license to reflect the wider range of stack flow rates.

Status:

RL provided direction to proceed with the PNNL statistical analysis of the CSB stack flow data. A contract was awarded to PNNL on July 29, 2015. The first deliverable was received September 28, 2015; the preliminary review is complete. PNNL supplied preliminary information providing a basis for an

expanded flow range. A meeting with RL and WDOH was held October 8, 2015, to present the first deliverable from PNNL. Following the meeting, PNNL cleared the presentation for release, and the cleared copies were provided to WDOH on October 22, 2015. WDOH is reviewing the materials. If positive feedback is received from WDOH, CHPRC will direct PNNL to proceed with a formal report documenting their conclusions.

Issue:

Canister Storage Building storage tubes M03 and M04 were discovered to have rust-like substances under the tube covers and on the tube plugs. M03 was significantly coated, where M04 only displayed a trace amount. The rust-like substance was not radiological contaminated. Vapor sampling detected no abnormal readings. This condition was discovered during the conduct of the primary MBA Custodian inventory during a representative observation of storage tubes.

Corrective Action:

Two separate samples determined the presence of rust and other benign substances. The MBA inventory was completed. A work package to inspect, clean and borescope the interior of the tube has been prepared. Engineering/corrosion SMEs from the Central Group were contacted to support the inspection and evaluation.

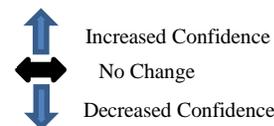
Status:

The work package is scheduled to begin field work on November 5, 2015.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

- Opportunity currently realized, or mitigation efforts are currently working toward, or after risk trigger with no foreseeable impacts.
- Mitigation efforts are currently working toward risk trigger with the possibility of actions not in place prior to risk occurrence. Recovery actions may be needed.
- Risk currently realized, or risk mitigation efforts are past risk trigger date with foreseeable impacts. Recovery actions needed.



Risk Title	Unmitigated Risk Impacts	Assessment		Comments																	
		Month	Trend																		
RL-0013/WBS-013																					
Explanation of major changes to the project monthly spotlight chart: In the month of October the risk spotlight chart was updated to reflect risk register updates, and FY2016 quantitative risk analysis.																					
Realized Risks (Risks that are currently impacting project cost/schedule)																					
WSD-125: Multi-Year Pause in Waste Processing Results in Unexpected Container Integrity Issues	A pause in waste processing results in an unexpected container degradation within SWOC (excluding TRU Retrieval activities) and require additional resources to respond. Risk Handling Strategy: Accept Probability: Likely (75% to 90%) Worst Case Impacts: \$5 million, 0 day	●	↔	Risk Event: In November 2011, degraded containers were discovered in CWC. <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Risk recovery action(s)</th> <th>Risk Date</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Perform daily/weekly waste container surveillances to identify container abnormalities.</td> <td rowspan="4" style="text-align: center;">10/01/11</td> <td style="text-align: center;">On-Going</td> <td style="text-align: center;">N/A</td> </tr> <tr> <td>Manage a "watch-list" of waste containers that have shown signs of degradation or are associated with degraded containers.</td> <td style="text-align: center;">On-Going</td> <td style="text-align: center;">N/A</td> </tr> <tr> <td>Overpack degraded waste packages.</td> <td style="text-align: center;">On-Going</td> <td style="text-align: center;">N/A</td> </tr> <tr> <td>Process waste packages at a rate funded by RL.</td> <td style="text-align: center;">On-Going</td> <td style="text-align: center;">N/A</td> </tr> </tbody> </table> Recovery Action Assessment: Project continued to perform daily/weekly/monthly container surveillances in the month of September to identify container and container cover abnormalities. A PI is currently being negotiated to ship 280 m3 in FY2016, largely from Outside Storage Area A. A contract is being placed to design and fabricate a large overpack for storage box 75DMA16F3 with a subsequent move into 2403WD. It is expected the contact award date will be November 19, 2015 with a delivery date of late March 2016. A potential impact may be realized due to regulator uncertainties related to the definition of a satisfactory container when corrosion is evident. These uncertainties may result in the inability to efficiently receive waste from on-site generators, i.e., PFP. No alternative course of actions needed at this time; however, a teleconference with EPA concerning the definition of a good drum was held in the month of October. Additional meetings will be set up to discuss potential relief with the regulators.	Risk recovery action(s)	Risk Date	FC Date	%	Perform daily/weekly waste container surveillances to identify container abnormalities.	10/01/11	On-Going	N/A	Manage a "watch-list" of waste containers that have shown signs of degradation or are associated with degraded containers.	On-Going	N/A	Overpack degraded waste packages.	On-Going	N/A	Process waste packages at a rate funded by RL.	On-Going	N/A
Risk recovery action(s)	Risk Date	FC Date	%																		
Perform daily/weekly waste container surveillances to identify container abnormalities.	10/01/11	On-Going	N/A																		
Manage a "watch-list" of waste containers that have shown signs of degradation or are associated with degraded containers.		On-Going	N/A																		
Overpack degraded waste packages.		On-Going	N/A																		
Process waste packages at a rate funded by RL.		On-Going	N/A																		
WSD-W130-07: WESF W-130 Class 3 Permit modifications – Ecology	Significant comments or rejection from Ecology on the Class 3 permit modification and closure plan are issued, resulting in cost impacts and schedule delays. Risk Handling Strategy: Control Probability: Likely (75% to 90%) Worst Case Impacts: \$0, 144 days *Cost increase will result in cost per day impacts from crews, and hotel load.	●	↔	Risk Event: Risk was realized upon receipt of letter of incompleteness from Ecology on closure plan and Class III permit modifications. <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Mitigation action(s)</th> <th>Risk Date</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Established logic ties in schedule to prompt request of a temporary authorization in the event that an approved permit is not provided in time to support field execution schedule.</td> <td rowspan="2" style="text-align: center;">3/25/15</td> <td style="text-align: center;">Complete</td> <td style="text-align: center;">100</td> </tr> <tr> <td>Work with Ecology to resolve areas of incompleteness in permit modification and closure plan.</td> <td style="text-align: center;">11/30/15</td> <td style="text-align: center;">90</td> </tr> </tbody> </table> Mitigation Assessment: Interface meetings continued in the month of October, and are expected to be resolved late November. No alternative course of actions needed at this time.	Mitigation action(s)	Risk Date	FC Date	%	Established logic ties in schedule to prompt request of a temporary authorization in the event that an approved permit is not provided in time to support field execution schedule.	3/25/15	Complete	100	Work with Ecology to resolve areas of incompleteness in permit modification and closure plan.	11/30/15	90						
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Work with Ecology to resolve areas of incompleteness in permit modification and closure plan.		11/30/15	90																		
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)																					
Lifecycle Risk Triggers (Risk could be realized at any point of the project)																					
No critical risks identified for RL-0013 in the month of October.																					
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)																					
Lifecycle Risk Triggers (Risk could be realized at any point of the project)																					

Risk Title	Unmitigated Risk Impacts	Assessment		Comments									
		Month	Trend										
RL-0013/WBS-013													
WSD-019: MLLW & TRU Treatment Impacts	<p>MLLW & TRU treatment capacity/capability does not meet Hanford needs or treatment does not occur as scheduled, resulting in cost impacts.</p> <p>Risk Handling Strategy: Accept</p> <p>Probability: Very Low (<10%)</p> <p>Worst Case Impacts: \$10 million, 0 day</p>	●	↔	<p>Risk Trigger Metric: Will continue throughout contract (September 30, 2018).</p> <table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Established multiple treatment contracts for the processing of MLLW and TRU with terms extending to the end of the current CHPRC contract with RL (i.e., September 30, 2018).</td> <td>On-Going</td> <td>N/A</td> </tr> <tr> <td>Continue to work with RL to fund the processing of TRU waste at PFNW at a rate in which keeps them viable (i.e., keeps the doors open).</td> <td>On-Going</td> <td>N/A</td> </tr> </tbody> </table> <p>Mitigation Assessment: A developing issue at PFP with the TRUM waste being generated from the PRF Canyon floor cleanout could affect our ability to have sufficient treatment capability/capability for the processing of Legacy TRUM waste for the remainder of FY2016 and all of FY2017 and FY2018. Abasement on if these impacts will materialize is too early to determine at this time; however, the situation will be closely monitored in the weeks to come. No alternative course of actions are being taken at this time until the full impacts are known.</p>	Mitigation action(s)	FC Date	%	Established multiple treatment contracts for the processing of MLLW and TRU with terms extending to the end of the current CHPRC contract with RL (i.e., September 30, 2018).	On-Going	N/A	Continue to work with RL to fund the processing of TRU waste at PFNW at a rate in which keeps them viable (i.e., keeps the doors open).	On-Going	N/A
Mitigation action(s)	FC Date	%											
Established multiple treatment contracts for the processing of MLLW and TRU with terms extending to the end of the current CHPRC contract with RL (i.e., September 30, 2018).	On-Going	N/A											
Continue to work with RL to fund the processing of TRU waste at PFNW at a rate in which keeps them viable (i.e., keeps the doors open).	On-Going	N/A											
WSD-097: Major Equipment Failure - T-Plant	<p>T Plant suffers a major equipment failure (crane, primary power supply, etc.), resulting in cost impacts, and schedule delays.</p> <p>Risk Handling Strategy: Accept</p> <p>Probability: Low (10% to 25%)</p> <p>Worst Case Impacts: \$2M, 33 days</p>	●	↔	<p>Risk Trigger Metric: During planned S&M activities a suspect system component is discovered that requires attention, or an unexpected malfunction results in this risk from being realized. This risk will continue throughout the CHPRC (September 30, 2018).</p> <table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>None identified at this time.</td> <td>N/A</td> <td>N/A</td> </tr> </tbody> </table> <p>Mitigation Assessment: The mitigation strategies have been put in place (i.e., aggressive S&M activities), as a result, the risk strategy is to accept with no further mitigation actions. No alternative course of actions needed at this time.</p>	Mitigation action(s)	FC Date	%	None identified at this time.	N/A	N/A			
Mitigation action(s)	FC Date	%											
None identified at this time.	N/A	N/A											
WSD-136:CWC Components Fail	<p>CWC facilities and components may reach their end of life or become obsolete. These items will need to be replaced and/or repaired outside of planned funding profiles, resulting in cost impacts.</p> <p>Risk Handling Strategy: Accept</p> <p>Probability: Medium (26% to 74%)</p> <p>Worst Case Impacts: \$1.5M, 0 day</p>	●	↔	<p>Risk Trigger Metric: During planned S&M activities a suspect system component is discovered that requires attention, or an unexpected malfunction results in this risk from being realized. This risk will continue throughout the CHPRC (September 30, 2018).</p> <table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>None identified at this time.</td> <td>N/A</td> <td>N/A</td> </tr> </tbody> </table> <p>Mitigation Assessment: The mitigation strategies have been put in place (i.e., S&M activities), as a result, the risk strategy is to accept with no further mitigation actions. No alternative course of actions needed at this time.</p>	Mitigation action(s)	FC Date	%	None identified at this time.	N/A	N/A			
Mitigation action(s)	FC Date	%											
None identified at this time.	N/A	N/A											
WSD-137: OPP: Planned Efficiencies	<p>Funding profile for the contract period are achieved through efficiencies.</p> <p>Risk Handling Strategy: Exploit</p> <p>Probability: Likely (75% to 90%)</p> <p>Worst Case Impacts: \$48 million, 0 day</p>	●	↔	<p>Risk Trigger: Will continue throughout project lifecycle (September 30, 2018).</p> <table border="1"> <thead> <tr> <th>Opportunity action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Plan work activities and procurements to be as efficient as possible with minimal resources.</td> <td>On-Going</td> <td>N/A</td> </tr> </tbody> </table> <p>Opportunity Assessment: No slides to the forecasted mitigation dates. The project is continuing implementation of planned efficiencies (approximately \$50 million to date) and forecasts indicate that the efficiencies will continue through the contract period of performance. No foreseeable impacts in the near future, and no alternative course of actions needed at this time. However, emerging issues continue to place pressure on ability to achieve planned efficiencies.</p>	Opportunity action(s)	FC Date	%	Plan work activities and procurements to be as efficient as possible with minimal resources.	On-Going	N/A			
Opportunity action(s)	FC Date	%											
Plan work activities and procurements to be as efficient as possible with minimal resources.	On-Going	N/A											
FY2016 Risk Triggers (Risk could be realized in FY2016)													

Risk Title	Unmitigated Risk Impacts	Assessment		Comments															
		Month	Trend																
RL-0013/WBS-013																			
WSD-W130-09: Final safety basis adds additional new controls	The risk exists that the RL approval of the safety basis will require new controls not previously considered or used at WESF resulting in cost and schedule impacts. Risk Handling Strategy: Accept Probability: Very Low (<10%) Worst Case Impacts: \$120K, 96 days	●	↔	<p>Risk Trigger Metric: Receipt of RL approval of safety basis (Safety Evaluation Report SER) that identifies new controls or requirements not currently planned or identified.</p> <table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>None identified at this time.</td> <td>N/A</td> <td>N/A</td> </tr> </tbody> </table> <p>Mitigation Assessment: The mitigation strategies have been put in place (i.e., interface meetings with RL), as a result, the risk strategy is to accept with no further mitigation actions identified at this time. No alternative course of actions needed at this time.</p>	Mitigation action(s)	FC Date	%	None identified at this time.	N/A	N/A									
Mitigation action(s)	FC Date	%																	
None identified at this time.	N/A	N/A																	
WSD-W130-17: Changes in the final design are needed after the design is issued	Changes in the final design are needed after the design is issued. Changes are driven by unexpected conditions, additional reviews of the design media, or field conditions. Design changes result in cost impacts and schedule delays. Risk Handling Strategy: Control Probability: Medium (26% to 74%) Worst Case Impacts: \$650K, 144 days	●	↔	<p>Risk Trigger Metric: Risk trigger will continue throughout project lifecycle.</p> <table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Maintain tight design configuration and change control.</td> <td>Ongoing</td> <td>N/A</td> </tr> <tr> <td>Inform change requestors of change impacts and perform informal cost/benefit analysis to determine necessity of change.</td> <td>Ongoing</td> <td>N/A</td> </tr> <tr> <td>Keep project team and regulators informed of status.</td> <td>Ongoing</td> <td>N/A</td> </tr> </tbody> </table> <p>Mitigation Assessment: Project is currently performing informal cost/benefit analysis of design change to change location of K3N duct tie-in to existing ventilation ducting in truck port (number of utility conduits that require rerouting, cost of design change, and schedule savings are under evaluation). No alternative course of actions needed at this time.</p>	Mitigation action(s)	FC Date	%	Maintain tight design configuration and change control.	Ongoing	N/A	Inform change requestors of change impacts and perform informal cost/benefit analysis to determine necessity of change.	Ongoing	N/A	Keep project team and regulators informed of status.	Ongoing	N/A			
Mitigation action(s)	FC Date	%																	
Maintain tight design configuration and change control.	Ongoing	N/A																	
Inform change requestors of change impacts and perform informal cost/benefit analysis to determine necessity of change.	Ongoing	N/A																	
Keep project team and regulators informed of status.	Ongoing	N/A																	
WSD-W130-18: Failure of WESF Hot Cell during Grouting	There is a risk that the capacity of the floor or walls of the hot cells cannot sustain the applied loads from grout and fails. In addition, a failure to the cover blocks and or the canyon floor result in cost impacts, and schedule delays. Risk Handling Strategy: Control Probability: Medium (26% to 74%) Worst Case Impacts: \$650K, 144 days	●	↔	<p>Risk Trigger Metric: Initiation of hot cell grouting.</p> <table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Perform a structural evaluation of the effects of grout on the hot cells and building structures to determine impacts</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Estimate expected volume of hot pipe trench.</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Compare actual grout fill volume with estimated value to determine if hot pipe trench has been filled.</td> <td>8/30/16</td> <td>0</td> </tr> <tr> <td>Fill hot cells in 3 foot lifts to minimize sudden stress by allowing partial curing between lifts, as well as early detection of hot cell floor failure.</td> <td>8/30/16</td> <td>0</td> </tr> </tbody> </table> <p>Mitigation Assessment: Structural evaluations and calculations have been completed and identified controls necessary during grouting (limit lifts of grout placement to 3 feet, compare actual grout volume placed to calculate estimated volume). No alternative course of actions needed at this time.</p>	Mitigation action(s)	FC Date	%	Perform a structural evaluation of the effects of grout on the hot cells and building structures to determine impacts	Complete	100	Estimate expected volume of hot pipe trench.	Complete	100	Compare actual grout fill volume with estimated value to determine if hot pipe trench has been filled.	8/30/16	0	Fill hot cells in 3 foot lifts to minimize sudden stress by allowing partial curing between lifts, as well as early detection of hot cell floor failure.	8/30/16	0
Mitigation action(s)	FC Date	%																	
Perform a structural evaluation of the effects of grout on the hot cells and building structures to determine impacts	Complete	100																	
Estimate expected volume of hot pipe trench.	Complete	100																	
Compare actual grout fill volume with estimated value to determine if hot pipe trench has been filled.	8/30/16	0																	
Fill hot cells in 3 foot lifts to minimize sudden stress by allowing partial curing between lifts, as well as early detection of hot cell floor failure.	8/30/16	0																	
Unassigned Risks (Pending ownership of identified risks/opportunities)																			
To ensure success of the project ownership needs to be established to further identify and address potential impacts to project cost and schedule. There are cases when risks are identified but are outside the control and management of the contractor. However, CHPRC risk management process identifies all risks that could impact overall project success.																			
WSD-022: IDF Startup	Discussions were held with RL regarding risk ownership indicating that this risk may result in RL ownership. In the event this risk is assigned to RL it will no longer be reported through RL-0013, and it will be transmitted to RL for FPD approval.																		
WSD-096: WIPP Does Not Accept Overpacked Containers in SWBs	Discussions were held with RL regarding risk ownership indicating that this risk may result in RL ownership. In the event this risk is assigned to RL it will no longer be reported through RL-0013, and it will be transmitted to RL for FPD approval.																		

PROJECT BASELINE PERFORMANCE

Current Month

(\$M)

WBS 013/RL-0013 Waste and Fuels Management Project	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)
Total	7.7	7.8	7.0	0.1	1.5%	0.9	11.1%

Numbers are rounded to the nearest \$0.1 million

CM Schedule Performance (+\$0.1M/+1.5%)

The current month favorable schedule variance is within threshold.

CM Cost Performance (+\$0.9M/+11.1%)

The current monthly favorable cost variance is primarily attributable to the negotiation of the waste repackaging subcontract, reducing the planned shipment/return prices by nearly half the expected costs.

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	987.8	991.0	933.8	3.3	0.3%	57.2	5.8%	1,335.3	1,255.1	80.2

Numbers are rounded to the nearest \$0.1 million

CTD Schedule Performance (+\$3.3M/+0.3%)

The schedule variance is within threshold.

CTD Cost Performance (+\$57.2M/+5.8%)

The favorable cost variance is due to the continued implementation of planned efficiencies.

Variance at Completion (+\$80.2M/+6.0%)

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)

FY2016			
WBS 013/RL-0013 Waste and Fuels Management Project	Projected Funding	Spending Forecast	Spend Variance
RL-0013	109.6	104.4	5.2

Numbers are rounded to the nearest \$0.1 million.

Funds/Variance Analysis

FY2016 initial budget guidance received from RL reflects expected funding of \$441.2 million for the company. RL-0013 project funding is \$109.6 million for FY2016. The Spending Forecast includes actions anticipated to achieve the funding targets.

Critical Path Schedule

Critical path analysis can be provided upon request.

Baseline Change Requests

BCR-013-16-001R0, *CO282 Burial Ground CAHCAs to URMAs*

BCR-013-16-002R0, *Definitization of CO290, Canister Storage Building Stack Modeling*

BCR-013-16-003R0, *T Plant Repack to WA3 Certify Large Small Container CH TRUM*

BCR-PRC-16-008R0, *Reinstate Certify Large/Small Repack Container CH TRUM from CLIN 7*

BCR-PRC-16-010R0, *Undistributed Budget Adjustments – October 2015*

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.

Number	Title	Due Date	Actual Date	Forecast Date	Status/ Comment
M-091-44Z-006	Annual PMM or Quarterly Notification of Cert of CH/RH TRUM.	12/31/15		12/31/15	On Schedule
M-091-03J	Submit Revision of TRUM Waste and MLLW PMP to Ecology.	6/30/16		6/30/16	On Schedule
M-091-01A	Complete Conceptual Design for RH TRUM and TRUM Facilities and Change Package.	9/30/16		--	To Be Missed – realignment of select M-091

Number	Title	Due Date	Actual Date	Forecast Date	Status/ Comment
					milestones deletes this milestone.
M-091-040	Complete retrieval and designation of CH RSW in Burial grounds 218-W-4B, W-3A, and E-12B	9/30/16		--	To Be Missed – realignment of select M-091 milestones deletes this milestone.
M-091-41A	Complete retrieval of non-caisson RH RSW.	9/30/16		--	To Be Missed – realignment of select M-091 milestones deletes this milestone.
M-091-44Q	Certify 300 cubic meters large container CH TRUM and/or RH TRUM Waste.	9/30/16	5/26/11	--	Completed
M-091-46F	Certify 250 cubic meters of small container CH TRUM waste.	9/30/16		--	To Be Missed – realignment of select M-091 milestones deletes this milestone.
P-091-47B	Certify or treat 280 cubic meters of TRUM/MLLW waste in FY2016.	9/30/16		9/30/16	On Schedule
P-091-51	Submit secondary document for new or modified facilities to process all Hanford Site RH TRUM waste.	9/30/16		9/30/16	On Schedule

SELF-PERFORMED WORK

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

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

Contract Section	Project	GFS/I	Status
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)



K. L. Wiemelt
Vice President and
Project Manager for
Soil and Groundwater
Remediation Project

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

October 2015
CHPRC-2015-10, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

Pump-and-Treat (P&T) Operations continued making progress on the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) remedial process documentation for the River Corridor and Central Plateau. Groundwater treatment and well drilling completed in October 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	34.1	34.1	7.7	7.7						
HX P&T	19.8	19.8	2.5	2.5						
KR-4 P&T	13.3	13.3	0.4	0.4						
KW P&T	14.7	14.7	1.0	1.0						
KX P&T	33.4	33.4	2.1	2.1						
200 West P&T	86.4	86.4	6.9	6.9	227	227	7893	7893	2.14x10 ¹²	2.14x10 ¹²
Combined	201.8	201.8	20.6	20.6	227	227	7893	7893	2.14x10¹²	2.14x10¹²

Well Drilling by Area	FY2016 Planned	October	FY2016 Cumulative
100-KR-4	3	-	-
100-HR-3	6	-	-
200-UP-1	4	-	-
200-UP-1 Chromium Plume	3	-	-
200-ZP-1 C9521	1	-	-
200-ZP-1 monitoring	2	-	-
M-24 Milestone 100-NR-2	6	-	-
M-24 Milestone C Farm	1	-	-
Vadose Zone	1	-	-
Total Wells	35	-	-

EMS Objectives and Target Status

Objective	Target	Actions	Due Date	Status	Overall Target Status
16-EMS-SGWR-OB1 Monitor and confirm low carbon tetrachloride emissions at the 200 West P&T Facility	T1 – Evaluate treated off gas analytical results from compliance sampling and process sampling each quarter.	Compile 1 st quarter emissions evaluation.	12/31/15	0%	0%
		Compile 2 nd quarter emissions evaluation.	3/31/16	0%	
		Compile 3 rd quarter emissions evaluation.	6/30/16	0%	
		Compile 4 th quarter emissions evaluation and complete work site assessment on FY2016 emissions.	9/30/16	0%	
16-EMS-SGWR-OB2 More effective promotion of EMS	T1 – Promote and increase S&GRP project personnel EMS awareness via various means throughout FY2016.	Present four EMS topics to S&GRP personnel, typically during the S&GRP Monday Tailgate, S&GRP Supervisors' Meeting, or S&GRP All-Hands Meeting.	9/30/16	0%	0%
16-EMS-SGWR-OB3 Promote a more thorough understanding of the regulatory umbrella under which S&GRP conducts operations.	T1 – Promote and increase S&GRP project personnel environmental regulatory awareness via various means, targeting small group settings, throughout FY2016.	Facilitate four regulatory related discussions based on such topical areas as RCRA Permit, CERCLA Decision Documents, Waste Management, Air Permit, etc. These discussions would typically be targeted at smaller S&GRP group settings such as staff meetings, department meetings, PODs, etc.	9/30/16	0%	0%
16-EMS-SGWR-OB4 Reduce the risk of noncompliance with environmental requirements.	T1 – Develop compliance matrices for S&GRP Pump-and-Treat facilities CERCLA RD/RAWPs.	Identify implementing mechanisms and gaps for environmental requirements (i.e., requirement matrices) for the following RD/RAWPs: RL-96-84, Revision. 0 and 0-A, RL-2006-52, RL-2006-75, and RL-2008-78.	9/30/16	0%	0%

TARGET ZERO PERFORMANCE	CM Quantity	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	0	N/A
Total Recordable Injuries	0	1	N/A
First Aid Cases	4	42*	<ul style="list-style-type: none"> 10/1/2015 – Three employees noticed an odor while performing maintenance on the lime conveyor system. Employees were evaluated at HPMC and released to work with no restriction. (23828, 23829, 23830) 10/12/2015 – A wasp fell into an employee’s shirt collar, stinging him on the back of the neck. Over the counter medication was administered. (23855) <p>*13 FA cases, PTS in support of RL-0030.</p>
Near-Misses	0	1	N/A

KEY ACCOMPLISHMENTS

RL-0030.01 RL 30 Operations RL 30 Integration & Assessments

Environmental Integration

- The Hanford Senior Executive Committee (SEC) met on Thursday, October 22, 2015. RL, ORP, EPA Region 10, and Ecology attended, along with key members of their management team supporting Hanford cleanup. Productive discussions were held on FY2016 budget priorities, the ongoing Hanford Resource Conservation and Recovery Act (RCRA) Permit modification process, EPA and Ecology compliance enforcement policy and actions, the role of the Tri-Party Agreement in resolution of compliance issues, and how ongoing cleanup activities are impacted by compliance issues and enforcement actions. The next meeting is planned for February/March 2016.

Productivity

- Concluded the S&GRP pilot period at the end of October. S&GRP staff will continue to participate in the monthly productivity review meetings.

Groundwater Monitoring

- Submitted the draft Groundwater Monitoring Plan for monitoring under the Atomic Energy Act to RL for review on October 16, 2015.

River Corridor

300-FF-5 Operable Unit

- Completed installation and preparations to operate the Stage A Uranium Sequestration System; injections are scheduled to begin in November 2015.

100-BC-5 Operable Unit

- Completed the 2-year hyporheic zone sampling initiative. Over 1,300 hexavalent chromium samples were collected during this period.
- Completed development of preliminary feasibility study alternatives to be presented to EPA in early December 2015.
- Completed initial draft of hexavalent chromium site conceptual model for groundwater and the vadose zone.

100-HR-3 Operable Unit

- Completed demolition of the 1713-H warehouse superstructure; remaining slab is scheduled to be removed in November 2015.

Central Plateau**200-BP-5 and 200-PO-1 Operable Units**

- Initiated the 200-BP-5 Treatability Test Phase 2 constant rate test on October 13, 2015, which will continue through mid-November.
- Initiated design for extending the 200-BP-5 pipeline from extraction well 299-E33-268 to well 299-E33-360.
- Provided preliminary responses to Ecology's comments on the 200-BP-5 EE/CA on October 1, 2015.

200-UP-1 Operable Unit

- Completed sampling of the three I-129 plume injection wells to collect baseline data prior to use.
- Initiated operation of the I-129 plume hydraulic containment system.
- Initiated the procurement process for drilling the first three chromium plume characterization wells.

200-DV-1 Operable Unit

- Completed installation of the surface casings through the high contamination zones at BY Cribs on October 23, 2015; currently installing surface casing at other sites in the B complex area.

200-WA-1 Operable Unit

- Received preliminary EPA comments on the 200-WA-1 RI/FS Work Plan on October 23, 2015. Formal agency comments are due November 23, 2015.

200-PW-1 Operable Unit

- Provided an evaluation of the carbon tetrachloride source to EPA on October 20, 2015. With this evaluation, it is anticipated that EPA will approve permanent shut down of the SVE system.

Groundwater P&T Facilities**200 West P&T**

- Operated the 200 West P&T above 1,935 gpm. Maintained effluent concentrations below cleanup levels specified in Record of Decision (ROD).
- Treated uranium-contaminated groundwater from 200-UP-1 through the new uranium ion exchange system continuously through October.
- Treated contaminated water from the 200-BP-5 Treatability Test which is expected to continue through November.

100 Area P&Ts

- Operated the DX P&T at 765 gpm, which exceeds the original design capacity of 600 gpm.
- Operated the KR-4 P&T at 299 GPM, near the original design capacity of 300 gpm.
- Operated the KW P&T at 329 gpm, which exceeds the original design capacity of 200 gpm.

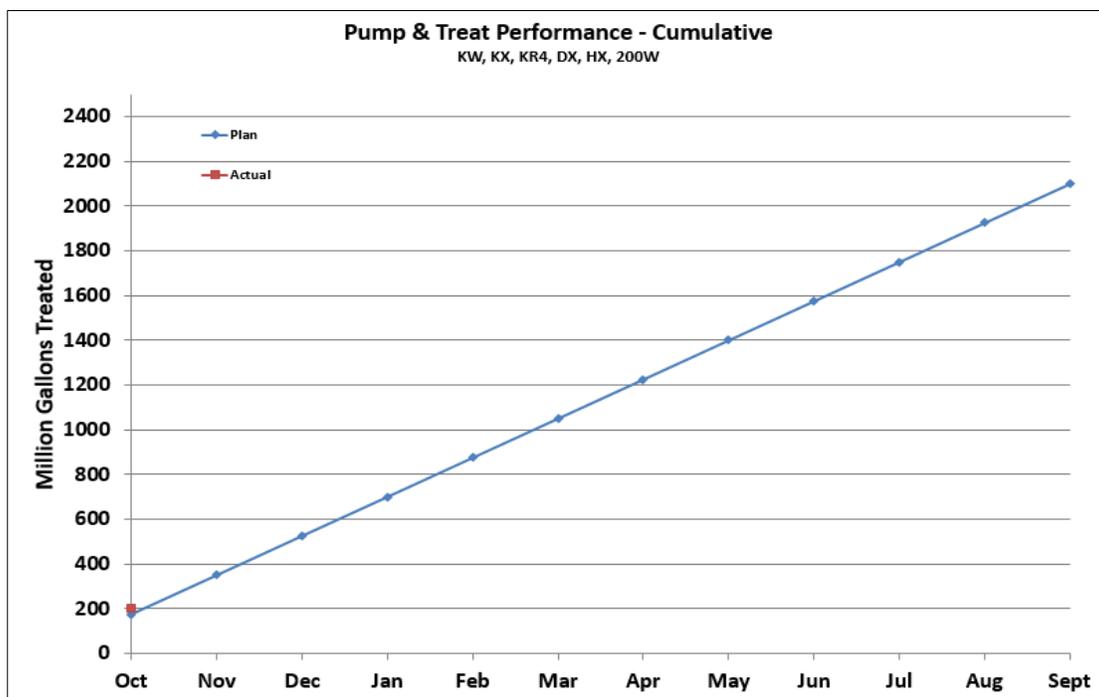
- Operated the KX P&T above 749 gpm, which exceeds the original design capacity of 600 gpm.
- HX P&T is operating at maximum extraction well capacity. Monthly average at approximate 444 gpm.

Perched Water (200-DV-1)

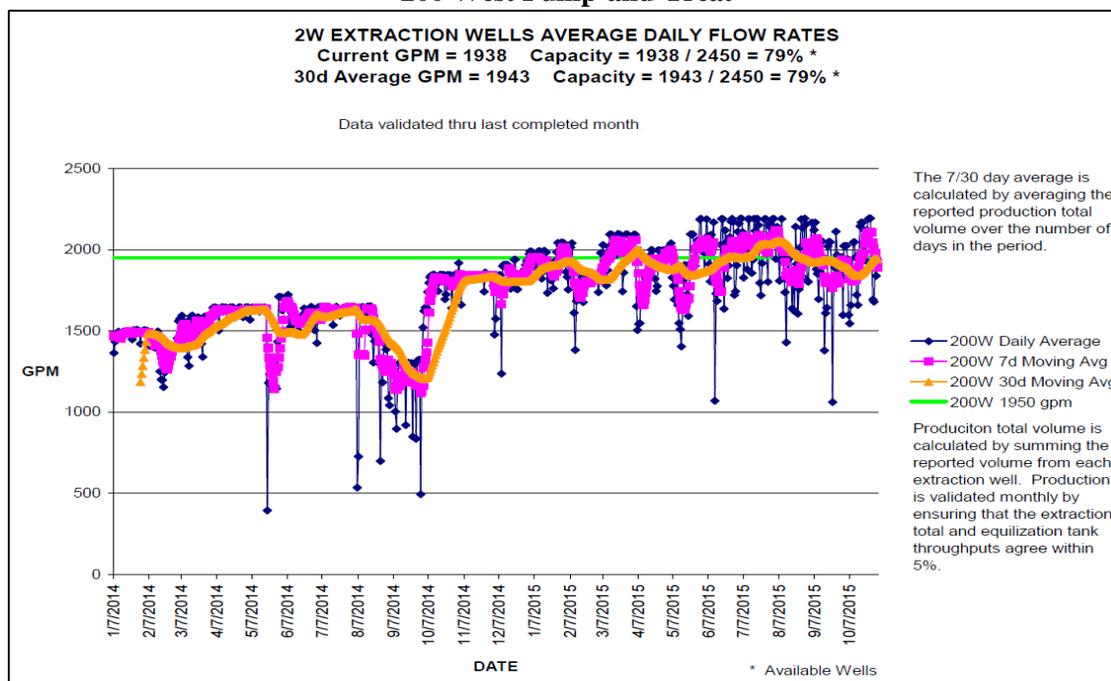
- The perched water removal system was shut down on August 20, 2015, to support construction of two new perched water removal stations and retrofit of the original station. Construction of the new system is expected to be completed in November 2015.
- The B Area perched water extraction system has removed a total volume of 301,156 gallons of perched water since initiating operations on August 30, 2011. No contaminants were removed for the month of October.

Contaminant	October	Cumulative (since startup)
Tc-99	0.0 E-03 Ci	36.3 E-03 Ci
Uranium	0.0 kg	68.5 kg
Nitrates	0.0 kg	579.3 kg

FY2016 Pump-and-Treat Operations



200 West Pump-and-Treat



MAJOR ISSUES

Issue:

The 100-NR-2 field work is delayed due to the Section 106 Cultural Resource Review (CRR) and approval process associated with the Traditional Cultural Property (TCP). This issue impacted performance of the 100-NR-2 apatite barrier in FY2014, and installation of the six M-24 milestone monitoring wells and Deactivation and Decommissioning (D&D) of the P&T facility in FY2015.

Corrective Action:

Develop and implement an approach for preparing the CRRs and conducting the associated Memorandum of Agreement (MOA) workshops to allow more rapid completion of the MOA process so field work can be performed within the TCP. In the meantime, the impacted work scope was moved to FY2016 and beyond.

Status:

Discussions continue between RL and the Tribes on approval of the MOAs for well drilling and D&D of the P&T facility.

Issue:

Experiencing regulatory agency delays in the approval of decision documents, including the legal reviews of the 100-D/H Proposed Plan (RL-2011-111), extended comment resolution on the 100-N RI/FS Report (RL-2012-15, Draft A), and Ecology approval of the 200-IS-1 Tri-Party Agreement change packages (C-013-01 and C-014-02), which affect the 200-IS-1 RI/FS Work Plan (RL-2010-114) scope definition.

Corrective Action:

Maintain visibility on the delays to senior management. RL/CHPRC to continue working with the regulatory agencies to facilitate completion of these documents. Submit Notice of Change letters to RL as contract activities are impacted.

Status:

Delays in completion of the decision documents are reported weekly to RL management and monthly to RL, EPA, and Ecology senior management. Specific document status includes:

- 100-HR-3: Comments have not been received from EPA on their legal review of the Proposed Plan, which began on September 2, 2015.
- 100-NR-2: The regular weekly comment resolution meetings with Ecology on the RI/FS are only occasionally held due to regulator availability.
- 200-IS-1: A meeting was held on October 14, 2015, between RL and Ecology to help resolve the regulatory status of several of the catch tanks, which will then be incorporated into the 200-IS-1 RI/FS Work Plan.
- 200-BP-5: On October 14, 2015, Ecology submitted a letter to extend their review period for the Draft A 200-BP-5 RI report and Draft A 200-PO-1 RI report addendum to November 19, 2015. On October 23, 2015, Ecology provided a letter stating they are suspending their review of these reports due to issues related to fate and transport modeling.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

-  Opportunity currently realized, or mitigation efforts are currently working toward, or after risk trigger with no foreseeable impacts.
-  Mitigation efforts are currently working toward risk trigger with the possibility of actions not in place prior to risk occurrence. Recovery actions may be needed.
-  Risk currently realized, or risk mitigation efforts are past risk trigger date with foreseeable impacts. Recovery actions needed.

-  Increased Confidence
-  No Change
-  Decreased Confidence

Risk Title	Unmitigated Risk Impacts	Assessment		Comments									
		Month	Trend										
RL-0030/WBS-030													
Explanation of major changes to the project monthly spotlight chart: No major changes to the risk spotlight chart in the month of October.													
Realized Risks (Risks that are currently impacting project cost/schedule)													
OPPORTUNITY: SGW-007A: Sampling Requirement Reduction	Reduction in field sampling (locations, frequency, or total number of samples collected) has the opportunity to reduce cost. Risk Handling Strategy: Exploit Probability: Medium (26% to 74%) Worst Case Impacts: \$3 million, 0 day			Opportunity Event: The <i>Optimization Plan to Revise the Groundwater Sampling Plan</i> is final and provides the roadmap to revise all groundwater SAPs over the next two years. <table border="1" data-bbox="857 758 1539 827"> <thead> <tr> <th>Opportunity action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Develop schedule for completing RL Panel Review on the SAPs.</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Obtain RL approval of the revised SAP.</td> <td>12/17/15</td> <td>58</td> </tr> </tbody> </table> Opportunity Assessment: All CERCLA SAPs have completed review by the RL Panel Review. Incorporation of Ecology's comments on the 100-HR-3 SAP into the 100-KR-4 SAP is on schedule to complete in mid-November, with transmittal to RL in early December. All other CERCLA SAPs have been completed. RL's comments on the three remaining RCRA groundwater monitoring plans have been received and comment resolution is underway. It is expected that the plans will be revised in November and transmitted to RL in December. The draft AEA groundwater monitoring SAP was submitted to RL for a 30-day review on October 16, 2015. CHPRC has worked closely with RL on the preparation of this draft document so it's expected that all comments will be incorporated and the document revised by mid-December. The slip to the approval does not require any alternative course of actions at this time.	Opportunity action(s)	FC Date	%	Develop schedule for completing RL Panel Review on the SAPs.	Complete	100	Obtain RL approval of the revised SAP.	12/17/15	58
Opportunity action(s)	FC Date	%											
Develop schedule for completing RL Panel Review on the SAPs.	Complete	100											
Obtain RL approval of the revised SAP.	12/17/15	58											
PRC-005: Delayed Document Approvals	Required regulatory, nuclear safety, or transportation safety documents are not approved within the scheduled timeframes and impact CHPRC scheduled activities. Risk Handling Strategy: Transfer Probability: Very Likely (>90%) Worst Case Impacts: TBD			Risk Event: Progress on several key decision documents have been delayed due to regulator comments and resource availability: <ul style="list-style-type: none"> • 100-D/H PP: The draft Revision 0 100-D/H PP was provided to Ecology in September 2014 for review. EPA's Remedy Review Board (RRB) then began on January 26, 2015, whose comments were received by CHPRC on April 30, 2015. Additional technical reviews by Ecology have been completed. Ecology's legal review began June 9, 2015, and is scheduled for 30 calendar days. Ecology legal review extended from Jul 10, 2015, to July 17, 2015. Ecology legal comments were received on August 5, 2015. Proposed responses to comments submitted to Ecology on August 27, 2015. Following Ecology's legal review, the Revised PP submitted for EPA's legal review in early September 2015. These sequential reviews have significantly impacted the schedule. • 100-N RI/FS: The Draft A 100-N RI/FS and Proposed Plan were provided to Ecology on June 24, 2013, completing Milestone M-015-75. Comments were received on October 2, 2013. Comment resolution has continued, which includes weekly meetings to resolve comments chapter by chapter and preparation of several technical position papers. The team has progressed up to Chapter 8. However, Ecology submitted 104 additional comments on the revised Chapter 6, "Risk Assessment", on May 21, 2015. These are very near being resolved as of September 2015. Additionally, CHPRC responses to Ecology comments on Chapter 7 have been accepted and moved back to Ecology for final review. The RI is expected to be complete by the end of calendar 2015. An extension letter was received from Ecology extending the comment resolution period 3 months. • 200-IS-1 RI/FS Work Plan (WP): RL invoked dispute resolution on December 10, 2013 for Tri-Party Agreement milestone M-015-112, Submit Draft B 200-IS-1 OU 									

Risk Title	Unmitigated Risk Impacts	Assessment		Comments																	
		Month	Trend																		
RL-0030/WBS-030																					
				<p>RI/FS WP. Resolution of this dispute, which includes the 200-IS-1 OU waste sites and TSD/past practice status, is required before the Draft B RI/FS WP can be submitted.</p> <ul style="list-style-type: none"> On October 23, 2015, Ecology submitted a letter that suspended their review of the Draft A 200-BP-5 RI report and Draft A 200-PO-1 RI report addendum due to issues related to fate and transport modeling. <table border="1"> <thead> <tr> <th>Risk recovery action(s)</th> <th>Risk Date</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Resolution with Ecology/EPA on Draft Rev.0 100-D/H PP.</td> <td rowspan="4">04/30/15</td> <td>complete</td> <td>100</td> </tr> <tr> <td>Resolution with Ecology on Draft A 100-N RI/FS Report.</td> <td>12/31/15</td> <td>79</td> </tr> <tr> <td>Complete waste site scope definition and dispute resolution with Ecology on Draft B 200-IS-1 RI/FS.</td> <td>12/30/15</td> <td>50</td> </tr> <tr> <td>Resolution with Ecology on the Draft A 200-BP-5/200-PO-1 RI Report</td> <td>Ongoing</td> <td>N/A</td> </tr> </tbody> </table> <ul style="list-style-type: none"> <p>Risk Assessment:</p> <ul style="list-style-type: none"> 100-D/H PP: RL submitted proposed responses to Ecology on August 27, 2015. Meeting between RL, EPA and Ecology were held on September 2, 2015, to resolve comments. The revised draft PP was submitted to EPA for a 30-day legal review on September 2, 2015. 100-N RI/FS: Comment resolution with Ecology on the Draft A 100-N RI/FS Report continues with the RI (Chapters 6 and 7). Ecology extended the comment resolution period to December 31, 2015 (15-NWP-179). Revised delivery schedule was prepared, however Ecology's availability continues to impact schedule. 200-IS-1 RI/FS WP: Ecology is unwilling to sign Tri-Party Agreement change packages C-13-01 and C-14-02 until all TSDs are clearly identified. These change packages add 233 waste sites into 200 IS-1 Appendix C. Ecology shared their TSD/past practice resolution proposal on April 22, 2015. Additional discussions focused on tanks with liquids remaining following the August 1987 date are necessary with Ecology and RL legal counsels. This meeting was planned for May 21, 2015; it was then moved to June 4, 2015, due to Ecology's legal counsel availability and staffing changes. Due to this change, the dispute resolution was extended to September 30, 2015. In September dispute resolution was further extended to December 31, 2015. The CHPRC project team continues Work Plan preparation efforts based on the scope identified in the two draft change packages. 200-BP-5 RI/FS: Ecology suspended their review of the draft A RI/FS on October 23, 2015 due to issues related to fate and transport modeling. 	Risk recovery action(s)	Risk Date	FC Date	%	Resolution with Ecology/EPA on Draft Rev.0 100-D/H PP.	04/30/15	complete	100	Resolution with Ecology on Draft A 100-N RI/FS Report.	12/31/15	79	Complete waste site scope definition and dispute resolution with Ecology on Draft B 200-IS-1 RI/FS.	12/30/15	50	Resolution with Ecology on the Draft A 200-BP-5/200-PO-1 RI Report	Ongoing	N/A
Risk recovery action(s)	Risk Date	FC Date	%																		
Resolution with Ecology/EPA on Draft Rev.0 100-D/H PP.	04/30/15	complete	100																		
Resolution with Ecology on Draft A 100-N RI/FS Report.		12/31/15	79																		
Complete waste site scope definition and dispute resolution with Ecology on Draft B 200-IS-1 RI/FS.		12/30/15	50																		
Resolution with Ecology on the Draft A 200-BP-5/200-PO-1 RI Report		Ongoing	N/A																		
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)																					
No critical risks identified in the month of <i>October</i>																					
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)																					
No high risks identified in the month of <i>October</i>																					
Unassigned Risks (Pending ownership of identified risks/opportunities)																					
No unassigned risks identified in the month of <i>October</i> .																					

PROJECT BASELINE PERFORMANCE

Current Month

(\$M)

RL-0030 Soil and Groundwater Remediation	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)
Total	8.8	7.5	7.8	(1.3)	-14.5%	(0.3)	-3.6%

Numbers are rounded to the nearest \$0.1 million.

CM Schedule Performance (-\$1.3M/-14.5%)

The negative schedule variance (SV) resulted from the following:

- Performed the cumulative impact analysis and the 300-FF-5 Stage A well drilling ahead of plan in FY2015 resulting in negative current period SV as the performance returns to zero.
- Scope associated with the 200 East closure plans, outer area decision documents, composite analysis, and 200-UP-1 drilling campaign has been deferred to align with the integrated priority list and available funding.
- Finalization and award of the 200 West P&T safety platform subcontract was delayed by nearly a month in order to include an option for tarping station concrete work. This delay in award impacted the receipt of subcontractor submittals and their review which subsequently impacted initiation of fabrication. This SV will be recovered by February 2016.
- This is offset by positive performance earned by significant completion of the 1713-H warehouse D&D ahead of the planned FY2018 demolition.

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

The current month cost variance is within reporting threshold.

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	1,163.7	1,154.9	1,135.2	(8.8)	-0.8%	19.7	1.7%	1,565.4	1,513.8	51.5

Numbers are rounded to the nearest \$0.1 million.

CTD Schedule Performance (-\$8.8M/-0.8%)

The variance is within reporting thresholds.

CTD Cost Performance (+\$19.7M/+1.7%)

The variance is within reporting thresholds.

Variance at Completion (+\$51.5/+3.3%)

The variance is within reporting thresholds.

Contract Performance Report Formats are provided in Appendix A.

FUNDS vs. SPEND FORECAST (\$M)

RL-0030 Soil and Groundwater Remediation	FY2016		Spend Variance
	Projected Funding	Spending Forecast	
RL-0030	126.1	125.3	0.8

Numbers are rounded to the nearest \$0.1 million

Funds/Variance Analysis

FY2016 initial budget guidance received from RL reflects expected funding of \$509.3 million for the company. RL-0030 project funding is \$126.1 million for FY2016. The Spending Forecast includes actions anticipated to achieve the funding targets.

Critical Path Schedule

Critical path analysis can be provided upon request.

Baseline Change Requests

BCR-030-16-001R0, CO #293, 100-BC-5 RI-FS Decision Document Rewrite

BCR-030-16-002R0, CO #292, 200-SW-2 RIFS WP Aerial Rad Survey

BCR-030-16-003R0, PBS RL-030 Work Scope Deferrals

BCR-030-16-004R0, Revise 100-FR-3 Planning to Reflect ROD Final Remedy

BCR-030-16-005R0, Combine Redundant WBS from Definitized Change Proposals

BCR-030-16-006R0, Definitization of CO #267, 200-UP-1 SE Chromium Plume Characterization, Evaluation, and Remedial Design

BCR-PRC-16-010R0, Undistributed Budget Adjustments October 2015

MILESTONE STATUS

Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) milestones represent significant achievements in project execution. Enforceable Tri-Party Agreement milestones were established to provide high-level visibility to critical deliverables and specific status on the accomplishment of these key activities. The PMB Annual Update, implemented in September 2013, and subsequent approved BCRs define CHPRC planning with respect to Tri-Party Agreement milestones. A Tentative Agreement for Tri-Party Agreement Milestone series M-015, M-016, M-037 and M-085 was signed on October 26, 2015. This agreement is in public review through December 11, 2015. The following table is a one year look ahead of Tri-Party Agreement enforceable milestones, non-enforceable target due dates and commitments.

Number	Title	Type	Due Date	Actual Date	Forecast Date	Status/ Comment
Completed Milestones						
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	I	9/30/15	10/26/15		Tentative Agreement on Hanford Federal Facility Agreement and Consent Order Revisions for Central Plateau Cleanup approved October 26 2015.
Milestones in Dispute						
M-015-112	Submit Draft B, 200-IS-1 Operable Unit Pipeline System Waste Sites RFI/CMS/RI/FS Work Plan to Ecology	I	2/28/14		TBD	Dispute resolution extended to December 31, 2015 (Tri-Party Agreement Change Control Form M-15-13-02)
Milestones included in Tentative Agreement						
M-015-21A	Submit 200-BP-5 & 200-PO-1 OU FS Report and PP(s) to Ecology	I	6/30/15		9/10/16	Proposed due date is 6/30/2018
M-015-92A	Submit RFI/CMS & RI/FS Work Plan for 200-EA-1 OU to Ecology	I	6/30/15		6/24/21	Proposed due date is 9/30/2017
M-015-110B	Submit CMS & FS & PP/Proposed CA Decision for 200-DV-1 OU to Ecology	I	9/30/15		6/24/19	Proposed due date is 9/30/2023
M-015-91B	Submit FS Report and PP for 200-WA-1 to EPA	I	12/31/15		4/30/17	Proposed due date is 7/31/2021

M-015-38B	Submit Revised FS Report and PP for CW-1, CW-3, & OA-1 to EPA	I	10/30/15		6/10/19	Proposed due date is 7/31/2023
Milestones on schedule						
M-091-40L-048	Submit July to Sept. 4th Quarter FY2015 Burial Ground Sample Results.	I	12/15/15		12/15/15	On schedule
M-015-78	Complete two years of groundwater and aquifer tube sampling at the 100-BC expanded monitoring network in accordance with the revised 100-BC-1,2 and 5 RI/FS Work Plan/SAP	I	2/28/16		2/25/16	On schedule
M-091-40L-049	Submit Oct. to Dec. 1st Quarter FY2016 Burial Ground Sample Results.	I	3/15/16		3/15/16	On schedule
M-016-191	Complete acceptance test procedures and operational test procedures and initiate startup operations for the U Plan area P&T for uranium and tech-99, and Iodine-129 hydraulic containment system	I	3/30/16		12/2/15	On schedule
M-024-58I	Initiate Discussions of Well Commitments	I	6/1/16		6/1/16	On schedule
M-091-40L-050	Submit Jan to March 2nd Quarter FY2016 Burial Ground Sample Results.	I	6/15/16		6/15/16	On schedule
M-024-67-T01	Conclude Discussions of Well Commitments	T	8/1/16		8/1/16	On schedule
M-091-40L-051	Submit Apr to Jun 3rd Quarter FY2016 Burial Ground Sample Results.	I	9/15/16		9/15/16	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)



R. M. Geimer
Vice President for
K Basin Operations and
Plateau Remediation
(KBO&PR)

October 2015
CHPRC-2015-10, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

The inactive Central Plateau facilities and Radiation Areas Remedial Action (RARA) sites continue to be compliantly maintained in a low-cost surveillance and maintenance condition. The project performed Waste Information Data System (WIDS) waste site housekeeping (tumbleweed removal, corrected posting issues). The Project also completed Presumed Asbestos-Containing Material (PACM) WIDS site surveillance, dispositioned legacy transformers at REDOX, and removed RMAs at REDOX and U Plant.

EMS Objectives and Target Status

None currently identified.

TARGET ZERO PERFORMANCE

	Current Month	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	0	N/A
Total Recordable Injuries	0	0	N/A
First Aid Cases	1	2	<ul style="list-style-type: none"> • 10/13/2015 – Employee was kicked in the ankle by an NCO. (23838)
Near-Misses	0	0	N/A

KEY ACCOMPLISHMENTS

- Operations/Maintenance:
 - o Performed WIDS waste site housekeeping (tumbleweed removal, corrected posting issues).
 - o Completed PACM WIDS site surveillance.
 - o Completed backfilling 216-T-6 (subsidence issue).
 - o Removed RMAs at REDOX and U Plant.
 - o Completed disposition of legacy transformers at REDOX.
 - o Completed tour of REDOX facility with Senior Management.
- Completed:
 - o 79 radiological facility surveillances.
 - o 32 preventive maintenance activities.
- Nuclear Safety:
 - o Submitted 224-B 2016 annual DSA update for internal review and approval.
 - o Initiated concurrent implementation activities of 224-T and PUREX annual DSA updates.
 - o Submitted B Plant 2015 annual DSA update to RL for concurrence.
- 207A South Retention Basin Closure:
 - o Completed demolition and down-posting.
- Initiated REDOX roof replacement 90 percent design activities.
- Continued progress on Canyon Stabilization Documents:

- o Continued progress on REDOX, PUREX, and B Plant FHAs.
- o Continued progress on closure plans.
- o Initiated REDOX, PUREX, and B Plant EE/CAs.
- o Initiated REDOX and PUREX DSAs.

MAJOR ISSUES

None currently identified.

RISK MANAGEMENT STATUS

<p>Unassigned Risk</p> <p>Risk Passed</p> <p>New Risk</p> <p>Change</p>	<p> Opportunity realized, or mitigation efforts are currently working toward, or after risk trigger with no foreseeable impacts.</p> <p> Mitigation efforts are currently working toward risk trigger with the possibility of actions not in place prior to risk occurrence. Recovery actions may be needed.</p> <p> Risk currently realized, or risk mitigation efforts are past risk trigger date with foreseeable impacts. Recovery actions needed.</p>	<p> Increased Confidence</p> <p> No Change</p> <p> Decreased Confidence</p>	
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Risk Title	Unmitigated Risk Impacts	Assessment		Comments						
		Month	Trend							
RL-0040/WBS-040										
Explanation of major changes to the project monthly spotlight chart:										
In the month of October risk spotlight chart was updated to reflect risk register updates, and FY2016 quantitative risk analysis.										
Realized Risks (Risks that are currently impacting project cost/schedule)										
No realized risks for the month of October.										
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)										
No critical risks identified in the month of October.										
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)										
Lifecycle Risk Triggers (Risk could be realized at any point of the project)										
D4-064: Aging Building Systems/Components	Problems with aging building systems/components (e.g., roofing/structures, etc.) result in inoperability or requires unscheduled maintenance/ outages, resulting in cost impacts. Risk Handling Strategy: Accept Probability: Likely (75% to 90%) Worst Case Impacts: \$2M, 0 day			Risk Trigger Metric: During routine surveillance activities unforeseen events cause systems to be compromised. This is a lifecycle risk and will continue through the CHPRC (September 30, 2018). <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th style="width: 80%;">Mitigation action(s)</th> <th style="width: 10%;">FC Date</th> <th style="width: 10%;">%</th> </tr> </thead> <tbody> <tr> <td>None identified at this time.</td> <td style="text-align: center;">N/A</td> <td style="text-align: center;">N/A</td> </tr> </tbody> </table> Mitigation Assessment: The mitigation strategies have been put in place (i.e., continuous surveillance activities for high risk areas), as a result, the risk strategy is to accept with no further mitigation actions or alternate course of actions identified at this time.	Mitigation action(s)	FC Date	%	None identified at this time.	N/A	N/A
Mitigation action(s)	FC Date	%								
None identified at this time.	N/A	N/A								
Unassigned Risks (Pending ownership of identified risks/opportunities)										
No unassigned risks identified for RL-0040 in the month of October.										

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	1.2	1.3	1.8	0.0	1.0%	(0.6)	-46.4%

Numbers are rounded to the nearest \$0.1 million

CM Schedule Performance: (+\$0.0M/+1.0%)

The schedule variance is within reporting thresholds.

CM Cost Performance: (-\$0.6M/-46.4%)

The unfavorable cost variance is primarily due to inefficiencies associated with up front training costs pertaining to subcontractors performing work package development, fire protection assessments, fire hazards development and DSA development.

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	403.2	403.1	371.5	(0.1)	-0.0%	31.6	7.8%	471.5	436.1	35.4

Numbers are rounded to the nearest \$0.1 million

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

The schedule variance is within reporting thresholds.

CTD Cost Performance: (+\$31.6M/+7.8%)

The favorable cost variance (CV) is due to prior year activity that has been previously reported including:

- ARRA-funded work scope included efficiencies with Program Management (\$2.6 million), Cold and Dark and Characterization/Waste Identification Form teams (\$4.0 million), lower than planned capital equipment costs (\$3.0 million), efficiencies with Arid Lands Ecology (ALE) (\$3.7 million) and North Slope Facilities (\$1.2 million), disposition of railcars D&D (\$2.1 million), and Industrial 7 Project (\$3.6 million). This is offset by increased material and equipment costs, unexpected asbestos levels, and schedule delays in other ARRA D4 Projects (-\$15.3 million). Efficiencies in Outer Area Waste Sites (\$6.7 million) are primarily due to Remove, Treat, and Dispose (RTD) O-Zone Waste Sites, and Environmental Restoration Disposal Facility (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 (\$7.4 million) contributed to the favorable CV.
- The remaining CTD favorable CV 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 (\$1.1 million), Surveillance and Maintenance (S&M) costs less than expected (\$4.4 million), U Plant

completion of the sampling of Cell 30 with less resources than planned (\$1.1 million), Program Management utilizing less resources (\$3.6 million), Emergency Response activities (\$0.6 million) and underrun in overhead allocations (\$2.1 million).

Variance at Completion (+\$35.4M/+7.5%)

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

Contract Performance Report Formats are provided in Appendix A.

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

WBS 040/RL-0040 Nuclear Facility D&D	FY2016		
	Projected Funding	Spending Forecast	Spend Variance
RL-0040	24.6	22.9	1.7

Numbers are rounded to the nearest \$0.1 million.

Funds/Variance Analysis

FY2016 initial budget guidance received from RL reflects expected funding of \$509.3 million for the company. RL-0040 project funding is \$24.6 million for FY2016. The Spending Forecast includes actions anticipated to achieve the funding targets.

Critical Path Schedule

Critical path analysis can be provided upon request.

Baseline Change Requests

- BCR-040-16-001R, *Deferral of Canyon Risk Mitigation Planning Package*
- BCR-PRC-16-004R0, *Address Bags of Suspect Plutonium Nitrate*
- BCR-PRC-16-005R0, *Reinstate Canyon Facility Risk Mitigation*
- BCR-PRC-16-006R0, *Documentation to Support Canyon Stabilization and Risk Mitigation*
- BCR-PRC-16-007R0, *Increased Frequency of PMs, PBS RL-040*
- BCR-PRC-16-009R0, *Outer Area Waste Site Remediation*
- BCR-PRC-16-010R0, *Undistributed Budget Adjustments – October 2015*
- BCR-PRC-16-012R0, *Revisions to Undistributed Budget for Contract Modification 445*

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.

Number	Title	Due Date	Actual Date	Forecast Date	Status/ Comment
M-016-250	Develop three-year rolling prioritized scheduled to implement waste site removal actions	3/31/2016		3/16/2016	On Schedule
M-037-11	Complete Closure Requirements for 216-B-3 and 216-S-10	9/30/2016		9/30/2016	At Risk (being renegotiated to September 20, 2021 as part of tentative agreement).

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)



R. M. Geimer
Vice President for
K Basin Operations and
Plateau Remediation
(KBO&PR)

October 2015
CHPRC-2015-10, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

The 100K Characterization Wells Project completed all laboratory analysis, fieldwork, and site demobilization. The project began excavation of the Area AB waste site remediation work. In addition, work continued toward the development of a change proposal for a transition plan and extent of condition reviews supporting transfer of River Corridor Closure Contract (RCCC) scope to CHPRC.

EMS OBJECTIVES AND TARGET STATUS

None currently identified.

TARGET ZERO PERFORMANCE

	Current Month	Rolling 12 Months	Comment
Days Away, Restricted or Transferred	0	0	N/A
Total Recordable Injuries	0	1	N/A
First Aid Cases	0	0	N/A
Near-Misses	0	0	N/A

KEY ACCOMPLISHMENTS

- 100K Characterization Wells:
 - o 116-KE-3 and UPR-100-K-1:
 - Completed all laboratory analysis.
 - Completed all fieldwork.
 - Completed site demobilization.
 - Prepared waste for shipment to ERDF. Awaiting waste profile approval.
- Area AB waste site remediation:
 - Initiated waste site excavation activities.
- 165KE Asbestos Abatement
 - Training in process for new insulators.
- Completed 14 Radiological Surveillances.
- RCCC Transition:
 - Completed annotated outline of draft CHPRC RCCC Transition Plan and shared with RL.
 - Prepared Change Order 289 detailed cost estimates and submitted Change Proposal for RCCC Transition Planning to RL on October 22, 2015.
 - Conducted deep dive reviews of functional areas including:
 - Labor Relations, Site Stabilization Agreement, Procurement, Finance, Property Management, Human Resources, Communications, Safety, Health, Security Quality,

Emergency Preparedness, Environmental, Interface Management, Prime Contracts, Earned Value Management Systems, Risk Management, Information Resource Management and Information Technology.

- Held follow-up WCH/CHPRC Senior Management Transition meeting to discuss transition status and approach.
- Updated charging strategy to align with the Change Order 289 Change Proposal and issued updated Work Charge Authorization (WCA) with charging guidance.
- Drafted Extent of Condition checklists for 324 Facility. Obtained WCH agreement on walk-downs dates.

MAJOR ISSUES

None currently identified.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change



Opportunity currently realized, or mitigation efforts are currently working toward, or after risk trigger with no foreseeable impacts.



Mitigation efforts are currently working toward risk trigger with the possibility of actions not in place prior to risk occurrence. Recovery actions may be needed.



Risk currently realized, or risk mitigation efforts are past risk trigger date with foreseeable impacts. Recovery actions needed.



Increased Confidence



No Change



Decreased Confidence

Risk Title	Unmitigated Risk Impacts	Assessment		Comments		
		Month	Trend			
RL-0041/WBS-041						
Explanation of major changes to the project monthly spotlight chart: In the month of October risk spotlight chart was updated to reflect risk register updates, and FY2016 quantitative risk analysis.						
Realized Risks (Risks that are currently impacting project cost/schedule)						
No realized risks for the month of October .						
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)						
No critical risks identified in the month of October .						
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)						
Lifecycle Risk Triggers (Risk could be realized at any point of the project)						
KBC-002: Subcontract Change Orders/Claims	Subcontracts for D4, soil remediation, and other field support services require revision based on discovery of changed conditions or completion requirements resulting in cost impacts and schedule delays. Risk Handling Strategy: Accept Probability: Low (10% to 25%) Worst Case Impacts: \$1.5M, 66 days	●	↔	Risk Trigger Metric: Field condition changes, including but not limited to, the amount of waste containers provided for soil remediation on a daily basis.		
				<table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>None identified at this time.</td> <td>N/A</td> <td>N/A</td> </tr> </tbody> </table>	Mitigation action(s)	FC Date
Mitigation action(s)	FC Date	%				
None identified at this time.	N/A	N/A				
Mitigation Assessment: Increase communication/interface continues between the Project and ERDF to obtain delivery of containers needed to achieve planned production rates for waste site remediation needed containers. <i>At this time, no alternative course of actions needed.</i>						
Unassigned Risks (Pending ownership of identified risks/opportunities)						
No unassigned risks identified for RL-0041 in the month of October .						

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	1.6	1.1	0.9	113.6%	0.5	33.5%

Numbers are rounded to the nearest \$0.1 million

CM Schedule Performance (+\$0.9M/+113.6%)

The current period favorable SV is primarily due to continued acceleration of AB Waste Site Remediation scope.

CM Cost Performance (+\$0.5M/+33.5%)

The current period favorable CV is primarily due to less near term labor resources required than planned in the functional, technical and sampling areas associated with initial excavation of AB waste site 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	317.6	318.6	290.5	1.0	0.3%	28.1	8.8%	398.9	367.4	31.5

Numbers are rounded to the nearest \$0.1 million

CTD Schedule Performance (+\$1.0M/+0.3%)

The schedule variance is within reporting thresholds.

CTD Cost Performance (+\$28.1M/+8.8%)

The positive cost variance is primarily the result of prior year activity that had been previously reported on, and Confirmatory Sampling No Action (CSNA) sites that were completed early and under costs. In addition, less demolition was required for the KE Sedimentation Basin, and there were underruns in General and Administrative and Direct Distributable. This was partially offset by the cost overruns in prior years for the Utilities Project.

Variance at Completion (+\$31.5M/+7.9%)

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	FY2016		
	Projected Funding	Spending Forecast	Spend Variance
RL-0041	15.1	14.0	1.1

Numbers are rounded to the nearest \$0.1 million.

Funds/Variance Analysis:

FY2016 initial budget guidance received from RL reflects expected funding of \$509.3 million for the company. RL-0041 project funding is \$15.1 million for FY2016. The Spending Forecast includes actions anticipated to achieve the funding targets.

Critical Path Schedule

Critical Path Analysis can be provided upon request.

Baseline Change Requests

BCR-041-16-002R0, *Deferral of PBS RL041 Unfunded Work Scope*

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)



R. M. Geimer
Vice President for
K Basin Operations and
Plateau Remediation
(KBO&PR)

October 2015
CHPRC-2015-10, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

The FFTF is being maintained in a low-cost surveillance and maintenance condition.

EMS OBJECTIVES AND TARGET STATUS

None currently identified.

TARGET ZERO PERFORMANCE

	Current Month	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	0	N/A
Total Recordable Injuries	0	0	N/A
First Aid Cases	0	0	N/A
Near-Misses	0	0	N/A

KEY ACCOMPLISHMENTS

- Completed Fuels and Materials Examination Facility (FMEF) roof inspection.
- Initiated planning for water tank heater repairs for tanks T-58 and T-87.
- 400 Area Water Systems:
 - o Completed all required water systems monthly and weekly inspections.
 - o Completed all required fire systems monthly and weekly inspections.
- Completed:
 - o 25 Preventative Maintenance activities.
 - o Four operational surveillances.
 - o Four radiological surveillances.

MAJOR ISSUES

None currently identified.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

- Opportunity currently realized, or mitigation efforts are currently working toward, or after risk trigger with no foreseeable impacts.
- Mitigation efforts are currently working toward risk trigger with the possibility of actions not in place prior to risk occurrence. Recovery actions may be needed.
- Risk currently realized, or risk mitigation efforts are past risk trigger date with foreseeable impacts. Recovery actions needed.

- Increased Confidence
- No Change
- Decreased Confidence

Risk Title	Unmitigated Risk Impacts	Assessment		Comments
		Month	Trend	
RL-0042/WBS-042				
Explanation of major changes to the project monthly spotlight chart:				
No major changes to the risk profile for the month of October .				
Realized Risks (Risks that are currently impacting project cost/schedule)				
No realized risks for the month of October .				
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)				
No critical risks identified in the month of October .				
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)				
No high threat value risks identified in the month of October .				
Unassigned Risks (Pending ownership of identified risks/opportunities)				
No unassigned risks identified in the month of October .				

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	0.1	0.1	0.1	(0.0)	-0.1%	0.1	43.2%

Numbers are rounded to the nearest \$0.1M

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

The current period schedule variance is within reporting thresholds.

CM Cost Performance: (+\$0.1M/+43.2%)

The current period cost variance is within reporting thresholds.

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	20.2	20.3	16.6	0.0	0.1%	3.7	18.2%	26.7	22.7	4.0

Numbers are rounded to the nearest \$0.1 million

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

The schedule variance is within reporting thresholds.

CTD Cost Performance (+\$3.7M/+18.2%)

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

Variance at Completion (+\$4.0M/+14.9%)

The Variance at Completion is within reporting thresholds.

Contract Performance Report Formats are provided in Appendix A.

FUNDS VS. SPEND FORECAST (\$M)

FY2016			
RL-0042 FFTF Closure	Projected Funding	Spending Forecast	Spend Variance
RL-0042	3.3	1.7	1.6

Numbers are rounded to the nearest \$0.1 million

Funds Analysis

FY2016 initial budget guidance received from RL reflects expected funding of \$509.3 million for the company. RL-0042 project funding is \$3.3 million for FY2016. The Spending Forecast includes actions anticipated to achieve the funding targets.

Critical Path Schedule

Critical path analysis is not applicable to this project. The remaining contract scope is performance of interim surveillance and maintenance activities pending facility disposition.

Baseline Change Requests

None currently identified.

MILESTONE STATUS

None currently identified.

SELF-PERFORMED WORK

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

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.

Appendix A

Contract Performance Reports

Format 1 - Work Breakdown Structure

Format 2 - Organizational Categories

Format 3 - Baseline

Format 4 - Staffing

Format 5 - Explanation and Problem Analysis



October 2015
CHPRC-2015-10, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

CLASSIFICATION (When Filled In)

**INTEGRATED PROGRAM MANAGEMENT REPORT
FORMAT 1 - WORK BREAKDOWN STRUCTURE**

DOLLARS IN Dollars

PENDING UPDATE TO
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) 2015 / 10 / 01									
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE			b. TO (YYYYMMDD) 2015 / 10 / 25									
		c. TYPE CPAF	d. SHARE RATIO	c. EVMS ACCEPTANCE NO X YES (YYYYMMDD) 2009 / 09 / 18												
5. CONTRACT DATA																
a. QUANTITY 1	b. NEGOTIATED COST 5,528,242	c. ESTIMATED COST OF AUTHORIZED UNPRICED WORK 17,216	d. TARGET PROFIT/FEE 232,907	e. TARGET PRICE 5,761,149	f. ESTIMATED PRICE 5,579,881	g. CONTRACT CEILING 5,761,149	h. ESTIMATED CONTRACT CEILING 5,579,881	i. DATE OF OTB/OTS (YYYYMMDD)								
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) Dickerson, Kala K		b. TITLE Prime Contract Manager									
a. BEST CASE		5,286,643			c. SIGNATURE		d. DATE SIGNED (YYYYMMDD) 10/25/2015									
b. WORST CASE		5,408,691														
c. MOST LIKELY		5,346,974	5,545,458	198,484												
8. PERFORMANCE DATA																
CAPN.PBS 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)						
RL-0011 Nuclear Mat Stab & Disp PFP	8,338	7,079	6,568	(1,260)	511	871,809	843,330	849,364	(28,479)	(6,034)	0	0	0	969,578	967,344	2,234
RL-0012 SNF Stabilization & Disp	4,399	6,413	5,179	2,013	1,234	521,476	522,121	535,082	646	(12,961)	0	0	0	717,493	723,971	(6,478)
RL-0013 Solid Waste Stab & Disp	7,714	7,829	6,960	115	869	987,794	991,046	933,810	3,251	57,236	0	0	0	1,334,227	1,254,064	80,164
RL-0030 Soil & Water Rem-Grndwtr/Vadose	8,812	7,538	7,810	(1,274)	(271)	1,163,696	1,154,875	1,135,161	(8,821)	19,714	0	0	0	1,561,414	1,509,875	51,538
RL-0040 Nuc Fac D&D - Remainder Hanfrd	1,240	1,252	1,834	12	(581)	403,215	403,124	371,499	(91)	31,625	0	0	0	469,520	434,078	35,442
RL-0041 Nuc Fac D&D - RC Closure Proj	766	1,636	1,089	870	547	317,634	318,571	290,486	938	28,085	0	0	0	398,269	366,728	31,541
RL-0042 Nuc Fac D&D - FFTF Proj	136	135	77	(0)	58	20,234	20,262	16,582	29	3,680	0	0	0	26,694	22,704	3,990
b. COST OF MONEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
c. GENERAL AND ADMINISTRATIVE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
d. UNDISTRIBUTED BUDGET														7,879	7,879	0
e. SUBTOTAL	31,405	31,883	29,516	477	2,367	4,285,858	4,253,329	4,131,984	(32,529)	121,345	0	0	0	5,485,073	5,286,643	198,430
f. MANAGEMENT RESERVE														60,331		
g. TOTAL	31,405	31,883	29,516	477	2,367	4,285,858	4,253,329	4,131,984	(32,529)	121,345	0	0	0	5,545,404		
9. RECONCILIATION TO CONTRACT BUDGET BASELINE																
a. VARIANCE ADJUSTMENT																
b. TOTAL CONTRACT VARIANCE																
										(32,529)	121,345			5,545,404	5,286,643	258,761

CLASSIFICATION (When Filled In)

CLASSIFICATION (When Filled In)

**INTEGRATED PROGRAM MANAGEMENT REPORT
FORMAT 2 - ORGANIZATIONAL CATEGORIES**

DOLLARS IN Dollars

PENDING UPDATE TO
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) 2015 / 10 / 01		
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE			b. TO (YYYYMMDD) 2015 / 10 / 25		
c. TYPE CPAF		d. SHARE RATIO		c. EVMS ACCEPTANCE NO <input type="checkbox"/> X YES <input checked="" type="checkbox"/> (YYYYMMDD) 2009 / 09 / 18					

WBS.Resp Org Group WBS.Resp Org Code ITEM (1)	CURRENT PERIOD					CUMULATIVE TO DATE					REPROGRAMMING ADJUSTMENTS			AT COMPLETION		
	BUDGETED COST		ACTUAL	VARIANCE		BUDGETED COST		ACTUAL	VARIANCE		COST	SCHEDULE	BUDGET	BUDGETED	ESTIMATED	VARIANCE
	WORK SCHEDULED (2)	WORK PERFORMED (3)	COST WORK PERFORMED (4)	SCHEDULE (5)	COST (6)	WORK SCHEDULED (7)	WORK PERFORMED (8)	COST WORK PERFORMED (9)	SCHEDULE (10)	COST (11)	VARIANCE (12a)	VARIANCE (12b)	BUDGET (13)	(14)	(15)	(16)
34 - Env Program & Strategic Plng	741	423	629	(318)	(205)	56,876	57,107	53,134	550	3,974	0	0	0	83,176	78,824	4,352
35 - Business Services	0	0	0	0	0	472,524	472,524	448,488	0	24,036	0	0	0	472,524	448,488	24,036
36 - Prime Contract & Proj Integr	196	196	108	0	87	2,326	2,326	1,098	0	1,228	0	0	0	8,602	7,203	1,399
38 - Project Technical Services	0	0	0	0	0	0	0	0	0	(0)	0	0	0	0	0	(0)
3B - PFP Closure Project	8,294	7,035	6,564	2,578	6,941	785,175	756,695	770,152	(28,479)	(13,457)	0	0	0	882,319	887,517	(5,198)
3C - Waste & Fuels Management Project	7,687	7,802	6,912	2,480	4,077	879,852	883,104	826,055	3,251	57,049	0	0	0	1,225,352	1,145,382	79,971
3D - Soil & Groundwater Remediation	8,023	7,067	7,158	(559)	1,581	1,007,902	998,849	976,756	(9,053)	22,093	0	0	0	1,377,386	1,323,899	53,487
3G - K Basin Oper & Plateau Remediation Project	6,465	9,361	8,145	563	(1,739)	1,081,203	1,082,724	1,056,301	1,521	26,422	0	0	0	1,427,835	1,387,451	40,384
b. COST OF MONEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
c. GENERAL AND ADMINISTRATIVE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
d. UNDISTRIBUTED BUDGET														7,879	7,879	0
e. SUBTOTAL (Performance Measurement Baseline)	31,405	31,883	29,516	477	2,367	4,285,858	4,253,329	4,131,984	(32,529)	121,345	0	0	0	5,485,073	5,286,643	198,430
f. MANAGEMENT RESERVE														60,331		
g. TOTAL	31,405	31,883	29,516	477	2,367	4,285,858	4,253,329	4,131,984	(32,529)	121,345	0	0	0	5,545,404		

CLASSIFICATION (When Filled In)

CONTRACT PERFORMANCE REPORT FORMAT 3 - BASELINE													DOLLARS IN THOUSANDS				Form Approved OMB No. 0704-0188			
1. CONTRACTOR CH2M HILL Plateau Remediation Company b. LOCATION: Richland, WA			2. CONTRACT a. NAME: Plateau Remediation Contract b. NUMBER: RL14788 c. TYPE: CPAF d. SHARE RATIO:				3. PROGRAM a. NAME: Plateau Remediation Contract b. PHASE c. EVMS ACCEPTANCE NO YES X 9/18/2009			4. REPORT PERIOD a. FROM: 2015/10/01 b. TO: 2015/10/25										
5. CONTRACT DATA																				
a. ORIGINAL NEGOTIATED COST 4,312,366				b. NEGOTIATED CONTRACT CHANGE \$1,215,875		c. CURRENT NEGOTIATED COST (A + B) \$5,528,242		d. ESTIMATED COST AUTH UNPRICED WORK \$17,216		e. CONTRACT BUDGET BASE (C + D) \$5,545,458		f. TOTAL ALLOCATED BUDGET \$5,545,404		g. DIFFERENCE (E - F) \$54						
h. CONTRACT START DATE 6/19/2008				i. DEFINITIZATION DATE 6/19/2008		j. PLANNED COMPL DATE 9/30/2018		k. CONT COMPLETION DATE 9/30/2018		l. EST COMPLETION DATE 9/30/2018										
6. PERFORMANCE DATA																				
ITEM (1)			BCWS CUM TO DATE (2)		BCWS FOR REPORT PERIOD (3)		BUDGETED COST FOR WORK SCHEDULED (NON - CUMULATIVE)										UNDISTRIB BUDGET (16)	TOTAL BUDGET (17)		
							SIX MONTH FORECAST													
							+1 Nov-15 (4)	+2 Dec-15 (5)	+3 Jan-16 (6)	+4 Feb-16 (7)	+5 Mar-16 (8)	+6 Apr-16 (9)	FY09-13 (10)	FY14 (11)	FY15 (12)	FY16 (13)	FY17 (14)	FY18 (15)		
a. PM BASELINE (BEGIN OF PERIOD)			4,254,452		31,984		39,018	32,749	39,685	32,115	42,077	31,864	3,391,477	391,653	471,323	421,189	389,300	360,969	58,175	5,484,085
b. BASELINE CHANGES AUTH DURING REPORT PERIOD																				
BCR-013-16-001R0 - CO #282, Burial Ground CAHCAs to URMAs																237	0			237
BCR-013-16-002R0 - CO #290, Canister Storage Building (CSB) Stack Modeling																119	0			119
BCR-013-16-003R0 - T Plant Repack to WA-3 - Certify Large-Small container CH Transuranic Mix Waste (TRUM)																3,623	(2,697)	(927)		0
BCR-030-16-001R0 - CO #293, 100-BC-5 RI-FS Decision Document Rewrite																333				333
BCR-030-16-002R0 - CO #292, 200-SW-2 RIFS WP Aerial Rad Survey																200				200
BCR-030-16-003R0 - PBS RL-030 Work Scope Deferrals																(700)	700			0
BCR-030-16-004R0 - Revise 100-FR-3 Planning to Reflect ROD Final Remedy																1,064	(236)	(828)		0
BCR-030-16-005R0 - Combine Redundant WBS from Definitized Change Proposals																0	0			0
BCR-030-16-006R0 - Definitization of CO #267, 200-UP-1 SE Chromium Plume Characterization, Eval., and Remedial Design																1,892	2,738	793		5,423
BCR-040-16-001R0 - Deferral of Canyon Risk Mitigation Planning Package																0				0
BCR-041-16-001R0 - Incorporate PBS RL-041 Capital Asset Project FY 2016 Performance Measures																0				0
BCR-041-16-002R0 - Deferral of PBS RL-041 Unfunded Work Scope																(4,933)	1,024	3,909		0
BCRA-012-16-001R0 - PBS RL-012 T Plant HPIC Updates - October 2015																0				0
BCR-PRC-16-002R0 - Incorporate RL-012 CAP 15-D-401 Sludge Retrieval Project Baseline																12,342	14,348	(5,373)		21,317
BCR-PRC-16-003R0 - Incorporate FY2016 Performance Measures																0	0			0
BCR-PRC-16-004R0 - Address Bags of Suspect Plutonium Nitrate																1,251	394			1,645
BCR-PRC-16-005R0 - Reinstate Canyon Facility Risk Mitigation																2,000				2,000
BCR-PRC-16-006R0 - Documentation to Support Canyon Stabilization and Risk Mitigation																1,988				1,988
BCR-PRC-16-007R0 - Increase Frequency of PMs																1,705				1,705
BCR-PRC-16-008R0 - Reinstate Certify Large-Small Repack Container CH TRUM from CLIN7																0	6,510	7,307		13,817
BCR-PRC-16-009R0 - Outer Area Waste Site Remediation																0	2,500			2,500
BCR-PRC-16-010R0 - Undistributed Budget Adjustments October 2015																0	0		(7,272)	(7,272)
BCR-PRC-16-012R0 - Revisions to Undistributed Budget for Contract Modification 445																0	0		(23,655)	(23,655)
BCR-PRC-16-013R0 - Revisions to PBS RL-012 Undistributed Budget Associated with Contract Modification 445																0	0		(19,369)	(19,369)
c. PM BASELINE (END OF PERIOD)			4,285,858		31,405		39,685	34,637	41,859	34,350	44,868	34,827	3,391,477	391,653	471,323	442,311	414,581	365,850	7,879	5,485,073
7. MANAGEMENT RESERVE																				
8. TOTAL																				
																5,545,404				

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

CLASSIFICATION (When Filled In)															
CONTRACT PERFORMANCE REPORT FORMAT 4 - STAFFING											FORM APPROVED OMB No. 0704-0188				
1. CONTRACTOR			2. CONTRACT				3. PROGRAM			4. REPORT PERIOD					
1. CONTRACTOR			2. CONTRACT				3. PROGRAM			4. REPORT PERIOD					
a. NAME			a. NAME				a. NAME			a. FROM (YYYYMMDD)					
CH2M HILL Plateau Remediation Company			Plateau Remediation Contract				Plateau Remediation Contract			2015 / 10 / 01					
b. LOCATION (Address and ZIP Code)			b. NUMBER				b. PHASE			b. TO (YYYYMMDD)					
Richland, WA			RL14788							2015 / 10 / 25					
			c. TYPE		d. SHARE RATIO		c. EVMS ACCEPTANCE								
			CPAF				YES 2009 / 09 / 18								
5. PERFORMANCE DATA															
Organizational Breakdown Structure (OBS) (1)	ACTUAL CURRENT PERIOD (2)	ACTUAL END OF CURRENT PERIOD (Cumulative) (3)	FORECAST (Non-Cumulative)									AT COMPLETION (15)			
			SIX MONTH FORECAST BY MONTH (Enter names of months)										REMAIN FY2016 (10)	FY2017 (11)	FY2018 (12)
			+1 NOV 2015 (4)	+2 DEC 2015 (5)	+3 JAN 2016 (6)	+4 FEB 2016 (7)	+5 MAR 2016 (8)	+6 APR 2016 (9)							
300 - Office of the President	6	504	5	5	5	5	5	5	5	21	63	63	683		
303 - Internal Audit	4	367	5	5	5	5	5	5	5	20	60	60	537		
304 - General Counsel	3	348	5	5	5	5	5	5	5	23	60	60	519		
31 - Communications	9	824	8	8	8	8	8	8	8	34	108	108	1,124		
32 - Safety Health Security & Quality	52	5,931	58	58	59	59	59	59	59	235	774	775	8,068		
34 - Env Program & Strategic Plng	47	3,876	43	44	45	44	43	45	45	169	605	600	5,511		
35 - Business Services	58	6,316	61	61	62	61	62	62	62	248	759	761	8,452		
36 - Prime Contract & Proj Integr	50	3,713	61	61	61	61	61	61	61	243	652	643	5,618		
38 - Project Technical Services	28	4,876	33	33	33	33	33	33	33	132	433	427	6,068		
3B - PFP Closure Project	344	41,570	409	397	395	334	299	307	307	895	575	0	45,180		
3C - W&FMP	312	42,010	343	346	302	292	284	294	294	1,148	3,204	3,403	51,627		
3D - Soil & Groundwater Remediation	298	29,375	285	269	271	261	267	281	281	1,054	3,621	4,114	39,799		
3G - KBO&PR Project	304	39,924	320	324	344	368	393	374	374	1,261	3,700	3,621	50,630		
Grand Totals	1,514	179,632	1,637	1,618	1,595	1,537	1,527	1,540	1,540	5,483	14,613	14,634	223,817		

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) 2015/10/01		
b. LOCATION (Address and ZIP Code) Richland, WA 99354		b. NUMBER DE-AC06-08RL14788		b. PHASE Base		b. TO (YYYY/MM/DD) 2015/10/25			
		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:	31,405	31,883	29,516	477	1.5%	2,367	7.4%	1.02	1.08
Cumulative:	4,285,858	4,253,329	4,131,984	(32,529)	-0.8%	121,345	2.9%	0.99	1.03
	BAC	EAC	VAC in \$	VAC in %	TCPI				
At Complete:	5,485,073	5,286,643	198,430	3.6%	1.07				
Explanation of Variance/Description of Problem:									
Current Period Schedule Variance: The current month favorable schedule variance is within reporting thresholds.									
Current Period Cost Variance: The current month favorable cost variance is primarily due to RL-0012 accruing for claims for the Annex Facility Construction pending final negotiations and closeout with the Contractor coupled with essential personnel transferred from 100K Operations in the month for high priority tasks.									
Cumulative Schedule Variance: The variance is within reporting thresholds.									
Cumulative Cost Variance: The variance is within reporting thresholds.									
Impact:									
Current Period Schedule: No significant impact overall.									
Current Period Cost: No significant impact overall, as the lifecycle EAC already reflects these changes.									
Cumulative Schedule: N/A									
Cumulative Cost: N/A									
Corrective Action:									
Current Period Schedule: Within threshold, no Corrective Action necessary.									
Current Period Cost: EAC has been adjusted accordingly.									
Cumulative Schedule: N/A									
Cumulative Cost: N/A									
Monthly Summary (to include technical causes of VARs, Impacts, and Corrective Action(s):									
CHPRC continues to track completion of contract scope within budget and is currently projecting a Variance at Completion of \$198.4 million with \$60.3 million of Management Reserve for a total positive variance of \$258.7 million. For October, the project was 1.5 percent ahead of schedule and 7.4 percent under planned cost. No other specific Corrective Actions are planned at this time. There were two significant BCRs in the period, which impacted the PMB, BCR-PRC-16-002R0 - <i>Incorporate RL-0012 CAP 15-D-401 Sludge Retrieval Project Baseline</i> , and BCR-PRC-16-008R0 - <i>Reinstate Certify Large-Small Repack Container CH TRUM from CLIN7</i> . Additionally, revisions were made to Undistributed Budget (UB) that were associated with the Contract Modification 445 (details of changes listed below).									
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 +\$198.4 million, +3.6% and is within reporting thresholds.									
Format 1 and 3 Contract Data:					Contract Price Adjustments				
CPs - In Process									
					Total Authorized Unpriced Work		\$17,216		
Approved Adjustments to Contract Price (not reflected in B.4-1 Table)									
					Total Negotiated Cost Changes		-		
					Grand Total Adjustments		\$17,216		

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

Use of Management Reserve (MR), Fee Activity and Undistributed Budget (UB):

MR Utilization

BCR Number	Title	Fiscal Year	MR
BCR-PRC-16-002	<i>Incorporate RL-0012 CAP 15-D-401 Sludge Retrieval Project Baseline</i>	2015 - 2018	\$-21,317K
BCR-PRC-16-013R0	<i>Revisions to PBS RL-0012 Undistributed Budget Associated with Contract Modification 445</i>	2015 - 2018	\$19,369K

Overall, there was a decrease of \$1,947K to Management Reserve during October.

Fee Activity

BCR Number	Title	Fiscal Year	Fee
NA	NA	2014 - 2018	NA

Overall, there was no change to Fee during October.

UB Activity

BCR Number	Title	Fiscal Year	UB
BCR-PRC-16-010R0	<i>Undistributed Budget Adjustments October 2015</i>	2015 - 2018	\$-7,272K
BCR-PRC-16-012R0	<i>Revisions to Undistributed Budget for Contract Modification 445</i>	2015 - 2018	\$-23,655K
BCR-PRC-16-013R0	<i>Revisions to PBS RL-0012 Undistributed Budget Associated with Contract Modification 445</i>	2015 - 2018	\$-19,369K

The Undistributed Budget decreased by \$50,296K for an overall increase to the Performance Measurement Baseline of \$988K.

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: 11/12/2015	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

October 2015
CHPRC-2015-10, 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 (draft)

Objective #	Objective	Target	Due Date	Status
16-EMS-ADMIN-OB1-T1	Reduce energy intensity.	Increase facility occupancy rates to greater than 82 percent by compressing occupancy and vacating underutilized facilities. Vacated/unoccupied facilities declared unusable and designated inactive placed in Care Taker System.	9/30/16	0%
16-EMS-ADMIN-OB2-T1	Maximize the acquisition and use of environmentally preferable products in the conduct of operations.	Establish/utilize green catalogs to maximum extent for products beyond office supply purchases on the web site.	10/9/16*	0%
16-EMS-ADMIN-OB3-T1	Energy and natural resource conservation.	Establish electronic signature system for contracts using Adobe Acrobat.	9/30/16	10%
16-EMS-PTS-OB1-T1	Reduce the potential generation and release of toxic, hazardous, and non-regulated chemical materials to the environment, evaluate for compliance with universal waste and other recycling requirements, and identify opportunities for waste reduction.	Monitor and evaluate spill prevention program and existing techniques to reduce and/or eliminate spills to the environment by surveillances, on-going training.	9/30/16	10%
16-EMS-PTS-OB2-T1	Increase chemical management oversight of subcontractors and PTS operations.	Increase chemical management oversight of subcontracts, evaluate chemical procurement methods, identify expired chemicals, track, and properly dispose of expired chemicals. Perform quarterly assessment on chemical inventory locations.	9/30/16	4%

*This O&T cannot be closed out completely until after FY2016 ends. Progress will be at least 60 percent by July 31, 2016.

TARGET ZERO PERFORMANCE

	Current Month	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	0	N/A
Total Recordable Injuries	0	1	N/A
First Aid Cases	0	8	<ul style="list-style-type: none"> There were no new events for the month of October
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 reported injuries during the month of October.
 - Occupational Safety and Industrial Hygiene (OS&IH) accomplishments:
 - Continued support of site-wide standards committees and site-wide steering committees. One site-wide program, DOE-0346, *Hanford Site Fall Protection Program*, is pending implementation of Revision 1A. DOE-0360. Two other site-wide committees (DOE-0344, *Hanford Site Excavation, Trenching and Shoring Procedure*; and DOE-0352, *Hanford Site Respiratory Protection Program*); are going through the revision process at this time.
 - Continued implementation of the Chronic Beryllium Disease Prevention Program (CBDPP) Revision 2A. Beryllium assessments have been completed on 975 CHPRC facilities. Beryllium characterizations have been completed on 643 CHPRC facilities.
 - Revisions to CBDPP Revision 3 has been completed and the document has been routed for signature.
 - Continued to provide support to PFP for respiratory protection issues and the issue regarding the alternate harness for the PremAire Breathing System. A request for variance has been drafted for submittal to RL following the 10 CFR 851 variance process for using a harness that was not NIOSH tested with the original Mine Safety Appliances (MSA) breathing system.
 - Continued to work with Sample Management in resolving issues with the handling and shipping of IH samples.
 - Continued support for the efforts to establish the respiratory protection electronic tracking system at KBO&PR.
 - Continued support to W&FMP and KBO&PR for Oversight of Confined Space work activities.
 - Provided additional confined space training/briefings for KBO&PR, and provided support to all projects to approve additional competent/qualified persons for DOE-0360 Revision 1, *Confined Space*.
 - Provided support to PFP, W&FMP, and KBO&PRS for asbestos characterization activities.
 - Provided support to PFP for beryllium characterization activities.

- Provided support to Project Technical Services (PTS) for the development of an approved fall protection work permit for in-basin work.
- Provided support to the PFP Cause Evaluation for the identified emerging trend of injuries and radiological issues.
- o Radiological Control accomplishments:
 - Working corrective actions to support CHPRC RMA management improvement plan submitted to RL.
 - Supported 10 CFR 835 Subpart G, *Posting and Labeling* triennial assessment activities.
 - Continued implementation of Survey Simple following completion of conversion to web-based application.
 - Approved four Administrative Control Limit extensions for PFP personnel.
 - Supported RCCC Transition planning.
 - Supported PFP in implementing H3D gamma imaging instrumentation.
 - Participated in ECRTS demonstration and review of radiological engineering controls at MASF.
- o Nuclear Safety accomplishments:
 - Annual update of FFTF-36419, *Documented Safety Analysis for the Fast Flux Test Facility*, was implemented.
 - Annual update of CP-14641, *Documented Safety Analysis for the 224-T Facility*, was implemented.
 - Safety Basis documents and letters transmitted to RL include:
 - Letter, CHPRC-1502368.1, dated October 16, 2015, *Transmittal of the 2014 Annual Update to HNF-SD-WM-SAR-062, 105-KW Basin Final Safety Analysis Report, Revision 22; HNF-SD-SNF-TSR-001, 105-KW Basin Technical Safety Requirements, Revision 18; and the Unreviewed Safety Question Evaluation Summary.*
 - Letter, CHPRC-1504411.1, dated October 19, 2015, *The Preliminary Documented Safety Analysis for the Sludge Treatment Project Engineered Container Retrieval and Transfer System Revision 2 and the Sludge Treatment Project Safety Design Strategy Revision 7 for RL Approval.*
 - Letter, CHPRC-1503229.1, dated October 26, 2015, *Transmittal of the 2015 Update to the Waste Encapsulation and Storage Facility Documented Safety Analysis, HNF-8758, Revision 11, The Waste Encapsulation and Storage Facility Technical Safety Requirements, HNF-8759, Revision.*
 - Letter, CHPRC-1502417.1, dated October 28, 2015, *Transmittal of the WESF Stabilization and Ventilation Project Safety Design Strategy, CHPRC-02212, Revision 1, to RL for Review and Approval.*
 - Letters received from RL include:
 - Letter, 15-NSD-0071_RL, dated October 8, 2015, *Transmittal of the 2014-2015 Annual Unreviewed Safety Question (USQ) Summary for CH2M HILL Plateau Remediation Company (CHPRC) Transportation Safety.*
 - Letter, 15-NSD-0060_RL, dated October 21, 2015, *Transmittal of the 2015 Annual Update to CP-14977, Revision 8, Plutonium Uranium Extraction (PUREX) Facility Documented Safety Analysis (DSA) and the Unreviewed Safety Question Determination Summary.*
 - Transportation Safety
 - RL Approval of CE-SPA-PFP-2015-001, Revision 0, *PFP Debris for Long Term Storage*
 - RL Approval of CE-SPA-PFP-2012-001, Revision 1, *PFP Debris*
 - RL Approval of CE-SPA-PFP-2011-010, Revision 3, *Multiple Glovebox Assemblies*

- RL Approval of CHPRC-02635, *External Securement Plan for 6x4x4 Containers on an Open Deck Transporter*
- RL Approval of CHPRC-02227, *External Securement Plan for 4x4x4 Containers on an Open Deck Transporter*
- o Contractor Assurance Regulatory Reporting (CARR) accomplishments:
 - 185 Condition Reports (CRs) were screened:
 - One Significant issue identified.
 - One Adverse issue identified.
 - 93 Track until Fixed (TUF) issues identified.
 - 21 Trend Only (TO) items identified.
 - 68 Opportunity for Improvement (OFI) items identified.
 - One Screen Out.
 - 111 CRs administratively closed.
 - 189 CR actions administratively closed.
 - Provided lead cause evaluator support to PFP in response to occurrence report EM-RL—CPRC-PFP-2015-0011, *Management Concern Related to Unfavorable Trend in Radiological Contamination Control*.
 - Coordinated recurring monthly DNFSB, STP and PFP status conference calls.
 - Coordinated a conference call with PFP related to PFP waste activities and WIPP acceptance criteria, to be conducted in November 2015.
 - Provided full-time support to PFP in Issues management, including cause evaluation and Occurrence Reporting.
 - One External Lessons Learned was published in OPEXShare: 2015-RL-HNF-0020, *Detaching Lead Shielding Results in Injury*
- o Performance Oversight, Assessment, and Quality Assurance accomplishments:
 - Completed the “Doing Work Safely” - presentations provided to over 1390 personnel for a 93 percent completion rate.
 - Completed Integrated Evaluation Plan (IEP) FY2016 Annual Assessment Scheduling. FY2016 IEP received approval from the ESRB.
 - Lead the Fall Energy Contractor Group (EFCOG) ISMS/QA working meeting for ISMS, Work Control, ORPS, Contractor Assurance, Safety Culture, Human Performance Improvement, and Quality Assurance.
 - Commenced Analysis of the FY2015 Safety Culture Survey data results.
 - Finalized the FY2015 Performance Objectives, Measures, and Commitments and presented to RL.
 - Completed in-field activities and issued final report for 10 CFR 835 Subpart G, Posting and Labeling.
 - Supported the Plutonium Finishing Plant Documented Safety Analysis Revision 12 Implementation Verification Review.
 - Completed SHS&Q-2015-SURV-15095 for the review of the contractually required evaluation activities and the IEP for FY2016. Two CRs initiated.
 - Completed the Management Assessment Plan (MAP) for SHS&Q-2016-MA-16476, *CHPRC FY2016 ISMS Effectiveness Declaration*.
 - Continued support of K-Basin Engineering in the development of a technical basis for what action should be taken with historical Cold Vacuum Drying Facility data files.
 - Supported CHPRC Central Engineering and the Hanford Welding committee in the determination proper bounds for Non-Code/Incidental welding.

- Assisted Canister Storage Building (CSB) Engineering in commercial grade dedication of the Multi Canister Overpack (MCO) port seals. Facilitated the use of the MSA QM4 Bruker Positive Material Identification (PMI) unit to verify the material make-up of the seals.
- Continued support to the RCCC Transition team in the development of a compliance matrix comparing both the CHPRC and WCH QA programs.
- Continued support to Chief Information Officers (CIO) Office & Lockheed Martin Service, Inc. (LMSI) in the review and determination of records as being Office of Civilian Radioactive Waste Management (OCRWM).
- o Fire Protection accomplishments:
 - Fire Protection provided the presentation for the October PZAC with a focus on the Great Chicago Fire and The Great Peshtigo Fire. The theme was based on Fire Prevention Week and included a segment on Fire Fighter Safety at traffic accidents by the Hanford Fire Department.
 - Interviews for Fire Protection Engineer (FPE) positions were completed in October, offers were made and four personnel have accepted positions.
 - Four Fire Protection Engineers completed the Deputy Fire Marshall (DFM) process, CHPRC currently has six DFMs.
 - During the month of October the Hanford Fire Marshall's Office issued 35 Fire Permits, of those permits 15 were issued by CHPRC DFMs.
 - Central FPE support for PFP work packages was provided through October and has concluded given the significant drop in outstanding work packages.
 - Annex related fire protection issues are continuing to be worked. Documentation requirements for plan reviews are nearly all resolved.
 - Fire Protection related Inspection, Testing and Maintenance (IT&M) issues still exist and are being pursued to ensure compliance with contractual requirements.
 - Procedure updates are still in progress to improve the overall program.
 - TSR Surveillances:
 - 2T-15-05221/S, T Plant 3MO COMBUSTIBLE Surveillance – TSR - issues corrected as found
 - 2T-15-05210/P, T Plant Ignitable/Reactive Waste Inspection – 4 areas need NO Smoking signs posted
 - Fifteen Facility Fire Protection Assessments were completed in October.
 - Scheduling for Central Plateau Surveillance and Maintenance (CPS&M) facilities is in progress and walk downs are occurring in PUREX and REDOX facilities.
 - Fire Hazard Analyses (FHA):
 - The PFP FHA Revision 5 is on hold. Revision 4 is being implemented.
 - The T Plant FHA will be going out for internal review.
- 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:** Continued implementation of Revision 2A across CHPRC. Comment resolution is complete for Revision 3 and is being routed for signature.
 - o **Action:** Beryllium (Be) facility assessments and characterization continues as scheduled. Beryllium facility assessments have been completed on 975 CHPRC facilities.

- o **Issue:** Accident & Injury Reduction.
- o **Status:** Continue investigating recordable, DART, and first aid injuries to determine cause, prevention, reduction, to prevent recurrence.
- o **Action:** Continued to interface with project personnel, supporting Employee Zero Accident Council (EZAC) and project safety meetings for continued focus on injury prevention. Recordable injury trend across the PRC has improved, but continued focus is necessary. Projects have identified and are implementing additional actions which are resulting in reducing injuries and first aids.
- 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 issues; radiological & safety trends, outside limited area implementation, and DSA Revision 13 development and J plan waste issues.
- o **Issue:** Fire Protection program weaknesses.
- o **Status:** Program weaknesses are being identified and Corrective Actions are underway to improve program. Additional personnel resources have been hired to support projects.
- o **Action:** Working with MSA to work off CHPRC back log items on the MSA IT&M log. Working with CHPRC projects to schedule and perform back log of facility fire protection assessments.

Environmental Program and Strategic Planning (EP&SP)

Environmental Protection

- **Compliance Status**
 - o CHPRC transmitted to RL the notice of construction application (NOCA) for ventilation upgrades at WESF on September 29. RL transmitted the document to WDOH on October 26.
 - o In response to Ecology comments, a revised WESF closure plan was submitted to Ecology on October 15. Approval of this plan, or an Ecology temporary authorization based on this plan, is necessary to allow grouting of the WESF cells to proceed in 2016.
 - o CHPRC assisted RL in preparing a rebuttal statement on two letters from EPA limiting acceptance of CERCLA waste at the CWC and LLBG. These were based on earlier EPA inspection concerns. CHPRC supported RL in a teleconference held with EPA and Ecology on this matter on October 8, and in a discussion with the Hanford Senior Executive Committee on October 29. EPA issued a letter on October 26 extending the decision timeframe in one of the two letters.
 - o RL received letters (in May and September) from WDOH and Ecology notifying it of four High Priority Violations (HPVs) related to the PUREX radioactive air emissions unit (two HPVs), B Plant and Canister Storage Building. Information provided to WDOH and Ecology senior management appears to be leading to at least two of these HPVs being withdrawn (those pertaining to lack of continuous air monitors). Corrective actions for the other two have been formulated and shared with the agencies.
 - o Following Ecology approval of the RCRA temporary authorization and RL approval of the CERCLA Time Critical Removal Action Memorandum for closure waste disposal into ERDF, 207 A retention basin closure activities began on September 28. All physical work activities were completed in October. Confirmation sampling will be conducted in November.
- **Environmental Management System**
 - o Completed development of FY2016 EMS Targets and Objectives.

Environmental Compliance & Quality Assurance (ECQA)

• Assessment Program

- o An assessment of Cultural & Ecological Resources reviews was completed on October 13, 2015. Results of this assessment identified one finding and two opportunities for improvement. The finding focused on misuse of the Activity Screening form.
- o ECQA completed a site wide walk-down of Lay-down Yards belonging to CHPRC. The assessment focused on determining if any regulatory compliance issues existed and on the EMS criteria for Housekeeping. No major issues were identified from a compliance standpoint, however, an issue was identified regarding a true “owner” for the lay-down yards program/process at the senior management level.
- o Training & Qualification requirements for EP&SP environmental staff (ECO, ECQA, and SME) were evaluated. One finding was identified regarding one person with incomplete training.

Business Services

• Acquisition Planning:

- o Developed an acquisition strategy to support the S&GRP’s efforts to more easily segregate costs using the Asset Suite System. Currently costs are segregated on an invoice-by-invoice basis. Asset Suite will now be used to issue separate releases for distinct work-scopes.
- o Developed an acquisition strategy for the STP to provide electrician services at the MASF facility. This fixed price construction work will serve to connect the new instrument and control systems at MASF starting in December 2015.
- o Received Legal approval to use security software that would permit the use of electronic signatures on pdf formatted documents. Information Technology (IT) is in the process of revising its procedures to permit electronic signatures with software products. This is part of the FY2016 initiative to reduce the amount of hard-copy documents and limit the use of paper and printer toner to conduct day-to-day business.
- o Developed a Statement of Work for compressor trouble-shooting at the Canister Storage Building. This work was typically performed on a time and material basis. The new work will be performed on a fixed price basis.
- o Completed strategic sourcing savings evaluation for 3 procurement actions that resulted in the establishment of \$80,182.68 in calculated savings that would have otherwise gone unclaimed.
- o Defined a process to capture strategic sourcing savings from General Service Administration (GSA) purchases using the CHPRC purchasing card.
- o Completed deep-dive reviews and presentations for the WCH transition activities.
- o Completed the review and approval of the acquisition plan for T-Plant construction modifications. Reviewed the draft Request for Proposal and made enhancements to the documents based on lesson learned from the responses received on In-Basin Construction work.

• Facilities & Property Management (F&PM):

- o Continued the 2015 CHPRC property inventory with the CHPRC property representatives. F&PM had completed locating 93 percent of 3,407 items through October 2015.
- o FY2015 KPMG property audit results were forwarded from RL. 6 findings and 5 observations were noted. Currently awaiting formal direction from RL.
- o Worked with PTS to execute the roof replacement for MO743, a landlord facility. Roof replacement project nearing completion the week of October 26, 2015.
- o Continued with the re-aligning of asset responsibilities and assignments as a result of the split in the DWF&RS organization to KBO&PR and W&FMP. Re-alignment of assets and assignments complete for DWF&RS. 90 percent complete for separation of S&M to KBO&PR. New org codes established for personnel and assignments.
- o Completed and submitted Work Site Assessment BS-2015-WSA-14685, to assess process CHPRC F&PM uses to ready a facility and formally transfer to D&D process.

- o Completed Statements of Work for both Job Control System (JCS) modifications for Facility Information Management System (FIMS) reporting and the rework of the potable waterline crossings in the 200 Area unsecured core.
- **Finance:**
 - o Continued to support KPMG requests for data related to the ongoing FY2012-FY2013 incurred cost audits.
 - o Supported KPMG Accounting System Review.
 - o Supported CohnReznick request for information for CAS Compliance Disclosure Statement Audit.
 - o October month end completed with no suspensions.
 - o Supported Internal Audit in completion of CHPRC Intercompany Work Exchange Agreement (ICWEA) process, with no findings observed.
- **Human Resources:**
 - o Completed Current Year (CY) 2015 Salary Planning Process for exempt and salaried nonexempt employees. Increases for impacted employees were effective on October 12, 2015, and were reflected in employee paychecks on Friday, October 30, 2015.
 - o Provided RL with the required deliverable to request our proposed CY2016 Salary Planning Budget.
 - o Several Human Resources (HR) staff and senior management attended the “Building Bridges and Breaking Down Barriers” event sponsored by ACCESS Tri-Cities. This event focused on employing persons with disabilities or different abilities.
 - o After CHPRC representatives attended the Engineering and Technical Career Fair at Oklahoma State University to recruit FPE students, three FPE students were scheduled for on-site interviews on October 8, 2015, and have since been offered and accepted positions with CHPRC. They will be starting work following their December 2015 graduation. Resumes of interested engineering students of all backgrounds (Mechanical, Civil, Electrical, Chemical, Biology, Fire Protection, Safety, etc.) were also received and are being reviewed for upcoming summer internship opportunities.
 - o The Career Ascent program launched the first of four workshops focusing on the development of the next generation of successors for Hanford leadership.
 - o Crucial Conversations two-day class was conducted for an initial class of 12 at the HAMMER training facility. Feedback from participants was positive and additional classes are being planned to accommodate interest expressed by our vice presidents.
 - o In accordance with completing the requirements for the Affordable Care Act (ACA) CH2M has outsourced the process to a third party company named Health E (fx). CHPRC HR has partnered with MSA and LMSI to provide data for ACA to Health E (fx) in several interface files for employee, benefits and payroll information for CHPRC active and former employees.
- **Labor Relations:**
 - o Union Negotiations: HAMTC members ratified the CBA with a yes vote on October 22, 2015. CHPRC & HAMTC signed the new CBA language on October 26, 2015, which incorporates the agreement reached by the parties for wages (2016 – 2018) and medical benefits (2017-2019), as well as extends the existing CBA to November 11, 2019.
 - o CHPRC reached settlement agreement on two grievances (PRC-014-127 and 140) which will cancel the upcoming arbitration on this subject.
 - o CHPRC is scheduled for arbitration on PRC-014-076 in regards to shift differential pay on November 18, 2015.
- **Procurement:**
 - o Awarded/amended 113 contracts with a total value of \$10.5 million. Additionally, awarded 104 new material purchase orders valued at \$1.2 million to support ongoing project objectives.

- o At the end of the first 85 months of the PRC, procurement volume has been significant; \$2.28 billion in contract activity has been recorded with approximately 52.08 percent, or \$1.19 billion, in awards to small businesses. This includes 7,031 contract releases, 19,688 Purchase Orders, and 233,819 P-Card transactions.
- o Contract 36538-86 was awarded to Watts Construction on October 29, 2015, for the construction of well pads and roads FY2015 Campaigns (Task 2). This contract release is a firm fixed price type contract in the amount of \$84,500.
- o Contract 53921-5 for T-Plant Storage Equipment Fabrication was awarded based on competition to Columbia Energy & Environmental Services on October 8, 2015, in the amount of \$381,291.86.
- o Contract 53921, Release 5 was awarded to Columbia Energy & Environmental Services, Inc. on October 8, 2015. This contract is a firm fixed price contract for T-Plant Storage Equipment Fabrication. The award value of this contract is \$381,291.86.
- o Contract 58007 was awarded to Pro-Cut Concrete Cutting, Inc. on October 6, 2015. This contract is a time and materials contract for Area Preparation for Demolition Removal of Wall Sections at PFP. The award value of this contract is \$125,000.

Prime Contract and Project Integration (PC&PI)

- **Contract Compliance and Change Management (CC&CM):**
 - o In October, CC&CM received and processed eight contract modifications (numbers 436, and 446-452) from RL.
 - o The Correspondence Review Team received and determined the distribution for 81 incoming letters/documents. The Prime Contract Compliance Manager reviewed 34 outgoing correspondence packages.
 - o Submitted the PM-00-1 FY2015 Critical Self-Assessment to RL.
 - o Submitted the following FY2015 Performance Measure Completion Packages:
 - PM-12-6 Sludge Treatment Project Annex Construction.
 - PM-12-01, Procurement of First Sludge Transport and Storage Container (STSC).
 - PM-12-02, Engineered Container Retrieval and Transfer Systems (ECRTS) Buy-Back Procurement Set 1.
 - PM-12-03, ECRTS Buy-Back Procurement Set 2.
 - PM-12-04, ECRTS Buy-Back Procurement Set 3.
 - PM-13-01, Solid and Liquid Waste Treatment and Disposal.
 - o Transmitted CHPRC Letter CHPRC-1504662 Proposal for Removal of CLIN 7 from the PRC.
 - o Submitted one Notice of Potential Impacts to the PFP Closure Project due to chemical reaction in canyon letter CHPRC-1504824.
- **Continued RCCC Transition Planning:**
 - o Completed annotated outline of draft CHPRC RCCC Transition Plan and shared with RL
 - o Prepared Change Order (CO) 289 detailed cost estimate, held internal senior management reviews, and submitted Change Proposal for CO 289 for RCCC Transition Planning to RL on October 22, 2015. Briefed estimate to RL Transition Manager and to RL-41 Project Controls Officer and Estimator.
 - o Held deep dive reviews of Labor Relations, Site Stabilization Agreement, Procurement, Finance, Property Management, HR, Communications, SHS&Q, Emergency Preparedness, Environmental, Interface Management, Prime Contracts, Earned Value Management Systems (EVMS), Risk Management, Information Resource Management and Information Technology. A follow-up review was held with Radiological Protection and Safety. Briefed the Executive Advisory team on proposed acceleration of Transition Plan delivery to the end of the calendar year.

- o Held follow-up WCH/CHPRC Senior Management Transition meeting to discuss transition status and approach.
- o Set up Hanford Local Area Network (HLAN) computers in the WCH turnaround office. WCH set up computers with access to BHI Local Area Network (BLAN) to provide direct access to information.
- o Updated charging strategy to align with the CO 289 Change Proposal and updated Work Charge Authorization was issued with charging guidance.
- o Drafted Extent of Condition checklists for 324 Facility. Obtained WCH agreement on dates for walk-downs.

Change Proposal (CP) /REA Summary

CPs submitted on or ahead of due date	CPs submitted after the due date	REAs submitted	Supplemental Information submitted/ Tina Sweep	CPs Definitized on or ahead of 180-day metric	CPs Definitized after 180-day metric	Other Proposals/ REAs Definitized
4	0	0	5	3	0	0

- o Estimating & Program Support (ESS) provided the following support to Projects and Programs.
- o PFP:
 - Submitted CO 297, 242-Z/236-Z Slab Removal Documentation, on October 29, 2015.
- o KBO&PR:
 - Submitted CO 289, Initiation of Transition Planning for the RCCC Work Scope, on October 22, 2015.
 - Completed revisions to the STP Capital Asset estimate in response to the CHPRC Project Review and EM-53 Review comments, on October 27, 2015. Initiated estimating development for the T-Plant activities that are associated with sludge transfer and storage portion of the project.
- o W&FMP:
 - Supported definitization of two change proposals on the dates indicated:
 - CO 271, Tri Party Administrative Record Upgrade, on October 30, 2015.
 - CO 275, Enhanced RCRA Compliance – Additional Records Support, on October 28, 2015. The CO was included in Modification 445 and not separately negotiated.
 - Submitted supplemental information for CO 269, WESF K3 Ventilation and Stabilization Project Implementation, on October 2, 2015. The supplemental information included a revision to the proposal, incorporating the value of an awarded subcontract and inclusion of FY2016 forward pricing rates.
 - Conducted a Truth in Negotiation Act (TINA) review for CO 269, WESF K3 Ventilation and Stabilization Project Implementation, on October 27, 2015. Results will be incorporated into a revision 3 of the proposal that will be submitted in November 2015.
- o S&GRP:
 - Supported definitization of CO 272, Build and Implement Portable Remediation Treatment, on October 30, 2015.
 - Submitted supplemental information for CO 266, 200-BP-5 OU construction and Operations & Maintenance of Transfer Pipelines, on October 1, 2015. The information included a revision to the estimate for addition of chemical costs requirements during the operations and maintenance period of performance.
 - Submitted change proposals for the following COs on the dates indicated:
 - CO 294, 100-KR-4 RI FS Decisional Rewrite, on October 9, 2015.
 - CO 295, 200-IS-1 Geographic Interface Segmentation, on October 29, 2015.

- Conducted a TINA review for CO 291, 200-IS-1 Waste Information Data Systems Information, on October 27, 2015. CHPRC intends to submit a revision 1 of the proposal to incorporate the results of the review on December 7, 2015.
- o SHS&Q
 - Submitted supplemental information in response to several questions on the impact assessment provided to RL for changes to DOE-0336 Hanford Site Lockout/Tagout Procedure, Revision 2A, on October 19, 2015.
- o Estimating and Program Support conducted estimating/proposal training and system familiarization for Babcock Services, Inc., personnel who are performing work on development of the RCCC Transition Plan, throughout the month. Completed updates to the proposal final checklist and TINA review forms on October 27, 2015. The Sage Estimating Software Management Plan Revision 3 was approved on October 13, 2015. The revision is in support of the up-version of the Sage Estimating software that is in progress.
- **Earned Value Management System (EVMS) Compliance and Reporting:**
 - o The Variance Analysis Reporting System (VARS) Tool was successfully implemented with a larger small group of Control Account Managers (CAM) in October with for the Fiscal September data. The tool will allow CAMs to evaluate, track, identify corrective actions, and bring to closure all cost and schedule variances under their responsibility, via a web application. In December, for Fiscal November data, all CAMs will be implemented into the VARS tool.
 - o Continued efforts to increase EVMS awareness and effective variance analysis reporting by providing Variance Analysis and 3-day EVM Professional Workshop training classes to CHPRC Vice Presidents, Project Managers, CAMs, and Project Controls personnel.
 - o Earned Value Management Qualification Cards for the positions of CEO, COO, Vice President, Project Manager, Control Account Manager, and Project Control Director/Manager were completed and issued for use. These EVM Qualification Cards were the last training/certification documentation required to be completed to enable the full implementation of PRC-STD-TQ-52996, Earned Value Management Training Program Description.
 - o Progress continued to be made on EVM Assessment Corrective Actions. As of month end, 53 of 68 actions had been completed (78 percent complete).
 - o An independent review on the adequacy of September VARs in meeting RL and CHPRC requirements was completed by a Project Time & Cost Subject Matter Expert and his comments provided to the responsible CAMs and Project Control Directors/Managers. This effort was a part of the continuing corrective actions to address RL's Finding associated with deficient VARs and associate variance corrective actions as documented in the final report for DOE A-15-ESQ-PRC-001. CHPRC's actions in response to this finding are on schedule for completion in January.
 - o During October, EVMS C&R facilitated and supported the processing of 24 BCRs. This high volume of BCRs in a month, which is projected to continue for the foreseeable future, is driven by changes in RL priorities, COs including BCRs to incorporate scope associated with CO Not To Exceed amounts and CO definitization, implementation of two new PFP related and the STP capital asset projects, and CHPRC self-initiated BCRs related to initiatives to improve the quality of baseline planning and reporting.
 - o Representatives of PC&PI supported the DOE-HQ Office of Project Oversight and Management Assessment's request to provide CHPRC SMEs to participate a two week effort in Washington DC involving personnel from DOE, DOE subcontracted support staff, and other DOE Prime Contractors to perform a trial review of actual contractor data and documentation using the recently published DOE Earned Value Management Interpretative Handbook Lines of Inquiry and automated tests. Information gained at this trial will help CHPRC understand what

- modifications of its' EVMS may be required to insure it continues to comply with DOE expectations as defined by the DOE Earned Value Management Interpretative Handbook.
- o Continued to support RCCC Transition planning with emphases on RCCC EVMS data.
 - o Efforts are underway to create a compliance matrix to align with the recently developed EVMS Interpretation Handbook. Once completed, the Project Control System Description (PCSD) will be modified to align with the Handbook.
- **Information and Interface Management:**
 - **Interface Management**
 - o Interfaces (Technical, Administrative and Regulatory):
 - Continued discussions with WRPS regarding Vent & Balance annual forecasting and improving the communication process.
 - Administrative Interface Agreement (AIA) TOC-AIA-OHC-00037, Revision 1, *Inter-Contractor WTP Operational Readiness*, was completed and issued.
 - Attended the bimonthly Joint Contractor Space Utilization Committee (JCSUC) Meeting.
 - Completed and transmitted the Sample Archive renewal with ATL.
 - o Attended the monthly Integrated Biological Control (IBC) Working Group Meeting. Inter-Contractor Issue Resolution:
 - Attended weekly field interface and resource allocation meetings.
 - Participated in regular Interface Management leadership meetings with MSA and WRPS.
 - Continued working with Hanford Fire Department, CHPRC Projects (SWOC/PFP), and CHPRC Work Control to improve communications, and streamline planning/corrective maintenance items.
 - Continued facilitating discussions between WRPS and CHPRC regarding review of the WIDS work for others Scope of Work (SOW). Requirements matrix was completed and the SOW has been approved in Asset Suite.
 - Working with MSA to develop an AIA to ensure the Unreviewed Safety Question (USQ) process is completed for procedures and work/activities performed by MSA in CHPRC controlled nuclear facilities.
 - Facilitated discussions between MSA and CHPRC projects at 100K regarding maintenance on vehicle inverters for corrective action closure.
 - o Controlling and Service Agreements:
 - Continued efforts in supporting annual review of the J.3 Service Delivery Documents.
 - Continued working with Engineering Services personnel to develop or revise an interface document with MSA Electrical Utilities.
 - Published CHPRC-00236, Revision 3, AIA for Welding and Material Engineering Services and Welding Services CHPRC/MSA/WRPS.
 - Working with WRPS to revise TOC-AIA-PRC-0031, Operations Interface for Activities within or adjacent to Nuclear Facilities; adding additional roles and responsibilities and aligning with current Nuclear Safety processes.
 - o Internal Operations:
 - Continue to participate in planning for the RCCC Transition.
 - Participating in transition activities for 222S Laboratory (ATL to WAI transition). Drafted CHPRC MOA with WAI for laboratory services.
 - **Information Management:**
 - o Provided IT, event logistics, and facilitation support to EZAC, PZAC, Ascent Training, and various onsite and offsite meetings.
 - o Provided information clearance and release support for KBO&PR, S&GRP, W&FM, SHS&Q and PTS documents.

- o Supported numerous IT support requests for cellular phone issues/questions, meeting set-up, network connections, and printing.
- o Continued planning and communication for upcoming PFP records retrieval.
- o Processed 20,413 Electronic Records into the Integrated Document Management System (IDMS).
- **Performance Analysis and Risk Management Integration (PARMI):**
 - o PARMI staff facilitated an Internal Project Review Board (PRB) for the WESF Ventilation Stabilization Project (W-130). The PRB was performed October 12-22, 2015; a draft report was distributed for review on October 29, 2015. The final report is scheduled for publication in November 2015.
 - o Technical and Administrative support was provided to the STP in preparation for the External Independent Review (EIR) and Independent Cost Estimate (ICE). Both review teams are scheduled to arrive the week of November 16.
 - o In June, the Productivity Tracking Log (PTL) was rolled out and was available for data input by the Projects. The S&GRP organization was selected to be a Pilot Program for roll-out of the PTL. Two progress meetings were held in October, in addition to an overall status meeting with all Projects. Based on progress made, and the implementation of PTL use by all other Projects, the S&GRP Pilot was completed the end of October. Field Presentations and Training continued to be provided.
 - o PRC-MD-PM-53058, *CHPRC Productivity Processes*, comment resolution continued in October. The Management Directive (MD) has been entered into the PRC Procedure System (PPS) for review and approval. Publication is expected in November.
 - o The Monthly meeting between the Contractor Assurance and Regulatory Reporting, PARMI, and Projects was held in October. The purposes of the monthly meetings are to review productivity data, to determine if trends exist across the CHPRC, and to provide recommended actions related to Corrective Actions. “Dashboard Metrics” are being tracked on the “test” portion of the PTL web page; it is expected that the Metrics will be transitioned to the “live” portion of the PTL web page in November.
 - o Progress continues to be made towards completion of the Productivity Corrective Actions. Completed 18 of 24 actions (75 percent).
 - o PARMI Risk Management staff provided Risk Analysis for the STP Capital Asset Project, the WESF Stabilization and Ventilation Project, and numerous BCRs.
 - o Technical support was provided during a VE session to evaluate handling/storage options for the WESF Cesium and Strontium capsules.
 - o Risk Management, Requirements Management, and Business Process Evaluation support was provided to the RCCC Transition Team.

Project Technical Services

- **Engineering Services:**
 - o Commenced development of an Interface Control Document to define configuration control and interface between MSA electrical utilities and CHPRC facilities.
 - o Released new Redline Change Procedure for PFP.
 - o Partnered with Projects on Design Reviews:
 - Project Review Board for WESF K3N Ventilation.
 - STP scope of work for standby diesel generator.
 - WESF W-135 Requirements Documents for Capsule Extended Storage Project.
 - 202S REDOX Roof Recovery.
 - WESF Structural Evaluation of Hot Cells during grouting.
 - o Worked with MSA to qualify welders and procedures to repair/hardface PFP excavator shears.
 - o Provided authority having jurisdiction evaluation/acceptance of a non-nationally recognized testing laboratory (NRTL) ORTEC gamma spectrometer for use at PFP.

- o Completed Quarterly System Health Reports.
- **Procedures and Training:**
 - o Completed Do Work Safely Briefings.
 - o Completed initial class for Crucial Conversations (October 26-27, 2015).
 - o Continued RCCC Transition effort.
- **Operations Program:**
 - o Continuing EOC and Deep Dive preparations for RCCC Transition.
 - o Supported PFP with Conduct of Operations Matrix revision.
 - o Assisting PFP with Readiness Plan of Action demobilization, Activity Readiness Plan, and Startup Plan development.
 - o Assisting T Plant and K Basins with Level of Review Score Sheet for the upcoming sludge removal and storage activity readiness.
 - o PFP Emergency Planning Hazards Assessment update drafted and in final review for transmittal to RL.
 - o Developing PFP Readiness Assessment exercise scenario.
 - o Started a Gap analysis between CHPRC and Savannah River Remediation (SRS) Drill Program. Letters of intent based on DNFSB report and SRS Corrective Action Plan.
- **Project Delivery:**
 - o S&GRP
 - BP-5 Transfer Line YE 28 – Completed work on line 2.
 - WSCF 6267 Mods – Under slab utilities work performed. Main breaker change out completed. Installation of framing commenced.
 - Continued with the upgrades for the UP-1 offload station.
 - o KBO-PR Projects
 - Received REDOX 90 percent Design review for roof re-cover.
 - o W&FMP Projects
 - ERDF Transfer Line – Explanation of Significant Difference (ESD) signed by U.S. Environmental Protection Agency (EPA). Commenced subcontracting effort.
 - CWC/WRAP roof repairs, 11 of 11 roofs completed, contractor demobilized.
 - o Project Office
 - Continued with the pilot demonstration of the HLAN remote system.
- **KW Annex Construction**
 - o Continued Construction Acceptance Testing.
 - o Continued Annex equipment startup.
 - o Completed contractor cleanup of lay down yard.
- **In Basin (Re-Lidding)**
 - o Completed MASF mock-up training.
 - o Initiated Enhanced Work Plan for other work package development.
 - o Conducted Hazard Review Board.
 - o Conducted walk downs at facility for mobilization.
- **T Plant Modification Construction**
 - o Evaluating the technical proposals received from bidders on October 27, 2015. Contract award targeted for mid-November.
 - o Continued procurement activities for buyer-furnished equipment construction material (i.e., IP2 containers/lift bags/HEPA vacuums).
 - o OS&IH Contractor Oversight Plan and Onsite Work Risk Assessment are drafted and in the signature cycle. Targeting completion by November 11, 2015. Craft training matrix has been developed. Coordination is underway with the Training organization to create a T Plant Construction area in Hanford Site Workers Eligibility Tool

(HSWET) for verifying and tracking training qualifications of subcontractor and direct employees associated with the T Plant Modifications work scope.

Communications

- o Communications coordinated multiple tours of CHPRC projects at the Hanford Site during the month of October. Visitors toured CHPRC projects and facilities such as the Central Waste Complex, the Maintenance and Storage Facility, the Plutonium Finishing Plant and the 100K Area. Visitors included:
 - Hanford Advisory Board River and Plateau Committee.
 - Bruce Hamilton, Defense Nuclear Facilities Safety Board member.
 - Ed Kowalski, EPA Region 10 Director of the Office of Compliance and Enforcement.
- o Communications worked with the media to develop news articles that ran in the Tri-City Herald. These articles covered the recognition CHPRC received for being awarded the Voluntary Protection Program’s Star of Excellence Award as well as the collective bargaining agreement that was approved by the Hanford Atomic Metal Trades Council.
- o Communications worked with RL and the regulatory agencies to support the public involvement process for the ERDF Record of Decision amendment, which is seeking a waiver that will allow treatment of hazardous debris within the ERDF landfill, and the Tri-Party Agreement milestone series, which includes M-015, M-016, M-037 and M-085, which will affect the schedule for cleanup on Hanford’s Central Plateau.

PROJECT BASELINE PERFORMANCE

Current Month

(\$M)

WBS 000 Project Services and Support	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)
Office of the President	0.1	0.1	0.1	0.0	0.0%	(0.0)	-15.2%
Internal Audit	0.1	0.1	0.1	0.0	0.0%	0.0	5.1%
General Counsel	0.1	0.1	0.0	0.0	0.0%	0.0	51.1%
Communications	0.1	0.1	0.1	0.0	0.0%	(0.0)	-14.0%
Safety, Health, Security and Quality	1.0	1.0	0.7	0.0	0.0%	0.2	23.8%
Environmental Program and Strategic Planning	0.3	0.3	0.3	0.0	0.0%	(0.0)	-1.0%
Business Services	1.4	1.4	1.4	0.0	0.0%	(0.0)	-1.4%
Prime Contract and Project Integration	1.4	1.4	1.4	0.0	0.0%	(0.0)	-1.1%
Project Technical Services	0.5	0.5	0.4	0.0	0.4%	0.1	15.0%
Indirect WBS 000 Total	4.8	4.8	4.5	0.0	0.0%	0.3	6.0%

Numbers are rounded to the nearest \$0.1M.

Indirect WBS 000

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

Variance is within reporting thresholds.

CM Cost Performance: (+0.3M/+6.0%)

Variance is primarily attributed to labor underruns that were experienced due to increased project support, thus reducing indirect costs for the period.

**Fiscal Year-to-Date (FYTD)
(\$M)**

WBS 000 Project Services and Support	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)	Budget at Completion (BAC)
Office of the President	0.1	0.1	0.1	0.0	0.0%	(0.0)	-15.2%	1.8
Internal Audit	0.1	0.1	0.1	0.0	0.0%	0.0	5.1%	1.1
General Counsel	0.1	0.1	0.0	0.0	0.0%	0.0	51.1%	1.5
Communications	0.1	0.1	0.1	0.0	0.0%	(0.0)	-14.0%	1.0
Safety, Health, Security and Quality	1.0	1.0	0.7	0.0	0.0%	0.2	23.8%	14.8
Environmental Program and Strategic Planning	0.3	0.3	0.3	0.0	0.0%	(0.0)	-1.0%	5.0
Business Services	1.4	1.4	1.4	0.0	0.0%	(0.0)	-1.4%	20.7
Prime Contract and Project Integration	1.4	1.4	1.4	0.0	0.0%	(0.0)	-1.1%	20.7
Project Technical Services	0.5	0.5	0.4	0.0	0.4%	0.1	15.0%	6.9
Indirect WBS 000 Total	4.8	4.8	4.5	0.0	0.0%	0.3	6.0%	73.6

Numbers are rounded to the nearest \$0.1M.

Indirect WBS 000

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

The variance is within reporting thresholds.

FYTD Cost Performance: (+0.3M/+6.0%)

Variance is primarily attributed to labor underruns that were experienced due to increased project support, thus reducing indirect costs for the period.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

-  Opportunity currently realized, or mitigation efforts are currently working toward, or after risk trigger with no foreseeable impacts.
-  Mitigation efforts are currently working toward risk trigger with the possibility of actions not in place prior to risk occurrence. Recovery actions may be needed.
-  Risk currently realized, or risk mitigation efforts are past risk trigger date with foreseeable impacts. Recovery actions needed.

-  Increased Confidence
-  No Change
-  Decreased Confidence

Risk Title	Unmitigated Risk Impacts	Assessment		Comments																							
		Month	Trend																								
Executive Level Risks																											
Explanation of major changes to the project monthly spotlight chart: No major changes to the risk profile for the month of October .																											
Realized Risks (Risks that are currently impacting project cost/schedule)																											
PRC-022: Higher Than Anticipated Attrition	<p>Higher than planned attrition or staffing reduction is experienced resulting in project schedule delays, and increased training costs.</p> <p>Risk Handling Strategy: Avoid</p> <p>Probability: Likely (75% to 90%)</p> <p>Worst Case Impacts: \$5M, 40 days</p>			<p>Risk Event: CHPRC continues to experience higher than anticipated attrition for</p> <table border="1"> <thead> <tr> <th>Risk recovery action(s)</th> <th>Risk Date</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Implement salary increase fund</td> <td rowspan="6" style="text-align: center;">FY2015</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Proposed PFP incentive program</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Draft retention and recruiting plan investment for FY2015.</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Develop/implement CHPRC People Legacy Program.</td> <td>On-Going</td> <td>N/A</td> </tr> <tr> <td>Target recruiting for key project resources</td> <td>9/30/16</td> <td>0</td> </tr> <tr> <td>Continue PFP resource transition plan for FY2016</td> <td>9/30/16</td> <td>0</td> </tr> </tbody> </table> <p>River Corridor Closure recruitment for FY2016</p> <p>9/30/16 0</p> <p>FY2015.</p>	Risk recovery action(s)	Risk Date	FC Date	%	Implement salary increase fund	FY2015	Complete	100	Proposed PFP incentive program	Complete	100	Draft retention and recruiting plan investment for FY2015.	Complete	100	Develop/implement CHPRC People Legacy Program.	On-Going	N/A	Target recruiting for key project resources	9/30/16	0	Continue PFP resource transition plan for FY2016	9/30/16	0
				Risk recovery action(s)	Risk Date	FC Date	%																				
				Implement salary increase fund	FY2015	Complete	100																				
				Proposed PFP incentive program		Complete	100																				
				Draft retention and recruiting plan investment for FY2015.		Complete	100																				
				Develop/implement CHPRC People Legacy Program.		On-Going	N/A																				
				Target recruiting for key project resources		9/30/16	0																				
				Continue PFP resource transition plan for FY2016		9/30/16	0																				
				<p>Recovery Action Assessment: In the month of October CHPRC identified additional recovery actions to reduce the impact of higher than planned attrition or staffing reduction. CHPRC continues to increase recruitment, and analysis of comparable markets for salary competitiveness. Potential problems exist pending funding profiles for other site contractors. No alternative course of actions needed at this time.</p>																							
				Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)																							
No critical risks identified in the month of October .																											
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)																											
No high threat value risks identified in the month of October .																											
Unassigned Risks (Pending ownership of identified risks/opportunities)																											
CHPRC continues to conduct internal reviews to ensure risks are still valid. In cases where risk has passed/or is no longer valid CHPRC will no longer report, and close the risk in the database. In the event risk are still valid ownership will need to be established to further identify and address potential impacts to project cost and schedule. There are cases when risks are identified but are outside the control and management of the contractor. However, CHPRC risk management process identifies all risks that could impact overall project success.																											

MILESTONE STATUS

None currently 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.

Appendix C

Capital Asset Projects



October 2015
CHPRC-2015-10, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

**Appendix C.1
Capital Asset Project
RL-011.C1 Removal of 174 Gloveboxes from
234-5Z**



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

**October 2015
CHPRC-2015-10, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1**

PROJECT SUMMARY

The following are key metrics associated with this Capital Asset Project.

<i>Key Metrics</i>	<i>Current Month Plan</i>	<i>Current Month Actuals</i>	<i>Cumulative Plan</i>	<i>Cumulative Actuals</i>
Glovebox/Hood Removed	-	-	174	162
KPP Rooms/Areas Ready for Demo	-	-	60	60 rooms/areas

Summary:

The removal of plutonium-contaminated process equipment continued with a particular focus on removing gloveboxes, associated piping, and ductwork. The total number of gloveboxes removed to date is at 93 percent complete.

- Prepared room and area for in-situ size reduction of Glovebox HA-9A in 234-5Z.

KEY ACCOMPLISHMENTS

234-5Z

- RMA Line:
 - o Completed size reducing top level of Glovebox HA-9A.

MAJOR ISSUES

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 DSA/TSR Revision 12 was approved by RL on May 4, 2015. The implementation plan has been approved, affected documents are being modified, and training is being performed. Implementation has been delayed to align with completion of the in-situ size reduction efforts being performed on the HA-9A and HC-9B Gloveboxes in 234-5Z. Implementation is now scheduled for the end of November 2015. (NOTE: Status of this issue has not changed for this reporting cycle).

CLASSIFICATION (When Filled In)											
CONTRACT PERFORMANCE REPORT											
FORMAT 1 - WORK BREAKDOWN STRUCTURE											
1. CONTRACTOR	2. CONTRACT	3. PROGRAM	4. REPORT PERIOD	5. CONTRACT DATA	6. ESTIMATED COST AT COMPLETION	7. AUTHORIZED CONTRACTOR REPRESENTATIVE	8. ESTIMATED CONTRACT CEILING	9. DATE OF OTR/OTS	10. ESTIMATED CONTRACT CEILING	11. BUDGETED	12. AT COMPLETION
a. NAME CH2M HILL Patuxent Remediation Company	a. NAME Patuxent Remediation Contract	a. NAME RL 0011, C1 - PFF D&D (AKRA/BS+)	a. FROM (YYYYMMDD) 2015 / 10 / 01	a. QUANTITY 1	a. ESTIMATED COST OF AUTHORIZED UNPRICED WORK 0	a. NAME (last, first, middle initial) Dickerson, Lisa K.	a. ESTIMATED CONTRACT CEILING 317,434	a. DATE OF OTR/OTS (YYYYMMDD)	a. ESTIMATED CONTRACT CEILING 317,434	a. BUDGETED	a. AT COMPLETION
b. LOCATION (Address and ZIP Code) Richland, WA	b. NUMBER RL142353	b. PHASE	b. TO (YYYYMMDD) 2015 / 10 / 15	b. NEGOTIATED COST 317,546	b. ESTIMATED COST OF AUTHORIZED UNPRICED WORK 0	b. NAME (last, first, middle initial) Dickerson, Lisa K.	b. ESTIMATED CONTRACT CEILING 317,434	b. DATE OF OTR/OTS (YYYYMMDD)	b. ESTIMATED CONTRACT CEILING 317,434	b. BUDGETED	b. AT COMPLETION
c. TYPE CAF											
d. SHARE RATIO											
e. EVMs ACCEPTANCE											
f. DATE SIGNED (YYYYMMDD)											
CAPIL PFS											
Control Account PARS 2 WBS (2)											
1	1	1	1	1	1	1	1	1	1	1	1
a. BEST CASE											
b. WORST CASE											
c. MOST LIKELY											
3. PERFORMANCE DATA											
RL-0011 Nuclear Mat. Stab & Disp PPP											
RL_0011_C1.02 Maintain Safe & Compliant PFF											
RL_0011_C1.05 Disposition PFF Facility											
RL_0011_C1.06 Project Management & Support											
RL_0011_C1.98 Usage Based Services Distributions -PFS RL-11											
RL_0011_C1.99 PFS Ramp-up and Transition											
RL_0011_C1.99 PFS RL-11 UBS, G-m-A, Direct Distrib											
a. COST OF MONEY											
b. GENERAL AND ADMINISTRATIVE											
c. UNDISTRIBUTED BUDGET											
d. MANAGEMENT RESERVE											
e. TOTAL											
f. RECONCILIATION TO CONTRACT BUDGET BASELINE											
g. VARIANCE ADJUSTMENT											
h. TOTAL CONTRACT VARIANCE											



CLASSIFICATION (When Filled In)		CONTRACT PERFORMANCE REPORT										FORM APPROVED			
		FORMAT 2 - ORGANIZATIONAL CATEGORIES										OMB No. 0704-0188			
		DOLLARS IN										Thousands of \$			
												4. REPORT PERIOD			
												a. FROM (YYYYMMDD)			
												b. TO (YYYYMMDD)			
												2015 / 10 / 01			
												2015 / 10 / 25			
1. CONTRACTOR		2. CONTRACT		3. PROGRAM										4. REPORT PERIOD	
a. NAME		a. NAME		b. NAME										a. FROM (YYYYMMDD)	
CH2M HILL Plazasu Remediation Company		Plazasu Remediation Contract		RL 0011, C1 - PFP D&D (ARRA/Basic)										b. TO (YYYYMMDD)	
b. LOCATION (Address and ZIP Code)		b. NUMBER		c. EWS ACCEPTANCE											
Richland, WA		RL14788		d. SHARE RATIO											
		c. TYPE		NO <input type="checkbox"/> X <input checked="" type="checkbox"/> YES											
		CPAF													
5. PERFORMANCE DATA															
WBS Resp Org Group															
ITEM (1)	CURRENT PERIOD			CUMULATIVE TO DATE			REPROGRAMMING			AT COMPLETION					
	BUDGETED COST	ACTUAL COST	VARIANCE	BUDGETED COST	ACTUAL COST	VARIANCE	COST VARIANCE (12a)	SCHEDULE VARIANCE (12b)	BUDGET	BUDGETED	VARIANCE				
	WORK SCHEDULED (2)	WORK PERFORMED (3)	SCHEDULE (5)	WORK SCHEDULED (7)	WORK PERFORMED (8)	SCHEDULE (10)	COST (11)	COST (12a)	BUDGET (13)	(14)	(15)				
35 - Business Services	0	0	0	60,427	60,427	0	7,847	0	0	60,427	52,580	7,847			
38 - PFP Closure Project	0	244	244	252,719	252,432	-1,286	-24,483	0	0	254,725	282,046	-27,321			
b. COST OF MONEY	0	0	0	0	0	0	0	0	0	0	0	0			
c. GENERAL AND ADMINISTRATIVE	0	0	0	0	0	0	0	0	0	0	0	0			
d. UNDISTRIBUTED BUDGET	0	0	0	0	0	0	0	0	0	0	0	0			
e. SUBTOTAL (Performance Measurement Baseline)	0	244	244	314,146	312,859	-1,286	-16,636	0	0	315,152	334,616	-19,472			
f. MANAGEMENT RESERVE	0	244	244	314,146	312,859	-1,286	-16,636	0	0	317,546	2,394	-19,472			
f. TOTAL	0	244	244	314,146	312,859	-1,286	-16,636	0	0	317,546	2,394	-19,472			

CLASSIFICATION (When Filled In)



1. CONTRACTOR CH2M HILL Potawau Remediation Company b. LOCATION: Potawau, IA	2. CONTRACT a. NAME: Potawau Remediation Contract b. NUMBER: RL14788 c. TYPE: C9AF d. SHARE RATIO:	3. PROGRAM a. NAME: Potawau Remediation Contract b. PHASE c. EWS ACCEPTANCE d. SHARE RATIO:	DOLLARS IN THOUSANDS RL_001_01 - PFP D&D (ARRA/Base) Potawau Remediation Contract	Form Approved OMB No. 0704-0188 4. REPORT PERIOD a. FROM: 2015/10/01 b. TO: 2016/10/25					
5. CONTRACT DATA a. ORIGINAL NEGOTIATED COST 317,546 b. CONTRACT START DATE 6/19/2008	b. NEGOTIATED CONTRACT CHANGE \$0 c. CURRENT NEGOTIATED COST (A + B) \$317,546 d. ESTIMATED COST AUTH UNPRICED WORK \$0 e. CONTRACT BUDGET BASE (C + D) \$317,546 f. TOTAL ALLOCATED BUDGET \$317,546 g. DIFFERENCE (E - F) (0)	i. DEFINITIZATION DATE 6/19/2008 j. PLANNED COMPLETION DATE 9/30/2018 k. CONT COMPLETION DATE 9/30/2018 l. EST COMPLETION DATE 9/30/2018	9. DIFFERENCE (E - F) (0)	I. EST COMPLETION DATE 9/30/2018					
6. PERFORMANCE DATA	BOWS CUM TO DATE (2)	BOWS FOR REPORT PERIOD (3)	SIX MONTH FORECAST	FY15	FY16	FY17	FY18	UNDISTRIB BUDGET (16)	TOTAL BUDGET (17)
a. PM BASELINE (BEGIN OF PERIOD)	314,146	0	+1 Nov-15 (4) +2 Dec-15 (5) +3 Jan-16 (6) +4 Feb-16 (7) +5 Mar-16 (8) +6 Apr-16 (9)	119	183	222	165	163	183
b. BASELINE CHANGES AUTH DURING REPORT PERIOD (None during the reporting period)									
c. PM BASELINE (END OF PERIOD)	314,146	0		119	183	222	165	183	314,146
7. MANAGEMENT RESERVE									2,384
8. TOTAL									317,546



CLASSIFICATION (When Filled In)									
CONTRACT PERFORMANCE REPORT									
FORMAT 5 - Explanations and Problem Analysis									
								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 RL 0011_C1 - PFP D&D (ARRA/Base)				a. FROM 2015 / 10 / 01	
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE				b. TO 2015 / 10 / 23	
c. TYPE CPAF		d. SHARE RATIO		c. EVMS ACCEPTANCE No X Yes				2009 / 09 / 18	
5. Evaluation									
Direct Projects									
	Budget	Earned	Actuals	SV in \$	SV in %	CV in \$	CV in %	SPI	CPI
Current:	0	244	244	244	-	0	0.2%	-	1.00
Cumulative:	314,146	312,859	329,496	(1,286)	0%	(16,636)	-5.3%	1.00	0.95
	BAC	EAC	VAC in \$	VAC in %	TCPI to BAC	TCPI to EAC			
At Complete:	315,132	334,626	(19,474)	-6.2%	-	0			
Explanation of Variance/Description of Problem:									
The current month positive schedule variance is associated with working behind schedule In-situ Size Reduction work scope, specifically the HA-9A glovebox. HA-9A is the final glovebox that requires size reduction in place using the Premaire Breathing system as Personal/Respiratory protection, whereas the baseline planned this work scope to be performed on PAPR (Powered Air Purifying Respirator). This work scope is anticipated to complete in December, 2015.									
Impact:									
<p>Schedule Impact: The RL-011.C1 project baseline date after implementation of the September BCR is November 16, 2016, with the current schedule reflects an earlier completion date of October 26, 2016. The current RL-11 PBS performance baseline schedule indicates that the PFP project will achieve slab-on-grade by January 3, 2017. Although the current schedule shows that the work scope to meet the completion of the TPA milestone will not complete until January 3, 2017. The project expects to continue progress at the rate that has been experienced in the past several months; however, even with the implementation of new initiatives (i.e., breathing air, high mass glovebox initiative, foaming, grouting, etc.) the PFP Project is at risk of meeting the TPA milestone M-083-00A of 9/30/16.</p> <p>Cost Impact: The EAC and negative 11.2% VAC reflects consideration of plant performance and successful implementation of the corrective actions noted below.</p> <p>Corrective Action:</p> <p>Schedule: Implementation of DSA Revision 12 will allow for removal of confinement walls and therefore provide egress access for gloveboxes marked for removal prior to demolition of 234-52. Action: Ruben Trevino 12/31/15</p> <p>Cost: Cost variance is not considered recoverable. Past performance and successful implementation of the above actions are reflected in the EAC. Historical negative cost variance of 10.1% and CPI of .91 and "\$23.5M cost variance to date will result in a VAC of "\$26.3M. This is due to incorporation of the use of the PreMaire breathing air suits that will be used to mitigate exposure to the worker and ease in in-situ size reduction of gloveboxes and transferred scope for removal of the gloveboxes from the facility to meet the end point criteria of the Project Execution Plan. As efficiencies continue to be recognized, the EAC will be adjusted. It is not expected that the entire cost variance will be recovered as there is only a small amount of scope remaining to complete the KPP.</p> <p>NOTE: To eliminate the need for modifications and allow resources to concentrate on getting the 234-52 facility demolished by 9/30/16, with the exception of one glovebox that has high gram values too high to be left in place (HA-9A), the remaining gloveboxes have been removed from E-4 ventilation and will be removed from the building during demolition preparations and demolition of the 234-52 facility in FY2016. This approach has been incorporated into the baseline as noted in the CM Variance explanation.</p>									
Monthly Summary (to include technical causes of VARs, Impacts) and Corrective Action(s):									
The following items are addressed, as applicable, per the EVMSIH:									
1. Schedule Margin Analysis: N/A									
2. IMS Data dictionary Changes: N/A									
3. Forecast Schedule with No Baseline: N/A									
4. UB Balance: N/A									
5. Negative ACWP: N/A									
6. EAC Analysis: Best Case = EAC; Most Likely = EAC + MR; Worst Case = ECWR or BCWR (whichever is greater) + ACWP + MR + Trend Log values not already included.									
7. Negative CV > VAC: N/A									
8. MR Transactions: N/A									
9. Freeze Period Changes: N/A									
10. Retroactive Changes: N/A									
11. Indirect Variances: Negative cumulative CV was negated by a positive passback from the Indirect projects, in FY15.									
Prepared by:			Date:			Approved by:			Date:

CORRECTIVE ACTION LOG

Control Account	Task Title	FY Year/ Month	CAM	Status	Forecast Completion	Actual Completion	Assigned To
011.05.01.01	DSA Revision 12 Implementation	2016/01	Trevino, Ruben A	Open	12/31/2015		Trevino, Ruben A

RISK MANAGEMENT STATUS

● **Unassigned Risk**
● **Risk Passed**
● **New Risk**
● **Change**

- Opportunity currently realized, or mitigation efforts are currently working toward, or after risk trigger with no foreseeable impacts.
- Mitigation efforts are currently working toward risk trigger with the possibility of actions not in place prior to risk occurrence. Recovery actions may be needed.
- Risk currently realized, or risk mitigation efforts are past risk trigger date with foreseeable impacts. Recovery actions needed.

↑ Increased Confidence
↔ No Change
↓ Decreased Confidence

Risk Title Risk Owner	Unmitigated Risk Impacts	Assessment		Comments		
		Month	Trend			
RL-0011/WBS-011.05.01.01.06 (CAP.1)						
Explanation of major changes to the project monthly spotlight chart:						
In the month of October RL-0011 conducted risk register updates based on current planning assumptions, and to-go work scope. Based on these updates four (4) risks were closed for the CAP.1 project.						
Realized Risks (Risks that are currently impacting project cost/schedule)						
No realized risks identified for RL-0011/WBS-011.05.01.01.06 (CAP.1) in the month of October .						
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)						
FY2016 Risk Triggers (Risk could be realized in FY2016)						
PFP-DEMO-21: Glove Box/Equipment Removal/Demolition Material Handling Event	A material handling event (e.g., dropped piece of process equipment) occurs during the PFP demolition resulting in cost impacts and schedule delays. Risk Handling Strategy: Accept Probability: Low (10% to 25%) Worst Case Impacts: \$150K, 44 days	●	↔	Risk Trigger: During pre-demolition/demolition activities in FY2016.		
				Mitigation action(s)	FC Date	%
				None identified at this time.	N/A	N/A
Mitigation Assessment: The mitigation strategies have been put in place, as a result, the risk strategy is to accept with no further mitigation actions identified at this time. PFP will continue to adhere to the CHPRC ISMS program/ hoisting and rigging program to include detailed analyses of potential hazards and identification of preventive measures to implement prior to starting the work. At this time no alternative course of actions needed.						
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)						
FY2016 Risk Triggers (Risk could be realized in FY2016)						
PFP-GB-05: Dose Rates for RMA/RMC Removal Higher Than Planned	Dose rates for removal of the RMA/RMC gloveboxes are higher than planned resulting in schedule delays, and cost impacts. Risk Handling Strategy: Accept Probability: Likely (75% to 90%) Worst Case Impacts: \$210K, 88 days	●	↔	Risk Trigger: During insitu size reduction activities within RMA/RMC (9A, 9B, 18M). Dates tracked in the FES.		
				Mitigation action(s)	FC Date	%
				None identified at this time.	N/A	N/A
Mitigation Assessment: In the month of October PFP-GB-05 was closed out based on the completion of 9B, and work controls implemented into the work package for 9A. This risk will no longer be reported on.						
PFP-GB-08: KPP Room Recovery After Contamination Event	An industrial accident or contaminated worker events necessitate a safety stand down or other corrective actions resulting in cost impacts, and schedule delays. Risk Handling Strategy: Accept Probability: Medium (26% to 74%) Worst Case Impacts: \$375K, 44 days	●	↔	Risk Trigger: During insitu size reduction activities within RMA/RMC (9A, 9B, 18M). Dates tracked in the FES.		
				Mitigation action(s)	FC Date	%
				None identified at this time.	N/A	N/A
Mitigation Assessment: The mitigation strategies have been put in place, as a result, the risk strategy is to accept with no further mitigation actions identified at this time. PFP will continue to adhere to Worker Safety Programs, and implement corrective actions as part of the ISMS feedback loop. At this time no alternative course of actions needed.						

Risk Title Risk Owner	Unmitigated Risk Impacts	Assessment		Comments		
		Month	Trend			
RL-0011/WBS-011.05.01.01.06 (CAP.1)						
PFP-GB-09: Bulk Area clean-out scope Increase for KPP Scope	Additional bulk area clean-out results in schedule delays due to contamination events in rooms 228A -228C and 235A3 after Insitu-size reduction activities are complete. Risk Handling Strategy: Control Probability: Low (10% to 25%) Worst Case Impacts: \$0, 30 days *Cost increase will result in cost per day impacts from crews, and hotel load.			Risk Trigger: During insitu size reduction activities within RMA/RMC (9A, 9B, 18M). Dates tracked in the FES.		
				Mitigation action(s)	FC Date	%
				Implement lessons learned from previous size reductions activities (i.e., Room 172 size reduction) into work packages.	Complete	100
				Identify/fabricate room sacrificial layers prior to insitu size reduction activities.	Complete	100
Mitigation Assessment: In the month of October mitigation actions were implemented with no further mitigation actions identified at this time. At this time no alternative course of actions needed.						
Unassigned Risks (Pending ownership of identified risks/opportunities)						
No unassigned risks identified for RL-0011 in the month of October .						

Critical Path Schedule

The critical path for this project runs through PFP non-capital asset activities. Following adjustments to the PRF Canyon characterization schedule in September, the new PFP Critical Schedule Path to removal of the gloveboxes from the 234-5Z facility and RL-0011.C1 capital asset project flows through the 234-5Z duct level and filter box removal, then to the final focused decontamination throughout 234-5Z. This leads into 234-5Z Cold & Dark and Ready for Demo, allowing removal of the gloveboxes that have been left in place to be removed during demolition of 234-5Z. Once demolition is complete, CD-4 activities to close out the RL-0011.C1 project will be performed.

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 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 Significant Progress on Deactivation & Removal of 208 GB's and Disposal of all 236-Z Pencil Tanks	09/30/15		9/30/15	Complete
M-083-00A	PFP Facility Transition and Selection Disposition Activities	09/30/16		1/3/17	Stop works associated with Premiere breathing air suits/hoses in support of in-situ size reduction efforts caused the Tri-Party Agreement milestone date to slip. As the PFP Project continues to make progress on the behind schedule critical path work scope being performed it is anticipated that efficiencies will be recognized to bring the schedule into alignment with a completion date of September 30, 2016. However, this Tri-Party Agreement completion is currently at risk of meeting the September 30, 2016 commitment date.

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None identified at this time.

Appendix C.2

Capital Asset Project

RL-011.C2 Demolition of PFP Facilities



J. M. Swartz
Vice President for
PFP Closure Project

October 2015
CHPRC-2015-10, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

The following are key metrics associated with this Capital Asset Project.

<i>Key Metrics</i>	<i>Current Month Plan</i>	<i>Current Month Actuals</i>	<i>Cumulative Plan</i>	<i>Cumulative Actuals</i>
Complete Cold and Dark/Demo Ready activities for 234-5Z	-	-	1	-
Complete Cold and Dark/Demo Ready activities for 236-Z	-	-	1	-
Complete Cold and Dark/Demo Ready activities for 242-Z	-	-	1	-
Complete Cold and Dark/Demo Ready activities for 291-Z	-	-	1	-
Complete Cold and Dark/Demo Ready activities for PFP Ancillary Facilities	-	-	15	-
Complete Demolition of 234-5Z	-	-	1	-
Complete Demolition of 236-Z	-	-	1	-
Complete Demolition of 242-Z	-	-	1	-
Complete Demolition of 291-Z	-	-	1	-
Complete Demolition of PFP Ancillary Facilities	-	-	1	-
Complete Demolition of PFP Ancillary Facilities	-	-	15	-
Turnover Facility to Long Term Surveillance & Maintenance	-	-	-	-

Summary:

The PFP Demolition Project is the final sub-set activity for completing the overall Project Baseline Summary (PBS) RL-0011, Nuclear Materials Stabilization and Disposition of PFP. Completion of RL-0011.C2 will result in the remaining PFP set of facilities becoming “slab-on-grade” and allow transition of the PFP complex to long-term S&M.

KEY ACCOMPLISHMENTS

- Continued development of Safety Basis Revision 13 in preparation for submittal to RL initiated set-up of demolition queue to support planned demolition of the 236-Z facility in the Spring 2016.

MAJOR ISSUES

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 DSA/TSR Revision 12 was approved by RL on May 4, 2015. The implementation plan has been approved, affected documents are being modified, and training is being performed. Implementation has been delayed to align with completion of the in-situ size reduction efforts being performed on the HA-9A and HC-9B Gloveboxes in 234-5Z. Implementation is now scheduled for the end of October 2015.

Corrective Action – Coordinate with Maintenance and Waste Integration to establish mass balance calculations for various hazardous materials, demonstrating how much hazardous material may remain with building rubble and still meet ERDF waste acceptance criteria.

Status – PFP is continuing to work with Maintenance and Waste Integration to establish mass balance calculations. Calculations were completed this month using CHPRC-0560, *Plutonium Finishing Plant Rubble Calculations*, demonstrating that residual hazardous constituents are not expected to pose any significant cost and schedule impacts. Minor segregation and packaging of specific material (i.e., large diameter fire suppression lines) may be necessary during demolition phases. More detailed mass balance calculations for the individual demolition areas will be completed by October 30, 2015, with the final reports being issued by the end of November.

Issue – PRF Canyon floor scrapings, from Pan J and staged in a collection tray on the Canyon floor expanded. A clear and unanticipated chemical reaction was occurring within the material. A previously noted hard substance was observed within the loose debris on Pan J. This hard substance was originally thought to be concrete (congealed, spalled wall fines) but upon further review was believed to be a plasticized material, which was not unexpected.

Corrective Action – PFP will perform 100 percent visual inspection of all waste drums that contain PRF canyon waste. In addition, all Pan J. waste packages will be retrieved and placed into the PRF Canyon after which waste will be unpackaged from the bags and cartons to meet combustible controls limitations. This work will be performed in the PRF Canyon.

Status – A meeting was held with facility SMEs and members of the PRF canyon work crew to discuss present status and recovery actions following the identification of a chemical reaction associated with the canyon floor pan wastes. Discussion was held to determine the extent of condition, recovery plan, and path forward to allow continued packaging of the canyon floor pan waste.

Issue - PFP Safeguards posture/requirements – PFP management team was contacted on October 6th by the MSA Safeguards POC informed that there was an immediate need to reduce the physical inventory of specific nuclear materials staged in the PFP Waste Storage Area due to a safeguards requirement (not known to PFP team nor specified in the PFP procedures, contracts or other safety basis requirements).

Corrective Actions - Immediate actions were developed working with Safeguards, the PFP MBA custodian and PFP Waste Operations which resulted in the immediate movement of a total of 4 drums to other approved waste storage areas to satisfy the immediate Safeguards request/requirement.

On October 22, 2015, a Limited Area was established on the North side of the PFP facility supporting the Waste Storage in MBA-223 and this resolved the Safeguards Storage Issue.

Status - Action is resolved with establishment of Limited Area. This issue will be closed during the November reporting cycle.

CLASSIFICATION (When Filled In)	CONTRACT PERFORMANCE REPORT	FORM APPROVED									
CONTRACTOR	FORMAT 2 - ORGANIZATIONAL CATEGORIES	OMB No. 0704-0188									
1. CONTRACTOR	2. CONTRACT	3. PROGRAM									
a. NAME	a. NAME	b. FROM (YYYYMMDD)									
b. LOCATION (Address and ZIP Code)	b. NUMBER	c. TO (YYYYMMDD)									
c. TYPE	c. EVMS ACCEPTANCE	2015 / 10 / 01									
d. SHARE RATIO	d. YES	2015 / 10 / 25									
e. PERFORMANCE DATA	e. WBS Resp Org Group										
ITEM	CURRENT PERIOD	CUMULATIVE TO DATE	REPROGRAMMING	AT COMPLETION							
(1)	BUDGETED COST	ACTUAL COST WORK PERFORMED	BUDGETED COST	BUDGETED	ESTIMATED	VARIANCE					
	WORK SCHEDULED (2)	WORK PERFORMED (3)	VARIANCE SCHEDULE (5)	COST (6)	SCHEDULE (10)	COST VARIANCE (12a)	SCHEDULE VARIANCE (12b)	BUDGET (13)			
38 - PFP Closure Project	110	79	0	32	0	6,068	220	0	45,483	(15)	(16)
b. COST OF MONEY	0	0	0	0	0	0	0	0	0	0	0
c. GENERAL AND ADMINISTRATIVE	0	0	0	0	0	0	0	0	0	0	0
d. UNDISTRIBUTED BUDGET	110	79	0	32	0	6,068	220	0	45,483	40,628	4,356
e. SUBTOTAL (Performance Measurement Baseline)	110	79	0	32	0	6,068	220	0	45,483	40,628	4,356
f. MANAGEMENT RESERVE											
g. TOTAL	110	79	0	32	0	6,068	220	0	45,483	40,628	4,356

CLASSIFICATION (When Filled In)



1. CONTRACTOR	2. CONTRACT	3. PROGRAM	4. REPORT PERIOD	Form Approved														
CH2M HILL Plateau Remediation Company Ridgely, VA	a. NAME: Plateau Remediation Contract b. NUMBER: RL14788 c. TYPE: CRAP d. SHARE RATIO:	a. NAME: Plateau Remediation Contract b. PHASE: c. EWS ACCEPTANCE	a. FROM: 2015/10/01 b. TO: 2015/10/25	OMB No. 0704-0188														
CONTRACT PERFORMANCE REPORT																		
FORMAT 3 - BASELINE																		
DOLLARS IN THOUSANDS																		
CONTRACT DATA																		
a. ORIGINAL NEGOTIATED COST	b. NEGOTIATED CONTRACT CHANGE	c. CURRENT NEGOTIATED COST (A + B)	d. ESTIMATED COST AUTH UNPRICED WORK	e. CONTRACT BUDGET BASE (C + D)														
51,683	50	\$51,683	50	\$51,683														
h. CONTRACT START DATE	i. DEFINITIZATION DATE	j. PLANNED COMPLETION DATE	k. CONT. COMPLETION DATE	l. EST. COMPLETION DATE														
6/19/2008	6/19/2008	9/30/2018	9/30/2018	9/30/2018														
6. PERFORMANCE DATA																		
a. PM BASELINE (BEGIN OF PERIOD)	BOWS CUM TO DATE (2)	BOWS FOR REPORT PERIOD (3)	SIX MONTH FORECAST						FY18 BUDGET (16)	TOTAL BUDGET (17)								
			+1 Nov-15 (4)	+2 Dec-15 (5)	+3 Jan-16 (6)	+4 Feb-16 (7)	+5 Mar-16 (8)	+6 Apr-16 (9)			FY15-13 (10)	FY14 (11)	FY15 (12)	FY16 (13)	FY17 (14)	FY18 (15)		
b. BASELINE CHANGES AUTH DURING REPORT PERIOD (None during the reporting period)	6,200	110	171	461	332	455	1,406	3,212	0	6,090	26,447	12,347	0	0	0	45,483	0	
c. PM BASELINE (END OF PERIOD)	6,200	110	171	461	332	455	1,406	3,212	0	6,090	26,447	12,347	0	0	0	45,483	0	
7. MANAGEMENT RESERVE																6,200		
8. TOTAL																51,683		



CLASSIFICATION (When Filled In)
CONTRACT PERFORMANCE REPORT
 FORMAT 4 - STAFFING

FORM APPROVED
 OMB No. 0704-0188
 Dollars in: FTE

PLEASE DO NOT RETURN YOUR FORM TO THE ABOVE ORGANIZATION. SUBMIT COMPLETED FORMS IN ACCORDANCE WITH CONTRACTUAL REQUIREMENTS.

1. CONTRACTOR		2. CONTRACT		3. PROGRAM		4. REPORT PERIOD	
a. NAME CH2M HILL Plateau Remediation Company		a. NAME Plateau Remediation Contract		a. NAME RL 0011 C2 PFP Demolition Capital Asset Project		a. FROM (YYYYMMDD) 2015 / 10 / 01	
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 NO <input type="checkbox"/> YES <input type="checkbox"/>		2015 / 10 / 25	

ORGANIZATIONAL CATEGORY	ACTUAL CURRENT PERIOD	ACTUAL END OF CURRENT PERIOD (Cumulative)	FORECAST (Non-Cumulative)												AT COMPLETION		
			SIX MONTH FORECAST BY MONTH (Enter names of months)						ENTER SPECIFIED PERIODS								
			+1	+2	+3	+4	+5	+6	REMAIN	FY16	FY17	FY18	FY19-FY24				
WB5.Rep Ovg Group																	
(1)																	
3B - PFP Closure Project	3	12	9	11	7	13	22	82	107	447	307	0	0	0	0	0	1,018
3 - TOTAL DIRECT	3	12	9	11	7	13	22	82	107	447	307	0	0	0	0	0	1,018

CLASSIFICATION (When Filled In)



CLASSIFICATION (When Filled In)									
CONTRACT PERFORMANCE REPORT									FORM APPROVED
FORMAT 5 - Explanations and Problem Analysis									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 RL_0011_C2 PFP Demolition Capital Asset Project				a. FROM (YYYYMMDD) 2015 / 10 / 01	
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE				b. TO (YYYYMMDD) 2015 / 10 / 25	
c. TYPE CPAF		d. SHARE RATIO		c. EVMS ACCEPTANCE No X Yes				2009 / 09 / 18	
5. Evaluation									
Direct Projects									
	Budget	Earned	Actuals	SV in \$	SV in %	CV in \$	CV in %	SPI	CPI
Current:	110	110	78	0	0.0%	32	29.2%	1.00	1.41
Cumulative:	6,200.0	6,308	6,088	108	1.7%	220	3.5%	1.02	1.04
	BAC	EAC	VAC in \$	VAC in %	TCPI to BAC	TCPI to EAC			
At Complete:	43,483	40,628	4,856	10.7%	0.99	1.13			
Explanation of Variance/Description of Problem:									
The current monthly cost variance is associated with early procurement of consumables with the inability to take performance as the consumables are apportioned to the discrete work with the demolition of the major PFP facilities. When demolition activities begin in February, credit will be taken for consumables purchased to date. Early procurement is necessary to support the set-up of the ERDF waste container queue, berms, etc. to ensure the project is ready for the demolition of the first facility at PFP (PRF).									
Impact:									
There is no impact to the project for completion of demolition activities.									
Corrective Action:									
Performance for procurement of consumables will be taken when the discrete Demolition activities begin as the project demolishes the PRF facility as the consumables are apportioned to the discrete demolition work. (Action: Trevino - 3/30/16)									
Monthly Summary (to include technical causes of VARs, Impacts) and Corrective Action(s):									
The current monthly cost variance is associated with early procurement of consumables with the inability to take performance as the consumables are apportioned to the discrete work with the demolition of the major PFP facilities. When demolition activities begin in February, credit will be taken for consumables purchased to date. Early procurement is necessary to support the set-up of the ERDF waste container queue, berms, etc. to ensure the project is ready for the demolition of the first facility at PFP (PRF).									
The following items are addressed , as applicable, per the EVMSIH:									
1. Schedule Margin Analysis: Schedule Margin durations were not adjusted this month.									
2. IMS Data dictionary Changes: N/A									
3. Forecast Schedule with No Baseline: N/A									
4. UB Balance: N/A									
5. Negative ACWP: N/A									
6. EAC Analysis: Best Case = EAC; Most Likely = EAC + MR; Worst Case = ECWR or BCWR (whichever is greater) + ACWP + MR + Trend Log values not already included.									
7. Negative CV > VAC: N/A									
8. MR Transactions: N/A									
9. Freeze Period Changes: N/A									
Prepared by:			Date:			Approved by:			Date:

CORRECTIVE ACTION LOG

Control Account	Task Title	FY Year/ Month	CAM	Status	Forecast Completion	Actual Completion	Assigned To
011.05.01.01	DSA Revision 12 Implementation	2016/01	Trevino, Ruben A	Open	12/31/2015		Trevino, Ruben A

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

- Opportunity currently realized, or mitigation efforts are currently working toward, or after risk trigger with no foreseeable impacts.
- Mitigation efforts are currently working toward risk trigger with the possibility of actions not in place prior to risk occurrence. Recovery actions may be needed.
- Risk currently realized, or risk mitigation efforts are past risk trigger date with foreseeable impacts. Recovery actions needed.

- ↑ Increased Confidence
- ↔ No Change
- ↓ Decreased Confidence

Risk Title Risk Owner	Unmitigated Risk Impacts	Assessment		Comments												
		Month	Trend													
RL-0011/WBS-011.05.C3 (CAP.2)																
Explanation of major changes to the project monthly spotlight chart: In the month of October CHPRC identified one (1) proposed risk transfer to RL. Meetings will be set up in the month of November to discuss PFP-DEMO-18, Level of Readiness Effort.																
Realized Risks (Risks that are currently impacting project cost/schedule)																
No realized risks identified for RL-0011/WBS-011.05.C3 (CAP.2) in the month of October.																
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)																
FY2016 Risk Triggers (Risk could be realized in FY2016)																
PFP-DEMO-21: Glove Box/Equipment Removal/Demolition Material Handling Event	A material handling event (E.g., dropped piece of process equipment) occurs during the PFP demolition resulting in cost impacts and schedule delays. Risk Handling Strategy: Accept Probability: Low (10% to 25%) Worst Case Impacts: \$150K, 44 days	●	↔	Risk Trigger: During pre-demolition/demolition activities in FY2016. Dates tracked in the FES.												
				<table border="1" style="width: 100%;"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>None identified at this time.</td> <td>N/A</td> <td>N/A</td> </tr> </tbody> </table>	Mitigation action(s)	FC Date	%	None identified at this time.	N/A	N/A						
Mitigation action(s)	FC Date	%														
None identified at this time.	N/A	N/A														
PFP-DEMO-07: Removal/Extraction of Equipment Takes Longer Than Planned	Controlled demolition of equipment, gloveboxes, and portions of the cross-cutting process support systems (i.e. ventilation) result in cost impacts, and schedule delays. Risk Handling Strategy: Control Probability: Medium (26% to 74%) Worst Case Impacts: \$1.5M, 45 days	●	↔	Risk Trigger: During pre-demolition/demolition activities in FY2016. Dates tracked in the FES.												
				<table border="1" style="width: 100%;"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Submit safety basis documents that allow for additional equipment (e.g., 242-Z Tanks) to be left in place for removal during demolition.</td> <td>10/31/15</td> <td>99</td> </tr> <tr> <td>Identify and pre-rig equipment with lifting slings.</td> <td>12/31/15</td> <td>50</td> </tr> <tr> <td>Apply fixative to internals of equipment intended to be removed during demolition to contain contamination.</td> <td>Ongoing</td> <td>N/A</td> </tr> </tbody> </table>	Mitigation action(s)	FC Date	%	Submit safety basis documents that allow for additional equipment (e.g., 242-Z Tanks) to be left in place for removal during demolition.	10/31/15	99	Identify and pre-rig equipment with lifting slings.	12/31/15	50	Apply fixative to internals of equipment intended to be removed during demolition to contain contamination.	Ongoing	N/A
				Mitigation action(s)	FC Date	%										
				Submit safety basis documents that allow for additional equipment (e.g., 242-Z Tanks) to be left in place for removal during demolition.	10/31/15	99										
Identify and pre-rig equipment with lifting slings.	12/31/15	50														
Apply fixative to internals of equipment intended to be removed during demolition to contain contamination.	Ongoing	N/A														
Mitigation Assessment: Safety basis documentation on track to complete by November month end.																
At this time no alternative course of actions needed.																
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)																
FY2016 Risk Triggers (Risk could be realized in FY2016)																

Risk Title Risk Owner	Unmitigated Risk Impacts	Assessment		Comments		
		Month	Trend			
RL-0011/WBS-011.05.C3 (CAP.2)						
PFP-DEMO-05: Inclement Weather	Inclement weather, including moderate winds, low or high temperatures and thunderstorms will impact the demolition of PFP. Risk Handling Strategy: Accept Probability: Low (10% to 25%) Worst Case Impacts: \$0K, 66 days *Cost increase will result in cost per day impacts from crews, and hotel load.	●	↔	Risk Trigger: During pre-demolition/demolition activities in FY2016. Dates tracked in the FES.		
				<table border="1" style="width: 100%;"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>None identified at this time.</td> <td>N/A</td> <td>N/A</td> </tr> </tbody> </table> <p>Mitigation Assessment: The mitigation strategies have been put in place, as a result, the risk strategy is to accept with no further mitigation actions identified at this time. PFP will continue to develop work plans to incorporate required controls. At this time no alternative course of actions needed.</p>	Mitigation action(s)	FC Date
Mitigation action(s)	FC Date	%				
None identified at this time.	N/A	N/A				
Unassigned Risks (Pending ownership of identified risks/opportunities)						
No unassigned risks identified in the month of October .						

Critical Path Schedule

The critical path for this project runs through PFP non-capital asset activities. Following adjustments to the PRF Canyon characterization schedule in September, the new PFP Critical Schedule Path to slab on grade and completion of the RL-0011.C2 capital asset project flows through the 234-5Z duct level and filter box removal, then to the final focused decontamination throughout 234-5Z. This leads into 234-5Z Cold & Dark and Ready for Demo, allowing demolition of 234-5Z and attached facilities to commence. Once demolition is complete, stabilization of the PFP site is performed to reach the final Tri-Party Agreement milestone – M-083-00A - *PFP Facility Transition and Selection Disposition Activities*; after which CD-4 activities to close out the RL-0011.C2 project will be performed.

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

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M-083-44A	Complete Significant Progress on Deactivation & Removal of 208 GB's and Disposal of all 236-Z Pencil Tanks	09/30/15		9/30/15	Complete
M-083-00A	PFP Facility Transition and Selection Disposition Activities	09/30/16		1/3/17	Stop works associated with Pemaire breathing air suits/hoses in support of in-situ size reduction efforts caused the Tri-Party Agreement milestone date to slip. As the PFP Project continues to make progress on the behind schedule critical path work scope being performed it is anticipated that efficiencies will be recognized to bring the schedule into alignment with a completion date of September 30, 2016. However, this Tri-Party Agreement completion is currently at risk of meeting the September 30, 2016 commitment date.

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None identified at this time.