

Monthly Performance Report

November 2014

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

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



CH2MHILL

Plateau Remediation Company

P.O. Box 1600

Richland, Washington 99352

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APPROVED

By Ashley R Jenkins at 9:09 am, Jan 06, 2015

Release Approval

Date

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J. A. Ciucci
President and Chief
Executive Officer

Monthly Performance Report

U.S. Department of Energy Contract,
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November 2014
CHPRC-2014-11, Revision 0

CONTENTS

EXECUTIVE SUMMARY.....	2
TARGET ZERO PERFORMANCE.....	4
KEY ACCOMPLISHMENTS	6
MAJOR ISSUES.....	6
EARNED VALUE MANAGEMENT	7
FUNDING ANALYSIS	8
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)

EXECUTIVE SUMMARY

- During November 2014, employees completed additional safe and compliant work across CH2M HILL Plateau Remediation Company projects.
- The Plutonium Finishing Plant (PFP) Closure Project team made a significant achievement during the month of November, with the separation of the last glove box from ventilation in 234-5Z, the main plutonium processing portion of the facility. Work to disposition gloveboxes, pencil tanks and other processing equipment continued in other parts of the facility.
- The Soil & Groundwater Remediation Project (S&GRP) brought online three extraction wells to serve the 100-KX Pump and Treat facility. Drilling of the second of two new extraction wells for the uranium plume is well underway; the well should be finished in December. The project also completed four of five road crossings to support the new uranium extraction wells by completing concurrent CHPRC and RL review of the 90 percent design package for the 200 West Pump and Treat facility RAD building modifications.
- The Decommissioning, Waste, Fuels & Remediation Services (DWF&RS) project made continued progress on the Sludge Treatment Project (STP) in November. The project completed final factory acceptance testing for hose-in-hose transfer line components. These will become part of the system to transfer sludge from the basin to the loading boxes in the 100 K Annex.



A PFP employee cutting piping associated with gloveboxes uses a saw inside a plastic enclosure to limit the spread of contamination.



Examples of hose-in-hose transfer lines that will be used to move sludge.

- The President's Zero Accident Council (PZAC) meeting for November 2014 was hosted by the Safety, Health, Security & Quality (SHS&Q) organization. The three main themes for the meeting were:
 - o Holiday Fire Precautions
 - o Situational Awareness
 - o Winter Safety Campaign

The November PZAC highlighted common problems encountered during the holiday season and winter weather. The first presentation highlighted the proper way to fry a turkey in order to keep the holiday dinner jolly and avoid a sleigh ride to the hospital. Cold weather protection for facilities was discussed, including how to develop a seasonal plan and prepare for a winter wonderland.

A presentation on winter safety applied cold weather protection to the worker, including effective communication tools such as a badge card with pertinent reminders and a checklist suitable for checking twice to properly prepare for polar precipitation.

The remainder of the PZAC meeting including updates and announcements on core programs and topics:

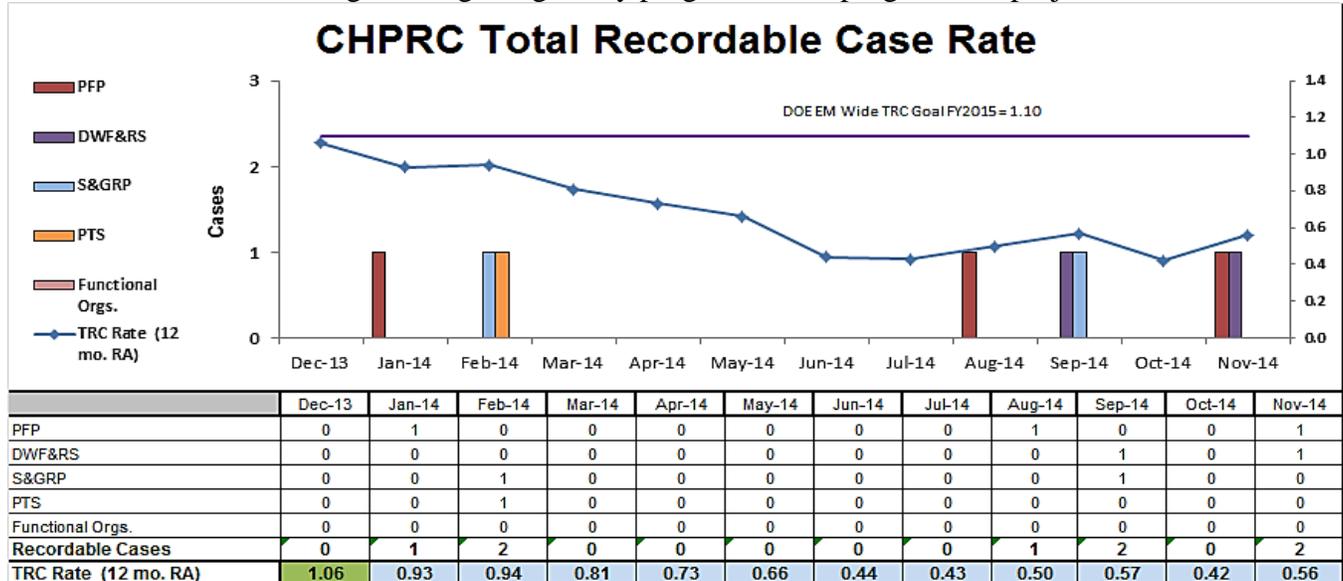
- o A report describing the lessons learned from an injury where an employee lost his balance and dislocated his shoulder
- o An Environmental Management Presentation on keeping the holidays green through recycle and reuse strategies
- o VPP update highlighting employee involvement actions when the weather gets frosty
- o Injury and illness performance review
- o Good News Stories highlighting a work crew who used cooling shelters to aid workers during the summer and worker community efforts in the "After School Matters" outreach project that emphasizes building relationships between young people and adults through academic tutoring, homework assistance, mentoring and physical fitness development
- o An Ethics Share on preventing injury and damage by following CHPRC procedures and Washington State law with regard to unattended running vehicles
- o Stretch and Flex
- Four "Thinking Target Zero" (TTZ) bulletins were published in November to convey important occupational safety, health and environmental messages:
 - o Securing Loads
 - o Waste Regulations
 - o Winter Driving
 - o VPP Worksite Analysis and Hazard Prevention
- *Weekly Safety Tailgate* briefing packages in November communicated relevant topics and safety information to the workforce. The *Tailgate* for the week of November 17th was devoted to hand and finger injury prevention, featuring common hazards, recent CHPRC injuries, and effective preventative measures and techniques. Other topics for November included:
 - o Changes to CHPRC's Labor Charging Policy
 - o Hardhat Recycling
 - o Upcoming Changes to the Ergonomics Procedure
 - o Return to Work Process
 - o Electrical Safety Reminders
 - o Conex Box Markings for Beryllium Assessments and Characterization
 - o Airbag Recall
 - o Medical Surveillance Examinations



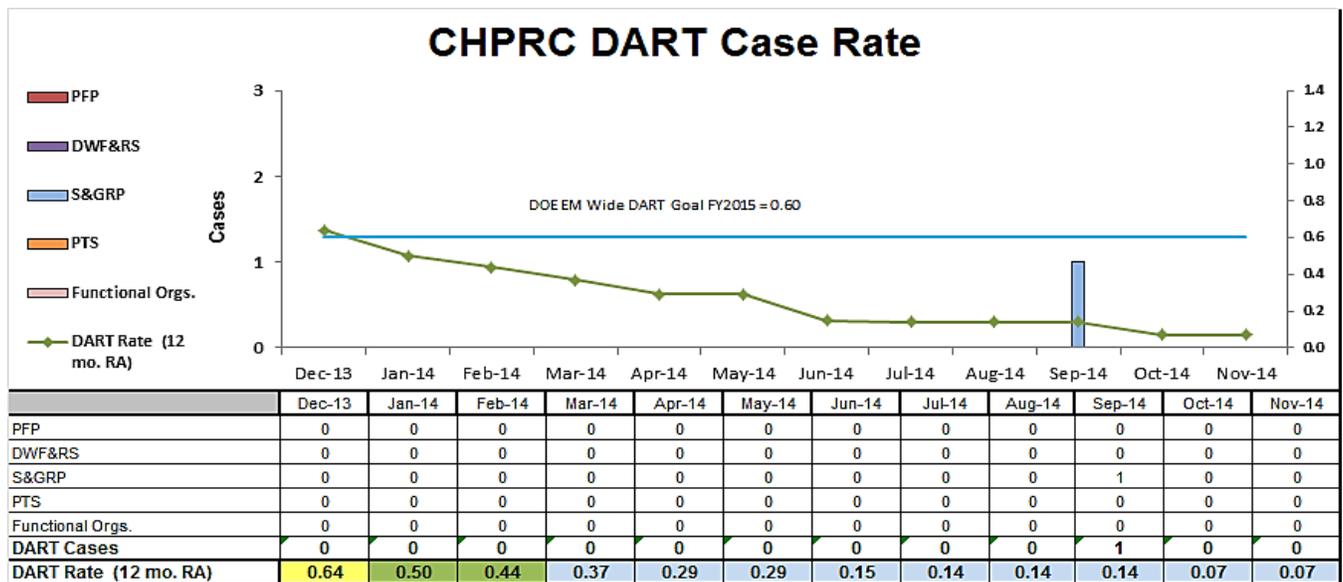
- o Exposure Monitoring Notification Letters
- o Proper Placement for Wearing Dosimeters
- o Safety 24/7 During the Holidays
- o “What Would You Do?” Ethics Awareness messages
- o Injury/Illness Summaries and the TTZ of the week
- November Weekly Updates featured blogs addressing the CHPRC Customer Legacy and Key Performance Goals. Rick Millikin, Vice President of Prime Contract & Project Integration (PC&PI), announced CHPRC’s FY2015 Key Performance Goals (KPGs). The goals, which highlight critical activities across CHPRC Projects, help guide our performance in the areas of safety, regulatory compliance, and contract management. Moses Jaraysi, Vice President of Environmental Programs & Strategic Planning (EP&SP), summarized CHPRC’s Customer Legacy progress in pioneering the strategy for risk mitigation and cleanup, with a commitment that focuses on safety, efficiencies and being a good steward of taxpayer dollars. This vision charts the course for:
 - o Mitigating critical risks and legacy issues at deteriorating facilities
 - o Providing regulatory path for WESF capsules extended storage
 - o Enhancing compliance systems, and
 - o Achieving critical regulatory decisions
- The November Kudos Corner recognized individuals who made a significant contribution to safety at work, home or play:
 - o A team of CHPRC employees who supported the Hanford Waste Treatment Plant contractor in performing a VPP self-assessment.
 - o A HAMTC Safety Representative who led an effort to mitigate employee concerns about asbestos by keeping communication channels open during demolition of a construction complex.
 - o During set-up at a local hotel for an all-employee meeting, an Information Specialist identified and corrected the hotel’s practice of daisy-chaining power strips.
 - o A team performing cleanup during the summer at an outdoor facility beat the seasonal heat by setting up cooling shelters, thereby completing the work on schedule with an impeccable safety record.

TARGET ZERO PERFORMANCE November 2014

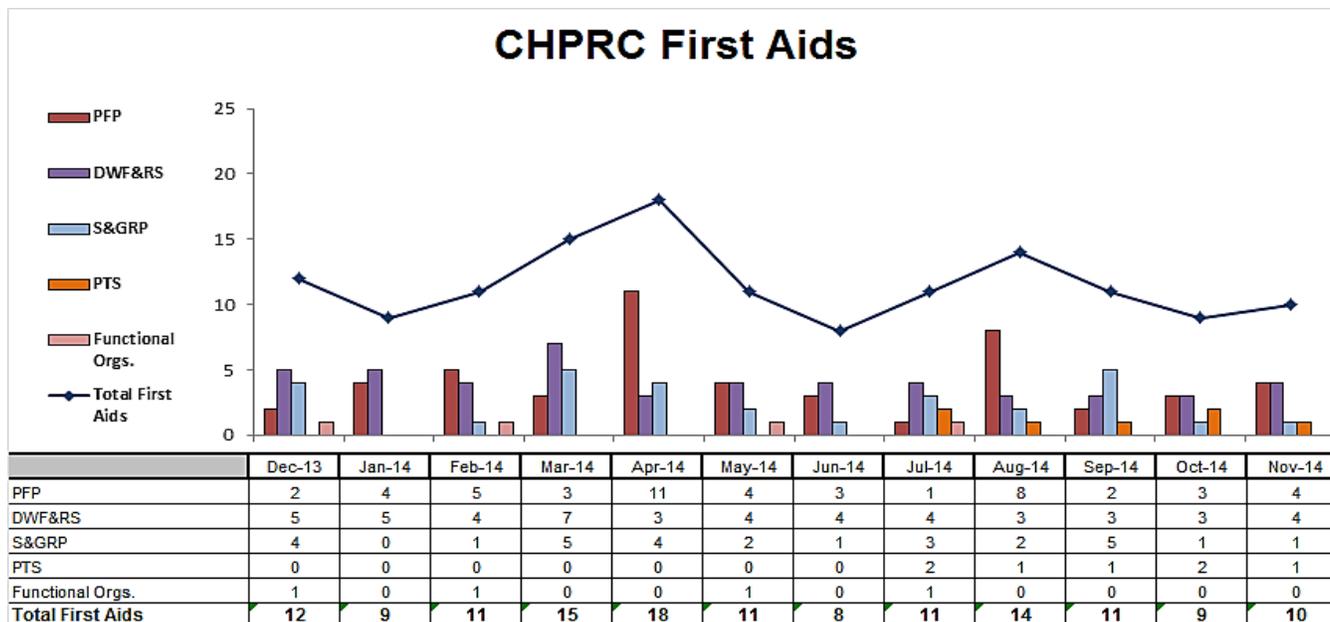
CHPRC continued focusing on integrating safety programs in all program and project areas.



Total Recordable Injury Case (TRC) Rate – The 12 month rolling average TRC rate of 0.56 is based on a total of eight Recordable injuries. There were two Recordable cases in November. There are no cases currently being evaluated/investigated for potential recordability.



Days Away, Restricted or Transferred (DART) Workdays Case Rate – The 12 month rolling average DART rate of 0.07 is based upon a total of one Days Away case. There were no DART cases in November.



First Aid Case Summary – CHPRC reported ten first-aid cases in November 2014; of these ten cases, nine cases required no treatment. There were no self-treated injuries. The contributors were seven sprains / strains / pains, two potential exposures, and one repetitive motion injury.

KEY ACCOMPLISHMENTS

Projects

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

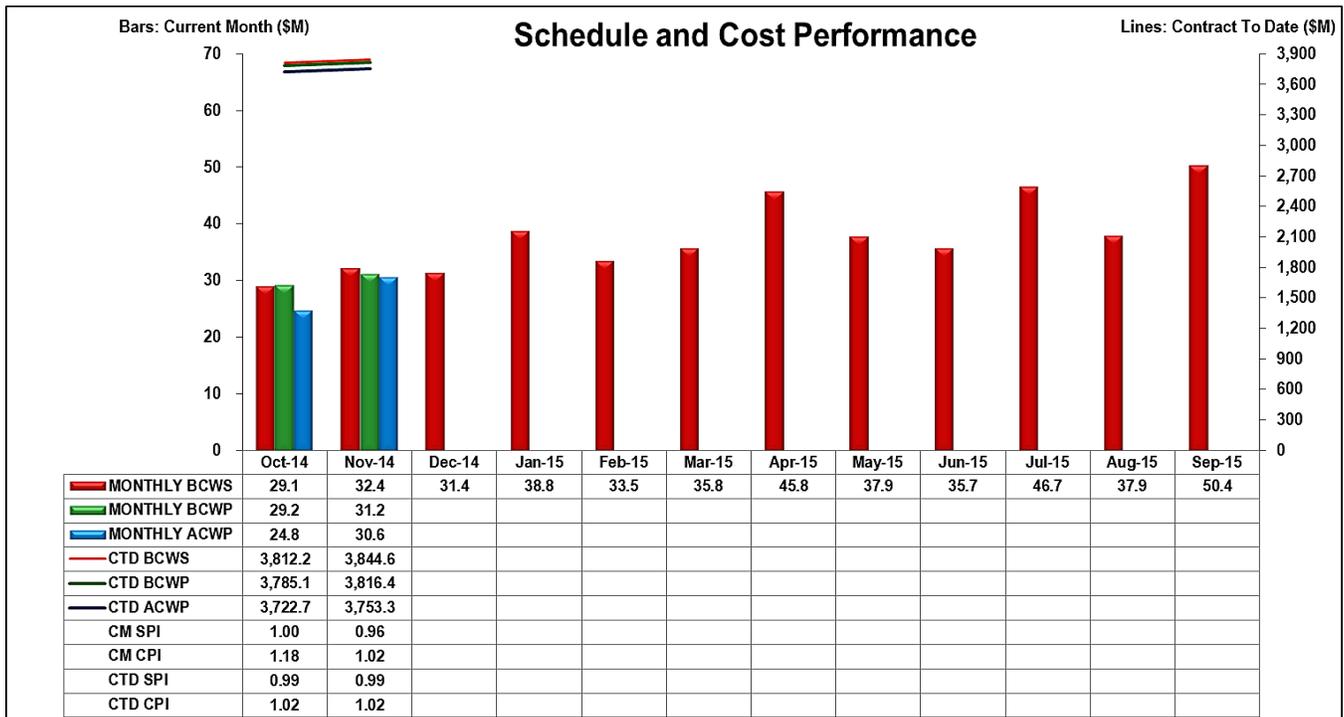
Project Services and Support

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

MAJOR ISSUES

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

EARNED VALUE MANAGEMENT



	\$M					\$M					\$M			
	Current Period					Contract to Date					Contract Period			
	Budgeted Cost		Actual Cost	Variance		Budgeted Cost		Actual Cost	Variance		BAC	EAC	Variance	
	BCWS	BCWP	ACWP	Schedule	Cost	BCWS	BCWP	ACWP	Schedule	Cost				
RL-0011 - Nuclear Materials Stab & Disp PFP	7.9	9.8	9.9	1.9	(0.0)	746.9	717.0	753.7	(29.9)	(36.7)	937.6	962.6	(25.0)	
RL-0012 - SNF Stabilization & Disposition	5.5	4.7	4.8	(0.7)	(0.1)	448.1	453.7	466.2	5.6	(12.6)	692.7	721.0	(28.3)	
RL-0013 - Solid Waste Stab & Disposition	7.2	6.6	6.4	(0.6)	0.2	892.7	893.9	857.0	1.1	36.9	1,352.7	1,262.2	90.4	
RL-0030 - Soil & Water Rem-Grndwtr/Vadose	10.5	8.5	8.2	(1.9)	0.4	1036.4	1031.4	1018.0	(4.9)	13.4	1,526.2	1,470.9	55.3	
RL-0040 - Nuc Fac D&D - Remainder	0.8	0.8	0.8	0.0	0.0	391.0	390.9	360.1	(0.1)	30.7	470.0	438.7	31.2	
RL-0041 - Nuc Fac D&D - RC Closure Project	0.3	0.5	0.4	0.2	0.1	311.0	311.1	283.0	0.1	28.1	394.7	364.9	29.8	
RL-0042 - Nuc Fac D&D - FFTF Project	0.2	0.2	0.1	(0.0)	0.1	18.4	18.4	15.2	(0.0)	3.2	26.6	20.1	6.5	
(Numbers are rounded to the nearest \$0.1M)	Total	32.4	31.2	30.6	(1.1)	0.6	3,844.6	3,816.4	3,753.3	(28.2)	63.1	5,400.4	5,240.5	159.9

Performance Summary

CHPRC continues to track completion of contract scope within budget and is currently projecting a Variance at Completion of \$159.9 million with \$78.4 million of Management Reserve for a total positive variance of \$238.3 million.

For November, the project was 3.5 percent behind schedule and 2 percent under planned cost. For FY2015, the project was 1.6 percent behind schedule and 8.2 percent under planned cost. The unfavorable schedule variance in November was primarily due to delay in approval of the 100-NR-2 cultural and ecological resource reviews for the barrier expansion and jet injection activities that caused

this scope to be deferred. The favorable cost variance is due to planned efficiencies experienced in multiple projects.

FUNDING ANALYSIS

FY2015 Funds vs. Fiscal Year Spend Forecast (\$M)

PBS	Project	FY2015		Variance
		Projected Funding	Spending Forecast	
RL-0011	Nuclear Materials Stabilization and Disposition	118.4	114.2	4.2
RL-0012	Spent Nuclear Fuel Stabilization and Disposition	81.7	77.7	4.0
RL-0013	Waste and Fuels Management Project	86.6	83.9	2.7
RL-0030	Soil, Groundwater and Vadose Zone Remediation	137.8	136.9	0.9
RL-0040	Nuclear Facility D&D, Remainder of Hanford	12.5	12.4	0.2
RL-0041	Nuclear Facility D&D, River Corridor	6.8	6.3	0.4
RL-0042	Fast Flux Test Facility Closure	1.4	1.3	0.1
Total Base:		445.1	432.6	12.5

Funds/Variance Analysis:

FY2015 expected funding did not change in November, and remains at \$445.1 million. The Spending Forecast includes actions anticipated to achieve the funding targets.

BASELINE CHANGE REQUESTS

In November 2014, CHPRC approved and implemented twelve (12) BCRs impacting the PMB. The Change Requests are identified in the table below:

Change Request #	Title	Summary of Change
Implemented into the Earned Value Management System		
BCR-012-15-002R0	<i>Convert STSC Planning Package to Work Package</i>	This BCR modifies baseline activity 12.16.02.05.0010C – Containerized Sludge - Procurement of Transportation System (STSCs) from a Planning Package (PP) into detailed Work Packages (WP) based upon award of the STSC vessel contract which provided a detailed schedule for execution of the work. This BCR did not change the PMB value.
BCR-013-15-001R0	<i>CO # 263, ERDF Transfer Pipeline Construction</i>	This BCR incorporates scope associated with Change Order (CO) 263, Environmental Restoration Disposal Facility (ERDF) Transfer Pipeline Construction, Not to Exceed (NTE) amount of \$500K authorized via Contract Modification (CM) 369. This change increased the PMB by \$500K.
BCR-030-15-006R0	<i>KR-4 Well Realignment Split</i>	This BCR modifies well realignment activities from one group of six well realignments into two distinct groups: One group includes two well realignments associated with a FY2015 performance measure and the other group includes the remaining four well realignments. This action improves the ability to monitor the scope associated with the performance measure. This BCR did not change the PMB value.

Change Request #	Title	Summary of Change
BCR-041-15-003R0	<i>Incorporate FY 2015 Performance Measures, PBS RL-041</i>	This BCR incorporates the PBS RL-0041 related portion of the Performance Evaluation Measurement Plan for Fiscal Year 2015, as identified in CM 362, to the Performance Measurement Baseline schedule. This change enables the tracking of progress towards achieving RL objectives associated with this Performance Measure. This BCR did not change the PMB value.
BCR-041-15-002R0	<i>CO #248, DOE-0342, Rev 2A, Hanford Site CBDPP Revision, PBS RL-041 Impacts</i>	This BCR incorporates DOE-RL's direction to perform additional scope under CO 248 up to a revised total NTE value of \$2.8 Million. This BCR addresses the RL-0041 portion of this scope. This change increased the PMB by \$113K.
BCR-041-15-004R0	<i>Successor Logic Adjustments for FY 2015 and Beyond, PBS RL-041</i>	This BCR adds (finish) network logic to FY2015 and beyond baseline activities that have only Start to Start (SS) successor relationships. Additionally this BCR updates the logic to and from Level of Effort (LOE) activities to ensure LOE activities do not drive discrete work scope. This BCR addresses the RL-0041 portion of this scope. This BCR did not change the PMB value.
BCR-PRC-15-011R0	<i>Incorporate FY 2015 Performance Measures</i>	This BCR incorporates the Performance Evaluation Measurement Plan for Fiscal Year 2015 as identified in CM 362, associated with PBSs RL-012, RL-013, RL-030, and RL-040 by adding new Performance Measures to the Performance Measurement Baseline schedule. This change enables tracking of progress towards achieving RL objectives associated with these Performance Measures. This BCR did not change the PMB value.
BCR-PRC-15-005R0	<i>CO #242, DOE O 420.1C, Facility Safety</i>	This BCR incorporates scope associated with CM 342, which partially definitizes CO 242, Addition of Contractor Requirements Documents (CRD) 0 420.1C (Supp Rev. 0), Facility Safety. This change increased the PMB by \$175K.
BCR-PRC-15-006R0	<i>Definitization of CO#228 Activities in Support of Ecology Agreed Order</i>	This BCR incorporates scope associated with CM 370, which definitizes CO 228, Activities in Support of Ecology Agreed Order. Per the modification, this BCR also moves a portion of PBS RL-0040 waste site remediation scope from the PMB to CLIN 7 to maintain PMB alignment with the B.4-1 Table. This change decreased the PMB by \$1,215K.
BCR-PRC-15-007R0	<i>CO #248, DOE-0342, Rev 2A, Hanford Site CBDPP Revision</i>	This BCR incorporates DOE-RL's direction to perform additional scope under CO 248 up to a revised total NTE value of \$2.8 Million. This BCR addresses Direct (excluding PBS RL-0041) and Non direct scope. This change increased the PMB by \$691K.
BCR-PRC-15-010R0	<i>Undistributed Budget Adjustments November 2014</i>	This BCR establishes Undistributed Budget (UB) per the Project Control System Description (PCSD), CHPRC-00003 Revision 9, approved October 13, 2014. This change increased the PMB by \$7,282K.
BCR-PRC-15-012R0, Successor Logic Adjustments for FY 2015 and Beyond	<i>BCR-PRC-15-012R0, Successor Logic Adjustments for FY 2015 and Beyond</i>	This BCR adds (finish) network logic to FY 2015 and beyond baseline activities that have only Start to Start (SS) successor relationships. Additionally this BCR updates the logic to and from Level of Effort (LOE) activities to ensure LOE activities do not drive discrete work scope. This BCR addresses all PBSs, excluding RL-0041. This BCR did not change the PMB value.

Overall, the contract Performance Measurement Baseline budget increased \$7,545K.

Management Reserve Activity

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

There were no changes to Management Reserve during November.

Fee Activity

BCR Number	Title	Fiscal Year	Fee
BCR-PRC-15-005R0	CO #242, DOE O 420.1C, Facility Safety	2014 - 2018	\$21K

Overall, Fee increased by \$21K during November.

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

November 2014 Summary of Changes

	FYs 2009-2013	FY2014	FY2015	FY2016	FY2017	FY2018	FYs 2014-2018	Contract Period Total	Total PMB
<i>October 2014 Estimate</i>									
PMB	3,391,477	391,653	451,711	430,630	362,660	364,679	2,001,333	5,392,809	5,392,809
MR	0	0	6,285	21,000	20,506	30,649	78,440	78,440	78,440
Fee	155,504	14,325	13,480	19,800	8,800	16,573	72,978	228,482	228,482
Total	3,546,981	405,978	471,476	471,430	391,966	411,901	2,152,751	5,699,731	5,699,731
<i>November 2014 Change</i>									
PMB									
Change to PMB	0	0	3,671	8,426	-5,190	638	7,545	7,545	7,545
MR									
Change to MR	0	0	0	0	0	0	0	0	0
Fee									
Change to Fee	0	0	21	0	0	0	21	21	21
Total Change	0	0	3,692	8,426	-5,190	638	7,566	7,566	7,566
<i>November 2014 Estimate</i>									
PMB	3,391,477	391,653	455,382	439,056	357,470	365,316	2,008,878	5,400,354	5,400,354
MR	0	0	6,285	21,000	20,506	30,649	78,440	78,440	78,440
Fee	155,504	14,325	13,501	19,800	8,800	16,573	72,999	228,503	228,503
Total	3,546,981	405,978	475,168	479,856	386,776	412,539	2,160,316	5,707,297	5,707,297

Changes to/Utilization of Management Reserve in November 2014

	FY2009-2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2014-2018	Total
<i>October 2014 MR Totals</i>								
RL-0011	0	0	1,052	8,000	8,000	0	17,052	17,052
RL-0012	0	0	2,000	3,000	5,000	3,897	13,897	13,897
RL-0013	0	0	1,000	2,000	800	6,824	10,624	10,624
RL-0030	0	0	832	3,000	2,006	8,828	14,666	14,666
RL-0040	0	0	700	1,500	1,800	4,000	8,000	8,000
RL-0041	0	0	600	3,450	2,800	7,000	13,850	13,850
RL-0042	0	0	100	50	100	100	350	350
Total	0	0	6,284	21,000	20,506	30,650	78,440	78,440
<i>November 2014 MR Changes/Utilization</i>								
RL-0011	0	0	0	0	0	0	0	0
RL-0012	0	0	0	0	0	0	0	0
RL-0013	0	0	0	0	0	0	0	0
RL-0030	0	0	0	0	0	0	0	0
RL-0040	0	0	0	0	0	0	0	0
RL-0041	0	0	0	0	0	0	0	0
RL-0042	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0
<i>November 2014 MR Totals</i>								
RL-0011	0	0	1,052	8,000	8,000	0	17,052	17,052
RL-0012	0	0	2,000	3,000	5,000	3,897	13,897	13,897
RL-0013	0	0	1,000	2,000	800	6,824	10,624	10,624
RL-0030	0	0	832	3,000	2,006	8,828	14,666	14,666
RL-0040	0	0	700	1,500	1,800	4,000	8,000	8,000
RL-0041	0	0	600	3,450	2,800	7,000	13,850	13,850
RL-0042	0	0	100	50	100	100	350	350
Total	0	0	6,284	21,000	20,506	30,650	78,440	78,440

SELF-PERFORMED WORK

Business structure information documents ongoing compliance with the requirements of the Contract Section H.20 clause entitled *Self-Performed Work*.

Contract-to-Date Actual Awards & Mods 10/1/2008 - 11/30/2014				Projection to FY2018	
Reporting Category				Planned Subcontracting:	\$2,406,850,560
				Contract-to-date awards:	\$2,161,682,231
				Bal remaining to award:	\$245,168,329
	\$ Value	%	Goal %	Goal award\$	Bal to Goal
SB	\$1,089,878,676	50.42%	49.3%	\$1,186,577,326	\$96,698,650
SDB	\$189,488,054	8.77%	8.2%	\$197,361,746	\$7,873,691
SWOB	\$213,337,788	9.87%	7.5%	\$180,513,792	-\$32,823,996
HUB	\$36,726,803	1.70%	2.2%	\$52,950,712	\$16,223,910
VOSB	\$127,064,034	5.88%	3.5%	\$84,239,770	-\$42,824,264
SDVO	\$62,096,664	2.87%	1.3%	\$31,289,057	-\$30,807,607
NAB	\$31,211,068	1.44%	N/A	PRC clause H.20 small business requirement ≥ 17% of total Contract Price performed by SB.	
Large	\$582,943,196	26.97%	N/A		
GOVT	\$2,177,152	0.10%	N/A		
GOVT CONT	\$482,866,522	22.34%	N/A		
EDUCATION	\$96,218	0.00%	N/A	Total Contract (mod 375):	\$5,696,680,278
NONPROFIT_	\$3,424,621	0.16%	N/A	17% rqmt:	\$968,435,647
FOREIGN	\$295,845	0.01%	N/A	SB actual:	\$1,089,878,676
Total	\$2,161,682,231	100.00%	N/A	Bal to rqmt	-\$121,443,028

Notes:

1. Since the CHPRC contract award in October 2008, CHPRC has subcontracted over \$2.1 billion in goods and services with over 50 percent going to small businesses. Nearly all subcontracting goals have been exceeded.
2. Approximately 93 percent of the total dollars arise from service and staffing contracts and contract amendments with five percent of the remaining expenditures arising from P-Card purchases and the balance in purchase orders for materials and equipment.
3. Data is summarized by business categories (Women Owned Minority Business Enterprise codes) in accordance with socioeconomic reporting requirements. Small business categories overlap and should not be added together.

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

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

Section A

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



J. M. Swartz
Vice President for
PFP Closure Project

November 2014
CHPRC-2014-11, Rev. 0
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PROJECT SUMMARY

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

<i>Key Performance Indicators</i>	<i>Current Month</i>	<i>Contract To Date</i>
Glovebox/ Hood Removed or Dispositioned in Place	1	214 gloveboxes/hoods
KPP Rooms/Areas Ready for Demo	-	60 rooms/areas
Asbestos/ACM Removed	-	17,741 feet
Process Vacuum Piping Dispositioned	-	2,545 feet
Process Transfer Line Dispositioned	-	1,153 feet
Pencil Tank Units Removed	6	157 pencil tank units
Buildings Ready for Demo	-	40 structures
Buildings Demolished or Removed	-	40 structures
Non-radioactive Waste Shipped	-	43 m ³
TRU/TRU-M Shipped	29 m ³	1,447 m ³
LLW/MLLW Shipped	84 m ³	6,014 m ³

Removal of plutonium-contaminated process equipment continued, with a particular focus on removing gloveboxes, associated piping, and ductwork. The total gloveboxes removed to date is at 90 percent complete.

- Completed implementation of Revision 10 of the Plutonium Finishing Plant (PFP) Deactivation and Decommissioning Documented Safety Analysis (DSA)
- Completed final cleanout, removed from E4 Ventilation, and applied fixative to HC-9B glovebox in 234-5Z. This completed removal from E4 ventilation for all 174 KPP gloveboxes in support of the PFP RL_011_C1 Capital Asset Project.
- Stabilized Pencil Tanks associated with HC-6 glovebox in 234-5Z Backside Rooms
- Completed disposition of 236-Z PRF Pencil Tanks 10, 12, and 30/33 (12 Units)
- Completed size reduction and seal out of 236-Z Pencil Tanks 10, and 21/22 (6 Units)
- Completed Miscellaneous Treatment (MT) MT-4 Glovebox grout removal and separations. MT Glovebox isolation work from E4 Ventilation is now complete.
- Erected scaffolding in 234-5Z duct level to support asbestos removal activities
- Removed 15 feet of E4 Ducting in 234-5Z duct level

EMS Objectives and Target Status

Objective #	Objective	Targets	Actions	Due Date	Status
15-EMS-PFP-OB1-T1	Reduce/eliminate potential contaminated effluents (air and liquid) from PFP complex	1. Remove material at risk to reduce potential air emissions. 2. Reduce/eliminate contaminated liquid effluents.	1. Evaluate the percent reduction of potential emissions compared to the PTE in the RAWP archived due to removal of material at risk completed by the end of January 2015	02/16/15	0%
			2. Evaluate the percent reduction of potential emissions compared to the PTE in the RAWP archived due to removal of material at risk completed by the end of August 2015	09/15/15	
			3. Eliminate contaminated waste water streams and shut down 243-Z treatment facility (includes 296-Z-15 stack)	09/30/15	

TARGET ZERO PERFORMANCE

	Current Month	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	0	N/A
Total Recordable Injuries	1	3	<ul style="list-style-type: none"> 11/3/14 – Employee had finger crushed between door panels of roll up door on conex box. Employee was taken to Kadlec Medical Center and received 5 stiches (23508).
First Aid Cases	4	50	<ul style="list-style-type: none"> 11/4/14 – Employee reported pain in left wrist and was taken to HPMC. Employee diagnosed with wrist sprain/strain. And released to return to work with restrictions - no gripping and lifting over 5 pounds with left hand and limited gripping with both hands (23522). 11/14/14 – Employee felt pain in shoulders after operating a “German Saw”. Employee taken to HPMC and returned to work with no restriction (23519). 11/18/14 – Employee reported an injury after operating a “German Saw” in glovebag containment. The employee was taken to HPMC and diagnosed with strain/sprain to upper/middle back. Employee returned to work with restriction to avoid repetitive strenuous activities as tolerated. 11/24/14 – Employee felt pain in lower back after putting water bottle on water dispenser. Employee taken to HPMC and returned to work with no restriction (23524).
Near Misses	0	0	N/A

KEY ACCOMPLISHMENTS

11.02 Maintain Safe & Compliant PFP

- Completed implementation of Revision 10 of the Plutonium Finishing Plant (PFP) Deactivation and Decommissioning Documented Safety Analysis (DSA).
- Initiated implementation of Revision 11 annual update of the Plutonium Finishing Plant (PFP) Deactivation and Decommissioning Documented Safety Analysis (DSA), and Revision 11 of the PFP Technical Safety Requirements (TSRs).

11.05 Disposition PFP Facility

242-Z

- Completed Hot Tapping of Process Lines
- Inspected Mezzanine Chemical Tanks
- Began Mechanical Isolation and Draining of Internal Piping
- Began Size Reduction and Removal of WT-3 Glovebox located in the 242-Z Control Room.

234-5Z

- RMC Line
 - Completed final cleanout, removed from E4 Ventilation, and applied fixative to HC-9B.
- Backside Rooms
 - Stabilized Pencil Tanks associated with the HC-6 glovebox
 - Prepared HC-6 for separation from E4 ventilation
- Duct Level
 - Erected scaffolding in 234-5Z duct level to support asbestos removal activities
 - Removed 15 feet of E4 Ducting in 234-5Z duct level

236-Z Plutonium Reclamation Facility (PRF)

- Pencil Tanks
 - Completed disposition of 236-Z PRF Pencil Tanks 10, 12, and 30/33 (12 Units)
 - Completed size reduction and seal out of 236-Z Pencil Tanks 10, and 21/22 (6 Units)
- Miscellaneous Treatment (MT) Gloveboxes
 - Completed MT-4 Glovebox grout removal and separations. MT Glovebox isolation work is now complete

MAJOR ISSUES

Issue – Hazards associated with utilization of a foaming agent for fixing contamination in gloveboxes result in an exothermic reaction that could cause a self-ignition - When polyurethane foams react, the result is in an exothermic reaction that could cause a self-ignition. To understand the potential impacts of fire concerns, two densities of fire retardant foam were evaluated (2lb; 6lb) at Southwest Research Institute (SWRI). The Hughes Associates Inc. (HAI) report recommended that a single large volume pour test be performed to fully understand the potential for self-ignition events. CHPRC/PFP has determined that this test is not necessary.

The following, not related directly to the exothermic reaction, are general fire concerns with polyurethane type foam:

1. The foam products previously tested represent a significant fire hazard. Even with the fire retardants added, the foam will be consumed in a fire event. The HAI report recommended that foamed gloveboxes be protected from exposure to fire with non-combustible materials.
2. In addition to the fire hazard, the foam products produce a significant quantity of soot when burned.

3. As a result of the HAI report, RL is recommending that other, non-combustible products be evaluated.

Corrective Action – PFP has evaluated a non-polyurethane foaming material. During the month of June a vendor placed two different foams into the PFP mock-up glovebox. Evaluations during the demonstration reduced the concerns with any off gassing and exothermic reactions. Evaluations of the foam the next day indicated a slight shrinkage of the foam inside the mockup. Evaluation and testing at the vendor facility during June and July indicated the settling could be resolved by utilization of a screw dispersal pump. A demonstration with a screw dispersal pump was completed in August. During the month of September Southwest Research Institute (SWRI) submitted the final report confirming the foam is nonflammable. In September, size reduction of the three demonstration glovebox sections commenced.

Status – The report has been issued to DOE. This is the last month that this issue will be reported on in the monthly report.

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

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

Status – The team is continuing to evaluate material form and distribution aspects of accident scenarios, as necessary for developing more accurate and reasonable accident consequences. A meeting was held with DOE the week of December 8, 2014, and pending no resolution of major comments, CHPRC is on track to meet DOE-RL requirements for an April 2015 approval of this document. Accomplishments include:

- Hazard Analysis provided to DOE-RL for review and comment.
- Accident Analysis in peer review
- Control Selection Document in-process.
- Technical Safety Requirement revision in-process

Issue – Current Non Destructive Analysis (NDA) Equipment is not providing adequate information to assist in reducing the Material at Risk values at PFP

Corrective Action – Three independent systems have been procured to assist in safeguards measurements. One is an Ortec System, which is a hand-held NDA measurement tool; the second and third are Canberra Germanium Counters that are currently being calibrated.

Once both systems have been calibrated and are approved by safeguards a few of the applications these systems could be used for are:

- Ortec System – 242-Z Tank Room tanks, PRF Canyon floor and walls, 291-Z Plenum.
- Canberra Systems – Trenches, 242-Z Tank Room tanks, 291-Z Stack. A dedicated system could also be placed in the A-Labs area to deal specifically with 242-Z waste.
- Once the Ortec and Canberra systems are approved for safeguards measurements they could be utilized to assay waste at the point of generation versus funneling everything through RADTU.

Status –

- Ortec system - Writing and validation of the calibration and operating procedures is ongoing. Comments have been given to the independent NDA consultant for incorporation. The collimator is expected to be delivered the week of December 15 after which calibration of the

- Ortec instrument will commence.
- Canberra systems – Calibration verification is continuing. Measurement of the standards will be completed the week of December 15, 2014.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

 Response Plan Effective
 Response Plan Partially Effective
 Response Plan Not Effective

 Increased Confidence
 No Change
 Decreased Confidence

Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
RL-011/WBS 011				
Overarching PFP Risks				
PFP-080 – Unforeseen Chemical Hazards	CHPRC completed investigations and identified potential lines that contain chemical hazards. CHPRC believes this to be an imminent safety hazard and, as such, has and continues to take actions to mitigate the immediate hazard. Continue to collect data and take photographs to document actions and conditions.			Notice of Change letter transmitted to DOE on February 13, 2013. Investigation completed in the month of March 2013. Issue Change Order 240, Mitigation of Chemical Lines at PFP was received by CHPRC on October 7, 2013, with a limitation not to exceed \$500K prior to the definitization of the change. A formal change proposal has been developed, formally submitted to RL and discussions are ongoing with RL on the definitization of the change. Although there are still many chemical lines to be drained/removed proper mitigation actions have been placed in work packages to ensure chemical lines are completely evaluated/characterized, and reviewed with field teams prior to actual field work. This risk will no longer be reported against, and monitored internal to the projects.
PFP- 079 – Extend Respiratory Protection Time & Operating Efficiencies	Establishing expectations and behaviors that streamline the shift/pre-job briefings, dress/undress times to allow for additional on-tool time and achieve 2-entries per day. Monitor stay-times and work patterns to establish efficiency increases to 2.5 hours per entry. Achieve consistency in work package preparation to minimize down-time.			Negotiations were successful to extend respiratory protection time with the ratification of the Collective Bargaining Agreement effective November 11, 2013. The PFP project has implemented extended dives since implementation of the agreement, and longer stay times in the field are being realized. Continuing to implement Breakthrough Initiative number 1, Tool Time actions, and have developed tracking tools to monitor employees' time backside on a daily/weekly basis. 242-Z and PRF Project are consistently being successful in two dives per day averaging three hours each. The ETC is reflecting this as these efficiencies and positive changes in remaining duration are being reflected in the Field Execution Schedules.
PFP-086: Alternate/Temporary System Capabilities Required Prior to Building Demolition	Management Reserves may be required to acquire equipment and services to provide the required alternate temporary facility system services and functions during demolition preparation. Identify MAR that may remain and identify CHPRC and DOE decision points to deactivate ventilation and fire systems. Evaluate air flow and required air changes to minimize contamination spread and establish air flow utilizing existing ducting to the extent practical with air movers and HEPA filtration through existing stack and monitoring.			Alternate temporary facility system services and functions beyond those currently planned may be required to support building demolition. Currently identifying MAR that may remain and identifying CHPRC and DOE decision points to deactivate ventilation and fire systems. Evaluating air flow and required air changes to minimize contamination spread and establish air flow utilizing existing ducting to the extent practical with air movers and HEPA filtration through existing stack and monitoring. Support staff continues to evaluate segregation of 234-5Z. An estimate was received in the month of November, but did not include temporary electrical power cost. The temporary electrical estimate is estimated to be complete December, 2014. This delay does not impact filed activities, and cost/schedule forecasts will be updated to reflect temporary system capability estimates.

Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
RL-011/WBS 011				
PFP-091: Approval of DSA Revisions	A team of professionals has been assembled to develop the DSA revision to support open air demolition of a Hazard Category II PFP. This effort will be managed as an independent project from PFP daily activities. A partnering approach will be established with RL SMEs and management to expedite the effort and flush out concerns or obstacles early on. This risk is a bounding assumption associated with completion of PFP to Slab-On-Grade.			Staff is in place to support development of Revision 12 of the DSA. Revision 10 has been approved by DOE, and is fully implemented. Revision 11 has been approved by DOE and is on track for implementation by January 6, 2015. Development of Revision 12 to the DSA is currently focused on completion of Control Selection and the Accident Analysis. This is on track to be ready for peer review early December. Comments on the paper addressing revised ARF*RF values have been received and are being evaluated. It is expected that the revised ARF*RF will be released early December. Submittal of the DSA/TSR will be delivered to RL January, 2015. Delays were encountered due to incorporating RL's request to step-out of confinement ventilation upon approval by RL. To ensure no additional slips OT will be utilized, and is reflected in the cost/schedule forecasts. It is expected that Revision 12 will be implemented late-June 2015, with no additional controls enforced.
PFP-092: Increased Characterization	Events at the facility may increase the need for characterization above what is planned for cost and schedule.			Characterization results for 234-5Z Duct Level have shown that some ducting may remain in place with appropriate mitigation (e.g. isolation, fixative application, etc.). However, the data shows that a large amount of the pre-filter box duct will need to be removed prior to demolition. Current results provide valuable information that will alter our approach to ductwork characterization. Going forward the project will implement a more targeted approach by coupon sampling to determine duct removal to points in the system where coupons may begin to show lower activity, which would indicate no further removal would be required. This differs from the previous approach of mapping the system to determine the amount of material-at-risk in duct segments to determine mitigation and waste disposition. The current approach to characterization will be to have field work teams collect coupon sample as work is being performed in their respective areas. This will ensure that real time information is received to allow the teams to effectively work on the area vs. system approach.
PFP-074: Unexpected Configuration/Conditions	Unexpected facility configuration or site conditions are encountered during Cold & Dark, or demolition activities.			As a result of a realized risk in April, work packages which have similar demister pipe removal activities were immediately suspended pending investigation and incorporation of possible corrective actions. Mitigation actions were to perform hazard analysis of systems and document them in the work package. Stop work was lifted on June 17. Hazard analysis of systems and documentation of such in work packages was implemented upon release of the Stop Work and has proven to be effective in mitigating this issue.
242-Z Risks				
PFP-242-04: Dose Rates in 242-Z are Higher Than Planned	Characterization is built into the baseline to perform characterization including dose rate maps. The characterization plan will be utilized in work planning efforts to place temporary shielding around higher dose rate components. The work team is trained to stop work when conditions exceed planning information. This will prevent overexposure and prolonged work stoppages. However, if work is stopped, an alternate plan will need to be developed. Minimal mitigation is available for unknown/newly discovered higher than planned dose rates.			The project will monitor this risk through December as work on the gloveboxes in 242-Z continues. If trending indicates that Dose Rates are going to be an issue, the project will evaluate impacts to the rest of the project and implement ALARA practices. Secondary risk may be realized when additional breathing air systems are implemented, for high dose areas, in 234-5Z, and 236-Z as the ability to maneuver work force to another subproject to reduce dose exposure will decrease. This is an ongoing effort to monitor dose rates for individuals working in high dose areas. During Calendar Year 2014, this did not become an issue. This risk will be closed in January.
PFP-242-06: More RH-TRU than Planned from 242-Z	Utilize results from radiological and analytical characterization to develop size reduction plans. Work with the waste packaging and characterization group to understand requirements for RH-TRU waste and packaging techniques to minimize RH-TRU waste.			242-Z Teams have been established and, working with PFP Waste Operations, have developed work packages which include packaging instructions on RH-TRU waste. It was reported that this risk be closed in November, but after additional discussion with the projects this risk will continue to be monitored until additional characterization is collected. No impacts during the month of November.

Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
RL-011/WBS 011				
291-Z Risks				
PFP-291-01: 291-Z Characterization Unknowns	Develop characterization plans and objectives. Review historical documentation of facility construction and accident event reports. Incorporate characterization information into facility work plans and execution documents.			Opportunities are being identified to characterize early during maintenance activities which result in allowance of some of the operating fans to be shut down. The plan of the week/day will be the communication tool to determine when early characterization can be conducted. No opportunities were identified in the month of November to characterize early.
Balance of Plant Decontamination/Decommissioning Risks				
PFP-BOP-01: More Extensive Cleanout/Decon Required	Develop and implement a more detailed process facility characterization plan. Determine and obtain approval for ready-for-demolition criteria (contamination removal/cleanup endpoints prior to building demolition). Early characterization provides an opportunity to avoid project schedule impact. Identify approvals required and quantities/materials that may be exempted from removal (i.e. floor tiles, transite, electrical, etc.).			Characterization efforts continue in the duct level following the sampling plan as developed by the Radiological Control and Environmental organizations at PFP. This effort will also be initiated in rooms/areas throughout the buildings to determine if structural items can remain in place as assumed or if decontamination or removal of structural items is needed prior to demolition. Characterization unit survey plans are being developed and will be added into work packages to support ongoing characterization throughout the ready for demolition phase of the PFP Closure Project. No change for the month of November
PFP-BOP-02: Overall D4 Schedule Impacts From Interferences Between Sub-projects	The facility has developed an integrated priority list for all in-plant activities for resource assignment in accordance with priority. PFP has developed team communication meetings to prioritize resources on a daily basis. External facility resources are prioritized through MSA between PRC subprojects. These techniques ensure the resources are assigned to the highest priority work. Identify new D&D field teams to conduct Walk-downs and Work package development to improve interfaces within subprojects.			Additional field teams have been identified to initiate work in the duct level. One additional team commenced work on the filter box removal work efforts in the month of November. Changes have been implemented to the work package development process for the development of one work package to support efforts on all E4/E3 ducting, transfer lines, 26 inch process vacuum piping, filter bank removal, etc. This will allow additional field work teams to transition to the duct level work without initiating development of further work packages.
PFP Demolition Risks				
PFP-DEMO-02: Air Modeling Increases Equipment Removal/Decontamination for Demo	Work with the CHPRC environmental team to ensure that an understanding of equipment, components, and residual material criterion are understood and bounded for air modeling. Once the residual material/contamination is quantified, work with regulators to identify controls to allow for equipment removal and demolition as planned. Develop and implement plans to document criterion are met.			The current air modeling plan is based on assumptions of what the facility conditions may be at the time before demolition. Characterization activities that are and will be performed will provide actual data that will be used in the model. Based on the model results, the project will make adjustments to its demolition approach. Field characterization survey plans are currently under development. A characterization survey plan has been developed for PFP ventilation, and field characterization of E4 ducting continue when crews are in a given survey unit. As characterization unit survey plans are developed, they will be added to work packages. The Air Dispersion Model update for 234-5Z is scheduled to finish Nov. 18, 2015; 291-Z is scheduled to finish Aug-13, 2015; 242-Z January 26, 2016; 236-Z July 06, 2015.
PFP-DEMO-18: ORR Required for PFP D4	The readiness activities scheduled in the baseline are appropriate for the risk and complexity of the PFP & PRF demolition. Ongoing discussions will be conducted with DOE and DNFSB as required within the quarterly startup notification process. Additional resources may be added for preparation and review teams.			PFP efforts to upgrade the DSA to establish requisite conditions for the deactivation of vital safety systems, evaluate the unique hazards associated with the demolition phase of the project, and establish the commensurate control set for the remaining mission will validate the appropriateness of a readiness assessment versus Operational Readiness Review (ORR). After implementation of Revision 12 of the DSA, the process of identifying ORR vs. RA will be evaluated and the need for the continuation of this risk will be assessed. No change from the month of October.

PRF Cleanout/Decontamination Risks				
PFP-PRF-01: PRF Canyon Cleanout Scope Increases	Characterization data will be collected as early as feasible to allow early identification of any issues associated with the planned approach.			Dose rate survey results were mapped on September 25th to obtain accurate dose results (unmitigated) to plan manual entries and grouting requirements. Preliminary results indicate that dose is manageable inside the canyon, and planning assumptions have been updated to reflect this data. Canyon floor grouting CSER is proceeding and scheduled completion date is March 31, 2015. Canyon clean-up is proceeding based on current plans to complete pencil tank size reduction, remove debris pile and loose debris on floor, perform floor grouting, then characterize walls and perform decontamination. The grouting evolution is expected to be initiated upon completion of Pencil Tank Size Reduction (late summer, 2015).
PFP-PRF-02: PRF Canyon Crane Reliability Issues Result in Cost/Schedule Growth	Perform necessary preventative maintenance actions associated with canyon crane and ensure appropriate spares are on site to minimize schedule impacts in the event of equipment failure. Minimize the use of the crane to the extent practical. Obtain independent assessments of the crane. In the event of a crane failure, attempt to utilize work force on other projects to minimize down-time for work force.			Canyon crane functionality monitoring is ongoing and will continue as canyon crane is currently expected to continue to function for pencil tank size reduction. Engineering will continue to monitor functionality, and make a final decision if additional FY2015 maintenance is required, but project will continue preventative maintenance activities. If crane fails, manned entries will be made to determine event. If crane fix is not immediate, work force will be diverted to other high priority work until the canyon floor is grouted and pencil tank size reduction will be completed with manned entries.
PFP-PRF-21: OPP: 236-Z Floor/Pan Grouting	Following pencil tank removal, the PRF canyon floor will be vacuumed and wiped down. After completing that activity, the floor will be grouted to cover the pans and create a level working surface. From the grouted floor, residual canyon cleanout and wall decontamination will be performed. Upon completion of canyon cleanout, another grout cap will be placed to secure any residual contamination remaining on the floor prior to demolition. This approach eliminates the effort to remove the stainless steel pans from the slab (a process that would damage the slab according to engineering analysis), reduces contamination levels on the floor, correspondingly improving efficiency of manned entries for other canyon decontamination and cleanout efforts, and stabilizes floor contamination from a criticality and contaminant dispersion perspective.			There are no issues at this time and this is work that will be performed in FY2015. In preparation, a grouting concept is being developed and a grout specification is being prepared. This activity will require a revised CSER calculation and DSA USQ evaluation and is currently being worked. The expected finish date for the CSER is March 31, 2015. Grouting contract is expected to initiate February 2015, and field activities to start November 2015. As pencil tank size reduction continues to accelerate, field work will be accelerated for canyon clean-up.
RMA/RMC Glovebox Removal Risks				
PFP-GB-02: Glove boxes Isolation/Internal Strip out takes longer than planned	Utilize existing drawings, tools and techniques for equipment removal. Gram loading/NDA of gloveboxes has been obtained. Perform additional NDA to determine location of holdup. Perform surgical extraction of high gram items. Evaluate the use of foam or other fixatives to expedite cleanout.			Field teams incorporated lessons learned from similar work that has previously been performed at PFP. This risk will continue to be reported until all gloveboxes are isolated: HC-9B Complete; Column gloveboxes ECD late January 2015; Gallery gloveboxes ECD late March 2015(Slide from last month, but no impact to critical path – cost/schedule forecast have been revised to reflect slide); MT gloveboxes ECD late December 2014; 242 gloveboxes ECD late January 2016. The number of gloveboxes on this risk were revised to ensure all gloveboxes in the facility are tracked. This risk will continue to be monitored throughout completion of work in 242-Z.

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	7.9	9.8	9.9	1.9	24.2	-0.0	-0.2%

Numbers are rounded to the nearest \$0.1M

CM Schedule Variance: (+\$1.9M/+24.2%)

The current month favorable schedule variance is primarily the result of receiving the remaining demolition equipment in November, a month earlier than originally planned. In addition, efficiencies gained on pencil tank size reduction and MT glovebox work as a result of reassigning more experienced D&D teams to the critical path work scope and working behind schedule work scope associated with glovebox removal in the 234-5Z Remote Mechanical C (RMC) Line are contributing to this positive variance.

CM Cost Variance: (-\$0.0M/-0.2%)

The current month unfavorable cost variance is within reporting thresholds.

Contract-to-Date

(\$M)

WBS 011/ RL-0011 Nuclear Matl Stab & Disp PFP	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)
Total	746.9	716.9	753.7	(29.9)	-4.0%	(36.7)	-5.1%	937.6	962.6	(25.0)

Numbers are rounded to the nearest \$0.1M

CTD Schedule Variance (-\$29.9M/-4.0%)

The Schedule Variance is within reporting thresholds.

CTD Cost Variance (-\$36.7M/-5.1%)

The Cost Variance is within reporting thresholds.

Variance at Completion (-\$25.0M/-2.7%)

The VAC is within reporting thresholds.

Contract Performance Report Formats are provided in Appendix A.

FUNDS vs. SPEND FORECAST (\$M)

FY2015			
WBS 011/RL-0011 Nuclear Matl Stab & Disp PFP	Projected Funding	Spending Forecast	Spend Variance
RL-0011	118.4	114.2	4.2

Numbers are rounded to the nearest \$0.1M

Funds/Variance Analysis

Projected Funding remained at \$118.4 million. The Spending Forecast was unchanged from the prior month and includes actions anticipated to achieve the funding targets.

Critical Path Schedule

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

Baseline Change Requests

BCRA-PRC-15-013R0 - *HPIC Updates November 2014*

BCR-PRC-15-005R0 - *CO 242, DOE O 420.1C, Facility Safety*

BCR-PRC-15-007R0 - *CO 248, DOE-0342, Revision 2A, Hanford Site CBDPP Revision*

BCR-PRC-15-011R0 - *Incorporate FY2015 Performance Measures*

MILESTONE STATUS

(Tri-Party Agreement) milestones represent significant events in project execution. DOE Enforceable Agreement milestones were established to provide high-level visibility to critical deliverables and specific status on the accomplishment of these key events. The PMB Annual Update, implemented in September 2013, and subsequent approved BCRs define CHPRC planning with respect to Tri-Party Agreement milestones. The following table is a two year look ahead of commitments and Tri-Party Agreement enforceable milestones.

Number	Title	Due Date	Actual Date	Forecast Date	Status/ Comment
M-083-44A	Complete Transition of 234-5Z and ZA/243-Z/291-I & 291-Z Facilities	09/30/15		10/10/16	This Tri-Party Agreement completion has been impacted by sequestration and annual funding limitations. It is currently unattainable.

M-083-00A	PFP Facility Transition and Selection Disposition Activities	09/30/16		12/14/16	The PFP Project continues to make progress on the behind schedule critical path work scope being performed. However, this Tri-Party Agreement completion is at risk of meeting the September 30, 2016 commitment date.
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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)



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

November 2014
CHPRC-2014-11, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

- The 100K Operations group continued maintaining facilities in a safe and compliant condition and continued supporting the Engineered Container Retrieval and Transport System (ECRTS) Project work by supporting Annex Construction Activities and continued Operator training and familiarization of ECRTS components at the Maintenance and Storage Facility (MASF).
- *The Preliminary Documented Safety Analysis (PDSA) for the Sludge Treatment Project Engineered Container Retrieval and Transfer System (ECRTS) and the Sludge Treatment Project (STP) Safety Design Strategy Letter* is under review by RL. Current project schedule estimates RL approval by mid-January.
- The ECRTS Project has developed eight additional procurement packages and has them in the formal acquisition process. Progressing continued with the six fabrication contracts that have been awarded to date.
- Continued testing activities at MASF with preparations for testing for Sludge Transport and Storage Container (STSC) and cask inerting risk reduction activities.
- MASF continued Operator training and familiarization with ECRTS components at MASF. Operators reviewed ECRTS Process and Instrumentation Drawings and flowcharts; performed electrical lineup and valve lineup for ECRTS process equipment; and received hands-on training on ECRTS process equipment and control panels during retrieval and decant process.
- T-Plant modifications; CHPRC-02358, *Code Interpretation for T Plant and Hazardous Material Requirements*, was approved by CHPRC and the Hanford Fire Department, and was transmitted to RL for information.
- STP Annex Construction continued work on painting and fire coating touchups, application of epoxy in the Load Out Bay, fabrication of stainless exhaust ductwork and initiated installation of safety significant hanger/support systems.
- In-Basin construction preparing for start of electrical installations and removal in January.

EMS OBJECTIVES AND TARGET STATUS

None currently identified.

TARGET ZERO PERFORMANCE

	CM Quantity	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	0	N/A
Total Recordable Injuries	0	0	N/A
First Aid Cases	3	13	<ul style="list-style-type: none"> Employee climbed crane ladder and developed shoulder strain. Body part affected: Shoulder (23515) Employee was assisting in moving stadium lights and strained lower back. Body part affected : Low back (23517) Employee smelled strong vapor odor at the 100K Annex and began to feel dizzy. After a few seconds of fresh air employee felt better and reported event and was transported to 200W HPMC. The employee was evaluated and released without restrictions. Body part affected: Headache (23518) PTS
Near-Misses	0	0	N/A

KEY ACCOMPLISHMENTS

- The PDSA is under review by RL. Discussions held between STP Nuclear Safety personnel and RL will continue as needed through the review period. The current project schedule reflects an RL PDSA approval in mid-January 2015.
- MASF completed reconfiguration of electrical panel ME-602 to latest design configuration in preparation for STSC and cask inserting risk reduction activities.
- In-Basin Construction: the Facility Modification Package (FMP) to install power to 105K West Basin was completed and approved. The EWP for the work was completed and installation is scheduled to begin December 9, 2014.
- T Plant Modifications:
 - CHPRC-02358 - *Code Interpretation for T Plant and Hazardous Material Requirements*, was approved by CHPRC and the Hanford Fire Department, and transmitted to RL for information.
- The following Annex construction activities were completed:
 - Installation of Sludge Loading Bay roll-up door #109 on the east side of the facility
 - Excavation for future installation of hydronic piping along with excavation for ground rod and cable.
 - Excavated the trench and shop fabrication hydrostatic testing for the force main piping.
 - Shop fabrication and anti-microbial coating of the galvanized ductwork
 - Installation and backfill around hydronic piping and sono tubes for Radio and Fire Alarm Reporter (RAFAR) panel supports.
- 100K:
 - replaced the failed variable frequency drive for HVAC-STS-103.

MAJOR ISSUES

None currently identified.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

 Risk Response Effective
 Risk Response Partially Effective
 Risk Response Not Effective

 Increased Confidence
 No Change
 Decreased Confidence

Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
RL-0012/WBS 012				
STP-067A: Safety Significant Components STP-067B – OPPORTUNITY: Safety Classification of SSC's	Integrate nuclear safety representation on design team to minimize potential for an increase in the classification of safety significant SSCs in the ECRTS Process System Design. The project will conduct in-process reviews of the draft PDSA with RL to ensure reviewers fully understand the basis for current SSC safety classifications. The PDSA Revision 1 will be formally submitted to RL in September 2014. Early procurements of SSC's may be initiated at a higher safety/quality level.			PDSA incorporating the results of supporting analyses and design changes developed to incorporate ECRTS process system nuclear safety initiatives implementation was issued and RL review initiated. Feedback from RL indicates no significant impacts to the plan. Project is still on schedule for RL approval of PDSA Revision 1 by mid-January. Procurements for SSC's that are downgraded by the PDSA Revision 1 will commence upon approval from RL. Procurements of SSC's that are not affected by the PDSA revision including: Non-safety related SSC's and safety related SSC's that remain safety significant. STP-067B – "OPPORTUNITY: Safety Classification of SSC's" will be impacted by the PDSA approval.
STP-072: Delayed STSC/ECRTS Procurement & Delivery	Identify qualified vendors up-front, conduct fabricator on-site inspections, place CHPRC Quality Control staff at the vendor facility, maintain a prioritized buyback list to initiate early procurements should additional funding be identified, and procure raw materials early to minimize commodity price fluctuations. Develop procurement bundles for equipment that can be prioritized based on funding, vendor availability, and safety documents.			Risk mitigation strategy is effective – At this time, no forecasted delays. Continue to work closely with fabrication vendors (ABW Technologies Inc., Columbia Energy and Environmental Services, and HiLine Engineering and Fabrication Services). SSC fabrication risks have been effectively managed. Weekly interface meetings are held to ensure fabrication challenges are discussed and appropriately resolved.
STP-084: T-Plant Transition from Min-Safe Takes Longer than Planned	Initial activities to support the Sludge Treatment Project at T-Plant should include performance of critical assessments/inspection of facility support systems such as fire, ventilation, crane, and electrical to determine condition. Existing spare parts are adequate to ready to support the STP project.			The existing inventory of spare parts will be maintained at T-Plant or scavenged from other similar on-site cranes. During Initial startup/transition activities, the facility is doing an internal work site assessment after it re-staffs the facility, removes the tamper indicating tape from the canyon (i.e. allows canyon access) and complete the crane PM and all required life safety code inspections and testing. This will ensure the facility is ready to support the start of construction. This internal worksite assessment is in the project FES under ECRD190, 200, 210, 220, 230 and ECRD680. The expected finish date for T-Plant NLOP Work Site Assessment is January 2016.
STP-111B: Basin ECRTS Installation Contractor/Subcontractor Performance	Closely coordinate, plan, and monitor construction using detailed field schedules to minimize impacts. Re-train construction personnel on procedures for performing construction activities. Include in baseline budget to cover additional management oversight support for construction, planning, safety and project management to accommodate the potential impacts. Interface between existing organizations will need to be closely coordinated, planned, and monitored. Mitigation strategy is to provide extensive oversight on subcontractors work scope.			Received direction from RL to proceed with accelerating FY2016 construction activities in the month of November. Statement of Work (SOW) and Contract modifications are in the process of being prepared, and are expected to complete within FY2015.
STP-ANX-020: Contractor/Subcontractor Performance	Mitigation strategy is to provide extensive oversight on subcontractors work scope. Implement a Corrective Action Plan for contractor to implement to address shortfalls in performance. Closely coordinate, plan, and monitor construction using detailed field schedules to minimize impacts.			Corrective Action Plan is improving subcontractor field performance.

STP-ANX-024: K-Annex Engineering During Construction Scope	Identify required design changes early in the process to minimize schedule impacts. The design reviews and constructability reviews have been completed, the potential requirements change, and related impacts are accepted without mitigation due to the action required. Develop a streamlined approach for handling contractor submittals and RCIs.			Seconded staff still imbedded in construction contractor. Staff is propping up contractor and supporting their performance. Seconded staff to subcontractor supporting design reviews, design media development, and expedite reviews and approvals of design media.
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PROJECT BASELINE PERFORMANCE

Current Month

(\$M)

RL-0012 Spent Nuclear Fuel Stabilization and Disposition	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)
Total	5.5	4.7	4.8	(0.7)	-13.7%	-0.1	-2.1%

Numbers are rounded to the nearest \$0.1M

CM Schedule Performance (-\$0.7M/-13.7%)

Variance is due to Annex Construction Project BCWS realized for work completed in previous periods. In addition, delays in the procurement of safety significant hangers due to technical issues and the final application of Albi Clad fire coating is taking longer than planned to achieve required tolerances.

CM Cost Performance (-\$0.1M/-2.1%)

Variance is within reporting thresholds.

Contract-to-Date

(\$M)

RL-0012 Spent Nuclear Fuel Stabilization and Disposition	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)
Total	448.1	453.7	466.2	5.6	1.25%	(12.6)	-2.8%	692.7	721.0	(28.3)

Numbers are rounded to the nearest \$0.1M

CTD Schedule Performance (+\$5.6M/+1.3%)

Variance is within reporting thresholds.

CTD Cost Performance (-\$12.6M/-2.8%)

Variance is within reporting thresholds.

Variance at Completion (-\$28.3M/-4.1%)

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	FY2015		
	Projected Funding	Spending Forecast	Spend Variance
RL-0012	81.7	77.7	4.0

Numbers are rounded to the nearest \$0.1M.

Funds/Variance Analysis

Projected Funding is unchanged from the prior month. The FY2015 Spending Forecast of \$77.7 million reflects a reduction of \$2.3 million from the prior month primarily due to a decrease in the cost of procurements for newly awarded contracts.

Critical Path Schedule

The critical path flows through the installation of process equipment, then operational acceptance testing of the facility modifications, annex process equipment, readiness activities at the 105KW Facility, the operational readiness review, and finally containerized sludge retrieval operations. Retrieval operations includes the filling of STSCs with sludge and transferring them to T Plant, completing Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) milestone M-016-176, *Complete Sludge Removal from 105-KW Fuels Storage Basin*.

Baseline Change Requests

BCR-012-15-001R0 - *STP Schedule Corrections*.

MILESTONE STATUS

Tri-Party Agreement milestones represent significant events in project execution. DOE Enforceable Agreement milestones were established to provide high-level visibility to critical deliverables and specific status on the accomplishment of these key events. The PMB Annual Update, implemented in September 2013, and subsequent approved BCRs define CHPRC planning with respect to Tri-Party Agreement milestones. The following table is a one year look ahead of commitments and Tri-Party Agreement enforceable milestones and non-enforceable target due dates.

Number	Title	Due Date	Actual Date	Forecast Date	Status/ Comment
M-016-175	Begin sludge removal from 105KW Fuel Storage Basin	09/30/2014		09/01/2018	This Tri-Party Agreement completion has been impacted by changes in DOE priorities and sequestration. It is currently unattainable and needs to be re-negotiated.

SELF-PERFORMED WORK

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

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.

Section C

Solid Waste Stabilization and Disposition (RL-0013)



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

November 2014
CHPRC-2014-11, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

The Waste and Fuels Management Project (W&FMP) continued maintaining facilities in a safe and compliant condition. Overall, the project is delivering planned efficiencies but continues to be impacted by emerging work and realized risks. Liquid Effluent Facilities (LEF) received 6 tankers – a total of 25K gallons (containing various waste water streams; e.g., Mixed Waste Burial Trench leachate, Ground Water perched water, and Tank Farms condensate). Waste Encapsulation and Storage Facility (WESF) Stabilization and Ventilation Project (W-130) awarded contract for detailed design. Preliminary design is in progress. Central Waste Complex (CWC) completed 2403WD roof repairs. Effluent Treatment Facilities (ETF) completed 242-A Evaporator initial campaign receiving 1,192,680 gallons of process condensate to Basin 42. Environmental Restoration Disposal Facility (ERDF) Leachate to 200 West Pump-and-Treat Facility (200W P&T) completed Project Execution Plan. Definitive design (90 percent) comments are being reviewed.

EMS Objectives and Target Status

Objective #	Objective	Target	Due Date	Status
15-EMS-DWFRS-OB1-T1	Reduce the risk of noncompliance with environmental requirements.	Develop compliance matrices for T Plant and CWC.	9/30/15	30%

TARGET ZERO PERFORMANCE

	CM Quantity	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	0	N/A
Total Recordable Injuries	1	2	<ul style="list-style-type: none"> 11/20/14 - Employee reported a foreign substance in the eye. Employee was seen in ER and given prescription eye drops. Body part: Eye (23521)
First Aid Cases	2	31	<ul style="list-style-type: none"> 11/12/14 - Employee was seated on the front portion of a roller chair. The chair flipped over causing the employee to fall on the floor. The employee was also hit in the head by the chair. Body part affected: Neck and back (23516) 11/25/14 - Employee was changing roll filters on supply ventilation. When guiding material, a roll fell off its supports striking the employee. Body part: Thumb (23525)
Near Misses	0	0	N/A

KEY ACCOMPLISHMENTS

13.01 Project Management

- Continued Project Management support for high priority projects
- Continued support of CHPRC Legacy projects.

13.02 Capsule Storage & Disposition

- Completed:

- o 43 Preventive Maintenance (PM) work packages
- o Technical Safety Requirement (TSR) Surveillances
- o Radiological (Rad) surveillances
- o Operational surveillances
- Performed:
 - o Annual auto-start load test for 225BG-GEN-1 generator/systems
 - o Semi-Annual load bank testing for 225BG-GEN-1 backup generator
 - o One year calibration of Beta Continuous Air Monitor B-708
 - o 30-day functional testing of Pool Cell Weight Factor Indicators and Transmitters
 - o Rock-stopper filters removal at 225BG Wet Surface Fluid Coolers and K3 system for the season
 - o Two-year calibration of temperature transmitters for K-1 and K-2 supply
 - o 2014 Inner Capsule Movement Testing (ICMT), 382 capsules were successfully tested
 - o Replacement of K3-7-1 exhaust fan belts and placed back into service
 - o Troubleshoot/repair mechanical linkage for K3-7-2, 225B-MCC-3
 - o One-year calibration of chilled water pump pressure indicators
 - o Troubleshoot/repair Differential Pressure Indicator Recorders (DPIR) 1W, 2W, 3W, 4W, and 4E chart recorders
- WESF Stabilization and Ventilation Project (W-130):
 - o Awarded contract for detailed design. Preliminary design in progress.
 - o Transmitted Draft Closure Plan, Part A and Part B application to RL for review and transmittal to Ecology

13.03 Canister Storage Building (CSB)

- Continued Multi-Canister Overpack (MCO) monitoring program.
- Completed:
 - o Annual Spreader Bar and below the hook equipment inspection
 - o Annual Calibration for Pressure Indicator PI-724
 - o Annual Calibration for Pressure Indicators at the Fire Pump House
 - o Annual Beta Continuous Air Monitor (CAM) calibration
 - o Annual/Semi-Annual In-Place testing of Multi-Canister Overpack Handling Machine (MHM) high-efficiency particulate air (HEPA) filter
 - o Semi-Annual maintenance on compressor CX-1A/1B
 - o Quarterly MHM Channel Checks Technical Safety Requirement (TSR)
 - o Annual/Semi-Annual HEPA filter test for CSB AH-006 (TSR)
 - o Quarterly stack monitor flow rate functional test
 - o Quarterly flow transmitter mass flow functional test
 - o Repair and re lamping of pump panel at fire water pump house
 - o Roof leak repair over CSB support facility
 - o CSB Limited Incident Command Post (ICP) drill and qualified an additional Building Emergency Director
 - o 29 Preventive Maintenance (PM) work packages
 - o MSA completed repair of ruptured 12 inch valve for raw water line feeding the fire water system loop (hydrants and sprinklers for CSB and WRPS facilities)

13.06 TRU Repackaging

- Preparing for next shipment of large fiberglass-reinforced plywood waste box to PermaFix Northwest (PFNW) in December, 236Z1018A

13.07 Waste Receiving and Processing Facility (WRAP)

- Performed/Completed:

- o Replaced failed pump 12-550B on Isokinetic Stack Effluent Monitoring System (ISEMS)
- o Roof repairs for 2336W main building
- Surveillances/PMs:
 - o 17 TSR surveillances
 - o 18 PM packages
 - o 90 Rad surveillances
 - o 34 Operational surveillances

13.08 T Plant

- Performed/Completed:
 - o Veltron II ® replacement; TSR returned to service
 - o Fire barrier repairs in 2706TA 90 percent complete
 - o Department of Health (DOH) inspection of 291T stack
 - o Enhanced Work Plan (EWP) for propane cylinder depressurization in 2706T
- Surveillances/PMs
 - o Five TSR surveillances
 - o 296 Rad surveillances
 - o 26 PM packages
 - o 125 Operational surveillances

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

- Shipped four hazardous waste drums (floor paint chips) off-site to PSC Environmental Services
- Received the MSA 518 crane and newly fabricated IP-1 metal box into Outside Storage Area. Crane will be used during 231ZDR-11 over pack activities
- CWC/LLBG annual ignitable & reactive waste inspection
- Removal and packaging of contaminated tumbleweeds at 4B Burial Grounds
- Removed guides and lifting bail from concrete waste box 231ZDR-11 and installation of a new cover
- Surveillances/PMs:
 - o Ten TSR surveillances
 - o 18 PM packages
 - o 228 Rad surveillances
 - o 215 Operational surveillances
- Shipments Received:
 - o Three boxes to MWT
 - o Four SWBs to CWC from PFNW

13.11 Liquid Effluent Facilities (LEF)

Effluent Treatment Facilities (ETF)

- Continued support to Washington River Protection Solutions (WRPS) and its subcontractor to develop a plan to transition ETF to WRPS
- Completed 242-A Evaporator initial campaign sending 1,192,680 gallons of process condensate to Basin 42
- Electrical Utilities removed overhead 480 volt power line, eliminating DOE-359 hazard
- Completed:
 - o Monthly Whalen Alarm System testing (evacuation)
 - o Inspection of Concentration Tank A
 - o Vent and Balance Annual Radiological Controlled Area Heating, Ventilation, and Air Conditioning inspection and testing
 - o Painted permitted Waste Storage Area lines and labeled on pavement at B2025E

- o Bi-Monthly Sanitary Water Filter Replacements
- o Installed a new flowmeter in the stack cabinet and associated calibration
- o Recharged eyewash stations (Room 131, Pump Station [PS] #1 and #2)
- o Fire Systems Maintenance (FSM) completed the repair of the fire detector in the compressor room
- o Reinsulated Environmental Ventilation Unit-4 condensing unit
- o Calibrated the Sump-2 flowmeter
- o Changed Influent filters
- o FSM completed Annual Main Fire Backflow Preventer Testing
- o Semi-annual TEDF sampler calibration
- o Monthly Fall Protection Device Inspections
- o Annual Fixed ladder inspections
- o Quarterly pump station heat pump filter inspections
- o Monthly Emergency Light inspection and testing

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

- Definitive design (90 percent) comments being reviewed and resolved
- Completed Project Execution Plan

Effluent Treatment Facilities (ETF)

- Shipped six roll-on/roll-offs (RO/RO) to ERDF
- Received 6 tankers:
 - o 25K gallons (42K fiscal year [FY])
- Treated effluent to State-Approved Land Disposal Site:
 - o 0.0 million gallons (0.0 million FY)
- Discharged to 200A TEDF:
 - o 12 million gallons (75 million FY)
- Received ERDF Leachate
 - o 138K gallons (279K FY)

13.12 Integrated Disposal Facility

- Completed monthly inspections

13.16 Off Site Spent Nuclear Fuel Disposition

- Maintained coordination for offsite Spent Nuclear Fuel Disposition

13.21 Mixed Waste Disposal Trenches

- Completed:
 - o 20 Rad surveillances
 - o 135 Operational surveillances
- Shipments:
 - o Received one shipment totaling three waste packages of processed/treated waste 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 overpacking drums). Provided letter to RL identifying risk and requesting path forward. RL has authorized some shipments and additional repackaging is included in the Integrated Priority/Buy Back Lists. RL has authorized one FY2015 shipment within available funding. Awaiting RL decision on priorities and available funding.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

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

Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
RL-0013				
PRC-010: Requirements Change	Changes to DOE Orders, Federal, or State Regulations could impact the baseline scope, schedule and/or cost. There is a risk that state directed changes could impact the ability to perform work in the planned manner.	●	↔	Continued discussions with regulators indicate potential for additional changes (CWC).
WSD-019: Commercial Capability	MLLW treatment capacity/capability does not meet Hanford needs or treatment does not occur as scheduled. W&F manages contract for CHPRC waste treatment. Work scope within PBS RL-0013 is not impacted. Mixed Waste may require temporary storage within CWC until sufficient volume is generated for efficient processing. Evaluate additional waste volumes of TRU waste being sent to treatment contractors to maintain contract viability.	●	↓	Forecasted volumes from CHPRC projects may not allow commercial capability to remain viable. DOT exemptions to transport to/from off-site contractor are complete through the end of Fiscal Year. There is still a risk associated with a federal driver which has been supplied by the BPA, but is no longer available. The DOE-RL driver obtained their qualifications on November 24, 2014, and is scheduled to perform their first Super-7A road-closure shipment from CWC to PFNW on December 18, 2014, weather permitting. Additionally, DOE-RL is working with BPA to secure access to another Federal driver in the case where we need to have two conveyances, thus requiring two drivers. Additional shipments are identified in "Buy Back/Integrated Priority List" list but currently fall below the available funding line. CHPRC continues to be in the state of readiness to ship additional TRU waste packages to PFNW during FY2015 if funding does become available.
WSD-086: W&FM Industrial Accident or Contamination	Workers are trained in equipment operation, radiological control procedures (ALARA), and response to events. Processes and procedures identify safe equipment operation, control of radiological/hazardous materials.	●	↑	Updated permit requirements include quarterly removal of soil and vegetation and complete inspection of the covers.

WSD-125: Three-Year Pause in Waste Processing Results in Unexpected Container Integrity Issues	Perform routine surveillances (daily/weekly) of containers within the SWOC storage areas and identify abnormalities. Develop a "watch-list" for containers that have existing corrosion to monitor for signs of accelerated corrosion. Develop plans for dealing with degraded/abnormal containers. Discrepant containers may require additional monitoring, patching, covering or overpack as required. If a breach is identified, implement response procedures and perform response actions as appropriate.			All priority 1 drums in CWC have been overpacked, there are approximately 19 priority 2 drums to overpack; however, this is not a static list and can increase based on current conditions. The additional requirements referenced for 231-ZDR-11 refer to the requirement to overpack in a shippable configuration in preparation for shipping to an offsite facility for processing and repackaging. Packing to be completed no later than January 18, 2015. Procurements are complete, and over packing are slated to start the week of December 15, 2014.
WSD-079 (WRAP) WSD-097 (T-Plant) WSD-120 (WESF) WSD-121 (LERF) WSD-122 (CSB) WSD-135: (ETF) WSD-136: (CWC) Equipment Failure at W&F Facility	Continue with the current maintenance program and aggressive PM and CM program. Maintain spare parts inventory, perform Preventative Maintenance as scheduled, and remove unused equipment from service.			<ul style="list-style-type: none"> Heat Exchanger procurement continuing, and expected delivery date is May 2015; weekly status meetings indicate vendor is on time. Installation to perform by WRPS after transition from CHPRC to WRPS. LERF Cover Repairs made to basins 42 and 43; Repair strategy for Basin 44 endorsed by CHPRC management and RL; DOH to be briefed this month. Repairs to be made after Basin is emptied in late 2015/early 2016. Automatic Transfer Switch (ATS) #1 failure at WESF. Troubleshooting efforts continue. Risk Response Plan partially effective – Continuing to experience Corrective Maintenance at higher rate than planned.
WSD-133: Results of External Audits/Assessments Impact Operations	Conduct operations in accordance with current approved procedures and processes. CHPRC and RL conduct routine assessments to assess conduct of operations and maintenance activities. Work with oversight groups to understand regulatory basis for interpretations.			The gap analysis has been completed for two of the CWC compliance metrics for the Ecology Agreed Order. Requirements exceed planned work scope in relation to box 231-ZDR-11. (See Risk WSD-125)
WSD-W130-01: WESF Ventilation Upgrade Regulatory Strategy	Work with regulators early on to develop a permitting plan that is approved by Ecology and the DOE.			Permitting has been revised to incorporate the preparation of a LDR Treatability Variance. A permitting strategy has been prepared and is expected to be finalized in December. This agreement was reached with the regulators to allow public comment period for the Revised Part A Permit application and the revised Closure Plant to proceed prior to Ecology receiving a certified LDR treatability variance.
WSD-W135-01: Cs/Sr Capsule Extended Storage Acquisition Planning Document Approval	Teaming with DOE is incorporated into the baseline to identify and incorporate new requirements. However, if additional requirements are identified, the additional scope to add to planning and subsequent flow-down is not included within the work planning.			The project schedule is based on receiving RL direction to proceed in October. The project is currently on hold and is not funded in the initial FY2015 funding profile. The baseline has been adjusted to defer planning until December, which, if funded, will still significantly impact the ability to issue an RFP and award a contract in FY2015.

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	7.2	6.6	6.4	(0.6)	-8.0%	0.2	3.1%
Numbers are rounded to the nearest \$0.1M							

CM Schedule Performance (-\$0.6M/-8.0%)

The current period unfavorable schedule variance for RL-0013 is due to weather issues with the roof repairs for the Ecology Agreed Order, late start with placing the contracts for the fabrication of the T Plant Pre-Filters and the detailed design for the WESF K3 Exhaust Ventilation Project.

CM Cost Performance (+\$0.2M/+3.1%)

The current period cost variance is due to implementation of planned efficiencies.

Contract-to-Date (CTD) (\$M)

WBS 013/RL-0013 Waste and Fuels Management Project	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)
Total	892.7	893.9	857.0	1.1	0.1%	36.8	4.1%	1,352.7	1,262.2	90.4

Numbers are rounded to the nearest \$0.1M

CTD Schedule Performance (+\$1.1M/+0.1%)

The schedule variance is within threshold.

CTD Cost Performance (+\$36.8M/+4.1%)

The cost variance is within threshold.

Variance at Completion (+\$90.4M/+6.7%)

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

Contract Performance Report Formats are provided in Appendix A.

FUNDS vs. SPEND FORECAST (\$M)

WBS 013/RL-0013 Waste and Fuels Management Project	FY2015		
	Projected Funding	Spending Forecast	Spend Variance
RL-0013	86.6	83.9	2.7

Numbers are rounded to the nearest \$0.1M.

Funds/Variance Analysis

Projected Funding is unchanged from the prior month. The FY2015 Spending Forecast of \$83.9 million is essentially unchanged from the prior month, which incorporated actions to achieve the funding targets.

Critical Path Schedule

Critical path analysis can be provided upon request.

Baseline Change Requests

BCR-013-15-001R0 - CO 263, ERDF Transfer Pipeline Construction

BCR-PRC-15-005R0 - Definitization of CO 242, DOE O 420.1C, Facility Safety

BCR-PRC-15-006R0 - Definitization of CO 228, Activities in Support of Ecology Agreed Order

BCR-PRC-15-007R0 - CO 248, Implement DOE-0342 Rev. 2A, Hanford Site CBDPP Revision

BCR-PRC-15-011R0 - Incorporate FY2015 Performance Measures

BCR-PRC-15-012R0 - Successor Logic Adjustments for FY2015 and Beyond

BCR-PRC-15-013R0 - HPIC Updates for November 2014

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.

SELF-PERFORMED WORK

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

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

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

Section D

Soil and Groundwater Remediation Project (RL-0030)



CH2MHILL
Plateau Remediation Company



K. L. Wiemelt
Vice President and
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November 2014
CHPRC-2014-11, 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 November includes the following:

Treatment Facility	Million Gallons Treated		Chrome (kg)		Carbon Tet (kg)		Nitrate as N (kg)		Tech-99 (pCi)	
	CM	FYTD	CM	FYTD	CM	FYTD	CM	FYTD	CM	FYTD
DX P&T	28.1	55.8	9.4	21.3	-	-	-	-	-	-
HX P&T	21.8	42.9	1.9	4.0	-	-	-	-	-	-
KR-4 P&T	12.2	24.5	0.6	1.0	-	-	-	-	-	-
KW P&T	14.1	27.9	3.3	5.7	-	-	-	-	-	-
KX P&T	29.6	55.7	2.6	4.7	-	-	-	-	-	-
200 West P&T	79.4	158.3	6.3	12.7	246	488	5,458	10,764	.118x1012	.230x1012
Combined	185.2	365.1	24.1	49.4	246	488	5,458	10,764	.118x1012	.230x1012

Well Drilling by Area	FY2015 Planned	November	FY2015 Cumulative
100-KR-4	5	-	1
100-HR-3	12	-	-
NRDWL/SWL	4	-	-
200-UP-1	5	-	-
200-ZP-1	7	1	1
M-24	19	2	4
300-FF-5	34	-	-
DVZ URG TT	6	-	-
Total Wells	92	3	6

EMS Objectives and Target Status

Objective	Target	Actions	Due Date	Status	Overall Target Status
15-EMS-SGWR-OB1 Reduce toxic air emissions at the 200 West P&T Facility	T1 – Implement one measure to reduce toxic air emissions (namely carbon tetrachloride) at the 200 West P&T Facility	Apply heat tracing and insulation to reduce condensation in the GAC containers during the colder months.	12/31/14	100%	50%
		Evaluate carbon tetrachloride emissions by compiling an annual emissions summary for FY2015.	9/30/15	0%	
15-SGWR-EMS-OB2 More effective promotion of EMS	T1 – Promote and increase S&GRP project personnel EMS awareness via various means throughout FY2015.	Present at least five EMS topics to S&GRP personnel on a minimum of five different occasions.	9/30/15	0%	0%
		Provide a discussion of at least five different EMS topics to be communicated to S&GRP personnel through the “S&GRP Daily Communications.”	9/30/15	0%	
	T2 – Promote and increase S&GRP drilling subcontractor personnel EMS awareness via direct communication (i.e., during subcontractor/SGRP meetings).	Discuss EMS topics with drilling subcontractor personnel, on a minimum of five different occasions with different topics at each session.	9/30/15	0%	0%
14-SGWR-EMS-OB3 Increased awareness of Universal Waste requirements	T1 – Promote and increase S&GRP project personnel awareness of Universal Waste requirements via direct communication with S&GRP personnel throughout FY2015.	On a quarterly basis provide focused universal waste training sessions.	9/30/15	0%	10%
		Conduct at least two walk downs of S&GRP universal waste collection areas to review compliance.	9/30/15	50%	

TARGET ZERO PERFORMANCE

	CM Quantity	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	1	N/A
Total Recordable Injuries	0	3	N/A
First Aid Cases	1	29	<ul style="list-style-type: none"> • 11/23/2014 - Employee was retrieving empty sample bottles and got an unknown substance on fingers causing discoloration. The employee was taken to HPMC the next morning and it was determined the operator likely came into contact with nitric acid. No treatment was provided and the employee returned to work with no restrictions. (23523) S&GRP
Near- Misses	0	1	N/A

KEY ACCOMPLISHMENTS

RL-0030.O1 RL 30 Operations

RL 30 Integration & Assessments

Risk & Modeling Integration

- Participated in DOE training for its Low-level Waste Facility Federal Review Group (LFRG) on November 19-20, 2014, in support of integration of performance assessments. CHPRC and Intera SMEs presented ERDF PA information to the LFRG as part of the training.

Project Wide

Operations Assurance

- Conducted the CHPRC independent Nuclear Safety Performance Evaluation Board (NSPEB) review of the S&GRP with a heavy focus on Conduct of Operations (Con Ops) performance in field operations. The review scope included P&T operations, sampling, contractor drilling and well maintenance. The NSPEB review was one of the actions developed in response to the 2013 DOE EM-42 assessments. The results of the review indicate that S&GRP has made significant improvements in its Con Ops performance. The assessment report also provided the project with several minor issues that need to be addressed and a number of opportunities for improvement.

River Corridor

100-KR-4 Operable Unit

- Held the 100-KR-4 SAP/DQO Panel Review with RL and EPA on November 3, 2014. Comments were received from the DOE Panel on November 17, 2014.
- Completed drilling well 199-K-203 located near the 105-KE Reactor.

100-NR-2 Operable Unit

- Held the first session of the 100-NR-2 SAP/DQO Panel Review with RL and Ecology on November 19, 2014. A second session to complete the review has been scheduled for December 10, 2014.

- Progressed the Draft A RI/FS report comment disposition process to the feasibility study with the initial review of the “hot spots” technical position paper. Remedial investigation comments are still open, but the team has agreed to move into the FS.
- Completed the change-out of the PVC piping and restarted the bioventing system on November 25, 2014. The second semi-annual respirometer test has been scheduled for December 15, 2014.

100-HR-3 Operable Unit

- Collected the final groundwater samples from the 100-D-100 excavation on November 20, 2014. Two of the four monitoring wells were decommissioned on November 25, 2015, with a variance obtained from Ecology to decommission the remaining two wells during the planned excavation activities.

300-FF-5 Operable Unit

- Supported RL/EPA meeting on November 3, 2014, regarding the RD/RA work plan remedy implementation performance metrics.
- Received verbal concurrence from EPA on the Integrated RD/RA Work Plan and Groundwater Addendum text updates the week of November 10, 2014; document finalization is underway.
- Received proposals on November 10, 2014 for the 300-FF-5 post-ROD field characterization drilling requisition; proposals are currently under review.

Central Plateau

200-IS-1 Operable Unit

- Conducted RL and Ecology waste site scoping summary workshops on November 4 and November 18, 2014 (addressing 11 and 9 waste sites respectively).
- Conducted the 244-AR (vault) field visit with RL and Ecology on November 12, 2014.

200-BP-5 Operable Unit

- Completed resolution of RL comments on the Treatability Test Plan to add the pipeline to the 200W P&T, and designate the 200W P&T Facility for groundwater treatment.
- Completed initial fate and transport modeling for the RI report and presented results to RL and Ecology.

200-PO-1 Operable Unit

- Completed initial fate and transport modeling for the RI report addendum, and presented results to RL and Ecology.

200-UP-1 Operable Unit

- Completed CHPRC and RL reviews of the 90 percent design package on modifications to the 200W P&T facility to add uranium treatment capacity and briefed EPA on the design.
- Completed the drilling of one of two uranium extraction wells.
- Completed five of six pipeline road crossings for the uranium system pipeline.
- Initiated design of the I-129 hydraulic containment system.

200-CW-5 and 200-PW-1/3/6 Operable Units

- Held a kick off meeting with EPA and RL to discuss preparation of the RD/RA Work Plan for the 200-CW-5 and 200-PW-1/3/6 Operable Units.

200 West P&T

- Average pumping rate for November was approximately 1,821 gpm. The increased flows were due to completion of operational improvements and bringing new injection/extraction wells on line.

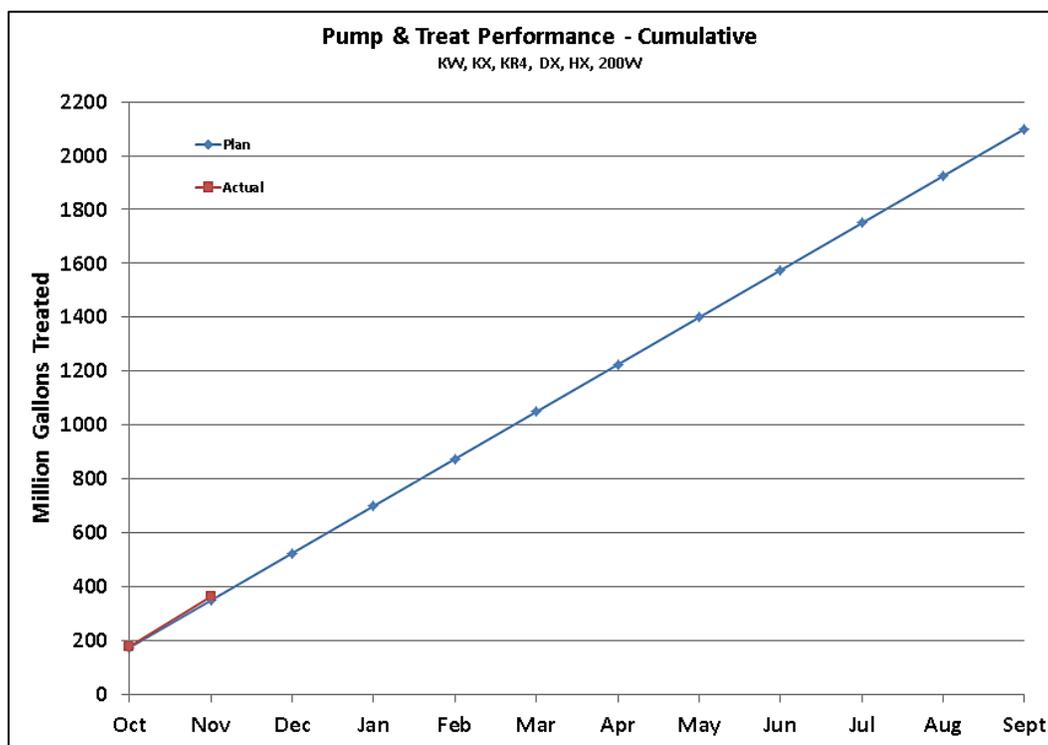
- Effluent concentrations remain below cleanup levels specified in ROD.

200-DV-1 Operable Unit

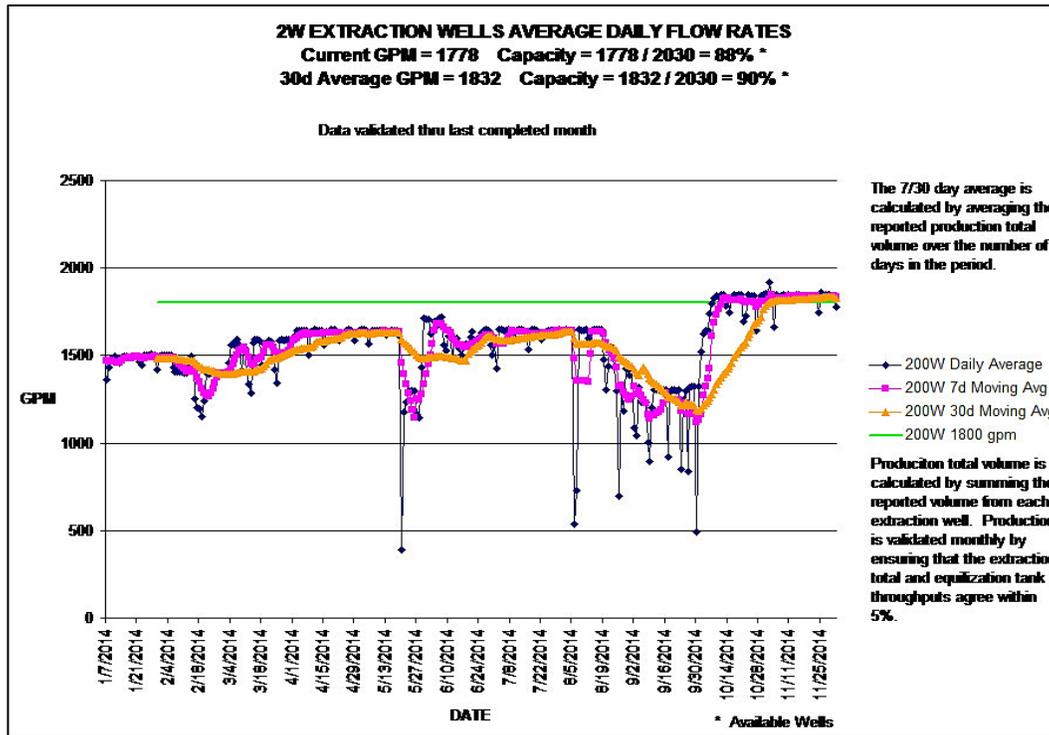
- The B Area perched water extraction system removed 6,470 gallons in November to bring the total volume of perched water removed to 246,303 gallons since initiating operations on August 30, 2011. The following quantities of contaminants were removed for the month of November:

Contaminant	November	Cumulative (since startup)
Tc-99	0.5 E-04 Ci	30.7 E-03 Ci
Uranium	1.0 kg	52.7 kg
Nitrates	9.2 kg	491.5 kg

FY2015 P&T Operations



200 West P&T



MAJOR ISSUES

No major issues to report.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

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

Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
RL-030/WBS 030				
<p>SGW-045: Regulator Comments Change Requirements</p> <p>SGW-008: Regulatory Documents Result in Significant Comments from Regulators</p>	<p>A standardized approach has been developed to quickly evaluate and categorize comments for resolution. This process also identifies comments that will require management attention in order to achieve resolution. For significant comments, white papers are prepared for RL management concurrence. These white papers then form the basis to help resolve significant comments with the agencies. In addition, routine meetings are conducted to address agency comments and to remain current on the influences from agencies.</p>			<p>Effectiveness of the mitigation strategies are impacted by changes in the sequencing of the 100-D/H Proposed Plan legal review and regulator staffing to resolve 100-N RI/FS comments. Progress on the 100-D/H PP has been delayed due to the requirement to include EPA's Remedy Review Board (RRB), which has been scheduled for January 26-30, 2015. The PP is then scheduled to be reviewed sequentially by Ecology's legal followed by EPA's legal. These sequential reviews will impact the schedule by eight months to a year.</p> <p>Largely due to the weekly comment resolution meetings with Ecology, the Draft A 100-N RI/FS Report has progressed through the RI (Chapters 1 – 7). The team is now working through the FS. The first of four technical position papers that were submitted to Ecology in March 2014 to resolve significant comments on the FS is being reviewed.</p>
<p>SGW-004: Cultural Resource Reviews</p>	<p>Obtain cultural/ecological reviews before design progresses. Walk downs with cultural resource review teams (tribal, RL, Engineering, etc.) to start early and be performed periodically throughout the process. Assign contractors to other activities while awaiting results. Work with the State Archeological and Historical Preservation office.</p>			<p>CHPRC continues to work with MSA to accelerate cultural reviews for existing work. The bi-weekly meetings that began in September are resulting in better coordination between the two companies. Early identification of FY2015 work scope has also allowed the cultural review process to begin early in the FY, which is resulting in earlier cultural approvals.</p> <p>No progress was made by RL on resolution of the Section 6 "Cultural Resources Review (CRR)" and associated Memorandum of Agreement for installation of the 100-NR-2 apatite barrier. As a result, this work scope will not be performed in FY2015.</p>
<p>OPPORTUNITY: SGW-007A: Sampling Requirement Reduction SGW-007B: Analytical Reduction</p>	<p>Sampling reduction can be achieved by combining sample sites, promptly removing sample sites from the list once characterization is established to support regulatory down-posting, work with regulatory agencies to minimize sample sites and sampling frequencies (i.e. quarterly to yearly).</p> <p>Analytical and laboratory characterization can be achieved by working with regulatory agencies to minimize the analysis required, determining a standardized analyses run, and working with the laboratories to streamline data validation processes.</p>			<p>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. A schedule was developed for completing RL's Panel Review on the SAPs planned to be revised in FY2015. This approach and schedule was provided to the agencies during the November 13, 2014 Unit Manager's Meeting.</p> <p>Two Operable Units (100-KR-4 and 100-NR-2) completed RL's SAP Panel Review in November.</p>
<p>SGW-159: Ability to Maintain Flow Rates through Pump and Treat Units</p>	<p>Acquire technical specialist in bio-reactor operation at 200 West P&T to oversee the complexity associated with the water volume/flow and evaluate optimization and nutrient additions to the bed reactor. Installation of additional extraction or injection wells is required to boost pumping rates to 2,000 gpm. Routine well maintenance/equipment maintenance program is essential to maximize operational efficiency and minimize down-time.</p>			<p>Several new injection wells were hooked up at the end of September and have now increased pumping rates to 1,800 gpm. Four additional injection and two additional extraction wells are being drilled, completed, and hooked-up to the 200 West P&T in late FY2015 to boost pumping rates to 2,000 gpm. Plant is now operating at a target of 1900-1950 gpm. Larger micronutrient pumps will be needed for flows about 1950 gpm (pumps are being ordered). Additional carbon will need to be loaded for flows above 2000 gpm. Two injection wells drilled, one drilled and QA accepted. Both additional extraction wells have the RFP in procurement.</p>

Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
RL-030/WBS 030				
SGW-135: Major Equipment Failure at a Pump & Treat	For the P&T facilities, maintenance will continue with the established Preventative Maintenance and Corrective Maintenance program. Utilize trending to monitor precipitate and bio-fouling of injection wells. Utilize trends to optimize well cleaning frequency to keep injection wells clear of precipitate and bio-fouling. Install additional injection wells to increase injection capacity and plan down-time for injection well cleaning cycles. Continue staff training on equipment and processes. Maintain spare-parts inventory.	●	↔	Pump and treat is operating as designed. The 200 West P&T is continuing to experience higher than planned maintenance costs due to issues with blowers, foaming, and well maintenance to prevent injection well fouling. Mitigation is ongoing as design changes are implemented to improve plant reliability and reduce labor costs. Mitigation examples include solving communication interruptions to wells with use of fiber optic cables, installation of heat trace on GAC containers, and eliminations of single point failures (injection header additions).

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	10.5	8.5	8.2	(1.9)	-18.5%	0.4	4.2%

Numbers are rounded to the nearest \$0.1M.

CM Schedule Performance (-\$1.9M/-18.5%)

The negative schedule variance resulted from the following:

- Delay in approval of the 100-NR-2 cultural and ecological resource reviews for the barrier expansion and jet injection activities has caused this scope to be deferred.
- Revisions are being made to the 100-HR-3 well drilling planning documents to accommodate additional scope of work per the Plume Containment and Remediation Utilization Plan. Drilling is also encountering difficult conditions due to boulders and cobbles which require re-drilling with larger diameter casings.

CM Cost Performance (+\$0.4M/+4.2%) is within reporting thresholds.

Contract-to-Date

(\$M)

RL-0030 Soil and Groundwater Remediation	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)
Total	1,036.4	1,031.4	1,018.0	(4.9)	-0.5%	13.4	1.3%	1,518.9	1,470.9	48.0

Numbers are rounded to the nearest \$0.1M.

CTD Schedule Performance (-\$.49M/-0.5%)

Variance is within reporting thresholds.

CTD Cost Performance (+\$13.4M/+1.3%)

Variance is within reporting thresholds.

Variance at Completion (VAC)

The Variance at Completion is within reporting thresholds.

Contract Performance Report Formats are provided in Appendix A.

FUNDS vs. SPEND FORECAST (\$M)

RL-0030 Soil and Groundwater Remediation	FY2015		
	Projected Funding	Spending Forecast	Spend Variance
RL-0030	137.8	136.9	0.9

Numbers are rounded to the nearest \$0.1M.

Funds/Variance Analysis

FY2015 initial budget guidance received from RL reflects expected funding of \$445.1 million for the company. RL-0030 project funding is \$137.8 million for FY2015. The FY2015 Spending Forecast of \$136.9 million is essentially unchanged from the prior month, which incorporated actions to achieve the funding targets.

Critical Path Schedule

Critical path analysis can be provided upon request.

Baseline Change Requests

BCR-030-15-006R0 - *KR-4 Well Realignment Split*

BCR-PRC-15-005R0 - *CRD 0 420.1 C Facility Services*

BCR-PRC-15-007R0 - *CO 248, DOE-0342, Rev 2A, Hanford Site CBDPP Rev*

BCR-PRC-15-011R0 - *Incorporate FY2015 Performance Measures*

BCR-PRC-15-012R0 - *Successor Logic Adj. for FY2015 and Beyond*

FY2015 Management Reserve (Funded): \$1.75 million

No FY2015 Management Reserve was used during November. \$832K remains in FY2015 Management Reserve.

MILESTONE STATUS

Tri-Party Agreement (TPA) milestones represent significant achievements in project execution. Enforceable TPA milestones were established to provide high-level visibility to critical deliverables and specific status on the accomplishment of these key activities. The PMB Annual Update, implemented in September 2013, and subsequent approved BCRs define CHPRC planning with respect to TPA milestones. The following table is a one year look ahead of TPA enforceable milestones, non-enforceable target due dates and commitments.

Number	Title	Type	Due Date	Actual Date	Forecast Date	Status/ Comment
M-015-112	Submit Draft B, 200-IS-1 Operable Unit Pipeline System Waste Sites RFI/CMS/RI/FS Work Plan to Ecology	TPA	2/28/14		5/18/15	Dispute resolution was extended to January 30, 2015. Negotiations are underway to confirm scope and revise the milestone due date.
M-091-40L-044	PMM Submittal Jul-Sep 4th Qtr. FY2014 Burial Ground Sample Results	TPA	12/15/14		12/15/14	On schedule
M-091-40L-045	PMM submittal Oct-Dec 1st Qtr. FY2015 Burial Ground Sample Results	TPA	3/15/15		3/15/15	On schedule
M-015-113	Submit Draft B, 200-SW-2 Radioactive Landfills Group RFI/CMS/RI/FS Work Plan to Ecology	TPA	3/31/15		3/22/15	On schedule
M-015-110A	Submit RFI/CMS & RI/FS Work Plan for 200-DV-1 OU to Ecology	TPA	3/31/15		1/23/15	On schedule
M-024-58H	Initiate Discussions of Well Commitments	TPA	6/1/15		6/1/15	On schedule
M-091-40L-046	PMM submittal Jan-Mar 2nd Qtr. FY2015 Burial Ground Sample Results	TPA	6/15/15		6/15/15	On schedule
M-015-21A	Submit 200-BP-5 & 200-PO-1 OU FS Report and PP(s) to Ecology	TPA	6/30/15		6/30/16	To be missed. The FS Report and PP are funded in FY2015, but were not funded in FY2014.
M-015-92A	Submit RFI/CMS & RI/FS Work Plan for 200-EA-1 OU to Ecology	TPA	6/30/15		12/25/17	To be missed. This scope was not funded in FY2014 or in FY2015.
M-024-66-T01	Conclude Discussions of Well Commitments	TPA	8/1/15		8/1/15	On schedule
M-091-40L-047	PMM submittal Apr-June 3rd Qtr. FY2015 Burial Ground Sample Results	TPA	9/15/15		9/15/15	On schedule

Number	Title	Type	Due Date	Actual Date	Forecast Date	Status/ Comment
M-015-110B	Submit CMS & FS & PP/Proposed CA Decision for 200-DV-1 OU to Ecology	TPA	9/30/15		6/24/19	To be missed. The 200-DV-1 work plan (M-015-110A) has not been submitted to the regulators.
M-016-125	Submit a RD/RA WP for 200-CW-5 and 200-PW-1/3/6 to EPA	TPA	9/30/15		9/15/15	On schedule
M-016-190	Complete installation of extraction and injection wells for U Plant area P&T for uranium and tech-99, and Iodine-129 hydraulic containment system	TPA	9/30/15		9/09/15	On schedule
M-085-02	Submit a change package to establish a schedule for submittal of the RI/FS Work Plans for the 200-CB-1, 200-CP-1, and 200-CR-1 Operable Units and a schedule for submittal of the Removal Action Work Plans for 224B and 224T Plutonium Concentration Facilities	TPA	9/30/15		9/30/15	On schedule
M-015-38B	Submit Revised FS Report and PP for CW-1, CW-3, & OA-1 to EPA	TPA	10/30/15		10/30/15	On schedule. The milestone was changed to require a schedule for completing the Revised FS Report and PP for CW-1, CW-3, & OA-1 to EPA

SELF-PERFORMED WORK

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

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.

Section E

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



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

November 2014
CHPRC-2014-11, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

The inactive Central Plateau facilities and Radiation Areas Remedial Action (RARA) sites continue to be compliantly maintained in a low-cost surveillance and maintenance condition. The project performed Waste Information Data System (WIDS) waste site housekeeping (tumbleweed removal, correcting posting issues), conducted 97 radiological facility surveillances, completed 26 preventive maintenance (PM) activities, continued asbestos abatement at steam line cut locations, completed PUREX Annual Surveillance, and 200E and 200W RARA Tri-Annual Surveillances.

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

KEY ACCOMPLISHMENTS

- Completed PUREX Annual Surveillance
- Performed Waste Information Data System (WIDS) waste site housekeeping (tumbleweed removal, corrected posting issues)
- Completed:
 - o 97 radiological facility surveillances
 - o 26 preventive maintenance (PM) activities
- Continued with asbestos abatement at steam line cut locations
- Completed 200E and 200W Radiation Area Remedial Action (RARA) Tri-Annual Surveillances

MAJOR ISSUES

Issue: Elevated contamination levels at REDOX caused work to be re-planned as high-risk.

Corrective Action: Plan work as high risk.

Status: Planning is complete.

RISK MANAGEMENT STATUS

Unassigned Risk
 Risk Passed
 New Risk
 Change

 Risk Response Effective
 Risk Response Partially Effective
 Risk Response Not Effective

 Increased Confidence
 No Change
 Decreased Confidence

Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
RL-0040				
D4-043: Unforeseen Facility Event Impacts Safety or Environment	Unexpected event, including contamination or chemical spread, fire, industrial accident, structural degradation, etc., requires immediate D&D of a small to medium sized facility or requires unplanned facility repairs. Current management of the shutdown facilities includes corrective maintenance based upon historic experience.			Continuing corrective maintenance activities. No unplanned events encountered in the month of November.
WSR-047: Unforeseen Waste Site Event	Unforeseen waste site event, including contamination or chemical spread, fire, industrial accident, structural degradation, etc. requires immediate disposition or modification to a waste site. Routine surveillance and maintenance of the waste sites, including herbicide applications, is designed to protect workers and the environment.			Construction yard demolition field work completed in the month of October. No unplanned events encountered in the month of November.
D4-062: Unexpected Industrial Contamination	D-4 activities are conducted in accordance with CHPRC IH and Rad protection programs to minimize contamination spread. Prior to D&D activities, the existing and historical records are reviewed to identify areas of likely industrial contamination.			Monitoring emerging issues with facility roofs, contamination spread into surveillance paths, and other high risk facility conditions. Added mitigation efforts to the Integrated Priority List. Transmitted letter to DOE-RL, in October, identifying the risk associated with the Redox being well beyond its design life and requesting authorization and funding to proceed with design.
D4-064: Aging Building Systems/Components	The facilities have been placed in Surveillance and Maintenance mode. Perform as-scheduled maintenance activities. Perform appropriate regulatory agency and DOE notifications for system failures or prolonged outage. Continually evaluate system maintenance frequencies.			No issues for the month of November.
D4-067: Increased Asbestos Abatement	Minimal pre-mitigation is possible. Conduct asbestos abatement to maintain a safe and complaint work site.			Developing prioritization of abandoned steam line removal sections with additional funding. Received authorization to repair/abate ~1,100 linear feet of steam line. Streamline abatement complete. Repairs were slated to complete in November, but resources were not available to complete identified work scope. Forecast schedule and cost were updated to reflect repairs in December with no impacts to life-cycle milestone.

PROJECT BASELINE PERFORMANCE

Current Month

(\$M)

WBS 040/ RL-0040 Nuclear Facility D&D	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)
Total	0.8	0.8	0.8	0.0	1.3%	0.0	0.9%

Numbers are rounded to the nearest \$0.1M

CM Schedule Performance: (+\$0.0M/+1.3%)

Variance is within reporting threshold.

CM Cost Performance: (+\$0.0M/+0.9%)

Variance is within reporting threshold.

Contract-To-Date

(\$M)

WBS 040/ RL-0040 Nuclear Facility D&D	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)
Total	391.0	390.9	360.1	(0.1)	-0.0%	30.7	7.9	470.0	438.7	31.2

Numbers are rounded to the nearest \$0.1M

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

Variance is within reporting threshold.

CTD Cost Performance: (+\$30.7M/+7.9%)

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

- ARRA-funded work scope included efficiencies with Program Management (\$2.6 million), Cold and Dark and Characterization/Waste Identification Form teams (\$4.0 million), lower than planned capital equipment costs (\$3.0 million) and efficiencies with Arid Lands Ecology (ALE) (\$3.7 million), 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, 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 cost variance.
- The remaining CTD favorable cost variance in base-funded work is due to efficiencies for waste site remediation and D4 activities as a result of utilization of existing site equipment and less resources (\$1.1 million), S&M costs less than expected (\$4.6 million), U Plant completion of the sampling of Cell 30 with less resources than planned (\$1.1 million), Program Management utilizing less resources (\$3.1 million) and under run in overhead allocations (\$1.8 million).

Variance at Completion (+\$31.2M/+6.6%)

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

Contract Performance Report Formats are provided in Appendix A.

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

WBS 040/RL-0040 Nuclear Facility D&D	FY2015		
	Projected Funding	Spending Forecast	Spend Variance
RL-0040	12.5	12.4	0.2

Numbers are rounded to the nearest \$0.1 million.

Funds/Variance Analysis

FY2015 initial budget guidance received from RL reflects expected funding of \$445.1 million. The FY2015 Spending Forecast of \$12.4 million is essentially unchanged from the prior month, which incorporated actions to achieve the funding targets.

Critical Path Schedule

Critical path analysis can be provided upon request.

Baseline Change Requests

- BCR-PRC-15-005R0 - *Definitization of CO 242, DOE 0 420.1C, Facility Safety*
- BCR-PRC-15-006R0 - *Definitization of Co 228, Activities in Support of Ecology Agreed Order*
- BCR-PRC-15-007R0 - *CO 248, Implement DOE-0342, Rev. 2A, Hanford Site CBDPP Revision*
- BCR-PRC-15-011R0 - *Incorporate FY2015 Performance Measures*
- BCR-PRC-15-012R0 - *Successor Logic Adjustments for FY2015 and Beyond*

MILESTONE STATUS

None currently identified.

SELF-PERFORMED WORK

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

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.

Section F

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



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

November 2014
CHPRC-2014-11, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

Completed 100K Characterization Wells change proposal; mobilized and initiated the earthwork required for site prep; and completed training on the use of special shipping containers for high rad sample shipment. Completed demolition of MO-293 and MO-442 and disposed into Environmental Restoration Disposal Facility (ERDF).

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	0	N/A
First Aid Cases	0	0	N/A
Near-Misses	0	0	N/A

KEY ACCOMPLISHMENTS

- 100K Characterization Wells:
 - o Mobilized and initiated the earthwork required for site prep
 - o Issued Request for Proposal (RFP) for drilling support and received proposals
 - o Completed training on the use of special shipping containers for high rad sample shipment
 - o Submitted change proposal
- 100K Head House Area Demolition:
 - o Completed demolition of MO-293 and MO-442 for disposal into ERDF
 - o Area is now suitable for waste site remediation
- Completed Surveillances:
 - o Radiological – 28

MAJOR ISSUES

None currently identified.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

 Risk Response Effective
 Risk Response Partially Effective
 Risk Response Not Effective

 Increased Confidence
 No Change
 Decreased Confidence

Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
RL-0041				
WSR-047: Unforeseen Waste Site Event	Perform routine surveillances and maintenance of waste sites including herbicide application.			No concerns during the month of November.
KBC-043: Waste Site Remediation Completion Requirements	Regulator acceptance that cleanup criteria have been achieved on a waste site by waste site basis. The Project may be directed to install monitoring wells to determine if contamination is detected in groundwater.			Installation of two additional KE Characterization wells. UPR-100-K1; 116-KE-3. Completed design phase in August. Received CO from RL for construction and well installation. Subcontracts awarded and field work to commence in November 2014, and expected to finish late FY2015.
KBC-048: Unexpected Industrial Contamination	D-4 activities are conducted in accordance with CHPRC IH and Rad protection programs to minimize contamination spread. Prior to D&D activities, the existing and historical records are reviewed to identify areas of likely industrial contamination.			No concerns during the month of November.
KBC-ISS-004: Unforeseen Facility Event Impacts Safety or Environment	The ISMS processes and facility worker training will identify and correct weaknesses such that hazards are eliminated prior to an event. However, some events are unpredictable.			No concerns during the month of November.

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	0.3	0.5	0.4	0.2	65.3%	0.1	20.9%

Numbers are rounded to the nearest \$0.1M

CM Schedule Performance (+\$0.2M/+65.3%)

The variance is within reporting threshold.

CM Cost Performance (+\$0.1M/+20.9%)

The variance is within reporting threshold.

Contract-to-Date (\$M)

WBS 041/ RL-0041 Nuclear Facility D&D – River Corridor	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)
Total	311.0	311.1	283.0	0.1	0.0%	28.1	9.0%	394.7	364.9	29.8

Numbers are rounded to the nearest \$0.1M

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

The schedule variance is within threshold.

CTD Cost Performance (+\$28.1M/+9.0%)

The positive variance is primarily the result of prior year activity that have been previously reported and CSNA sites that were completed early and under costs. In addition, less demolition was required for the KE Sedimentation Basin as well as underruns in G&A and Direct Distributables. This is partially offset by the cost overruns in prior years for the Utilities Project.

Variance at Completion (+\$29.8M/+7.6%)

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

Contract Performance Report Formats are provided in Appendix A.

FUNDS vs. SPEND FORECAST (\$M)

WBS 041/RL-0041 Nuclear Facility D&D – River Corridor	FY2015		
	Projected Funding	Spending Forecast	Spend Variance
RL-0041	6.8	6.3	0.4

Numbers are rounded to the nearest \$0.1M.

Funds/Variance Analysis:

FY2015 initial budget guidance received from RL reflects expected funding of \$445.1 million. The FY2015 Spending Forecast of \$6.3 million is unchanged from the prior month, which incorporated actions to achieve the funding targets.

Critical Path Schedule

Critical Path Analysis can be provided upon request.

Baseline Change Requests

BCR-041-15-002R0 - CO 248, DOE-0342, Rev. 2A, Hanford Site CBDPP Revision, PBS RL-041 Impacts

BCR-041-15-003R0 - Incorporate FY2015 Performance Measures, PBS RL-041

BCR-041-15-004R0 - Successor Logic Adjustments for FY2015 and Beyond, PBS RL-041

BCR-PRC-15-011R0 - *Incorporate FY2015 Performance Measures*

MILESTONE STATUS

None currently identified.

SELF-PERFORMED WORK

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

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.

Section G

Fast Flux Test Facility Closure (RL-0042)



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

November 2014
CHPRC-2014-11, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

The Fast Flux Test Facility (FFTF) is being maintained in a low-cost surveillance and maintenance condition.

EMS OBJECTIVES AND TARGET STATUS

None currently identified.

TARGET ZERO PERFORMANCE

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

KEY ACCOMPLISHMENTS

- Completed:
 - o 16 Preventive Maintenance (PM) activities/operational surveillances
 - o Four radiological surveillances
 - o Four operational surveillances

MAJOR ISSUES

None currently identified.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

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

Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
RL-0042				
FFTF-012: Major Equipment or Structural Failure	FFTF suffers a major equipment failure or structural deterioration while in the Surveillance and Maintenance mode			Septic line was broken in September, and was repaired in the month of November. Project will continue to perform Corrective Maintenance activities, monitor levels and pump septic tank as required.

PROJECT BASELINE PERFORMANCE

Current Month
(\$M)

RL-0042 FFTF Closure	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)
Total	0.2	0.2	0.1	-0.0	-4.7%	0.1	41.0%

Numbers are rounded to the nearest \$0.1M

CM Schedule Performance: (-\$0.0M/-4.7%)
 The current period schedule variance is within threshold.

CM Cost Performance: (+\$0.1M/+41.0%)
 The current period cost variance is within threshold.

Contract-to-Date
(\$M)

RL-0042 FFTF Closure	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)
Total	18.4	18.4	15.2	(0.0)	-0.1%	3.2	17.6%	26.6	20.0	6.5

Numbers are rounded to the nearest \$0.1M

CTD Schedule Performance (-\$0.0M/-0.1%)
 The schedule variance is within reporting thresholds.

CTD Cost Performance (+\$3.2M/+17.6%)
 The cost variance reflects efficient use of resources to support deactivation activities.

Variance at Completion (+\$6.5M/+24.5%)
 The Variance at Completion is within reporting thresholds.

Contract Performance Report Formats are provided in Appendix A.

FUNDS VS. SPEND FORECAST (\$M)

FY2015			
RL-0042 FFTF Closure	Projected Funding	Spending Forecast	Spend Variance
RL-0042	1.4	1.3	0.1

Numbers are rounded to the nearest \$0.1 million

Funds Analysis

FY2015 initial budget guidance received from RL reflects expected funding of \$445.1 million. The FY2015 Spending Forecast of \$1.3 million is unchanged from the prior month, which incorporated actions to achieve the funding targets.

Critical Path Schedule

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

Baseline Change Requests

BCR-PRC-15-005R0 - *Definitization of CO 242, DOE O 420.1C, Facility Safety*
 BCR-PRC-007R0 - *CO 248, Implement DOE-0342, Rev. 2A, Hanford Site CBDPP Revision*
 BCR-PRC-15-012R0 - *Successor Logic Adjustments for FY2015 and Beyond*

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



November 2014
CHPRC-2014-11, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

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

CLASSIFICATION (When Filled In)																
CONTRACT PERFORMANCE REPORT FORMAT 1 - WORK BREAKDOWN STRUCTURE											DOLLARS IN Thousands of \$		FORM APPROVED OMB No. 0704-0188			
1. CONTRACTOR			2. CONTRACT				3. PROGRAM				4. REPORT PERIOD					
a. NAME CH2M HILL Plateau Remediation Company			a. NAME Plateau Remediation Contract				a. NAME Plateau Remediation Contract				a. FROM (YYYYMMDD) 2014 / 10 / 27					
b. LOCATION (Address and ZIP Code) Richland, WA			b. NUMBER RL14788		b. PHASE		c. EVMS ACCEPTANCE NO YES X 9/18/2009			b. TO (YYYYMMDD) 2014 / 11 / 23						
c. TYPE CPAF			d. SHARE RATIO													
5. CONTRACT DATA																
a. QUANTITY	b. NEGOTIATED COST	c. ESTIMATED COST OF AUTHORIZED UNPRICED WORK		d. TARGET PROFIT/ FEE	e. TARGET PRICE	f. ESTIMATED PRICE	g. CONTRACT CEILING	h. ESTIMATED CONTRACT CEILING		i. DATE OF OTB/OTS						
	5,468,189	17,370		228,503	5,696,692	5,547,435	5,696,692	5,547,435								
6. ESTIMATED COST AT COMPLETION						7. AUTHORIZED CONTRACTOR REPRESENTATIVE										
		MANAGEMENT ESTIMATE AT COMPLETION (1)		CONTRACT BUDGET BASE (2)		VARIANCE (3)		a. NAME (Last, First, Middle Initial) Corman, R. K.			b. TITLE Prime Contract Manager					
a. BEST CASE		5,240,492						c. SIGNATURE			d. DATE SIGNED 11/23/2014					
b. WORST CASE		5,479,803														
c. MOST LIKELY		5,318,932		5,485,559		(166,627)										
8. PERFORMANCE DATA																
WBS[1] ITEM (1)	CURRENT PERIOD					CUMULATIVE TO DATE					REPROGRAMMING ADJUSTMENTS			AT COMPLETION		
	BUDGETED COST		ACTUAL COST WORK PERFORMED (4)	VARIANCE		BUDGETED COST		ACTUAL COST WORK PERFORMED (9)	VARIANCE		COST VARIANCE (12a)	SCHEDULE VARIANCE (12b)	BUDGET (13)	BUDGETED (14)	ESTIMATED (15)	VARIANCE (16)
	WORK SCHEDULED (2)	WORK PERFORMED (3)		SCHEDULE (5)	COST (6)	WORK SCHEDULED (7)	WORK PERFORMED (8)		SCHEDULE (10)	COST (11)						
011 RL-11 NM Stabilization and Disposition PFP	7,925	9,846	9,868	1,921	(21)	746,902	716,970	753,693	(29,933)	(36,723)	0	0	0	937,583	962,618	(25,035)
012 RL-12 SNF Stabilization and Disposition	5,481	4,732	4,832	(749)	(100)	448,084	453,675	466,249	5,592	(12,574)	0	0	0	692,663	721,011	(28,348)
013 RL-13 Solid Waste Stabilization & Disposition	7,217	6,642	6,436	(575)	206	892,743	893,892	857,019	1,149	36,873	0	0	0	1,352,639	1,262,228	90,411
030 RL-30 Soil & Wtr Remediatn Grndwtr/Vadose Zone	10,453	8,521	8,160	(1,932)	361	1,036,376	1,031,429	1,018,013	(4,947)	13,416	0	0	0	1,518,908	1,470,909	47,999
040 RL-40 Nuclear Facility D&D Remainder of Hanford	818	829	822	10	7	391,004	390,864	360,127	(140)	30,737	0	0	0	469,967	438,747	31,220
041 RL-41 Nuclear Facility D&D - River Corridor	299	494	391	195	103	311,004	311,093	283,000	88	28,093	0	0	0	394,735	364,917	29,818
042 RL-42 FFTF Closure	164	156	92	(8)	64	18,448	18,429	15,192	(20)	3,237	0	0	0	26,577	20,062	6,515
b. Cost of Money	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
c. Gen. and Admin.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
d. Undist. Budget														7,282	0	0
e. Sub Total	32,357	31,220	30,601	(1,137)	619	3,844,561	3,816,351	3,753,292	(28,210)	63,058	0	0	0	5,400,355	5,240,492	159,863
f. Management Reserve														78,440		
g. Total	32,357	31,220	30,601	(1,137)	619	3,844,561	3,816,351	3,753,292	(28,210)	63,058	0	0	0	5,478,794		
9. Reconciliation to CBB																
a. Variance Adjustment																
b. Total Contract Variance									(28,210)	63,058				5,478,794	5,240,492	238,302

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

FORMAT 2, DD FORM 2734/2, ORGANIZATIONAL CATEGORIES

CLASSIFICATION (When Filled In)

CONTRACT PERFORMANCE REPORT FORMAT 2 - ORGANIZATIONAL CATEGORIES											DOLLARS IN - Thousands of \$			FORM APPROVED OMB No. 0704-0188				
1. CONTRACTOR		2. CONTRACT			3. PROGRAM			4. REPORT PERIOD										
a. NAME CH2M HILL Plateau Remediation Company		a. NAME Plateau Remediation Contract			a. NAME Plateau Remediation Contract			a. FROM (YYYYMMDD) 2014 / 10 / 27										
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788			b. PHASE			b. TO (YYYYMMDD) 2014 / 11 / 23										
c. TYPE CPAF		d. SHARE RATIO			c. EVMS ACCEPTANCE NO YES X 9/18/2009													
5. PERFORMANCE DATA																		
ITEM (1)	CURRENT PERIOD						CUMULATIVE TO DATE						REPROGRAMMING ADJUSTMENTS			AT COMPLETION		
	BUDGETED COST		ACTUAL COST		VARIANCE		BUDGETED COST		ACTUAL COST		VARIANCE		COST VARIANCE (12a)	SCHEDULE VARIANCE (12b)	BUDGET (13)	BUDGETED (14)	ESTIMATED (15)	VARIANCE (16)
	WORK SCHEDULED (2)	WORK PERFORMED (3)	WORK PERFORMED (4)	SCHEDULE (5)	COST (6)	WORK SCHEDULED (7)	WORK PERFORMED (8)	WORK PERFORMED (9)	SCHEDULE (10)	COST (11)								
34 - Envr Program & Strategic Planning	686	606	632	(80)	(26)	49,505	49,996	46,293	491	3,703	0	0	0	0	83,134	72,834	10,300	
340 - Environmental Prog & Regl Mgt	686	606	632	(80)	(26)	49,505	49,996	46,293	491	3,703	0	0	0	0	83,134	72,834	10,300	
35 - Business Services	0	0	0	0	0	23,047	23,047	23,520	0	(473)	0	0	0	0	23,047	23,520	(473)	
35D - Contract Mgmt & Facility Svcs	0	0	0	0	0	449,477	449,477	425,102	0	24,375	0	0	0	0	449,477	425,102	24,375	
35K - PRC Finance	0	0	0	0	0	472,524	472,524	448,622	0	23,902	0	0	0	0	472,524	448,622	23,902	
3B - PFP Closure	1,784	1,190	2,022	(593)	(832)	141,231	130,918	151,085	(10,313)	(20,168)	0	0	0	0	201,579	225,572	(23,993)	
3B0 - PFP Close/BOSS D&D & Infrastruc	2,499	4,731	3,938	2,233	793	149,013	140,003	153,047	(9,009)	(13,044)	0	0	0	0	192,656	203,592	(10,936)	
3B3 - Project Management/Subcontracts	1,425	1,425	1,124	0	300	50,428	50,428	42,000	(0)	8,428	0	0	0	0	74,095	60,202	13,894	
3B4 - Engrg Nuc Saf Plng&Wrk Control	676	678	719	2	(42)	55,080	54,149	43,984	(931)	10,165	0	0	0	0	73,244	67,836	5,409	
3B7 - Environmental & Waste	1,024	1,024	962	0	62	151,036	151,036	153,728	0	(2,692)	0	0	0	0	168,033	174,107	(6,074)	
3BA - Project Mgmt D&D	519	798	1,101	279	(303)	113,967	104,287	130,903	(9,680)	(26,616)	0	0	0	0	141,827	152,363	(10,537)	
3BB - PFP D4 Deputy Project Mgmt	0	0	0	0	0	0	0	0	(0)	(0)	0	0	0	0	0	0	(0)	
3BD - PFP Cold & Dark	7,925	9,846	9,868	1,921	(21)	660,754	630,821	674,747	(29,933)	(43,926)	0	0	0	0	851,435	883,673	(32,238)	
3C - Decom Waste Fuels & Remed Svcs	87	16	140	(72)	(124)	2,062	1,938	1,490	(124)	449	0	0	0	0	3,398	2,816	583	
36X - Support to 3C - W&FMP/D&D Project	2,399	1,743	1,788	(656)	(46)	40,290	43,647	65,215	3,357	(21,568)	0	0	0	0	90,721	128,288	(37,567)	
38X - Support to 3C - W&FMP/D&D Project	3,082	2,989	3,044	(93)	(55)	353,531	355,766	347,377	2,235	8,389	0	0	0	0	547,680	539,066	8,614	
3AD - Sludge Treatment Project	290	485	378	195	107	247,364	247,452	225,169	88	22,283	0	0	0	0	323,642	299,619	24,024	
3BX - Support to 3C - W&FMP/D&D Project	2,161	2,169	1,565	7	603	201,876	201,652	203,950	(224)	(2,299)	0	0	0	0	318,907	299,081	19,826	
3C4 - Waste & Fuels Project Controls	0	0	0	0	0	49,140	49,140	52,386	(0)	(3,247)	0	0	0	0	49,140	52,386	(3,247)	
3C5 - TRU Project	2,908	2,747	2,453	(160)	294	191,935	192,566	179,953	631	12,613	0	0	0	0	399,280	387,067	12,213	
3C9 - Liquid & Fuels Storage	0	0	0	0	0	0	0	0	1	(1)	0	0	0	0	0	0	(1)	
3CA - W&FMP Engineering	3,052	2,704	3,205	(348)	(501)	736,249	736,955	693,749	706	43,206	0	0	0	0	964,978	886,346	78,632	
3CD - Waste Disposition	13,979	12,853	12,573	(1,126)	280	1,822,447	1,829,116	1,769,291	6,669	59,825	0	0	0	0	2,697,746	2,594,670	103,076	
3D - Soil & Groundwater Remediation	1,764	1,631	1,156	(133)	476	104,542	104,685	103,400	142	1,285	0	0	0	0	194,769	170,673	24,096	
3D0 - Soil & Groundwater Remediation	2,095	1,640	1,618	(455)	22	153,912	153,782	143,395	(130)	10,387	0	0	0	0	257,061	239,608	17,454	
3D2 - GW Remediation Support	1,213	1,214	1,171	1	43	100,669	100,650	87,877	(20)	12,772	0	0	0	0	164,492	150,084	14,407	
3D4 - GW Operations	4,694	3,429	3,583	(1,265)	(154)	480,207	474,777	479,666	(5,430)	(4,889)	0	0	0	0	671,912	680,328	(8,416)	
3D8 - GW Analysis and Reporting	9,767	7,914	7,528	(1,852)	387	839,331	833,893	814,338	(5,438)	19,555	0	0	0	0	1,288,234	1,240,693	47,541	
b. Cost of Money	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
c. Gen. and Admin.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
d. Undist. Budget															7,282	0	0	
e. Sub Total	32,357	31,220	30,601	(1,137)	619	3,844,561	3,816,351	3,753,292	(28,210)	63,058	0	0	0	0	5,400,354	5,240,492	152,581	
f. Management Resrv.															78,440			
g. Total	32,357	31,220	30,601	(1,137)	619	3,844,561	3,816,351	3,753,292	(28,210)	63,058	0	0	0	0	5,478,794			

FORMAT 3, DD FORM 2734/3, BASELINE

November 2014 Monthly Report

CONTRACT PERFORMANCE REPORT FORMAT 3 - BASELINE													DOLLARS IN THOUSANDS			Form Approved OMB No. 0704-0188	
1. CONTRACTOR CH2M HILL Plateau Remediation Company b. LOCATION: Richland, WA				2. CONTRACT a. NAME: Plateau Remediation Contract b. NUMBER: RL14788 c. TYPE: CPAF d. SHARE RATIO:				3. PROGRAM a. NAME: Plateau Remediation Contract b. PHASE c. EVMS ACCEPTANCE NO YES X 9/18/2009				4. REPORT PERIOD a. FROM: 2014/10/27 b. TO: 2014/11/23					
5. CONTRACT DATA																	
a. ORIGINAL NEGOTIATED COST 4,312,366				b. NEGOTIATED CONTRACT CHANGE \$1,155,823		c. CURRENT NEGOTIATED COST (A + B) \$5,468,189		d. ESTIMATED COST AUTH UNPRICED WORK \$17,370		e. CONTRACT BUDGET BASE (C + D) \$5,485,559		f. TOTAL ALLOCATED BUDGET \$5,478,794		g. DIFFERENCE (E - F) \$6,765			
h. CONTRACT START DATE 6/19/2008				i. DEFINITIZATION DATE 6/19/2008		j. PLANNED COMPL DATE 9/30/2018		k. CONT COMPLETION DATE 9/30/2018									
6. PERFORMANCE DATA																	
ITEM (1)	BCWS CUM TO DATE (2)	BCWS FOR REPORT PERIOD (3)	SIX MONTH FORECAST							FY09-13 (10)	FY14 (11)	FY15 (12)	FY16 (13)	FY17 (14)	FY18 (15)	UNDISTRIB BUDGET (16)	TOTAL BUDGET (17)
			+1 Dec-14 (4)	+2 Jan-15 (5)	+3 Feb-15 (6)	+4 Mar-15 (7)	+5 Apr-15 (8)	+6 May-15 (9)									
a. PM BASELINE																	
(BEGIN OF PERIOD)																	
	3,844,286	32,082	31,249	38,754	33,501	35,769	45,763	37,825	3,391,477	391,653	451,711	430,630	362,660	364,679	0	5,392,810	
b. BASELINE CHANGES AUTH DURING REPORT PERIOD																	
BCR-012-15-002R0, Convert STSC Planning Package to Work Package																	
											(1)	1	1	(1)	0		
BCR-013-15-001R0, CO #263, ERDF Transfer Pipeline Construction																	
											500				500		
BCR-030-15-006R0, KR-4 Well Realignment Split																	
											(0)				(0)		
BCR-041-15- 003R0, Incorporate FY 2015 Performance Measures, PBS RL-041																	
											0				0		
BCR-041-15-002R0, CO #248, DOE-0342, Rev 2A, Hanford Site CBDPP Revision, PBS RL-041 Impacts																	
											113				113		
BCR-041-15-004R0, Successor Logic Adjustments for FY2015 and Beyond, PBS RL-041																	
											0				0		
BCR-PRC-15- 011R0, Incorporate FY 2015 Performance Measures																	
											0				0		
BCR-PRC-15-005R0, CO #242, DOE O 420.1C, Facility Safety																	
											84	31	30	30	175		
BCR-PRC-15-006R0, Definitization of CO#228 Activities in Support of Ecology Agreed Order																	
											2,284	1,113	(5,221)	609	(1,215)		
BCR-PRC-15-007R0, CO #248, DOE-0342, Rev 2A, Hanford Site CBDPP Revision																	
											691				691		
BCR-PRC-15-010R0, Undistributed Budget Adjustments November 2014																	
														7,282	7,282		
BCR-PRC-15-012R0, Successor Logic Adjustments for FY2015 and Beyond																	
											0				0		
c. PM BASELINE (END OF PERIOD)																	
	3,844,561	32,357	31,440	38,792	33,536	35,796	45,843	37,855	3,391,477	391,653	455,382	431,775	357,470	365,316	7,282	5,400,354	
7. MANAGEMENT RESERVE																	
																78,440	
8. TOTAL																	
																5,478,794	

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

CONTRACT PERFORMANCE REPORT											CLASSIFICATION (When Filled In)
FORMAT 4 - STAFFING											FORM APPROVED OMB No. 0704-0188
1. CONTRACTOR			2. CONTRACT				3. PROGRAM			4. REPORT PERIOD	
a. NAME CH2M HILL Plateau Remediation Company			a. NAME Plateau Remediation Contract				a. NAME Plateau Remediation Contract			a. FROM (YYYYMMDD) 2014 / 10 / 27	
b. LOCATION (Address and ZIP Code) Richland, WA			b. NUMBER RL14788				b. PHASE			b. TO (YYYYMMDD)	
			c. TYPE CPAF		d. SHARE RATIO		c. EVMS ACCEPTANCE YES 9/18/2009			2014 / 11 / 23	
5. PERFORMANCE DATA (All figures in whole numbers of equivalent month. One equivalent month equals on person working one month)											
Organizational Breakdown Structure (OBS)	ACTUAL CURRENT PERIOD	ACTUAL END OF CURRENT PERIOD (Cumulative)	FORECAST (Non-Cumulative)								AT COMPLETION
			SIX MONTH FORECAST								
			+1 Dec (4)	+2 Jan (5)	+3 Feb (6)	+4 Mar (7)	+5 Apr (8)	+6 May (9)	FY15-18 (13)		
ITEM (1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(13)	(15)	
300 - Office of the President											
35X - Support to President	6	440	5	5	5	5	5	5	5	5	205
	6	440	5	5	5	5	5	5	5	5	205
303 - Internal Audit											
303 - Internal Audit	5	314	4	4	4	5	5	5	5	5	195
	5	314	4	4	4	5	5	5	5	5	195
304 - General Counsel											
304 - General Counsel	4	301	4	4	4	4	4	4	4	4	192
	4	301	4	4	4	4	4	4	4	4	192
31 - Communications											
310 - Communications	8	721	9	9	9	9	9	9	9	9	351
	8	721	9	9	9	9	9	9	9	9	351
32 - Safety, Health, Security & Quality											
320 - Safety Health Security/Quality	24	2,050	28	27	27	27	26	25	25	25	1,006
321 - RAD PRO/Emergency Prep	8	815	9	9	9	9	9	9	9	9	353
322 - Nuclear Ops Supp & Compliance	5	730	8	8	8	8	8	8	8	8	312
324 - Quality Assurance	15	1,675	17	17	17	17	17	17	17	17	673
	53	5,271	61	61	61	61	59	59	59	59	2,345
34 - Environmental Prog & Strategic Planning											
340 - Environmental Prog & Regl Mgt	40	2,394	40	40	40	41	41	41	41	41	1,784
341 - Environmental Protection	0	1,000	0	0	0	0	0	0	0	0	0
	40	3,394	40	40	40	41	41	41	41	41	1,784
35 - Business Services											
35D - Contract Mgmt & Facility Svcs	26	3,203	27	27	27	27	27	27	27	27	1,101
35F - Industrial Relations	4	367	4	4	4	4	4	5	5	5	204
35H - Human Resources	17	1,052	16	16	15	14	14	14	14	14	573
35K - PRC Finance	12	962	13	13	13	13	13	13	13	13	507
	58	5,584	60	60	59	59	59	59	59	59	2,385
36 - Prime Contract & Project Integration											
360 - Prime Cont & Prj Integration	0	1	0	0	0	0	0	0	0	0	0
361 - Cont Compl & Change Mgmt	12	583	14	14	14	14	14	14	14	14	509
362 - Strategic Pln & Mgmt	15	1,277	14	17	17	17	17	17	17	17	754
363 - EVMS Compl & Rptg	16	1,322	15	15	15	16	16	16	16	16	588
	42	3,184	43	46	46	47	47	47	47	47	1,851
38 - Project Technical Services											
381 - Central Engineering	7	574	9	9	9	9	9	9	9	9	366
382 - Training & Procedures	10	2,110	10	10	10	10	10	10	10	10	390
383 - Operations Programs	7	783	7	7	7	7	7	7	7	7	273
384 - Project Delivery	11	1,092	10	10	10	10	10	10	10	10	396
	35	4,559	37	37	37	37	37	37	37	37	1,426
3B - PFP Closure											
3B0 - PFP Close/BOSS D&D & Infrastruc	61	5,011	56	58	61	62	60	56	60	60	1,522
3B3 - Project Management/Subcontracts	109	7,491	120	146	122	110	107	123	122	122	1,138
3B4 - Engrg Nuc Saf Plng&Wrk Control	62	2,184	56	56	56	56	56	56	56	56	520
3B7 - Environmental & Waste	33	2,694	33	33	33	33	33	33	33	33	603
3BA - Project Mgmt D&D	65	10,855	64	64	64	64	64	64	64	64	719
3BB - PFP D4 Deputy Project Mgmt	71	8,916	80	80	98	95	108	99	102	102	377
3BD - PFP Cold & Dark	0	0	0	0	0	0	0	0	0	0	0
	401	37,151	410	438	435	421	429	432	437	437	4,878
3C - W&FMP/D&D Project											
36X - Support to 3C - W&FMP/D&D Project	7	40	6	6	6	3	0	0	0	0	0
38X - Support to 3C - W&FMP/D&D Project	52	1,172	58	58	58	58	58	58	58	58	1,503
3AD - Sludge Treatment Project	138	15,605	132	134	134	133	133	133	133	133	6,272
3BX - Support to 3C - W&FMP/D&D Project	16	7,121	16	15	16	16	16	11	9	9	2,451
3C4 - Waste & Fuels Project Controls	59	6,578	61	60	62	64	66	65	65	65	2,671
3C5 - TRU Project	0	582	0	0	0	0	0	0	0	0	0
3C9 - Liquid & Fuels Storage	141	11,122	142	150	149	149	97	79	79	79	4,237
3CD - Waste Disposition	136	33,676	137	150	161	162	163	163	161	161	8,203
	547	75,898	552	573	586	584	532	509	506	506	25,336
3D - Soil & Groundwater Remediation											
3D0 - Soil & Groundwater Remediation	38	2,946	37	39	40	40	40	40	40	40	1,655
3D2 - GW Remediation Support	59	5,685	61	66	69	71	69	71	69	69	2,549
3D4 - GW Operations	59	4,958	51	51	51	51	51	51	51	51	2,169
3D8 - GW Analysis and Reporting	143	11,703	153	154	151	163	158	145	133	133	5,060
	299	25,292	303	311	311	325	317	307	292	292	11,434
Grand Totals:	1,499	162,109	1,528	1,587	1,596	1,597	1,544	1,512	1,500	1,500	52,382

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

CLASSIFICATION (When Filled In)									
CONTRACT PERFORMANCE REPORT FORMAT 5 - EXPLANATIONS AND PROBLEM ANALYSES							FORM APPROVED OMB No. 0704-0188		
1. CONTRACTOR		2. CONTRACT			3. PROGRAM		4. REPORT PERIOD		
a. NAME CH2M HILL Plateau Remediation Company		a. NAME Plateau Remediation Contract			a. NAME Plateau Remediation Contract		a. FROM (YYYY/MM/DD) 2014/10/27		
b. LOCATION (Address and ZIP Code) Richland, WA 99354		b. NUMBER DE-AC06-08RL14788		b. PHASE Base		b. TO (YYYY/MM/DD) 2014/11/23			
		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:	32,357	31,220	30,601	(1,137)	-3.5%	619	2.0%	0.96	1.02
Cumulative:	3,844,561	3,816,351	3,753,292	(28,210)	-0.7%	63,059	1.7%	0.99	1.02
	BAC	EAC	VAC in \$	VAC in %	TCPI				
At Complete:	5,400,354	5,240,492	159,862	3.0%	1.07				
Explanation of Variance/Description of Problem:									
Current Period Schedule Variance: The variance is within reporting thresholds.									
Current Period Cost Variance: The variance is within reporting thresholds.									
Cumulative Schedule Variance: The variance is within reporting thresholds.									
Cumulative Cost Variance: The variance is within reporting thresholds.									
Impact:									
Current Period Schedule: N/A									
Current Period Cost: N/A									
Cumulative Schedule: N/A									
Cumulative Cost: N/A									
Corrective Action:									
Current Period Schedule: N/A									
Current Period Cost: N/A									
Cumulative Schedule: N/A									
Cumulative Cost: N/A									
Monthly Summary (to include technical causes of VARs, Impacts, and Corrective Action(s):									
For November, the project was 3.5 percent behind schedule and 2 percent under planned cost. For FY2015, the project was 1.6 percent behind schedule and 8.2 percent under planned cost.									
Overall cost and schedule performance in November was within reporting thresholds.									
Corrective actions underway for PFP, PBS RL-0011 to include continued utilization of HAMTC collective bargaining agreement Craft Alignment, which is trending to increased time on tools, starting to recognize increased time on respirator, which will ultimately result in increasing efficiencies and recovering the negative schedule variance on the PFP project. CHPRC is also pursuing a significant change in the current PFP safety basis and criticality analysis, which if approved would allow an increase to the currently allowed fissile inventory for loading gloveboxes outside the facility. This is expected to reduce the time required to clean out some of the remaining high gram gloveboxes prior to shipment to W&FM for storage. These changes will also increase the efficiencies of future work activities and are expected to enable additional recovery of the schedule variance seen to date. PFP is also refining the DSA to a D&D mode vs. an operations mode which will allow decommissioning of the facility through alternate means. Implementation of this refined strategy, assumes implementation of the previously noted proposed changes in the PFP safety basis and criticality analysis. This will result in re-sequencing demolition activities; stabilizing some materials with grout and other stabilizers; reconfiguring the ventilation system to isolate the PRF canyon from the rest of PFP and the provision of temporary ventilation to allow stabilization and removal of the duct level utilizing equipment rather than exposing workers to the difficult work environment found there. No other specific corrective actions are planned at this time.									

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

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

Variance in Performance BAC and EAC: The variance at complete (VAC) between the BAC and EAC this month is a +\$159.9 million and +3.0% and is within reporting thresholds.

Format 1 and 3 Contract Data: Contract Price Adjustments

CPs - In Process		
	Total Authorized Unpriced Work	\$17,370
Approved Adjustments to Contract Price (not reflected in B.4-1 Table)		
	Total Negotiated Cost Changes	-
Grand Total Adjustments		\$17,370

Use of Management Reserve (MR) and Fee Activity:

MR Utilization

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

There were no changes to MR during November.

Fee Activity

BCR Number	Title	Fiscal Year	Fee
BCR-PRC-15-005R0	<i>CO #242, DOE O 420.1C, Facility Safety</i>	2014 - 2018	\$21K

Overall, Fee increased by \$21K during November.

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: 12/18/2014	Approved by:	Date:
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Appendix B

Project Services and Support (WBS 000)



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

M. A. Wright
Vice President for
Project Technical
Services

November 2014
CHPRC-2014-11, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

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

D. A. Millikin
Director of
Communications

R. M. Millikin
Vice President for
Prime Contract and
Project Integration

V. M. Bogenberger
Vice President for
Business Services
Chief Financial Officer

PROGRAM SUMMARY

Project Services and Support functional activities continue to provide support and technical services to all CHPRC projects as well as central management of cross-cutting services.

EMS Objectives and Target Status

Objective Number	Objective	Target	Due Date	Status
15-EMS-ADMIN-OB1-T1	Reduce energy intensity.	Increase facility occupancy rates to greater than 82% by compressing occupancy and vacating underutilized facilities. Vacated/unoccupied facilities declared unusable and designated inactive placed in Care Taker system.	9/30/15	10%
15-EMS-ADMIN-OB2-T1	Reduce the generation and/or toxicity of waste at the source.	Incorporate waste minimization language into at least 90% of CHPRC onsite/offsite event contracts. Train staff on "green" event planning, contract terms, and policy.	9/30/15	0%
15-EMS-ADMIN-OB3-T1	Maximize the acquisition and use of environmentally preferable products in the conduct of operations.	Establish green catalogs for products beyond office supply purchases on the web site and assuring the GSA supplier has been educated on this objective.	10/9/15	0%
15-EMS-ADMIN-OB3-T2	Reduce generation of paper waste.	Migrate 95% of all record generation to paperless. All records will be reviewed and moved into IDMS for permanent storage.	9/30/15	75%
15-EMS-PTS-OB1-T1	Reduce the potential generation and release of toxic, hazardous, and non-regulated chemical materials to the environment and evaluate for compliance with universal waste and other recycling requirements.	Monitor and evaluate spill prevention program to reduce and/or eliminate spills to the environment by surveillances, on-going training, and spill prevention techniques and ensure universal waste and other recycling requirements are being compliantly accumulated, stored, labeled, packaged, and tracked.	9/30/15	20%
15-EMS-ADMIN-OB4-T1 (Draft)	To expedite chemical Reportable Quantity (RQ) identification by the CHPRC single point of contact (SPOC) during a release or spill.	Develop RQ table for the single point of contact (SPOC) at CHPRC to use when evaluating a release or spill.	TBD	TBD

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	10	N/A
Near-Misses	0	0	N/A

KEY ACCOMPLISHMENTS

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

- SHS&Q activities provide support and technical services to all CHPRC projects and central management of crosscutting services. There were no SHS&Q Recordable injuries or First Aid cases during October.
 - o Occupational Safety and Industrial Hygiene (OS&IH) accomplishments:
 - Continued support of site-wide standards committees and site-wide steering committees.
 - Continue implementation of the Chronic Beryllium Disease Prevention Program (CBDPP) Revision 2A. Beryllium facility assessments have been completed on 621 CHPRC facilities. Characterizations of facilities are being performed as identified through the assessment process. Beryllium characterizations have been completed on 116 CHPRC facilities. An additional 52 facilities have been sampled and 80 are ready to be sampled.
 - Continued working with the Soil and Groundwater Remediation Project (S&GRP) Sample Management & Reporting (SMR) office to resolve shipping and rad release issues.
 - Continued support to Project Technical Services (PTS) for oversight of IH monitoring and sampling activities at the 100K Annex project.
 - Continued working with Project Facility Chemical Custodians (FCC) to complete qualification cards.
 - Continued efforts implementing the Global Harmonization Standard (GHS) requirements.
 - Continued to provide ergonomic assessments for Functional Organizations, the Plutonium Finishing Plant (PFP), and DWF&RS.
 - Provided technical support and guidance to S&GRP and DWF&RS with Confined Space classification and controls.
 - Provided support to PFP regarding fence installation around a WIDS site.
 - Provided support to PFP in resolving moisture issues with the PremAire system.
 - Working with other Hanford Site contractors to develop consistent ergonomic controls.
 - Participated in the site evaluation for the Environmental Restoration Disposal Facility (ERDF) Leachate Transfer Line to the 200W P&T.
 - o Radiological Control accomplishments:
 - Supported PFP in resolving Level B Suit condensation issue and associated Stop Work.

- Conducted RWP/AMW Improvements Working Group with representatives from each Project.
- Completed ALARA Work Site Assessment.
- Supported completion of CH2M HILL corporate home office Radiological Work Planning assessment.
- Continued progress in addressing radiological protection concerns identified by 100K personnel during FWS/FLM meetings.
- Continued work on Survey Simple upgrades with LMSI.
- Coordinated scheduling of on-site Internal Dosimetry course.
- Supported 100K DOE evaluated drill.
- o Nuclear Safety deliverables prepared and transmitted to RL in November include:
 - Documented Safety Analysis:
 - Letter, CHPRC-1404451A R1, November 4, 2014, *Natural Phenomena Hazards, Hanford Site, Washington.*
 - Letter, CHPRC-1404654, November 13, 2014, *Submittal of Revision 2 to DD-49580, Final Hazard Categorization for Interim Storage of the 105-KE Reactor Building, for RL Review and Approval.*
 - Letters received from RL in November include:
 - Letter, 14-NSD-0093_RL, dated November 7, 2014, *Transmittal of the 2014 Annual Update of the Documented Safety Analysis (DSA) for the 224-T Facility, CP-14614, Revision 5, and the Unreviewed Safety Question Determination Summary.*
 - Letter, 15-NSD-0001_RL, dated November 7, 2014, *Transmittal of the 2014 Annual Update to HNF-14804, Revision 5, B-Plant Documented Safety Analysis (DSA) and the Unreviewed Safety Question Determination Summary.*
 - Letter, 15-NSD-0005_RL, dated November 7, 2014, *Transmittal of the 105-K West Basin Safety Basis 2013 Annual Update for RL Approval.*
 - Letter, 15-NSD-0008_RL, dated November 25, 2014, *Transmittal of the Final Hazard Categorization for Interim Storage of the 105-K East (KE) Reactor Building, DD-49580, Revision 2, for RL Review and Approval.*
- o Contractor Assurance Regulatory Reporting (CARR) accomplishments:
 - 155 Condition Reports (CRs) were screened in November:
 - 1 Significant issues identified
 - 3 Adverse issues identified
 - 66 Track Until Fixed (TUF) issues identified
 - 31 Trend Only (TO) items identified
 - 53 Opportunity for Improvement (OFI) items identified
 - 1 Screen Out
 - 148 CRs administratively closed.
 - 309 CR actions administratively closed.
 - Provided cause evaluation support to CR-2014-1495, Common Cause / Root Cause Evaluation of Earned Value Management Assessments
 - Four Lessons Learned (Two external and two internal) were submitted to OPEX.
 - Coordinated conference call to discuss the results of the Defense Nuclear Facility Safety Board (DNFSB) review of the PFP Ventilation System, Back-out Plan, and High Mass Glovebox.
 - Coordinated the monthly CHPRC/DNFSB Information Request Status call.
 - Coordinated one DNFSB conference call concerning the Sludge Treatment Plant.
 - Fifty-Seven documents were provided in response to DNFSB requests for information.

- o Performance Oversight, Assessment, and Quality Assurance accomplishments:
 - Completed SHS&Q-20015-NSPEB-13324, Conduct of Operations focused NSPEB Review of S&GRP.
 - Participated in the INPO led Safety Culture Assessment training in Albuquerque in preparation for the safety culture assessment of WIPP.
 - Issued Assessment Program procedures for formal review and comment in preparation for a December issuance.
 - Finalized development of the CHPRC Assessment Fundamentals computer-based training course.
 - Continued effort to revise implementing procedures related to the Management Observation Program
 - Continued work with the Transportation organization in the procurement Safety Significant 55 and 85 gallon drums.
 - Supported the Ground Water Project in the review of various company responses for the Geophysical Data Logging services contract.
 - Provided a Suspect/Counterfeit Item briefing to the local chapter of the Institute of Supply Management (ISM) chapter.
 - Continued work with Lockheed Martin Information Services and the CHPRC Strategic Planning organization in the resolution of OCRWM records issues.
 - Continued to work with MSA and other site contractors in development of a strategy to reevaluate all subcontractors that are under extensions to their tri-annual re-audit requirement to remain on the Evaluated Suppliers list.
 - Supported the Waste and Fuels organization in the analysis of issues arising from the Commercial Grade Dedication management assessment and Fire Protection worksite assessment.
 - Attended the WCH Suspect Counterfeit training course to benchmark their instruction against what is provided by the CHPRC.
 - Quality Assurance Engineers were provided in-service training in the use of Direct Tension Indicating (DTI) technologies.
- Status of SHS&Q Focus Areas:
 - o **Issue:** Beryllium (Be) program assessment findings from DOE-HQ, Office of Safety, Health and Security Independent Oversight Inspection report.
 - o **Status:** Implementing Revision 2A across CHPRC. Supporting RL Be KPG recently identified for FY2015.
 - o **Action:** Beryllium facility assessments and characterization sampling are being conducted. Beryllium facility assessments have been completed on 621 CHPRC facilities. Additional personnel resources from MSA are being utilized for conducting Be assessments/characterization in PRC facilities. Weekly Be product status as per RL is being received from Be CAP committee.
 - o **Issue:** Accident & Injury Reduction.
 - o **Status:** Continue investigating recordable, DART, and first aid injuries to determine cause, prevention and reduction.
 - o **Action:** Continuing to interface with project personnel, supporting EZACs and project safety meetings for continued focus on injury prevention. Improved TRC/DART rate trends are demonstrating that these efforts are being effective.
 - o **Issue:** PFP Value Engineering (VE) Initiatives Path Forward.
 - o **Status:** Engaged PFP project personnel with SHS&Q central group SMEs.
 - o **Action:** Supporting PFP initiatives, supplied breathing air system implementation, new NDA equipment and process upgrades, and development of DSA Revision 12. NDA path forward to

be presented to RL in December.

Environmental Program and Strategic Planning (EP&SP)

- **Compliance Status**
 - Resolved discussions with EPA on waste storage location and LDR concerns at ETF. The LDR concerns were resolved favorably. EPA has indicated that they will propose a penalty on waste storage location item.
 - EPA and Ecology have informally indicated that the storage time for universal waste will be reduced from a maximum of two years to one. This would revoke a previous EPA position on this topic. A more formal explanation of this change in position is expected from the regulators.
- **RCRA Permitting Progress**
 - Ecology has indicated that the switch of LERF/ETF between contractors will require Part B renewal and approval. Historically, changes involving transfer between operating contractors have been processed as administrative permit changes. DOE-RL has sought clarification from Ecology on this significant departure in permitting approach.

Environmental Compliance & Quality Assurance (ECQA)

- **Assessment Program**
 - Met with Washington Closure Hanford to discuss support of their Environmental Management System (EMS) Internal Audit program as well as providing an external audit of conformance to the international ISO 14001 standard.
 - All corrective actions related to finding CR-2013-1515 “*Use of Pump Run Time for LERF Action Leakage Rate Calculations*” (Adverse) were completed.
 - All corrective actions have been completed related to finding CR-2014-0960 “*Surveillance S-14-00D-GPP-001 “Actionable Recommendations Were not Submitted to the CHPRC CRRS”*” and the condition report submitted for verification.
 - Tracking was initiated for condition reports that resulted from a corporate assessment focused on SWOC waste management processes; two findings and 18 opportunities for improvement (OFI).
 - ECQA performed reviews on a total of four technical documents and 6 Quality Assurance procedures.
- **Environmental Requirements Management**
 - Supported SWOC personnel in completing the identification of environmental requirement implementing documents for the T Plant Complex and Central Waste Complex.
 - A total of 47 compliance matrices have been reformatted and QC-checked in preparation for importing data into the requirements management software application, DOORS_PRC.

Business Services

- **Acquisition Planning**
 - Assisted DWF&RS with the WESF Stabilization/Ventilation Project W-130 and five upcoming procurement activities to support FY2015 work scope.
 - Prepared data for Small Business Plan annual update.
 - Prepared list of Upcoming Procurement Opportunities FY2015 to share with potential vendors.
- **Facilities and Property Management (F&PM)**
 - The twelve mobile office sections of MO293 and MO442 at 100K were disassembled and transported to the ERDF as part of the landlord facilities reduction initiative and to clear the path for ongoing D&D at K Area.
- **Finance**
 - Continued to reply to KPMG requests for data related to the ongoing FY2009-FY2013 incurred cost audits. Audits targeted to be completed by calendar year end.
 - November month end completed with one suspension due to CENTRC funding.

- o Completed Institutional Cost Report as requested by RL.
- o Gathered travel requests for early submittal of 3rd Quarter FY2015 Conference Travel Management Request.
- **Human Resources**
 - o A letter for a Special Adjustment Fund Request, along with supporting documentation and exhibits, was formally submitted to RL for approval on November 18, 2014.
 - o HR Staff members participated in a panel/workshop discussion on “Negotiating Salary and Benefits for New College Graduates” at the WSU Tri-Cities Campus on November 18, 2014. Approximately 20 WSU Tri-Cities students were in attendance. Topics covered included the salary negotiation process, determining salaries for certain careers, assessing personal values as part of the job search process, resume and interview tips, and discussion of our Intern and Co-op opportunities.
 - o Supported PFP resource planning in anticipation for work being completed toward Key Performance Goals. Effective management of resources will ensure continuation of work and that key skills are maintained and used toward subsequent performance goals.
 - o Hosted two employee meetings at ETF. WRPS representatives spoke with CHPRC employees that are planned to transfer to WRPS April 1, 2015. These meetings answered employee’s questions and provided an opportunity for the employees to meet the WRPS management team.
- **Procurement**
 - o Awarded/amended 83 contracts with a total value of \$3.8 million. Additionally, awarded 95 new material purchase orders valued at \$245,474 to support ongoing project objectives.
 - o At the end of the first 74 months of the PRC, procurement volume has been significant; \$2.16 billion in contract activity has been recorded with approximately 50.42 percent, or \$1.089 billion, in awards to small businesses. This includes 6,663 contract releases, 17,957 purchase orders, and 211,674 P-Card transactions.
 - o On November 11, 2014, Contract 55562 was awarded to ARES Corporation for the “Detailed Design for WESF Stabilization and Ventilation Project” in the amount of \$994,879.07 on a Time & Materials basis. This was as a result of competitive solicitation 271742 which was posted via the internet and also provided to ten potential offers.
 - o In support of the PTS P-Card acquisitions for construction projects, Procurement Management matrixed a P-Card holder to be located in the 200 East Core Area reporting to the PTS Director for Project Delivery.

Prime Contract and Project Integration (PC&PI)

- **Contracts Compliance and Change Management**
 - o In November, Prime Contracts Compliance received and processed one (1) contract modification (numbers 375) from RL. Correspondence Review received and determined the distribution for 38 incoming letters/documents. The Prime Contracts Compliance Manager reviewed 25 outgoing correspondence packages.
 - o There was one Notice of Change (NOC) letter provided to RL in November.
 - o Submitted two completion package letters for four FY2014 Performance Measures, which completed all the FY2014 packages.
 - o Notified RL of issues with FY 2015 Performance Evaluation Management Plan in MOD 362.
 - o Issued update to PRC-PRO-CMT-40118 PRC Correspondence.

Change Proposal/REA Summary

Change Proposals submitted on or ahead of due date	Request for Equitable Adjustments submitted	Supplemental Information submitted	Change Proposals definitized on or ahead of 180-day metric	Other Proposals Definitized
1	0	0	0	0

- o Estimating & Program Support provided the following support to the Projects:
 - Plutonium Finishing Plant (PFP):
 - Completed work and delivered a Fair Cost estimate to assist in the procurement of a temporary demolition boundary fence on November 11, 2014.
 - Completed a rough order magnitude estimate, supporting option decision making, to replace / segregate building ventilation supply systems during demolition, on November 6, 2014.
 - Sludge Treatment Project (STP):
 - Received letter from RL, returning the REA 012 1454 - *Sludge Treatment Project Work Scope Priorities and Sequestration Impacts*. The letter invited CHPRC to resubmit the REA, reflecting only the FY2013 Sequestration impacts for recognition and negotiation.
 - Decommissioning, Waste, Fuels & Remediation Services (DWF&RS) Project
 - Conducted a Truth in Negotiations Act review of CO 259, *Definitive Design Report for WESF Ventilation Project W-130*, on November 17, 2014, in preparation for negotiations with RL.
 - Continued development of a proposal in response to CO 263 – *ERDF Leachate Transfer Pipeline Construction*, due on December 8, 2014.
 - Soil & Groundwater Remediation Project (S&GRP):
 - Submitted CO 261, *Installation of Upload Station at 200 West P&T* on November 25, 2014.
 - Continued development on proposals in response to the following:
 - o CO 262 – *200 West P&T Membrane Bioreactor* received an extension of the submittal date: due December 11, 2014.
 - o CO 264 – *200-UP-1 Uranium Treatment Inside 200 West P&T*, due on December 8, 2014.
 - Continued development of a Request for Equitable Adjustment for impacts associated with RL’s decision to close the on-site analytical laboratory services via the Mission Support Alliance, WSCF laboratory.
 - Functional Area Support:
 - Safety, Health, Security & Quality
 - Responded to questions in support of RL’s review of CO 248, *Chronic Beryllium Disease Prevention Program, Revision 2A*, on November 6, 2014.
 - Project Technical Support:
 - Completed a fair cost estimate for paving of a parking lot at the 6267 Building
 - Initiated an estimate in support of a subcontracted effort to install a stairwell interlock door at PFP.
 - Attended and supported the review and definitization of claims submitted by the subcontractor (FEC) working on the STP Annex.
 - Completed development of a Rough Order Magnitude estimate in support of decisions to install a time keeping verification system at CHPRC.
- o Estimating Systems Administration

- Met with the RL Contracting Officer and supporting staff on November 13, 2014, to provide a walkthrough of CHPRC’s proposal format, and in-depth discussion on the data reports that are included in the submittal. Of particular focus was COBRA data reports that are used by RL’s cost / price analysts in review of proposals. Some actions taken from the meeting include a revised grouping of reports, column labeling, and adding notes in the Section 9 regarding the application of taxes.
- Updated the desktop instruction for data processing to reflect the changes implemented as actions taken from the meeting with RL on November 13, 2014.
- Conducted scheduled review and updates of pricing sources in the Sage and COBRA estimating databases.
- Met with subcontractor FTI, Inc., and initiated development of a strategy paper that will assist CHPRC and RL in dispositioning several REAs associated with PFP. FTI conducted data collection and interviews, and a report due date was established for December 18, 2014.
- Continued testing associated with the software upgrade for Sage Estimating that included several activities by the vendor to resolve “ghost columns” that appear on proposal reports; correcting software error messages that appear when developing customized report formats, and intermittent critical errors that ended operations and required re-start of the software server. The amount of time expended on testing was limited due to the number of proposals in process during November. This activity is expected to continue through February 2015.
- **EVMS Compliance and Reporting**
 - o The final recommendations for CR-2014-1495 - *Common Cause / Root Cause Evaluation of Earned Value Management Assessments*, were presented to the ESRB for concurrence. This common cause/root cause evaluation was performed to address why internal and external reviews of CHPRC’s Earned Value Management System continue to identify deficiencies despite aggressive CHPRC efforts to implement system improvements and address deficiencies identified by past assessments.
 - o Work on Management Assessment (MA) PC&PI-2015-MA-15016 - *Assessment of the Effectiveness of the Identification, Management, and Closure of Project Risks*, was initiated. This MA, which was initiated by CHPRC in response to recent criticism by the DOE IG of risk management at PFP, is being performed assess CHPRC’s risk management program and risk management execution for compliance with the requirements of the PRC, including DOE O 413.3A, Program and Project Management for the Acquisition of Capital Assets, and PRC-MP-MS-19361, CH2M HILL Plateau Remediation Company Project Execution Plan.
 - o Processed and incorporated 13 Baseline Change Requests (BCRs) into the Performance Measurement Baseline (PMB).
 - o Two one and a half day EVM training sessions were presented to participants representing Control Account Managers, Project Control, Estimating personnel, and the CHPRC Management Team. These classes, which include a knowledge test at the end, are intended to improve the capabilities of CHPRC personnel involved in implementation of the CHPRC EVMS and to educate them on current DOE-HQ OAPM EVM expectations.
- **Strategic Planning and Integration**
 - **Interface Management**
 - o Interfaces (Technical, Administrative and Regulatory):
 - Resolution reached on new parking area near C Farm that does not involve CHPRC WIDS site. Investigating further issues surrounding MSA/WRPS proposed site layout for trailer/parking installations on or near CHPRC WIDS sites.
 - Facilitated CHPRC D&D resources support of the 283W Water Treatment plant pump replacement. CHPRC insulators supported and completed all phases of asbestos abatement.
 - Facilitated resolution of a miss-communication between PFP supervisors and the crane and

- rigging loft regarding reassignment of resources during the work day. Communication protocol was re-emphasized between the affected parties.
- Facilitating agreement and contract mechanism for inter contractor use and reimbursement of HAMTC Union Leadership on CBA related business.
 - Facilitating MSA resource priority for 100k and 400 Area water line maintenance and repairs.
 - In discussions with MSA regarding 100K A9 fence repair/replacements to address DOE Operations Assessments (OA) indicating compliance concerns.
- o Annual Forecast of Services:
 - Status of usage based services needs ongoing and communicated to MSA as appropriate.
 - o Inter-Contractor Issue Resolution:
 - Attended weekly field interface and resource allocation meetings.
 - Participating in regular Interface Management leadership meetings with RL, MSA and WRPS.
 - Attended Nuclear Safety Forum Quarterly meeting.
 - Attended Contractor Interface Board (CIB) meeting hosted by MSA.
 - Resolution reached on stop work regarding radiological protection requirements associated with MSA Biological Controls work in or around CHPRC WIDS sites. Radiological Program Plan (CHPRC 00072, Revision 5) and Biological Controls AIA (40686, Revision 3) are being revised.
 - o Controlling and Service Agreements:
 - HNF-23474 Revision 2, ICD between CHPRC and JCI for Hazardous Energy Control - Revision in process
 - HNF-46148 Revision 3, ICD between CHPRC and MSA for Water System Services (In USQ/Engineering release) – Routing for approval.
 - HNF-40686 Revision 5, AIA between CHPRC, WRPS and MSA for the Integrated Biological Controls Program – Revision in process.
 - HNF-3395, Revision 5, ICD between the 242-A Evaporator Facility and the Liquid Effluent Facility – Issued.
 - New AIA for the Centralized Consolidation/Recycling Center Acceptance of Waste and Other Recycling Services in development and review process. Comments provided to MSA Interface Management.
 - New AIA for Waste Treatment Plant Operational Readiness Review support undergoing review and contract scope analysis. Agreement on AIA language was reached and the document is routing for approvals.
 - Participating in development of a proposed Inter-Contractor Stop Work AIA. Provided comments to CHPRC Subject Matter Expert.
 - o J.3 Table:
 - Reviewing WRPS proposed update to J.3 32 RSS Services item regarding updating ANSI references. Still in review mode.
 - Reviewed MSA proposed update to J.3 30 Ecological Monitoring and Compliance relating specifically to the Migratory Bird Treaty Act. Comments provided to MSA Interface Management. Final resolution of wording still ongoing.
 - o J.13/J.14 Tables:
 - Comments provided on Quarterly review of J.13/J.14 tables. Comments include acceptance of buildings 275W and 4707 which will allow cancellation of the existing AIAs.
 - Developing process flow diagram to facilitate discussions with DOE AMRP regarding process improvements to the J.13/J.14 review/approval processes and appropriate contract actions. Follow up discussions with DOE AMRP resulted in modifications to the proposed process which are being communicated with CHPRC projects and MSA.

- Reviewed and concurred proposed MSA Long Term Stewardship (LTS) contract action involving CHPRC waste site 600-55 transferring to MSA LTS.
- Facilitated establishing contract mechanism for CHPRC to support MSA Electrical Utility installation of new data loggers in various CHPRC impacted facilities.
- Investigating WRPS proposal to transfer 244-AR Vault and 241-EW-151 CHPRC waste sites to WRPS to simplify intrusion mitigation efforts.
- o Internal Operations:
 - Revision of Interface Management PRC-PRO-MS-10472 is in progress.
 - Continue support of ETF/LERF/TEDF transition to WRPS, as requested.
 - Continue to work field interface for the return of the LERF Basin 80 ton crane to WRPS.
 - Continue efforts on work management improvement initiatives relative to other contractors performing work in CHPRC facilities (Co-effort with PTS).
 - Investigating performance issues with the MSA Chlorinator Serviceman and support for the 100 and 400 area water systems operations and maintenance.

Information Management

- o Software development of the Respiratory Protection Equipment Tracking automated system continues.
- o Continued inventory of all OCWRM holdings located at the 3212 Building to locate approximately 1000 records that do not have specific box locations on the OCRWM Index. 75 percent of documents have been tied to a box location to date.
- o Provided IT, event logistics, and facilitation support to company manager meetings, EZAC, PZAC, and Leadership Impact Initiative training
- o Provided information clearance and release support for 100K, S&GRP, DWF&RS, SHS&Q and PTS documents.
- o Provided numerous IT support requests for cellular phone issues/questions, meeting set-up, network connections, and printing.
- o Processed 9,300 Electronic Records into IDMS.

Project Technical Services (PTS)

• Central Engineering

- o Fire Protection Engineering
 - CHPRC-02358, *Code Interpretation for T Plant and Hazardous Material Requirements*, was completed and issued. The document will be transmitted as an attachment in a letter to RL.
 - Working with and the Hanford Fire Marshal's Office to streamline the Fire Marshal Permitting process for groundwater activities.
 - Coordinated with SHS&Q to make the TSR driven annual assessment of the SWOC FHA more efficient.
 - Submitted the 105KW Triennial Fire Protection Assessment (FPA) and sent to 105KW operations for review.
- o Engineering Services
 - Continued review of the 105KW Annex construction submittals.
 - Performed a final design peer review for the ERDF Leachate Transfer Line to the 200 West Pump-and-Treat project.
 - Supporting S&GRP in the evaluation of the Hatched Solids Recycle Pump Sump Cover.
 - Supported ECRTS in the Engineering Evaluation of the 105KW monorail loads.
 - Supported S&GRP in the review of the Membrane Biological Reactor System for 200W Pump-and-Treat Facility SOW.
 - Supported issuance of ECRTS Safety Significant fabrication, General Service's fabrication, and Ingress/Egress leak detector assembly.

- o Engineering Standards/Programs
 - Supported HEPA filter procurement of ECRTS process box inlet HEPA filters labeling issue resolution.
 - Supported the ECRTS seismic restraint loading evaluation.
 - Provided 100K West Annex construction project with a basis for accepting the UL recognized component marking on the boiler control system.
 - Assisted 100K West Annex construction project with obtaining seismic sensor NRTL certification resolution.
 - Supported RL in resolution and input of comments into Rev/Com on DRAFT DOE-STD-3020, “Specification for HEPA Filters Used by RL Contractors.”
 - Provided code interpretation to the 105 KW Project related to the Validation and Verification of software used for fire systems hydraulic calculations.
 - Supported T Plant on technical basis for stack flow rates and impacts to the stack monitoring system.
- **Procedures and Training**
 - o Completed PFP Field Work Supervisors qualification package revision.
 - o Completed procedure changes in support of U Plant’s safety basis down-grade to a less than hazard category 3 facility.
 - o Completed procedure development and mock up training on ECRTS at MASF.
- **Operations Program**
 - o Participated in the EFCOG Work Control subgroup fall working meeting.
 - o Supporting DWF&RS with hazardous energy control events follow on actions.
 - o Supported Nuclear Safety Performance Evaluation Board for S&GRP review.
 - o Supported a safety stand down for a construction subcontractor by presenting work control and Conduct of Operations presentations.
 - o Continued to work with MSA biological Controls on a path forward for developing a predictable service to the projects.
 - o Assisted S&GRP with conduct of operations/operator aids and associated Corrective Actions effectiveness review.
 - o Conducted Independent Evaluation of Drill for Exercise Credit for 100K.
 - o Conducted two full up drills, three ICP limited drills and supported the projects conducting Operations drills.
 - o Issued S&GRP and PTS Hazards Survey update.
- **Project Delivery**
 - o S&GRP
 - Completed road crossings for wells YJ08 (2) and ME53.
 - HDPE layout and bonding for well YJ16 commenced.
 - Piping for UP1 transfer line (DWHHDPE) received and commenced bonding procedure development.
 - Completed shop fabrication of well YE25 manifold.
 - Set foundations for the 289T weather enclosure, weather enclosure expected delivery of December 4, 2014.
 - 289T sunshade design build contract awarded.
 - o DWF&RS
 - Completed repair to WRAP 2336 building roof.
 - Performed walkdown for 105KW roof repairs.
 - 189 Clearwell tank CCR issued and approved. Weld demo scheduled for second week in December.
 - ERDF transfer line 90 percent design review issued, in comment resolution.

- WSCF - Asphalt contract awarded and work scheduled for second week in December.
- o PFP
 - Door 107 removed. Unexpected contamination encountered during door removal. Work placed on hold, Occurrence Report generated, and HRB and replanning exercises conducted. Work recommenced November 10, 2014.
 - SOW completed for PFP floor access hatch and airlock for door 107, RFP anticipated for second week in December.
 - Proposals received for PFP fence, contract award anticipated for second week of December.
- **KW Annex Construction**
 - o Continued the layout of Mechanical (ME) and HVAC equipment.
 - o Took delivery of the ME (minus fire protection –scheduled for Early December) safety significant material
 - o Initiated the installation of the hanger material in the ME and HEPA rooms.
 - o Initiated the installation of electrical panels in the ME and HEPA rooms.
 - o Completed the installation of the in ground hydronic pipe between the building and chiller pad.
 - o Completed shop fabrication and anti-microbial coating of the galvanized ductwork.
 - o Initiated the shop fabrication of the AG-1 stainless steel exhaust ductwork.
 - o Completed the epoxy flooring in the Low and Intermediate Bays (minus the top coat to be applied at the end of the ME/EE installation).
 - o Initiated the epoxy flooring in the Load Out and High Bay areas – scheduled for Early December completion).
 - o Completed the roof test for all three roofs.

Communications

- CHPRC Communications wrapped up the final series of meetings held throughout the company to share FY2014 company achievements, FY2015 company goals and specific goals for each project or functional area. CHPRC President and Chief Executive Officer John Ciucci and Chief Operating Officer Bill Kirby shared their expectations and discussed their visions for the next year. Communications produced a video shared at these meetings that highlighted FY2014 accomplishments.
- In conjunction with these meetings, CHPRC Communications communicated the Department of Energy Richland Operations Office 2015 KPGs and those applicable to CHPRC. Other notable all employee communications included an overview of feedback from a September 2014 all-employee survey conducted on preferred CHPRC communication mediums, methods and employee recognition efforts.
- CHPRC Communications supported RLs request to prepare story outlines for a *Popular Science* writer to visit the Hanford Site and visit CHPRC projects. Communications responded to media requests from the *Tri-City Herald* and *Weapons Complex Monitor* regarding the FY2013 Fee determination.
- The Department also assisted RL with Hanford Site tours for Bill Levitan and Rob Seifert (EM-10 and EM-11), Atomic Energy of Canada, Japan's Nuclear Damage Compensation and Decommissioning Facilitation Corporation (NDF), new members of the HAB and the River Plateau (RAP) Committee.
- The Department produced weekly communications highlighting CHPRC employee involvement in safety and messages regarding:
 - o United Way from Vicki Bogenberger, Vice President and Chief Financial Officer
 - o CHPRC's Customer Legacy goals from Moses Jaraysi, Vice President of Environmental Services and Strategic Planning
 - o Communication survey results from Dee Millikin, Director of Communications

- o FY2015 Key Performance Goals from Rick Millikin, Vice President of Prime Contract and Project Integration
- CHPRC Communications prepared a fact sheet and advertisement in support of an upcoming public comment period on Class 3 modifications to the Hanford Facility Dangerous Waste Permit for upgrades to the Waste Encapsulation and Storage Facility ventilation system and grouting of hot cells no longer in use. The comment period is expected to run from December 11, 2014, through February 12, 2015. The department also prepared information materials announcing the availability of the 100-FIU Operable Unit ROD.
- Communications coordinated work parties and collaborated with Friends of Badger Mountain for trail building and maintenance. Fifty volunteers donated 225 hours in November in support of the CHPRC Community Legacy project.

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	0.2	0.0	0.0%	(0.1)	-40.9%
Internal Audit	0.1	0.1	0.1	0.0	0.0%	(0.0)	-32.2%
General Counsel	0.1	0.1	0.1	0.0	0.0%	0.0	1.9%
Communications	0.1	0.1	0.1	0.0	0.0%	(0.0)	-17.1%
Safety, Health, Security and Quality	1.1	1.1	0.9	(0.0)	-0.3%	0.2	20.8%
Environmental Program and Strategic Planning	0.3	0.3	0.4	0.0	0.0%	(0.0)	-8.7%
Business Services	1.5	1.5	1.6	0.0	0.0%	(0.1)	-8.3%
Prime Contract and Project Integration	1.8	1.8	1.4	0.0	0.0%	0.4	23.5%
Project Technical Services	0.6	0.6	0.7	0.0	0.0%	(0.0)	-24.6%
Indirect WBS 000 Total	5.7	5.7	5.5	(0.0)	-0.1%	0.3	5.0%

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/+5.0%)

Variance is within reporting thresholds.

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

WBS 000 Project Services and Support	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)	Budget at Completion (BAC)
Office of the President	0.3	0.3	0.4	0.0	0.0%	(0.1)	-50.2%	1.7
Internal Audit	0.1	0.1	0.1	0.0	0.0%	(0.0)	-10.1%	0.7
General Counsel	0.2	0.2	0.1	0.0	0.0%	0.0	24.3%	1.2
Communications	0.2	0.2	0.2	0.0	0.0%	(0.0)	-18.3%	1.0
Safety, Health, Security and Quality	2.1	2.1	1.8	(0.0)	-0.2%	0.3	16.3%	13.9
Environmental Program and Strategic Planning	0.6	0.6	0.7	0.0	0.0%	(0.0)	-7.1%	4.3
Business Services	2.8	2.8	3.0	0.0	0.0%	(0.2)	-5.6%	16.2
Prime Contract and Project Integration	3.5	3.5	2.8	0.0	0.0%	0.7	20.4%	23.0
Project Technical Services	1.1	1.1	1.2	0.0	0.0%	(0.2)	-14.9%	7.3
Indirect WBS 000 Total	10.8	10.8	10.2	(0.0)	-0.0%	0.6	5.1%	69.2

Numbers are rounded to the nearest \$0.1M.

Indirect WBS 000

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

Variance is within reporting thresholds.

FYTD Cost Performance: (+\$0.6M/+5.1%)

The favorable cost variance is primarily due to less than planned IRM Business System Improvements, B&O Home Office Cost estimate reductions, and staffing vacancies currently in process of being backfilled.

Baseline Change Requests

BCR-PRC-15-005R0 – Definitization of CO 242, DOE 0 420.1C, Facility Safety

BCR-PRC-15-007R0 – CO 248, Implement DOE-0342, Rev 2A, Hanford Site CBDPP Revision

BCR-PRC-15-010R0 – Undistributed Budget Adjustments November 2014

BCR-PRC-15-011R0 – Incorporate FY2015 Performance Measures

BCR-PRC-15-012R0 – Successor Logic Adjustments for FY2015 and Beyond

BCRA-PRC-15-013R0 – HPIC Updates November 2014

FY2015 G&A Analysis (\$M)

WBS 000 Project Services and Support	FY2015					
	FYTD BCWS	FYTD Actual	FYTD Variance (O)/U	FY2015 BCWS	FY2015 Forecast	FY2015 Variance (O)/U
Office of the President	0.3	0.4	(0.1)	1.7	2.3	(0.6)
Internal Audit	0.1	0.1	(0.0)	0.7	1.0	(0.4)
General Council	0.2	0.1	0.0	1.2	1.2	0.0
Communications	0.2	0.2	(0.0)	1.0	1.3	(0.3)
Safety, Health, Security and Quality	2.1	1.8	0.3	13.9	12.8	1.1
Env. Program & Strategic Planning	0.6	0.7	(0.0)	4.3	4.5	(0.2)
Business Services	2.8	3.0	(0.2)	16.2	19.4	(3.2)
Prime Contract and Project Integration	3.5	2.8	0.7	23.0	21.3	1.6
Project Technical Services	1.1	1.2	(0.2)	7.3	8.1	(0.8)
General & Administrative (G&A)	10.8	10.2	0.6	69.2	72.0	(2.7)
		FYTD			FY2015	
G&A Distribution			(9.2)			(70.8)
G&A Liquidation (Over)/Under			0.9			1.2

Liquidation Analysis

- FYTD through November, application of the G&A rate has under-liquidated total to date G&A costs by \$0.9 million. The FY2015 year end projected under-liquidation of \$1.2 million reflected in the FYSF reflects a projected increase in the G&A costs.
- Consistent with CHPRC prospective Cost Accounting Disclosure Statement, under liquidations would be distributed to users at a minimum, when the combined projected year end under liquidation is equal to or greater than \$4 million. Over liquidations would be distributed to users at a minimum, when the combined projected year end over liquidation is equal to or greater than \$6 million. Variances may be liquidated to users at lower thresholds if variances are determined to be significant to cost control. All remaining variances will be distributed at fiscal yearend.

MAJOR ISSUES

None identified.

MILESTONE STATUS

None identified.

SELF-PERFORMED WORK

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

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None identified.