

Monthly Performance Report

November 2015

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

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



P.O. Box 1600
Richland, Washington 99352

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APPROVED

By Ashley R Jenkins at 12:12 pm, Jan 07, 2016

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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 2015
CHPRC-2015-11, Revision 0

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EXECUTIVE SUMMARY

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

- The Plutonium Finishing Plant (PFP) closure project continued activities in support of the decontamination and demolition (D&D) of PFP facilities. The project created access to the 242-Z tank room, completed size reducing of the top level of Glovebox HA-9A, continued 236-Z Plutonium Reclamation Facility (PRF) gallery glovebox isolations and continued PRF canyon waste debris clean-up, packaging, and load-outs.
- The Waste and Fuels Management Project (W&FMP) completed the fabrication of the Waste Encapsulation and Storage Facility's (WESF) new K3N heater and began testing. Canyon entries were conducted at WESF in order to wrap and relocate the hot cell window shadow shield. The project also completed roof repairs on the 2336-W and 2402-WB buildings at the Waste Receiving and Processing Facility (WRAP).
- The Soil and Groundwater Remediation Project (S&GRP) completed demolition of building 1713H and completed the 200-BP-5 Treatability Test.



Glovebox HA-9A with the top section of the glove box removed.



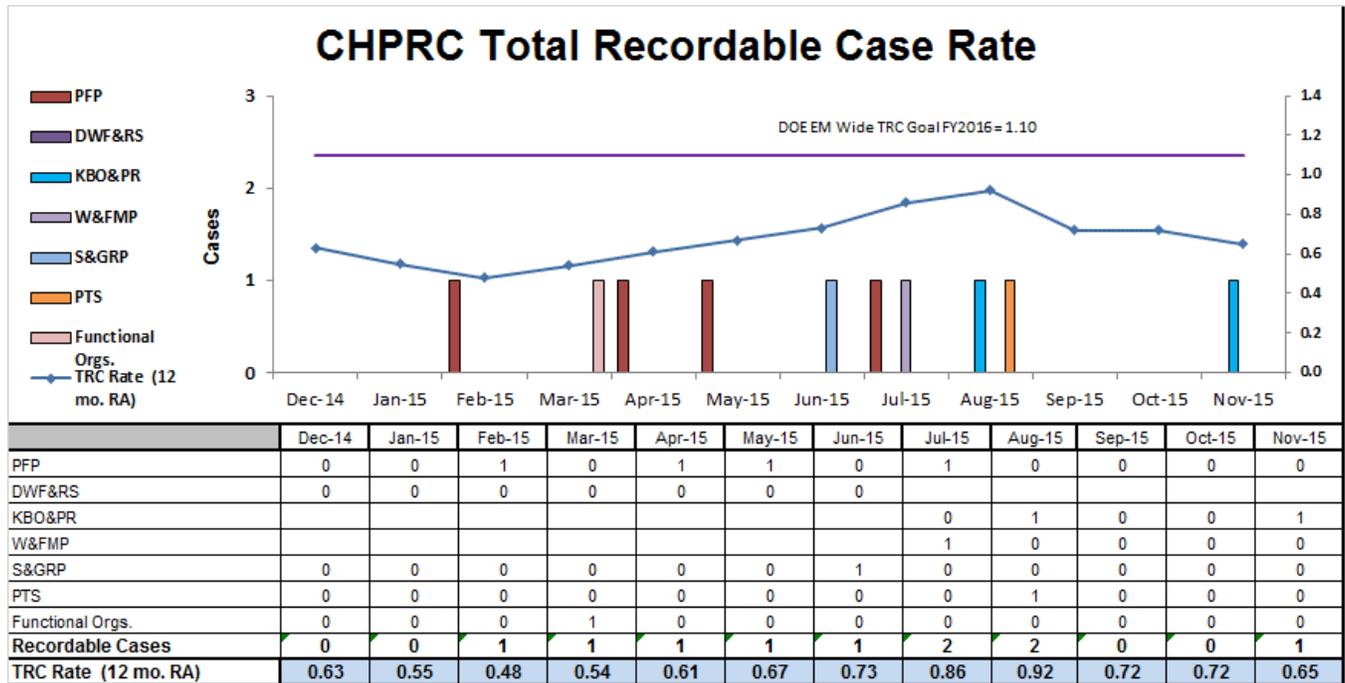
- The K Basin Operations and Plateau Remediation (KBO&PR) project continued procurement of Engineered Container Retrieval and Transfer System (ECRTS) process equipment and training related to sludge retrieval equipment activities at Maintenance and Storage Facility (MASF). The project issued requests for proposals to bidders for the construction of modification to T Plant for storage of retrieved sludge. Technical proposals were received from bidders and are being evaluated by the project team.

The November 2015 President's Zero Accident Council (PZAC) meeting was hosted by KBO&PR. The three main ideas for the meeting were:

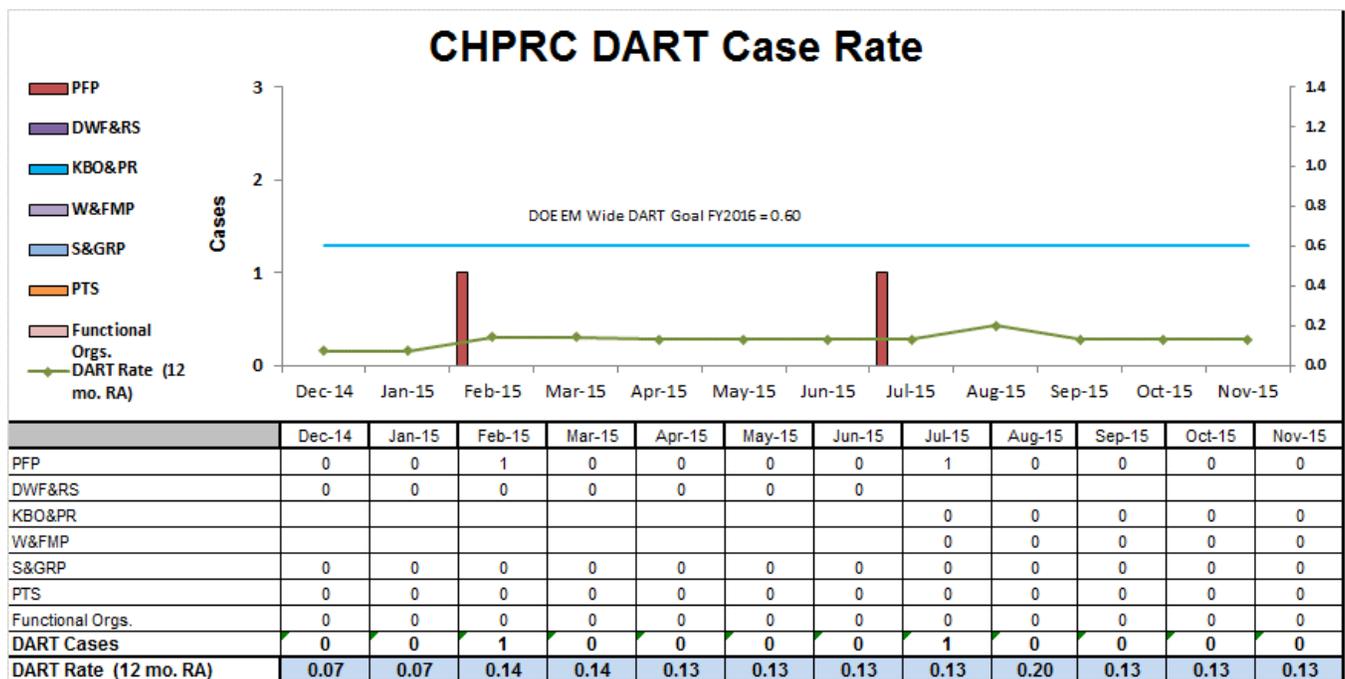
- o Holiday Safety: remember safety when deep frying turkeys and using ladders.
- o Holiday Stress: manage holiday stress by establishing realistic expectations.
- o Green Holidays: commit to reuse, recycle, and sustain in holiday traditions.
- Five “*Thinking Target Zero*” (TTZ) bulletins were published in November to convey important occupational, safety, health, and environmental messages:
 - o Winter Safety Campaign 2015-2016.
 - o Driving in foggy conditions.
 - o Holiday travel safety.
 - o Voluntary Protection Program (VPP) continuous improvement and how to get involved.
 - o EMS – Energy Conservation.
- November *Weekly Safety Tailgate* briefing packages communicated relevant topics and safety information to the workforce:
 - o Five Lessons Learned: Pipe layer severely injured in trench collapse; Massachusetts laborer compressed between scissor lift guardrail and steel beam; A power strip located under cashier's station in the workplace cafeteria catches on fire; Portsmouth, Ohio, worker loses footing and fractures ankle; Watch for loose rubber stair treads; and Near Miss safety alert – eye protection.
 - o “What Would You Do?” Ethics Awareness messages.
 - o Avoiding Back Injuries.
 - o Winter Safety Starts Now.
 - o Distracted Walking Injuries.
 - o Holiday cooking safety.
 - o Safety footwear requirements.
 - o Hard hat recycling pickup.
 - o Winter heating safety.
 - o Safety Refocus after the holiday.
 - o Disposal of E-Cigarette Waste.
- Weekly Updates in November featured blogs that highlighted safety, health, and environmental messages:
 - o Terry Vaughn, Vice President of Safety, Health, Security & Quality (SHS&Q), discussed the CHPRC Winter Safety Campaign.
- The November Kudos Corner recognized individuals and teams who made a significant contribution to safety at work, home or play:
 - o A PFP radiological control technician was recognized for spotting a potential chemical hazard and alerting coworkers.
 - o A CHPRC employee used her VPP Safety Kit to patch up the skinned knee of a child at the YMCA trick-or-Treat on the Trail event at Badger Mountain.
 - o A CHPRC Contract Assurance and Regulatory Reporting worker removed an object from the street that may have become an obstacle during the morning commute.
 - o A CHPRC worker noticed a large tree branch blocking the entrance and exit to the parking lot. He safely moved the branch off the road, allowing traffic to clear and safely enter and exit the parking lot.

TARGET ZERO PERFORMANCE

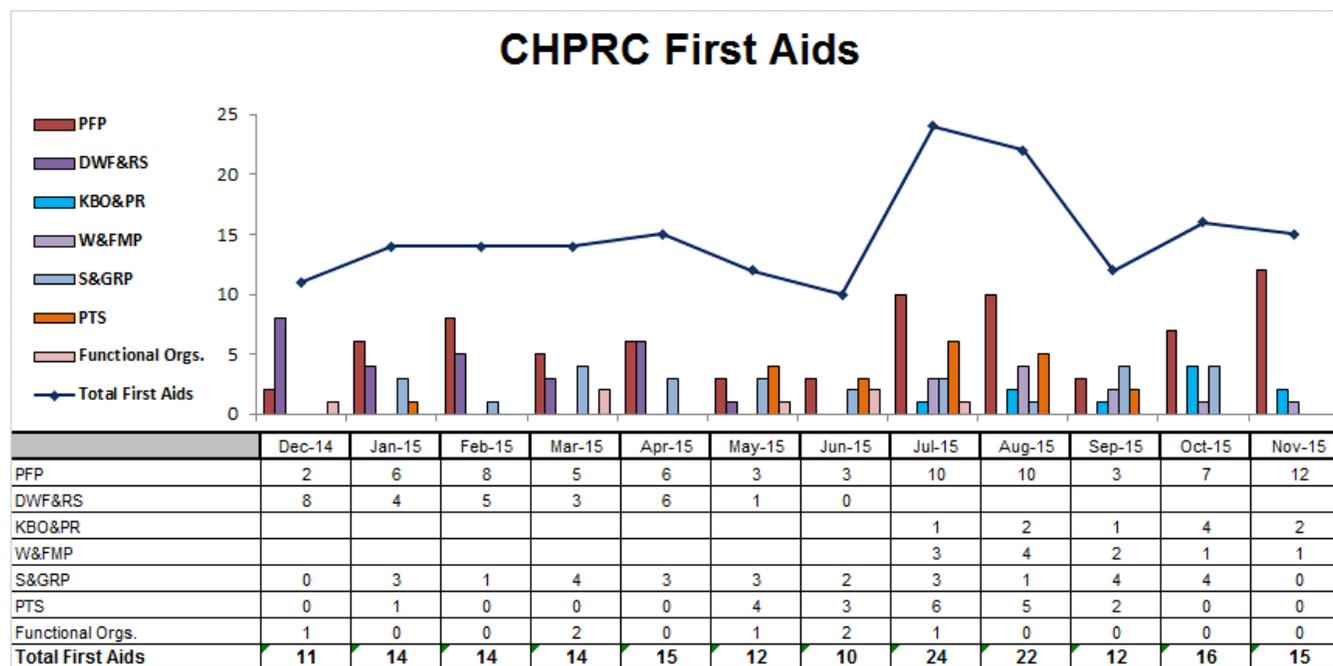
CHPRC continued focusing on integrating and implementing safety programs in all program and project areas.



Total Recordable Injury Case (TRC) Rate: The 12-month rolling average TRC rate of 0.65 is based on a total of 10 Recordable injuries. There was one Recordable case for November. There are no cases currently being evaluated or investigated for potential recordability.



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



First Aid Case Summary: CHPRC reported 15 first aid cases in November; of these, six cases required no treatment. There were three self-treated injuries. The contributors were six abrasions / contusions, five sprains / strains / pains, and four miscellaneous (irritation, shock, etc.).

KEY ACCOMPLISHMENTS

Projects

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

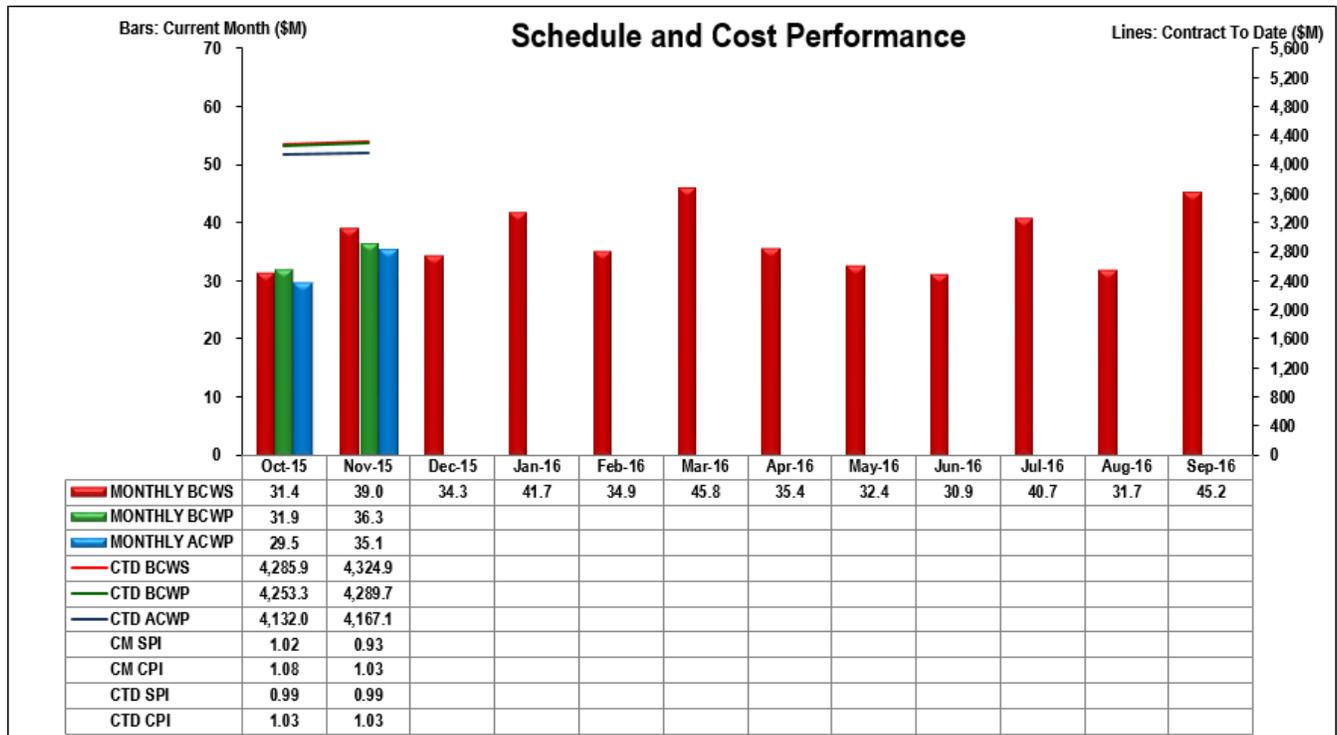
Project Services and Support

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

MAJOR ISSUES

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

EARNED VALUE MANAGEMENT



	\$M					\$M					\$M		
	Current Period					Contract to Date					Contract Period		
	Budgeted Cost		Actual Cost	Variance		Budgeted Cost		Actual Cost	Variance				
	BCWS	BCWP	ACWP	Schedule	Cost	BCWS	BCWP	ACWP	Schedule	Cost	BAC	EAC	Variance
RL-0011 - Nuclear Materials Stab & Disp PFP	10.2	7.7	8.0	(2.5)	(0.2)	882.0	851.1	857.3	(31.0)	(6.3)	969.8	967.5	2.3
RL-0012 - SNF Stabilization & Disposition	6.8	6.5	6.8	(0.3)	(0.3)	528.3	528.6	541.9	0.4	(13.3)	717.2	723.2	(6.0)
RL-0013 - Solid Waste Stab & Disposition	10.2	9.6	7.3	(0.7)	2.2	998.0	1000.6	941.1	2.6	59.5	1,335.7	1,270.0	65.6
RL-0030 - Soil & Water Rem-Grndwtr/Vadose	8.8	9.5	10.2	0.7	(0.6)	1172.5	1164.4	1145.3	(8.2)	19.1	1,567.8	1,516.2	51.6
RL-0040 - Nuc Fac D&D - Remainder	1.8	1.8	1.7	0.0	0.1	405.0	404.9	373.2	(0.1)	31.7	471.5	436.2	35.3
RL-0041 - Nuc Fac D&D - RC Closure Project	1.0	1.1	1.1	0.2	(0.0)	318.6	319.7	291.6	1.1	28.1	398.9	367.3	31.6
RL-0042 - Nuc Fac D&D - FFTF Project	0.2	0.2	0.1	0.0	0.0	20.4	20.4	16.7	0.0	3.7	26.7	22.7	4.0
Total	39.0	36.3	35.1	(2.6)	1.2	4,324.8	4,289.7	4,167.1	(35.2)	122.5	5,487.6	5,303.2	184.4

(Values are rounded to the nearest \$0.1M)

(Values do not have UB breakout)

Performance Summary

CHPRC continues to track completion of contract scope within budget and is currently projecting a Variance at Completion of \$184.4 million with \$60.7 million of Management Reserve for a total positive variance of \$245.1 million.

For November, the project was 6.7 percent behind schedule and 3.3 percent under planned cost. CTD, the project was 0.8 percent behind schedule and 2.9 percent under planned cost.

The current month unfavorable schedule variance is primarily due to PFP internal resources being reassigned to complete higher priority work (i.e. PRF D&D, Insitu Glovebox removal), resulting in fewer resources available to perform work as planned. The current month favorable cost variance is within reporting thresholds.

FUNDING ANALYSIS

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

PBS	Project	FY 2016		Variance
		Projected Funding	Spending Forecast	
RL-0011	Nuclear Materials Stabilization and Disposition	116.2	99.8	16.4
RL-0012	Spent Nuclear Fuel Stabilization and Disposition	114.3	85.4	28.9
RL-0013	Waste and Fuels Management Project	109.6	108.6	1.1
RL-0030	Soil, Groundwater and Vadose Zone Remediation	126.1	126.0	0.1
RL-0040	Nuclear Facility D&D, Remainder of Hanford	24.6	23.0	1.6
RL-0041	Nuclear Facility D&D, River Corridor	15.1	14.1	1.0
RL-0042	Fast Flux Test Facility Closure	3.3	1.7	1.6
Total Base:		509.3	458.6	50.7

Funds/Variance Analysis

FY2016 expected funding did not change in November, and remains at \$509.3 million. The Spending Forecast includes actions anticipated to achieve the funding targets, and decreased only slightly from last month.

BASELINE CHANGE REQUESTS

In November 2015, CHPRC approved and implemented eighteen (18) BCRs impacting the Performance Measurement Baseline (PMB). Each change request is identified in the table below:

Change Request #	Title	Summary of Change
BCR-011-16-001R0	<i>CO #297, Update Reg. Docs. Required for 242-Z/236-Z Slab Removal</i>	<p>This BCR incorporates the work necessary for CO management implementation, TPA change notice preparation, and submission of the TPA change notice required to obtain regulatory concurrence of changes from the previously approved documents:</p> <ul style="list-style-type: none"> • RAWP for the Deactivation, Decontamination, Decommissioning, and Demolition of the PFP Complex, • SAP for PFP Above-Grade Structures, and • PFP Complex End Point Criteria documents. <p>This BCR increased the PMB by \$134K.</p>
BCR-012-16-002R0	<i>Correct Planning Errors</i>	<p>This BCR corrects the error in the October BCR, BCR-PRC-16-002R0, Incorporate RL-0012 CAP 15-D-401 Sludge Retrieval Project Baseline, that resulted in the value of the T Plant modifications being overstated and changes the EVT from LOE to percent complete for a number of activities to improve performance reporting.</p> <p>This BCR decreased the PMB by \$342K.</p>
BCR-013-16-005R0	<i>CO #278, Procure DOE Type 7A Large Shipping Container (Super 7A)</i>	<p>This BCR incorporates the scope associated with the \$275K Note to Exceed (NTE) value for Change Order (CO) #278 authorized by Contract Modification (CM) 414.</p> <p>This BCR increased the PMB by \$69K.</p>
BCR-013-16-006R0	<i>Addition of Interim Milestones for Alternatives Analysis TRUM Disposition</i>	<p>This BCR adds interim milestones in response to an informal request from RL related to the preparation and submission to Ecology an engineering alternatives study for acquisition of capabilities and/or new facilities, modification of existing facilities, and/or modifications of planned facilities necessary for retrieval, designation, storage, and treatment/processing prior to disposal of all Hanford Site RH TRUM waste and TRUM waste in large containers.</p> <p>This BCR does not change the PMB value.</p>
BCR-013-16-007R0	<i>Revise T Plant Planning</i>	<p>This BCR modifies the planning for WBS 013.08.01.01.10 T-Plant Canyon Prep & Maintenance and WBS 013.08.02.01.01 T Plant Upgrades.</p> <p>This BCR does not change the PMB value.</p>
BCR-013-16-008R0	<i>CO #276, Additional WESF Occupancy</i>	<p>This BCR incorporates the work scope associated with the \$100K increase in the NTE value authorized by CM 440.</p> <p>This BCR increased the PMB by \$13K.</p>
BCR-030-16-007R0	<i>CO #298, 200-IS-1 Waste Site Change Package and Work Plan Update</i>	<p>This BCR incorporates scope associated with \$64K NTE value authorized by CM 434.</p> <p>This BCR increased the PMB by \$64K.</p>

Change Request #	Title	Summary of Change
BCR-030-16-008R0	<i>CO #295, 200-IS1 OU Geological Interface Segmentation</i>	This BCR incorporates the scope associated with the CO #295 \$58.05K NTE value provided by CM 429. This BCR increased the PMB by \$58K.
BCR-030-16-009R0	<i>Well Realignment Scope Re-plan for 100-KR-4 , 100-HR-3, and 200-ZP-1</i>	This BCR incorporates Contracting Officer direction received September 22, 2015 to move well realignment scope from 100-KR-4 to 100-HR-3 and 200-ZP-1 in Support of the FY2016 P&T Optimization Plan. This BCR does not change the PMB value.
BCR-030-16-010R0	<i>Definitization of CO#271, Tri-Party Agreement Administrative Upgrade</i>	This BCR incorporates the definitization of CO #271 as documented in CM 450 received November 22, 2015. This BCR increased the PMB by \$17K.
BCR-030-16-011R0	<i>CO #294, 100-KR-4 RI-FS Re-Write</i>	This BCR incorporates the changes proposal preparation and implementation scope associated with \$846K NTE value authorized by CM 428 issued on August 26, 2015. This BCR increased the PMB by \$37K.
BCR-030-16-012R0	<i>CO#293, 100-BC-5 OU RI/FS Decisional Draft Rewrite</i>	This BCR incorporates the additional scope associated with the increase in the NTE value for CO #293 by \$678K as authorized by CM 449 for a total authorized NTE value of \$1,011K. This BCR increased the PMB by \$678K.
BCR-040-16-002R0	<i>Deferral of PBS RL-040 Unfunded Work scope</i>	This BCR defers FY2016 scope associated with removal of central plateau steam lines funded in FY2016 to FY2017. This BCR does not change the PMB value.
BCR-041-16-003R0	<i>CO #289, Transfer of RCCC Work Scope to PRC - Part 2</i>	This BCR incorporates the balance of direct scope associated with the \$1 million NTE authorized by CM 417. This BCR increased the PMB by \$105K.
BCR-041-16-004R0	<i>Revise Planning Units for Hazardous Waste Resources (WA) to Cubic Meters (WZ), PBS RL-041</i>	This BCR changes the units for planning hazardous waste from packages to cubic meters for PBS RL-0041 to be consistent with the new site planning units for hazardous waste. This BCR does not change the PMB value.
BCR-PRC-16-014R0	<i>Revise Planning Units from Packages to Cubic Meters</i>	This BCR changes the units for planning hazardous waste from packages to cubic meters for PBSs RL-0013 and RL-0030 to be consistent with the new site planning units for hazardous waste. This BCR does not change the PMB value.

The Allocated (Distributed) Budget increased by \$832K.

Undistributed Budget Activity

BCR Number	Title	Fiscal Year	UB
BCR-041-16-005R0	<i>PBS RL-041 Undistributed Budget Adjustments November 2015</i>	2015 - 2018	\$-105K
BCR-PRC-16-015R0	<i>Undistributed Budget Adjustments November 2015</i>	2015 - 2018	\$1,793K

The Undistributed Budget increased by \$1,688K for an overall increase to the Performance Measurement Baseline of \$2,520K during November.

Management Reserve Activity

BCR Number	Title	Fiscal Year	MR
BCR-012-16-002R0	<i>Correct Planning Errors</i>	2015 - 2018	\$342K

Overall, there was an increase of \$342K to Management Reserve during November.

Fee Activity

BCR Number	Title	Fiscal Year	Fee
BCR-030-16-010R0	<i>Definitization of CO#271, Tri-Party Agreement Administrative Upgrade</i>	2015 - 2018	\$1K
BCRA-PRC-16-001R0	<i>Fee Allocation to PBSs</i>	2015 - 2018	\$0K

Overall, there was an increase of \$1K to Fee 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 2015 Summary of Changes

	FY 2009-2013	FY2014	FY2015	FY2016	FY2017	FY2018	FYs 2014-2018	Contract Period Total	Total PMB
October 2015 Estimate									
PMB	3,391,477	391,653	471,323	442,991	421,780	365,850	2,093,597	5,485,073	5,485,073
MR	0	0	0	21,239	13,984	25,107	60,330	60,330	60,330
Fee	155,504	14,325	14,501	21,292	9,463	17,822	77,403	232,907	232,907
Total	3,546,981	405,978	485,824	485,522	445,227	408,779	2,231,330	5,778,311	5,778,311
November 2015 Change									
PMB									
Change to PMB	0	0	0	504	4,017	-2,002	2,520	2,520	2,520
MR									
Change to MR	0	0	0	342	0	0	342	342	342
Fee									
Change to Fee	0	0	0	1	0	0	1	1	1
Total Change	0	0	0	848	4,017	-2,002	2,864	2,864	2,864
November 2015 Estimate									
PMB	3,391,477	391,653	471,323	443,495	425,797	363,849	2,096,117	5,487,593	5,487,593
MR	0	0	0	21,582	13,984	25,107	60,673	60,673	60,673
Fee	155,504	14,325	14,501	21,293	9,463	17,822	77,405	232,909	232,909
Total	3,546,981	405,978	485,824	486,370	449,245	406,778	2,234,194	5,781,175	5,781,175

Changes to/Utilization of Management Reserve in November 2015

	FY2009-2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2014-2018	Total
October 2015 MR Totals								
RL-0011	0	0	0	7,293	3,800	0	11,093	11,093
RL-0012	0	0	0	3,053	5,000	3,897	11,950	11,950
RL-0013	0	0	0	2,751	800	6,824	10,375	10,375
RL-0030	0	0	0	2,897	484	6,546	9,926	9,927
RL-0040	0	0	0	1,000	1,000	740	2,740	2,740
RL-0041	0	0	0	4,096	2,800	7,000	13,896	13,896
RL-0042	0	0	0	150	100	100	350	350
Total	0	0	0	21,239	13,984	25,107	60,330	60,331
November 2015 MR Changes/Utilization								
RL-0011	0	0	0	0	0	0	0	0
RL-0012	0	0	0	342	0	0	342	342
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	342	0	0	342	342
November 2015 MR Totals								
RL-0011	0	0	0	7,293	3,800	0	11,093	11,093
RL-0012	0	0	0	3,395	5,000	3,897	12,292	12,292
RL-0013	0	0	0	2,751	800	6,824	10,375	10,375
RL-0030	0	0	0	2,897	484	6,546	9,926	9,927
RL-0040	0	0	0	1,000	1,000	740	2,740	2,740
RL-0041	0	0	0	4,096	2,800	7,000	13,896	13,896
RL-0042	0	0	0	150	100	100	350	350
Total	0	0	0	21,582	13,984	25,107	60,673	60,673

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				Projection to FY18	
10/1/2008 - 11/30/2015				Planned Subcontracting:	\$2,439,813,277
Reporting Category				Contract-to-date awards:	\$2,294,173,594
				Bal remaining to award:	\$145,639,683
	\$ Value	%	Goal %	Goal award\$	Bal to Goal
SB	\$1,196,744,432	52.16%	49.3%	\$1,202,827,946	\$6,083,513
SDB	\$205,702,093	8.97%	8.2%	\$200,064,689	-\$5,637,405
SWOB	\$236,536,004	10.31%	7.5%	\$182,985,996	-\$53,550,008
HUB	\$45,161,924	1.97%	2.2%	\$53,675,892	\$8,513,968
VOSB	\$151,021,604	6.58%	3.5%	\$85,393,465	-\$65,628,139
SDVO	\$78,397,545	3.42%	1.3%	\$31,717,573	-\$46,679,973
NAB	\$36,236,137	1.58%	N/A	PRC clause H.20 small business requirement ≥ 17% of CHPRC Contract Price performed by SB.	
Large	\$608,192,698	26.51%	N/A		
GOVT	\$2,262,041	0.10%	N/A		
GOVT CONT	\$482,866,522	21.05%	N/A		
EDUCATION	\$102,694	0.00%	N/A	CHPRC Contract Value:	\$5,732,255,464
NONPROFIT_	\$3,647,273	0.16%	N/A	17% rqmt:	\$974,483,429
FOREIGN	\$357,934	0.02%	N/A	SB actual:	\$1,196,744,432
Total	\$2,294,173,594	100.00%	N/A	Bal to rqmt	-\$222,261,003

Notes:

1. Since the CHPRC contract award in October 2008, CHPRC has subcontracted over \$2.29 billion in goods and services with over 52 percent going to small businesses. Nearly all subcontracting goals have been exceeded.
2. Approximately 93 percent of the total dollars arise from service and staffing contracts and contract amendments with five percent of the remaining expenditures arising from P-Card purchases and the balance in purchase orders for materials and equipment.
3. Data is summarized by business categories (Women Owned Minority Business Enterprise codes) in accordance with socioeconomic reporting requirements. Small business categories overlap and should not be added together.

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

Contract Section	Project	GFS/I	Status
CONTRACT			
J.12/C.2.3.6	PBS-0013, Transuranic Waste Certification	WIPP provides shipping resources and manages the schedule for transportation of these containers to WIPP. The schedule is variable and the number of shipments is controlled by DOE-HQ on a complex-wide priority. Cost for shipment of TRU waste offsite is borne by the Carlsbad Field Office.	Ongoing

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



J. M. Swartz
Vice President for
PFP Closure Project

November 2015
CHPRC-2015-11, Rev. 0
Contract DE-AC06-08RL14788
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PROJECT SUMMARY

The PFP Closure Project continues to maintain PFP facilities compliant with authorization agreement requirements.

<i>Key Performance Indicators</i>	<i>Current Month</i>	<i>Contract To Date</i>
Glovebox/ Hood Removed or Dispositioned in Place	-	228 gloveboxes/hoods
KPP Rooms/Areas Ready for Demo	-	60 rooms/areas
Asbestos/ACM Removed	470	23,356 feet
Process Vacuum Piping Dispositioned	0	3,907 feet
Process Transfer Line Dispositioned	79	1,391 feet
Pencil Tank Units Removed (Shipped)	-	196 pencil tank units
Buildings Ready for Demo	-	43 structures
Buildings Demolished or Removed	-	43 structures
Non-radioactive Waste Shipped	-	72 m ³
TRU/TRU-M Shipped	43 m ³	2,017 m ³
LLW/MLLW Shipped	84 m ³	6,836 m ³

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

- Continued with the Implementation Verification Review (IVR) for HNF-15500 “PFP. Deactivation and Decommissioning Documented Safety Analysis” Revision 12 and HNF-15502 “PFP Deactivation and Decommissioning Technical Safety Requirements” Revision 12.
- Received the requested approval letter from RL (16-NSD-0002_RL) authorizing the implementation date for Document Safety Analysis (DSA) Revision 12 to be moved forward to no later than 30 days after removal of Glovebox HA-9A Plexiglas panels, as opposed to 30 days after glovebox size reduction.
- DSA Revision 12 refresher briefing will be initiated the end of December with full implementation scheduled for mid-January.
- Completed internal review of Safety Basis Revision 13. The DSA and Technical Safety Requirement (TSR) are being prepared for transmittal to RL.
- The 242-Z team completed remediation of floor residue in the Tank Room.
- Completed disposition of 242-Z Tank W-6 piping.
- Continued 236-Z PRF Canyon waste debris clean-up, packaging, and load-outs.
- Removed 470 feet of asbestos.
- Removed 224 feet of E-4 ducting from 234-5Z Duct Level.
- Removed 79 feet of process transfer lines.
- Initiated size reduction of middle level of 234-5Z Glovebox HA-9A.

EMS Objectives and Target Status

Objective #	Objective	Targets	Actions	Due Date	Status
16-EMS-PFP-OB1-T1	Minimize emissions resulting from demolition of 234-5Z, 236-Z, 242-Z, and 291-Z.	Inspect 234-5Z, 236-Z, 242-Z, and 291-Z for the presence of asbestos containing materials (ACM) and produce a report identifying ACM requiring removal or abatement and methods for protecting remaining ACM from resulting in visible emissions.	1. Issue report documenting thorough inspection of 236-Z	1/31/16	TBD
			2. Issue report documenting thorough inspection of 242-Z	03/31/16	TBD
			3. Issue report documenting thorough inspection of 234-5Z	06/30/16	TBD
			4. Issue report documenting thorough inspection of 291-Z	09/30/16	TBD
16-EMS-PFP-OB1-T2	Minimize emissions resulting from demolition of 234-5Z, 236-Z, 242-Z, and 291-Z.	Develop an air dispersion model that will guide the D4 processes to keep radiological emissions as low as reasonably achievable below the regulatory limit of 10 mrem/year.	5. Issue air dispersion modeling report	12/31/15	85%

TARGET ZERO PERFORMANCE

	Current Month	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	2	N/A
Total Recordable Injuries	0	2	N/A
First Aid Cases	12	75	<ul style="list-style-type: none"> 11/4/2015 – Employee reported safety gloves were too small for their hands which created numbness and aching in both hands. Employee was taken to HPMC and returned to work with no restriction. (23858) 11/9/2015 – Employee was ascending stairs and lost their balance, falling against the building door and striking head. Employee was taken to HPMC and returned to work with no restriction. (23859) 11/10/2015 – Employee was working in the area where Clorox wipes were being used to sanitize PAPR blower units. Odor from the Clorox wipes throughout the day gave him a headache and

	Current Month	Rolling 12 Month	Comment
			<p>tight muscles in his neck and back. Employee was taken to HPMC and returned to work with no restriction. (23861)</p> <ul style="list-style-type: none"> • 11/10/2015 – Employee was wiping PAPR blower units with Clorox wipes for most of the day. Odor from the Clorox wipes throughout the day gave him a headache. Employee was taken to HPMC and returned to work with no restriction. (23862) • 11/13/2015 – Employee was working in a room where floor tiles were being marked and removed, strong odor was identified and reported having a headache. Employee was taken to HPMC and returned to work with no restriction. (23864) • 11/13/2015 – Employee was working in a room where floor tiles were being marked and removed, strong odor was identified and reported having a headache. Employee was taken to HPMC and returned to work with no restriction. (23865) • 11/13/2015 – Employee was working in a room where floor tiles were being marked and removed, strong odor was identified and reported having a headache. Employee was taken to HPMC and returned to work with no restriction. (23866) • 11/16/2015 – Employee was ascending stairs when they missed a step caused swelling in their foot. Employee was taken to HPMC and returned to work with no restriction. (23872) • 11/16/2015 – Employee caught pinky finger on the door to the elevator resulting in discoloration and bleeding. Employee was taken to HPMC and returned to work with no restriction. (23873) • 11/17/2015 – Employee was working in a congested area and tripped over a bench causing a contusion to the leg. Employee was taken to HPMC and returned to work with no restriction. (23876) • 11/19/2015 – Employee was pulling a lamp from a socket and contacted both sides of the conductors causing a shock. Employee was taken to HPMC and returned to work with no restriction. (23877) • 11/24/2015 – Employee was stepping over a pipe, caught his foot and fell on a piece of equipment. Employee was taken to HPMC and returned to work with no restriction. (23879)
Near Misses	0	4	N/A

KEY ACCOMPLISHMENTS

11.02 Maintain Safe & Compliant PFP

- Continued with the Information Validation Review (IRV) for HNF-15500 “PFP Deactivation and Decommissioning Documented Safety Analysis” Revision 12 and HNF-15502 “PFP Deactivation and Decommissioning Technical Safety Requirements” Revision 12.
- Received the requested approval letter from RL (16-NSD-0002_RL) authorizing the implementation date for DSA Revision 12 to be moved forward to no later than 30 days after

removal of Glovebox HA-9A Plexiglas panels, as opposed to 30 days after glovebox size reduction.

- Completed internal review of Safety Basis Revision 13.

11.05 Disposition PFP Facility

242-Z

- Completed remediation of floor residue in Tank Room.
- Isolated and air gapped W-3, W-4, W-6, and W-15.
- Disposed of W-6 piping.
- Tapped, drained, and verified empty tanks W-6 and W-15.

234-5Z

- RMA Line:
 - Initiated size reduction on middle level of Glovebox HA-9A.
- Duct Level:
 - Removed 470 feet of asbestos.
 - Removed 224 feet of E-4 ducting from 234-5Z Duct Level.
 - Removed 79 feet of process transfer lines.
 - Completed EF-5 inspection and placed exhaust fan back in service.

236-Z PRF

- Canyon:
 - Continued Canyon waste debris clean-up, packaging, and load-outs.

MAJOR ISSUES

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

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

Status – The DSA/TSR Revision 12 was approved by RL on May 4, 2015. Continued with the Information Validation Review (IRV) for HNF-15500 “PFP Deactivation and Decommissioning Documented Safety Analysis” Revision 12 and HNF-15502 “PFP Deactivation and Decommissioning Technical Safety Requirements” Revision 12.

Received the requested approval letter from RL (16-NSD-0002_RL) authorizing the implementation date for DSA Revision 12 to be moved forward to no later than 30 days after removal of Glovebox HA-9A Plexiglas panels, as opposed to 30 days after glovebox size reduction.

Refresher briefing will be conducted the end of December with full implementation scheduled for mid-January.

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

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

Status – Calculations were completed in September using CHPRC-0560, *Plutonium Finishing Plant Rubble Calculations*, demonstrating that residual hazardous constituents are not expected to pose any significant cost and schedule impacts. Calculations were updated in November, demonstrating that residual chemical constituency expected to exist prior to demolition does not challenge ERDF WAC or need for hazardous designation. First draft of the PRF Chemical Data Summary Report has been issued for review and comment.

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

Corrective Action –

- Unpackage and place previously packaged J-Pan waste back in the PRF Canyon.
- Develop waste packaging instructions for J-Pan wastes.
- PFP will perform a visual inspection of waste drums that contain PRF canyon waste prior to shipment from the facility.

Status –

- Previously packaged J-Pan wastes were unpackaged and placed back in the PRF Canyon.
- Waste packaging instructions for J-Pan wastes were developed and wastes are in process of being packaged per the waste packaging instructions.
- PFP is performing visual inspections of waste drums that contain PRF canyon waste prior to shipment.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

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

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

Risk Title	Unmitigated Risk Impacts	Assessment		Comments		
		Month	Trend			
RL-0011/WBS-011.OA						
Explanation of major changes to the project monthly spotlight chart: No major changes to the monthly spotlight chart in the month of November.						
Realized Risks (Risks that are currently impacting project cost/schedule)						
No realized risks identified for RL-0011 in the month of November.						
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)						
Lifecycle Risk Triggers (Risk could be realized at any point of the project)						
PFP-092-02: Final Facility Characterization Identifies Unexpected Hold-up	Unexpected or late discovery of radiological (Pu) or chemical (Asbestos) holdup requiring added facility deactivation. Risk Handling Strategy: Control Probability: Medium (26% to 74%) Worst Case Impacts: \$780K, 11 days	●	↓	Risk Trigger: Will continue throughout project lifecycle until Demolition activities commence.		
				Mitigation action(s)	FC Date	%
				Utilize opportunities when RCT's are available to perform intrusive radiological characterization surveys or ACM sampling as contingent or overtime work.	11/24/15	100
				Incorporate higher than expected bounding parameters in the PNNL Air Dispersion model supporting open-air demolition. Risk reduction is achieved if subsequent model results support the higher than expected residual levels	12/17/15	90
				Develop SAP for steam lines in 291-Z fanhouse to confirm current TSI labelling. There is likelihood that steam lines were presumptively labelled and may not require abatement	12/17/15	50
				Complete Gamma Imaging surveys to identify prevailing hot spots and enable shorter "strategic" final decontamination events	1/7/16	25
				Devise new multiple sensor NDA characterization plans that allow for improved quantification of residual MAR while deactivation work is ongoing.	1/14/16	50
				Devise new decontamination/in-situ size reduction approaches to gain confidence that when complete higher than expected residual MAR will not be encountered.	1/14/16	50
Complete 234-5Z Duct Level inspection to identify piping with TSI dropping through to the first floor ceiling void. This results in early identification of any added TSI abatement activity	1/14/16	75				
Mitigation Assessment: A listing of radiological characterization opportunities that align with Field Schedule activities have been posted on a shared directory accessible to all project Superintendents and Field Work Supervisors. Mitigating actions pursuant to final NDA measurement of the PRF Canyon Floor and Walls have resulted in improved methods to shield instrumentation in a manner that will discriminate high background. As such, final floor measurements supporting Canyon floor grouting are planned for completion in December. 234-5Z Duct Level inspections have identified the need to abate/remove an additional 3600 LF of Asbestos Thermal System Insulation (TSI). While there is sufficient remaining schedule duration to complete the work without impact to critical path, the worst case impact scenario and probability has been updated accordingly. No alternative course of actions identified at this time.						

Risk Title	Unmitigated Risk Impacts	Assessment		Comments																		
		Month	Trend																			
RL-0011/WBS-011.OA																						
FY2016 Risk Triggers (Risk could be realized in FY2016)																						
PFP-DEMO-02: Air Modeling Increases Equipment Removal/Decontamination for Demo	Air Dispersion identified additional MAR reduction higher than planned or RL directs constrains from Revision 12 SER, resulting in additional decontamination/fixatives and equipment removal prior to initiating open-air demolition resulting in schedule delays. Risk Handling Strategy: Control Probability: Medium (26% to 74%) Worst Case Impacts: \$0, 16 days *Cost increase will result in cost per day impacts from crews, and hotel load.			Risk Trigger: 07/06/2015																		
				<table border="1" style="width: 100%;"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Work with the CHPRC environmental to ensure that an understanding of equipment, components, and residual material criterion are understood and bounded for air modeling</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Develop SOW to allow PNNL to update Air Dispersion model base on engineering controls to sequester MAR.</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Deliver bounding estimates of residual holdup and current planned demolition sequence durations to PNNL to isolate any period where demolition progress may need to be slowed.</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Once the residual material/contamination is quantified, work with regulators to identify controls to allow for equipment removal and demolition as planned.</td> <td>1/28/16</td> <td>0</td> </tr> <tr> <td>Identify opportunities where demolition operations could be accelerated to recover any schedule delays</td> <td>12/17/15</td> <td>75</td> </tr> </tbody> </table>	Mitigation action(s)	FC Date	%	Work with the CHPRC environmental to ensure that an understanding of equipment, components, and residual material criterion are understood and bounded for air modeling	Complete	100	Develop SOW to allow PNNL to update Air Dispersion model base on engineering controls to sequester MAR.	Complete	100	Deliver bounding estimates of residual holdup and current planned demolition sequence durations to PNNL to isolate any period where demolition progress may need to be slowed.	Complete	100	Once the residual material/contamination is quantified, work with regulators to identify controls to allow for equipment removal and demolition as planned.	1/28/16	0	Identify opportunities where demolition operations could be accelerated to recover any schedule delays	12/17/15	75
				Mitigation action(s)	FC Date	%																
				Work with the CHPRC environmental to ensure that an understanding of equipment, components, and residual material criterion are understood and bounded for air modeling	Complete	100																
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				Deliver bounding estimates of residual holdup and current planned demolition sequence durations to PNNL to isolate any period where demolition progress may need to be slowed.	Complete	100																
				Once the residual material/contamination is quantified, work with regulators to identify controls to allow for equipment removal and demolition as planned.	1/28/16	0																
Identify opportunities where demolition operations could be accelerated to recover any schedule delays	12/17/15	75																				
Mitigation Assessment: In the month of November the PNNL completed preliminary analysis of bounding source term inputs provided by the project. This has increased confidence that the residual MAR within the 236-Z (PRF) after final decontamination and measurement will fall within modelled inputs supporting open air demolition. Further identification of opportunities and final formulation of contingency plans awaits final issue of the revised Air Dispersion Model report by PNNL mid-December. Mitigation action delays do not result in alternative course of actions at this time.																						
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)																						
FY2016 Risk Triggers (Risk could be realized in FY2016)																						
PFP-PRF-22: OPP: NDA Process Allows for Section Results to be used	Improved NDA process allows for disposition of Gallery Gloveboxes into waste containers by using section data rather than summation of entire glovebox, resulting in schedule efficiencies. Risk Handling Strategy: Exploit Probability: Likely (75% to 90%) Worst Case Impacts: \$0, 60 days *Cost savings will result in cost per day from crews, and hotel load.			Risk Trigger: 10/05/2015																		
				<table border="1" style="width: 100%;"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Identify activities necessary to implement in the FES</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Complete FES activities (last FES activity PRF-GGB-0120)</td> <td>05/11/16</td> <td>0</td> </tr> </tbody> </table>	Mitigation action(s)	FC Date	%	Identify activities necessary to implement in the FES	Complete	100	Complete FES activities (last FES activity PRF-GGB-0120)	05/11/16	0									
				Mitigation action(s)	FC Date	%																
Identify activities necessary to implement in the FES	Complete	100																				
Complete FES activities (last FES activity PRF-GGB-0120)	05/11/16	0																				
Mitigation Assessment: No changes in the month of November. No foreseeable impacts in the near future. Opportunity will continue to be tracked and monitored throughout the Gallery Glovebox subproject lifecycle. No alternative course of actions needed at this time.																						
Unassigned Risks (Pending ownership of identified risks/opportunities)																						
No unassigned risks identified in the month of November.																						

PROJECT BASELINE PERFORMANCE

Current Month

(\$M)

WBS 011/RL-0011 Nuclear Matl Stab & Disp PFP	Budgeted Cost of Work Scheduled (BCWS)	Budgeted Cost of Work Performed (BCWP)	Actual Cost of Work Performed (ACWP)	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)
Total	10.2	7.7	8.0	(2.5)	-24.4%	(0.2)	-3.2%

Numbers are rounded to the nearest \$0.1 million.

CM Schedule Variance: (-\$2.5M/-24.4%)

The current month unfavorable schedule variance is primarily due to not being performed at the PFP 234-5Z duct level while mitigating actions were implemented to lift a stop work in the duct level on intrusive cutting of all process and transfer product lines. The result of the stop work was a loss of eight days work not being performed in the PFP 234-5Z duct level. Also contributing to the negative variance is the behind schedule progress on discrete D&D work scope (apportioned), due to: reprioritization of work teams to support higher priority work (i.e. PRF D&D and Insitu Glovebox removal), which resulted in schedule delays for: grouting of 234-5Z trenches and tunnels, balance of -5 process vacuum and process support equipment and demo prep for the ancillary facilities. Additionally 243-Z is showing a negative schedule variance for the current period due to all work being completed ahead of schedule in prior periods.

CM Cost Variance: (-\$0.2M/-3.2%)

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	882.0	851.1	857.3	(31.0)	-3.5%	(6.3)	-0.7%	969.8	967.5	2.3

Numbers are rounded to the nearest \$0.1 million

CTD Schedule Variance (-\$31.0M/-3.5%)

The Schedule Variance is within reporting thresholds.

CTD Cost Variance (-\$6.3M/-0.7%)

The Cost Variance is within reporting thresholds.

Variance at Completion (+\$2.3M/+0.2%)

The Variance at Completion is within reporting thresholds.

Contract Performance Report Formats are provided in Appendix A.

FUNDS vs. SPEND FORECAST (\$M)

WBS 011/RL-0011 Nuclear Matl Stab & Disp PFP	FY2016		Spend Variance
	Projected Funding	Spending Forecast	
RL-0011	\$116.2	\$99.8	\$16.4

Numbers are rounded to the nearest \$0.1 million

Funds/Variance Analysis

FY2016 expected funding for RL-0011 remains at \$116.2 million. The Fiscal Year Spend Forecast (FYSF) for November reduced from \$104.6 million in October to \$99.8 million. This \$4.8 million reduction in the FYSF is due to staffing adjustments for December.

Critical Path Schedule

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

Baseline Change Requests

BCR-011-16-001R0, CO #297, *Update Reg. Docs. Required for 242-Z 236-Z Slab Removal*

MILESTONE STATUS

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

Number	Title	Due Date	Actual Date	Forecast Date	Status/ Comment
M-083-44A	Complete Significant Progress on Deactivation & Removal of 208 Glovebox's and Disposal of all 236-Z Pencil Tanks	09/30/15		9/30/15	Complete

M-083-00A	PFP Facility Transition and Selection Disposition Activities	09/30/16		1/19/17	<p>Stop works associated with Premeire breathing air suits/hoses in support of in-situ size reduction efforts and stop works associated with intrusitve work in the 234-5Z duct level caused the Tri-Party Agreement milestone projected completion date to slip. As the PFP Project continues to make progress on the behind schedule critical path work scope being performed it is anticipated that efficiencies will be recognized to bring the schedule into alignment with a completion date of September 30, 2016. However, this Tri-Party Agreement completion is currently at risk of meeting the September 30, 2016, commitment date. The impacts from the stop works and chemical reaction in PRF during the month of October have caused the forecast date to move 16 days since last month.</p>
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SELF-PERFORMED WORK

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

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None identified at this time.

Section B

Spent Nuclear Fuel Stabilization and Disposition (RL-0012)



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

November 2015
CHPRC-2015-11, 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, supporting the ECRTS Project work by supporting Annex construction activities and continued debris dose rating and relocation activities in 105KW Basin. The Operations team worked several monthly and quarterly routines during the period.
- RL continues their review of the updated Preliminary Documented Safety Analysis (PDSA) and Safety Design Strategy (SDS). Development of the KW Basin integrated DSA, which combines the ECRTS PDSA and the KW Basin FSAR into a single safety basis document continued.
- The ECRTS Project Procurement currently has fourteen procurement packages fully developed with fabrication in progress, six procurement packages have been completed and one package remaining to be developed.
- Testing activities and preparation for cold commissioning continued at the MASF. NCO System Familiarization continues with the final group (Group 4) using the ECRTS full-scale test mockup. Demonstrations were conducted to show Construction personnel how Engineered Container (EC) lids will be rigged and handled on the K Basin grating during Re-Lidding work. Continued work on developing and approving test specifications and supporting Acquisition Verification Service (AVS) inspection and tagging of ECRTS Equipment.
- Annex Construction continued working remaining punch list items and acceptance testing.
- Establishment of STP as a Capital Asset Project (CAP) continued. An ICE/EIR site visit by a DOE Headquarters team was supported the week of November 16.

EMS OBJECTIVES AND TARGET STATUS

None at this time.

TARGET ZERO PERFORMANCE

	CM Quantity	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	0	N/A
Total Recordable Injuries	1	1	<ul style="list-style-type: none"> • 11/2/2015 – Employee slipped on first step of stairs while going up and fell, causing contusion to right knee and pain to abdominal area. (23857)
Near-Misses	2	22	<ul style="list-style-type: none"> • 11/19/2015 – Employee slipped on wet floor (due to rain), resulting in twisting their ankle and causing them to fall and suffer strain to hip. (23878) • 11/2/2015 – Employee slipped on liner from ERDF container and hit their forearm. (23856)
Near-Misses	0	0	N/A

KEY ACCOMPLISHMENTS

- ECRTS Process Equipment Procurement,
 - o Buy Back Set #2; Safety Significant (SS) Long-Lead Components – Fabrication of the Transfer Line Service Box (TLSB) Lift Fixture was completed.
 - o Procurement Set #1; GS XAGO Retrieval Tool – The three XAGO Retrieval Tools were formally accepted through AVS and delivered to MASF.
 - o Procurement Set #2; GS Retrieval and Transfer System Components – delivery of the In-Basin & Annex Flocculant Skids and the In-Basin Tools were completed.
 - o Procurement Set #3; SS Retrieval & Transfer System Components – The 3 Booster Pump Skids & 2 Rupture Disk Skids were delivered to MASF and staged for MPAT.
 - o Procurement Set #13; Radiation Monitoring Instrumentation – Completed testing of radiation protection equipment.
 - o Procurement Set #14; SS Control System Panels – Fabrication and testing activities are complete on PNL-103, Safety Control Panel, JB-109A/B, Seismic Switch J-Boxes, and PNL-107, Blending Panel. Seismic testing of PNL-103 and ECRT-JB-109A/109B was successfully completed.
- MASF:
 - o Construction personnel completed training on the removal of sample tubes in K Basin ECs, removal of top two EC sections, divider plate installation, dunnage deployment, and EC lid installation using the ECRTS mockup in MASF. The training proved to have significant value for both refining work processes and detailed work steps as well as familiarizing for construction personnel on tasks to be performed in the K Basins.
 - o The STS cask leak test activity to demonstrate leak testing hardware and methodology was completed.
 - o Receipt of ECRTS production equipment at MASF continues: receipt of the flocculation skids (5), the booster pumps (3), and Xago hydrolances (3), the Xago feed water skid and panel (ME-1, PNL-101).
- KW Annex Construction completed the hydrostatic and forward flow test for the sprinkler system. The system is isolated from the fire loop until completion of the Acceptance Test.
- Revision 2 of the PDSA, along with a revision to the SDS, has been submitted to RL for approval. Development of the integrated DSA, which combines the ECRTS PDSA and the KW Basin FSAR into a single safety basis document, has started.
- Completed combined ICE/EIR site visit review by DOE-HQ team.
- 100K Operations worked with Communications to develop videos to document the challenges associated with the work and work environment in the 105KW Basin.
- T Plant Modification Construction – RFP for construction was issued to bidders and technical proposals received from bidders. Proposals are being evaluated by the project team.
- K Basin and Annex Equipment Installation Design - Construction specification and the Construction Aid 1 (CA#1) for the NE Corner of the Basin is complete, constructability review complete and comments are being resolved.
- 100K Operations completed:
 - o Addition of electrical outlets to 105KW/Room 12 with the final tie-in.

MAJOR ISSUES

None currently identified.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

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

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

Risk Title	Unmitigated Risk Impacts	Assessment		Comments																	
		Month	Trend																		
RL-0012/WBS-012																					
Explanation of major changes to the project monthly stoplight chart: In the month of November, the risk stoplight chart was updated to reflect the quantitative risk analysis that supported the ICE/EIR. It is anticipated that additional changes will be made once RL-0012 receives final EIR report.																					
Realized Risks (Risks that are currently impacting project cost/schedule)																					
STP-134-A: Contract Close-Out, Balance of CAT, & Subcontractor Performance - Annex Construction	Contract closeout administrative cost, scope, and schedule are greater than anticipated extending the project closeout process beyond the planned work scope period requiring additional support and resources to assist in the contract closeout process as a result of late change requests, post contract REA's and change requests resulting, arbitration, post contract claims or legal proceedings. Risk Handling Strategy: Accept Probability: Low (10% to 25%) Worst Case Impacts: \$6.5 million, 28 days	●	↑	Risk Event: Change orders to limit eventual claims at the end of the job. <table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 10px;"> <thead> <tr style="background-color: #e0e0e0;"> <th>Risk recovery action(s)</th> <th>Risk Date</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Issued Subcontractor Status Request Matrix</td> <td rowspan="4" style="text-align: center;">05/08/12</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Develop estimate on the "To Go Costs"</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Document changes into Phase I or Phase II completion buckets</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Incurred Costs have been submitted by Contractor – CHPRC is reviewing.</td> <td>12/31/15</td> <td>95</td> </tr> </tbody> </table> Recovery Action Assessment: Approximately 6 Construction punchlist items remain open. All Sub-CAT's are now complete with defined punchlist to close out any open items. The Fire Alarm Sub-CAT was descope from subcontractor and rewritten by CHPRC and executed. The Post Power up CAT is in progress and approximately 95 percent complete. Delays have been encountered with mechanical control system testing (i.e., ATS) and trouble shooting. Resolution of trouble shooting/testing is now nearly complete. Forecast completion of the Post Power-up CAT is mid-December. Completion of any CAT/Post Power-up CAT test deficiencies are anticipated to be complete on/or before the end of the December. CHPRC is still awaiting the subcontractors certified claim. This information was requested by CHPRC in our letter dated November 11, 2015. It was not received and requested in the updated letter dated December 3, 2015. The slip to the incurred cost review does not result in any alternate actions at this time.	Risk recovery action(s)	Risk Date	FC Date	%	Issued Subcontractor Status Request Matrix	05/08/12	Complete	100	Develop estimate on the "To Go Costs"	Complete	100	Document changes into Phase I or Phase II completion buckets	Complete	100	Incurred Costs have been submitted by Contractor – CHPRC is reviewing.	12/31/15	95
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Document changes into Phase I or Phase II completion buckets		Complete	100																		
Incurred Costs have been submitted by Contractor – CHPRC is reviewing.		12/31/15	95																		
STP-067A: Safety Classification of SSCs	RL requires CHPRC to upgrade the safety classification of systems, structures, and/or components to a safety classification more conservative than the safety analysis dictates resulting in cost impacts, and schedule delays. Risk Handling Strategy: Accept Probability: Low (10% to 25%) Worst Case Impacts: \$600K, 120 days	●	↑	Risk Event: A PDSA Safety Evaluation Report (SER) containing three Conditions of Approval (COAs) was transmitted to CHPRC on February 5, 2015, (1500632/15-NSD-0027_RL). RL has requested submittal of a new or revised STSC headspace hydrogen mitigation control strategy for review and approval. The Nuclear Safety Initiatives for spray leak methodology/spray leak control and for sludge layering have been approved, which will allow design modifications and related procurements to begin. All design changes will be reviewed through the USQ-Like process to ensure compliance with the approved PDSA, subject to the restrictions imposed by the COAs. <table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 10px;"> <thead> <tr style="background-color: #e0e0e0;"> <th>Risk recovery action(s)</th> <th>Risk Date</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Prepare a Notice of Change to notify RL that CHPRC believes a scope change has occurred with developing a PDSA.</td> <td rowspan="4" style="text-align: center;">02/05/15</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Meet with RL to agree upon the Actions required to resolve COQ number 1, number 2, and number 3.</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Execute the agreed upon work scope to update the ECRS Design and PDSA.</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Resubmit the updated PDSA to RL for approval.</td> <td>Complete</td> <td>100</td> </tr> </tbody> </table> Recovery Action Assessment: Recovery actions are complete, and this risk will no longer be reported on as a realized risk. The proposed baseline incorporates actions necessary to complete the PDSA. This risk will be monitored throughout the DSA approval cycle. At this time no alternative course of actions are needed.	Risk recovery action(s)	Risk Date	FC Date	%	Prepare a Notice of Change to notify RL that CHPRC believes a scope change has occurred with developing a PDSA.	02/05/15	Complete	100	Meet with RL to agree upon the Actions required to resolve COQ number 1, number 2, and number 3.	Complete	100	Execute the agreed upon work scope to update the ECRS Design and PDSA.	Complete	100	Resubmit the updated PDSA to RL for approval.	Complete	100
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Risk Title	Unmitigated Risk Impacts	Assessment		Comments														
		Month	Trend															
RL-0012/WBS-012																		
STP-123-T: Design Maturity - T-Plant	<p>The final Nitrogen System design is pending FHA update. The construction specification is currently in development. In addition, changes resulting from the PDSA impact the design. There is additional risk with bidder interpretation of the facility ECRs. They do not clearly provide the entire scope of the contractor's work and clarifying bid document details are required.</p> <p>Risk Handling Strategy: Accept</p> <p>Probability: Very Likely (>90%) Worst Case Impacts: \$200K, 96 days</p>			<p>Risk Event: The risk is being realized based on constructability reviews of the FMPs. The impacts associated with this are the additional cost and resources associated with correcting design errors and providing constructability aids, conducting material take offs, resulting in a lower cost underrun for performing the original design. Schedule impacts eminent due to spec and ECR quality. Actions for re-lidding design near term actions.</p> <table border="1"> <thead> <tr> <th>Risk recovery action(s)</th> <th>Risk Date</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Incorporate PTS Comments on Construction Spec.</td> <td rowspan="3" style="text-align: center;">03/03/15</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Complete PTS Construction Review w/Drawings and Specifications</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Incorporate Comments and Revise T-Plant Design Documents for the Construction SOW</td> <td>11/30/15</td> <td>99</td> </tr> </tbody> </table> <p>Recovery Action Assessment: T Plant design documents have been issued via ECR-15-000336, based on the current design under review by RL. The design documents have been given to the contractor for bidding purposes, even though the construction specification, HNF-8764 Revision 2, states that the installation is on hold, pending RL's approval of the MDSA (Revision 11). If the MDSA is not approved as submitted, there is a potential for the design to change. The procurement effort is still underway based on a new path forward and de-scoping of a portion of the work. Cell 9L will not be cleaned and or used for STSC storage, which alleviates the necessity to install the levelling rack, containment, and leak detection. ECR-15-001576 (redlined version of ECR-15-000640) has been drafted and is in the review cycle. The draft version will be provided to the contractor for re-bidding purposes. The project is targeting an award date of January 11, 2016. In addition, the schedule activities have been sequenced such that installation will occur following the RL review and approval period of the MDSA. In the event we receive approval earlier, the installation of the nitrogen system becomes an opportunity to accelerate schedule and finish early. If the review/approval cycle is delayed, there could be an impact to the contractor, resulting in schedule delays and change orders. No additional alternative course of actions needed at this time. All indications, based on discussions with RL, are that Revision 11 of the MDSA will be approved.</p>	Risk recovery action(s)	Risk Date	FC Date	%	Incorporate PTS Comments on Construction Spec.	03/03/15	Complete	100	Complete PTS Construction Review w/Drawings and Specifications	Complete	100	Incorporate Comments and Revise T-Plant Design Documents for the Construction SOW	11/30/15	99
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Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)																		
No critical risks identified in the month of November.																		
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)																		
Lifecycle Risk Triggers (Risk could be realized at any point of the project)																		
STP-114: Aging Building Systems/Components Problems Impact Operations & S&M Activities	<p>Problems with aging building systems/ components (e.g. ventilation systems, water distribution system, CAM's, instrument air system, fire alarm system, and electrical system, etc.) result in inoperability or requires unscheduled maintenance/ outages, impacting planned operations or on-going surveillance and maintenance activities. These impacts result in cost impacts, and schedule delays.</p> <p>Risk Handling Strategy: Control</p> <p>Probability: Likely (75% to 90%) Worst Case Impacts: \$1 million, 44 days</p>			<p>Risk Trigger: Routine S&M activities identify problems with aging building systems/ components. This risk will continue throughout project lifecycle until sludge is removed from 105KW Basin.</p> <table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Perform critical system reliability assessments; maintenance practices; procure critical spares, and maintain existing redundancies.</td> <td>On-Going</td> <td>N/A</td> </tr> <tr> <td>Continue with baseline plan for corrective and preventative maintenance on systems, structures and components.</td> <td>On-Going</td> <td>N/A</td> </tr> </tbody> </table> <p>Mitigation Assessment: No changes in the month of November. Operations continues to maintain the facilities in an operational status with no foreseeable impacts in the near future, and no alternative course of actions needed at this time.</p>	Mitigation action(s)	FC Date	%	Perform critical system reliability assessments; maintenance practices; procure critical spares, and maintain existing redundancies.	On-Going	N/A	Continue with baseline plan for corrective and preventative maintenance on systems, structures and components.	On-Going	N/A					
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Risk Title	Unmitigated Risk Impacts	Assessment		Comments																											
		Month	Trend																												
RL-0012/WBS-012																															
FY2016 Risk Triggers (Risk could be realized in FY2016)																															
STP-093-T: Operational Resources Limitations for Construction Support - T-Plant Modifications	During installation the T-Plant modifications and equipment installation activities, which are currently planned in the FES, compete for the same operational resources (e.g., NCO's, HPT's, Shift Managers, RA, RM, Work Planners). In addition, emergent resource limitations also emerge (e.g., training, sick leave, vacation, short/long term) causing equipment installation delays. Risk Handling Strategy: Control Probability: Very Likely (>90%) Worst Case Impacts: \$512K, 32 days	●	↔	<p>Risk Trigger: Activities planned in the FES compete for the same operational resources threatening the T-Plant project</p> <table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Post for additional operation resources.</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Train newly added staff.</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Utilize limited OT due to project priorities, and the large number of staff required to support recovery actions.</td> <td>On-Going</td> <td>N/A</td> </tr> </tbody> </table> <p>Mitigation Assessment: Additional operational resources have been hired at T Plant to support the construction work. The Construction team has hired an additional planner to support work package development, enhanced work planning, and Hazard Review Board presentations. Additional resources will need to be hired in the event the project experiences attrition or other limitations. In addition, overtime will be utilized to recovery any schedule risk.</p>	Mitigation action(s)	FC Date	%	Post for additional operation resources.	Complete	100	Train newly added staff.	Complete	100	Utilize limited OT due to project priorities, and the large number of staff required to support recovery actions.	On-Going	N/A															
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STP-111-B: Contractor/ Subcontractor Performance – ECRS Annex/ In-Basin Equipment Installation	The General Contractor and their supporting subcontractors have historically performed poorly and will be challenged on this project by compliance with project and contract flow down requirements (e.g. quality, nuclear standards, site safety requirements, subcontract management to ensure contract requirements are met, NRTL compliance, suspect counterfeit, Buy-American contract clause, Project Controls requirements, development of Construction Acceptance Testing (CAT), timely processing of submittals compliance with all the subcontract flow down requirements) as well as deployment and maintenance of key staff that are essential to safe, cost effective and on-time project delivery. This risk is further compounded by sequestration and decrement funding. Risk Handling Strategy: Control Probability: Very Likely (>90%) Worst Case Impacts: \$792K, 96 days	●	↔	<p>Risk Trigger: The risk is that the General Contractor will not be able to comply with all contract requirements (e.g. for quality, nuclear standards, site safety requirements, subcontract management, NRTL compliance, suspect counterfeit, Buy-American contract clause, Project Controls requirements, adequately develop the Construction Acceptance Testing (CAT), timely processing of submittals and compliance with all subcontract and contract flow down requirements) and be challenged to deploy or maintain essential project staff.</p> <table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Establish weekly CHPRC and General Conditions Contractor interface meetings (e.g., Safety Meeting, Field Safety Walk-down, QA, POD/POW, Schedule and Performance Review) to track performance.</td> <td>Ongoing</td> <td>N/A</td> </tr> <tr> <td>Implement extensive oversight</td> <td>Ongoing</td> <td>N/A</td> </tr> <tr> <td>Contractor pre-evaluation completed and shortlisted 3-potential bidders.</td> <td>Ongoing</td> <td>N/A</td> </tr> <tr> <td>Shortlisted bidders evaluated and placed on Site ESL.</td> <td>Ongoing</td> <td>N/A</td> </tr> <tr> <td>Acquisition planning document written to allow additional work to be added to successful bidder-if their performance is acceptable.</td> <td>Ongoing</td> <td>N/A</td> </tr> <tr> <td>Provide additional training.</td> <td>Ongoing</td> <td>N/A</td> </tr> <tr> <td>Increased schedule duration for the project effort.</td> <td>Ongoing</td> <td>N/A</td> </tr> <tr> <td>Evaluate alternative / overlapping shifts.</td> <td>Ongoing</td> <td>N/A</td> </tr> </tbody> </table> <p>Mitigation Assessment: Mitigation actions are currently under development for this risk. CHPRC risk ownership was transferred in the month of October. The action to complete the risk register review was delayed until December. Once reviews are complete the risk mitigation actions will be finalized, and forecasted finish dates applied.</p>	Mitigation action(s)	FC Date	%	Establish weekly CHPRC and General Conditions Contractor interface meetings (e.g., Safety Meeting, Field Safety Walk-down, QA, POD/POW, Schedule and Performance Review) to track performance.	Ongoing	N/A	Implement extensive oversight	Ongoing	N/A	Contractor pre-evaluation completed and shortlisted 3-potential bidders.	Ongoing	N/A	Shortlisted bidders evaluated and placed on Site ESL.	Ongoing	N/A	Acquisition planning document written to allow additional work to be added to successful bidder-if their performance is acceptable.	Ongoing	N/A	Provide additional training.	Ongoing	N/A	Increased schedule duration for the project effort.	Ongoing	N/A	Evaluate alternative / overlapping shifts.	Ongoing	N/A
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STP-121-B: As-Found Conditions - ECRS Annex/In-Basin Equip.	Historically, As-found, unknown-unknowns, and emergent conditions have impacted construction execution and contractor performance. Risk Handling Strategy: Accept Probability: Very Likely (>90%) Worst Case Impacts: \$1.3M, 48 days	●	↔	<p>Risk Trigger Metric: As-Found or emergent conditions impact construction execution and contractor performance.</p> <table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>None identified at this time.</td> <td>N/A</td> <td>N/A</td> </tr> </tbody> </table> <p>Mitigation Assessment: The mitigation strategies have been put in place, as a result, the risk strategy is to accept with no further mitigation actions identified at this time.</p>	Mitigation action(s)	FC Date	%	None identified at this time.	N/A	N/A																					
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Risk Title	Unmitigated Risk Impacts	Assessment		Comments												
		Month	Trend													
RL-0012/WBS-012																
STP-121-T: As-Found Conditions - Equipment Install - T-Plant	Historically, As found, unknown-unknowns, and emergent conditions have impacted construction execution and contractor performance. Risk Handling Strategy: Accept Probability: Very Likely (>90%) Worst Case Impacts: \$1.3M, 48 days	●	↔	<p>Risk Trigger Metric: As-Found or emergent conditions impact construction execution and contractor performance.</p> <table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>None identified at this time.</td> <td>N/A</td> <td>N/A</td> </tr> </tbody> </table> <p>Mitigation Assessment: The mitigation strategies have been put in place, as a result, the risk strategy is to accept with no further mitigation actions identified at this time.</p> <p>In the event as-found conditions are encountered the project make schedule adjustments as necessary, and engage engineering, Operations, and SME resources, as appropriate, to assist in mitigating negative impacts to cost and schedule. In addition if asbestos-containing material (ACM) is discovered the project will ensure a subset of construction craft workers are trained appropriately to handle discovery of ACM. No alternative course of actions necessary at this time.</p>	Mitigation action(s)	FC Date	%	None identified at this time.	N/A	N/A						
Mitigation action(s)	FC Date	%														
None identified at this time.	N/A	N/A														
STP-123-B: Design Maturity - ECRTS Annex/In-Basin Equip.	Finalization of design media for the ECRTS equipment installation will result in changes to both cost and schedule. There is also a compounding risk that design changes (e.g. auxiliary ventilations system modifications and nitrogen bottle rack pad, Albi Clad removal, additional hangers for purge pipe, truck pad) will result from the incorporation of PDSA/FHA comments and are more extensive than planned. Risk Handling Strategy: Accept Probability: Very Likely (>90%) Worst Case Impacts: \$13M, 96 days	●	↔	<p>Risk Trigger Metric: Changes to the final design for the ECRTS equipment installation impacts project cost and schedule.</p> <table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>None identified at this time.</td> <td>N/A</td> <td>N/A</td> </tr> </tbody> </table> <p>Mitigation Assessment: The mitigation strategies have been put in place, as a result, the risk strategy is to accept with no further mitigation actions identified at this time.</p>	Mitigation action(s)	FC Date	%	None identified at this time.	N/A	N/A						
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FY2018 Risk Triggers (Risk could be realized in FY2018)																
STP-018-O: STP Operational Upset or Spill - During 1st STSC	An operational upset or spill results in a work shutdown at K Basins, resulting in schedule delays. Risk Handling Strategy: Control Probability: Medium (26% to 74%) Worst Case Impacts: \$6M, 90 days *Cost increase will result in hotel load cost per day.	●	↔	<p>Risk Trigger: Will commence in FY2018 and continue throughout project lifecycle until sludge is removed from 105KW Basin.</p> <table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Conduct testing and training at MASF and develop procedures that use the information and knowledge gained during the activity for use at the KW Basin.</td> <td>05/25/17</td> <td>20</td> </tr> <tr> <td>Conduct rigorous startup testing following system installation at the 105KW Basin and Annex.</td> <td>05/12/17</td> <td>0</td> </tr> <tr> <td>Utilize overtime as needed, or if required, to respond to events</td> <td>As needed</td> <td>N/A</td> </tr> </tbody> </table> <p>Mitigation Assessment: Forecasted mitigation dates are consistent with overall STP critical path schedule. ECRTS Familiarization training for the NCOs at MASF was complete in November. Training and procedure development continues with no emerging issues. OTJ for the operators on MASF equipment will start in FY2017. No foreseeable impacts in the near future and no alternative course of actions needed at this time.</p>	Mitigation action(s)	FC Date	%	Conduct testing and training at MASF and develop procedures that use the information and knowledge gained during the activity for use at the KW Basin.	05/25/17	20	Conduct rigorous startup testing following system installation at the 105KW Basin and Annex.	05/12/17	0	Utilize overtime as needed, or if required, to respond to events	As needed	N/A
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Risk Title	Unmitigated Risk Impacts	Assessment		Comments																		
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RL-0012/WBS-012																						
STP-073-C: Processing Efficiency - Retrieval & Shipping, During 1st STSC	<p>The realized processing efficiency associated with sludge retrieval and shipping operations does not match baseline plan.</p> <p>Risk Handling Strategy: Accept</p> <p>Probability: Low (10% to 25%)</p> <p>Worst Case Impacts: \$0K, 8 days</p> <p>*Cost increase will result in cost per day impacts from crews, and hotel load.</p>	●	↔	<p>Risk Trigger: Beginning with Operations Campaign – August 15, 2018, per current Field Execution Schedule (FES)</p> <table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Review lessons learned from NLOP sludge retrieval.</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Incorporate operations personnel recommendations into the ECRTS Process System & STSC design.</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Evaluate alternatives to reduce the total STSC's by optimization of sludge loading.</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Test the Design on simulated sludge and test the production hardware to validate operability prior to installation in the 105 KW Basin.</td> <td>09/30/16</td> <td>50</td> </tr> <tr> <td>Fully train operations personnel on the system at MASF prior to commencing operations in the basin including providing adequate time to achieve reasonable operational proficiency.</td> <td>8/15/18</td> <td>20</td> </tr> </tbody> </table> <p>Mitigation Assessment: No changes in the month of November. Operations personnel were given training on the process system equipment and will continue to participate in training activities through production system installation at 100K. No foreseeable impacts in the near future and no alternative course of actions needed at this time.</p>	Mitigation action(s)	FC Date	%	Review lessons learned from NLOP sludge retrieval.	Complete	100	Incorporate operations personnel recommendations into the ECRTS Process System & STSC design.	Complete	100	Evaluate alternatives to reduce the total STSC's by optimization of sludge loading.	Complete	100	Test the Design on simulated sludge and test the production hardware to validate operability prior to installation in the 105 KW Basin.	09/30/16	50	Fully train operations personnel on the system at MASF prior to commencing operations in the basin including providing adequate time to achieve reasonable operational proficiency.	8/15/18	20
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Unassigned Risks (Pending ownership of identified risks/opportunities)																						
No unassigned risks identified in the month of November .																						

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	6.8	6.5	6.8	(0.3)	-4.3%	(0.3)	-4.8%

Numbers are rounded to the nearest \$0.1 million

CM Schedule Performance (-\$0.3M/-4.3%)

The variance is within reporting thresholds.

CM Cost Performance (-\$0.3M/-4.8%)

The 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	528.3	528.6	541.9	0.4	0.1%	(13.3)	-2.5%	717.2	723.2	(6.0)

Numbers are rounded to the nearest \$0.1 million

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

The variance is within reporting thresholds.

CTD Cost Performance (-\$13.3M/-2.5%)

The variance is within reporting thresholds.

Variance at Completion (-\$6.0M/-0.8%)

The variance is within reporting thresholds.

Contract Performance Report Formats are provided in Appendix A.

FUNDS vs. SPEND FORECAST (\$M)

RL-0012 Spent Nuclear Fuel Stabilization and Disposition	FY2016		
	Projected Funding	Spending Forecast	Spend Variance
RL-0012	114.3	85.4	28.9

Numbers are rounded to the nearest \$0.1 million.

Funds/Variance Analysis

FY2016 projected funding for RL-0012 is \$114.3 million. The funding includes the Line Item funding for the STP CAP project, which has been assigned for FY2016 and FY2017 work scope, thus causing a positive variance in FY2016.

Critical Path Schedule

The critical path flows through the installation of process equipment, operational acceptance testing of the facility modifications, annex process equipment, readiness activities at the 105KW Facility, the operational readiness review and finally, containerized sludge retrieval operations. Retrieval operations include the filling of STSCs with sludge and transferring them to T Plant, completing Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) milestone M-016-176, *Complete Sludge Removal from 105-KW Fuels Storage Basin* (milestone is outside contract period in FY2019).

Baseline Change Requests

BCR-012-16-002R0, *Corrective Planning Errors*

MILESTONE STATUS

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

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

SELF-PERFORMED WORK

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

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.

Section C

Solid Waste Stabilization and Disposition (RL-0013)



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

November 2015
CHPRC-2015-11, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

W&FMP maintained facilities in a safe and compliant condition. Overall, the project is delivering planned efficiencies, but continues to be impacted by emerging work and realized risks. The WESF Stabilization and Ventilation Project (W-130) completed fabrication of K3N heater and started testing. In addition, WESF performed canyon entries to wrap and relocate the shadow shield. WRAP completed 2336W and 2404-WB roof repairs. Transuranic (TRU) Repackaging Project shipped a fiberglass-reinforced plywood (FRP) waste box 2345Z8-19 (43.5 m3) from Central Waste Complex (CWC) to Permafix Northwest (PFNW) for processing.

EMS Objectives and Target Status

Objective #	Objective	Target	Due Date	Status
16-EMS-WFM-OB1-T1	Improve container labeling.	Reconcile data between SWITS and the Operating Record for 750 containers at CWC, and update container labeling for those containers (if needed).	9/30/16	35%
16-EMS-WFM-OB1-T2	Improve consistency in RCRA inspections between WFM facilities.	Establish consistent format, language, approvals, and corrective action tracking standards for WFM RCRA inspections.	9/30/16	0%
16-EMS-WFM-OB1-T3	Improve consistency in recordkeeping for RCRA inspections at CWC.	Evaluate and issue procedure for an automated RCRA Checklist and inspection system for CWC.	9/30/16	0%

TARGET ZERO PERFORMANCE

	CM Quantity	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	0	N/A
Total Recordable Injuries	0	2*	N/A *1 Recordable case, PTS in support of RL-0013.
First Aid Cases	1	31*	<ul style="list-style-type: none"> 11/17/2015 – Employee was hit by tumbleweed blown by severe wind causing loss of balance and fell on right side. (23874) *8 First Aid Cases, PTS in support of RL-0013.
Near Misses	0	1	N/A

KEY ACCOMPLISHMENTS

13.01 Project Management

- o Submitted the FS-1 Data Evaluation Report to Ecology.

13.02 Capsule Storage & Disposition

- o Completed 37 Preventive Maintenance (PM) work packages.

a. Capsule Extended Storage Project:

- Prepared data sheets for each of the extended storage alternatives.
- M-91 Alternative Study:
 - Developing waterfall charts with waste categories.
 - Met with RL on scope and deliverable.

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

- Completed fabrication of K3N heater and started testing.
- Completed steam line asbestos sampling.
- Submitted revised Change Proposal in response to CO#269, *WESF Stabilization and Ventilation Project*, to RL.
- Performed canyon entries to wrap and relocate the shadow shield (a shielding apparatus for changing hot cell windows).
- Drained window oil from C and E-Cells.

13.03 Canister Storage Building (CSB)

- o Performed/Complete:
 - Initial cleaning of MCO storage tube, plugs and covers containing rust material (M03 and M04 tubes).
 - Borescoping in interior of MO3 tube with no abnormal conditions identified.
 - 25 PM packages.

13.06 TRU Repackaging

- o Shipped one FRP to PFNW for repack – 43.5 m3.
- o Received 11 waste boxes and four waste drums from PFNW to MWT31.
- o TRUM Waste completed and returned fiscal year to date (FYTD) – 170.5 m3.
- o Received Super 7A Trailer procurement bids for review.

13.07 WRAP

- Completed:
 - o Roof repairs on 2336W and 2404-WB.
 - o Installation of newly fabricated fan and motor shaft guards in Room 113.
 - o Surveillances/PMs:
 - 123 Surveillances.
 - 12 PM packages.

13.08 T Plant

- Surveillances/PMs:
 - o 416 Surveillances.
 - o 18 PM packages.

13.09 CWC and Low Level Burial Grounds (LLBG)

- Performed/Completed:
 - o Emergency light repairs in 2402-W series buildings.
 - o Waste box covering/repairs in the Outside Storage Area (OSA) A.

CWC Container Watch List:

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

Environmental Enhancement:

- o Data reconciled/containers labeled: 266 drums (Target: 750 drums)
- Surveillances/PMs:

- o 20 PM packages.
- o 314 Surveillances.
- o Shipments Received:
 - Eight SWBs from PFP to CWC.

13.12 Integrated Disposal Facility

- Completed monthly inspections.

13.16 Off Site Spent Nuclear Fuel Disposition

- Maintained coordination for offsite Spent Nuclear Fuel Disposition.

13.21 Mixed Waste Disposal Trenches (MWT)

- Completed:
 - o 135 Surveillances.

MAJOR ISSUES

Issue:

Deteriorating Waste Containers: Retrieved and repackaged containers in storage are showing increased degradation, requiring additional mitigation activities.

Corrective Action:

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

Status:

Continuing to use the best demonstrated available technology to provide adequate configuration and minimize the potential for contamination spread during the long-term storage (i.e., protecting boxes with tarps or protective shoring and over packing drums). RL has provided additional authorization for \$17 million of TRU Repackaging, which helps to address this issue, and containers are being shipped to commercial repackaging facility. Additional repackaging scope was incorporated into the contract and performance measurement baseline in October 2015.

Issue:

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

Corrective Action:

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

Status:

RL provided direction to proceed with the PNNL statistical analysis of the CSB stack flow data. A contract was awarded to PNNL on July 29, 2015. The first deliverable was received September 28, 2015; the preliminary review is complete. PNNL supplied preliminary information providing a basis for an expanded flow range. A meeting with RL and WDOH was held October 8, 2015 to present the first deliverable from PNNL. Following the meeting, PNNL cleared the presentation for release, and the cleared copies were provided to WDOH on October 22, 2015. WDOH provided positive feedback on the PNNL presentation, but wants at least one measured data point of CSB stack flow from the lower end of

the PNNL study range. The facility Environmental Compliance Officer is looking into feasibility of getting this data point during annual stack flow testing. PNNL was given direction to proceed with preparation of their formal report on December 1, 2015.

Issue:

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

Corrective Action:

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

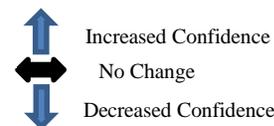
Status:

Completed M03 tube borescoping and M03 and M04 tube cleanup activities. Preliminary conclusions from the November 12, 2015, status report are now validated and a formal report is now in process. Follow-on surveillance/inspection recommendation is to pull the M03 cover for inspection in March 2016. Conditions at that time will support any follow-on actions/surveillance schedules.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

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



Risk Title	Unmitigated Risk Impacts	Assessment		Comments																	
		Month	Trend																		
RL-0013/WBS-013																					
Explanation of major changes to the project monthly spotlight chart: No major changes to the monthly spotlight chart in the month of November.																					
Realized Risks (Risks that are currently impacting project cost/schedule)																					
WSD-125: Multi-Year Pause in Waste Processing Results in Unexpected Container Integrity Issues	A pause in waste processing results in an unexpected container degradation within SWOC (excluding TRU Retrieval activities) and require additional resources to respond. Risk Handling Strategy: Accept Probability: Likely (75% to 90%) Worst Case Impacts: \$5 million, 0 day			<p>Risk Event: In November 2011, degraded containers were discovered in CWC.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Risk recovery action(s)</th> <th style="text-align: center;">Risk Date</th> <th style="text-align: center;">FC Date</th> <th style="text-align: center;">%</th> </tr> </thead> <tbody> <tr> <td>Perform daily/weekly waste container surveillances to identify container abnormalities.</td> <td rowspan="4" style="text-align: center; vertical-align: middle;">10/01/11</td> <td style="text-align: center;">On-Going</td> <td style="text-align: center;">N/A</td> </tr> <tr> <td>Manage a "watch-list" of waste containers that have shown signs of degradation or are associated with degraded containers.</td> <td style="text-align: center;">On-Going</td> <td style="text-align: center;">N/A</td> </tr> <tr> <td>Overpack degraded waste packages.</td> <td style="text-align: center;">On-Going</td> <td style="text-align: center;">N/A</td> </tr> <tr> <td>Process waste packages at a rate funded by RL.</td> <td style="text-align: center;">On-Going</td> <td style="text-align: center;">N/A</td> </tr> </tbody> </table> <p>Recovery Action Assessment: Project continued to perform daily/weekly/monthly container surveillances in the month of September to identify container and container cover abnormalities. A PI is currently being negotiated to ship 280 m3 in FY2016, largely from Outside Storage Area A. A contract is being placed to design and fabricate a large overpack for storage box 75DMA16F3 with a subsequent move into 2403WD. It is expected the contract award date will be November 19, 2015 with a delivery date of late March 2016.</p> <p>A potential impact may be realized due to regulator uncertainties related to the definition of a satisfactory container when corrosion is evident. These uncertainties may result in the inability to efficiently receive waste from on-site generators, i.e., PFP. No alternative course of actions needed at this time; however, a teleconference with EPA concerning the definition of a good drum was held in the month of November. At this time it is undetermined on the timeframe to reach a conclusion. Additional meetings will be set up to discuss potential relief with the regulators.</p>	Risk recovery action(s)	Risk Date	FC Date	%	Perform daily/weekly waste container surveillances to identify container abnormalities.	10/01/11	On-Going	N/A	Manage a "watch-list" of waste containers that have shown signs of degradation or are associated with degraded containers.	On-Going	N/A	Overpack degraded waste packages.	On-Going	N/A	Process waste packages at a rate funded by RL.	On-Going	N/A
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Manage a "watch-list" of waste containers that have shown signs of degradation or are associated with degraded containers.		On-Going	N/A																		
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Process waste packages at a rate funded by RL.		On-Going	N/A																		

Risk Title	Unmitigated Risk Impacts	Assessment		Comments															
		Month	Trend																
RL-0013/WBS-013																			
WSD-W130-07: WESF W-130 Class 3 Permit modifications – Ecology	<p>Significant comments or rejection from Ecology on the Class 3 permit modification and closure plan are issued, resulting in cost impacts and schedule delays.</p> <p>Risk Handling Strategy: Control</p> <p>Probability: Likely (75% to 90%)</p> <p>Worst Case Impacts: \$0, 144 days</p> <p>*Cost increase will result in cost per day impacts from crews, and hotel load.</p>	●	↔	<p>Risk Event: Risk was realized upon receipt of letter of incompleteness from Ecology on closure plan and Class III permit modifications.</p> <table border="1"> <thead> <tr> <th>Risk recovery action(s)</th> <th>Risk Date</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Established logic ties in schedule to prompt request of a temporary authorization in the event that an approved permit is not provided in time to support field execution schedule.</td> <td rowspan="3" style="text-align: center;">3/25/15</td> <td style="text-align: center;">Complete</td> <td style="text-align: center;">100</td> </tr> <tr> <td>Work with Ecology to resolve areas of incompleteness in permit modification and closure plan.</td> <td style="text-align: center;">Complete</td> <td style="text-align: center;">100</td> </tr> <tr> <td>Obtain Temporary Authorization from Ecology to allow construction activities to proceed without full permit approval</td> <td style="text-align: center;">3/31/16</td> <td style="text-align: center;">10</td> </tr> </tbody> </table> <p>Recovery Action Assessment: Closure Plan comments have been resolved with Ecology, however a new issue was identified November 3 on closure performance standards for cadmium and chromium. Ecology and DOE/CHPRC do not agree on closure performance standards. Certified copy of closure plan and Part A permit modification will be submitted to Ecology, and issue will be resolved during public comment period. Temporary Authorization to perform construction activities will be requested to avoid impacting schedule, however, additional resources will continue to be necessary to work permitting issues until final permit is issued and implemented. Additional cost for labor resources is incorporated into CP269 R2 through April 2016. No additional alternative course of actions needed at this time.</p>	Risk recovery action(s)	Risk Date	FC Date	%	Established logic ties in schedule to prompt request of a temporary authorization in the event that an approved permit is not provided in time to support field execution schedule.	3/25/15	Complete	100	Work with Ecology to resolve areas of incompleteness in permit modification and closure plan.	Complete	100	Obtain Temporary Authorization from Ecology to allow construction activities to proceed without full permit approval	3/31/16	10	
Risk recovery action(s)	Risk Date	FC Date	%																
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Work with Ecology to resolve areas of incompleteness in permit modification and closure plan.		Complete	100																
Obtain Temporary Authorization from Ecology to allow construction activities to proceed without full permit approval		3/31/16	10																
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)																			
Lifecycle Risk Triggers (Risk could be realized at any point of the project)																			
WSD-019: MLLW & TRU Treatment Impacts	<p>MLLW & TRU treatment capacity/capability does not meet Hanford needs or treatment does not occur as scheduled, resulting in cost impacts.</p> <p>Risk Handling Strategy: Accept</p> <p>Probability: Very Low (<10%)</p> <p>Worst Case Impacts: \$10 million, 0 day</p>	●	↔	<p>Risk Trigger Metric: Will continue throughout contract (September 30, 2018).</p> <table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Leverage capability at PFNW to utilize their Low-Level Facility (LLF) for the receipt and processing of non-mixed TRU waste from CWC and PFP. The LLF has a separate radioactive material license (RML) from their Mixed Waste Facility (MWF); therefore, allowing additional quantities of NRC defined special nuclear material (SNM) to be received.</td> <td style="text-align: center;">9/30/16</td> <td style="text-align: center;">10</td> </tr> <tr> <td>Established multiple treatment contracts for the processing of MLLW and TRU with terms extending to the end of the current CHPRC contract with RL (i.e., September 30, 2018).</td> <td style="text-align: center;">On-Going</td> <td style="text-align: center;">N/A</td> </tr> <tr> <td>Continue to work with RL to fund the processing of TRU waste at PFNW at a rate in which keeps them viable (i.e., keeps the doors open).</td> <td style="text-align: center;">On-Going</td> <td style="text-align: center;">N/A</td> </tr> <tr> <td>Work with RL and PFNW to increase the quantity of NRC defined special nuclear material (SNM) in PFNW's Mixed Waste Facility (MWF). Their current limit is 200 grams of total Pu. The limit needs to be increased between 400 – 1,000 grams to allow for larger TRUM waste quantities to be received and processed at their MWF.</td> <td style="text-align: center;">On-Going</td> <td style="text-align: center;">N/A</td> </tr> </tbody> </table> <p>Mitigation Assessment: Additional mitigation actions were identified in the month of November due to the developing issue at PFP with the TRUM waste being generated from the PRF Canyon floor cleanout could affect our ability to have sufficient treatment capability/capability for the processing of Legacy TRUM waste for the remainder of FY2016 and all of FY2017 and FY2018. Abasement on if these impacts will materialize is too early to determine at this time; however, the situation will be closely monitored in the weeks to come. No alternative course of actions are being taken at this time until the full impacts are known.</p>	Mitigation action(s)	FC Date	%	Leverage capability at PFNW to utilize their Low-Level Facility (LLF) for the receipt and processing of non-mixed TRU waste from CWC and PFP. The LLF has a separate radioactive material license (RML) from their Mixed Waste Facility (MWF); therefore, allowing additional quantities of NRC defined special nuclear material (SNM) to be received.	9/30/16	10	Established multiple treatment contracts for the processing of MLLW and TRU with terms extending to the end of the current CHPRC contract with RL (i.e., September 30, 2018).	On-Going	N/A	Continue to work with RL to fund the processing of TRU waste at PFNW at a rate in which keeps them viable (i.e., keeps the doors open).	On-Going	N/A	Work with RL and PFNW to increase the quantity of NRC defined special nuclear material (SNM) in PFNW's Mixed Waste Facility (MWF). Their current limit is 200 grams of total Pu. The limit needs to be increased between 400 – 1,000 grams to allow for larger TRUM waste quantities to be received and processed at their MWF.	On-Going	N/A
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High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)																			
Lifecycle Risk Triggers (Risk could be realized at any point of the project)																			

Risk Title	Unmitigated Risk Impacts	Assessment		Comments						
		Month	Trend							
RL-0013/WBS-013										
WSD-097: Major Equipment Failure - T-Plant	T Plant suffers a major equipment failure (crane, primary power supply, etc.), resulting in cost impacts, and schedule delays. Risk Handling Strategy: Accept Probability: Low (10% to 25%) Worst Case Impacts: \$2M, 33 days	●	↔	<p>Risk Trigger Metric: During planned S&M activities a suspect system component is discovered that requires attention, or an unexpected malfunction results in this risk from being realized. This risk will continue throughout the CHPRC (September 30, 2018).</p> <table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>None identified at this time.</td> <td>N/A</td> <td>N/A</td> </tr> </tbody> </table> <p>Mitigation Assessment: The mitigation strategies have been put in place (i.e., aggressive S&M activities), as a result, the risk strategy is to accept with no further mitigation actions. <i>It is anticipated the crane PM's will be completed by mid-December.</i> No alternative course of actions needed at this time.</p>	Mitigation action(s)	FC Date	%	None identified at this time.	N/A	N/A
Mitigation action(s)	FC Date	%								
None identified at this time.	N/A	N/A								
WSD-136:CWC Components Fail	CWC facilities and components may reach their end of life or become obsolete. These items will need to be replaced and/or repaired outside of planned funding profiles, resulting in cost impacts. Risk Handling Strategy: Accept Probability: Medium (26% to 74%) Worst Case Impacts: \$1.5M, 0 day	●	↔	<p>Risk Trigger Metric: During planned S&M activities a suspect system component is discovered that requires attention, or an unexpected malfunction results in this risk from being realized. This risk will continue throughout the CHPRC (September 30, 2018).</p> <table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>None identified at this time.</td> <td>N/A</td> <td>N/A</td> </tr> </tbody> </table> <p>Mitigation Assessment: <i>No changes in the month of November.</i> The mitigation strategies have been put in place (i.e., S&M activities), as a result, the risk strategy is to accept with no further mitigation actions. No alternative course of actions needed at this time.</p>	Mitigation action(s)	FC Date	%	None identified at this time.	N/A	N/A
Mitigation action(s)	FC Date	%								
None identified at this time.	N/A	N/A								
WSD-137: OPP: Planned Efficiencies	Funding profile for the contract period are achieved through efficiencies. Risk Handling Strategy: Exploit Probability: Likely (75% to 90%) Worst Case Impacts: \$48 million, 0 day	●	↔	<p>Risk Trigger: Will continue throughout project lifecycle (September 30, 2018).</p> <table border="1"> <thead> <tr> <th>Opportunity action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Plan work activities and procurements to be as efficient as possible with minimal resources.</td> <td>On-Going</td> <td>N/A</td> </tr> </tbody> </table> <p>Opportunity Assessment: <i>No changes in the month of November.</i> The project is continuing implementation of planned efficiencies (approximately \$50 million to date) and forecasts indicate that the efficiencies will continue through the contract period of performance. No foreseeable impacts in the near future, and no alternative course of actions needed at this time. However, emerging issues continue to place pressure on ability to achieve planned efficiencies.</p>	Opportunity action(s)	FC Date	%	Plan work activities and procurements to be as efficient as possible with minimal resources.	On-Going	N/A
Opportunity action(s)	FC Date	%								
Plan work activities and procurements to be as efficient as possible with minimal resources.	On-Going	N/A								
FY2016 Risk Triggers (Risk could be realized in FY2016)										
WSD-W130-09: Final safety basis adds additional new controls	The risk exists that the RL approval of the safety basis will require new controls not previously considered or used at WESF resulting in cost and schedule impacts. Risk Handling Strategy: Accept Probability: Very Low (<10%) Worst Case Impacts: \$120K, 96 days	●	↔	<p>Risk Trigger Metric: Receipt of RL approval of safety basis (Safety Evaluation Report SER) that identifies new controls or requirements not currently planned or identified.</p> <table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>None identified at this time.</td> <td>N/A</td> <td>N/A</td> </tr> </tbody> </table> <p>Mitigation Assessment: The mitigation strategies have been put in place (i.e., interface meetings with RL), as a result, the risk strategy is to accept with no further mitigation actions identified at this time. <i>It is expected the SER will be received in December with no new controls. In the event this risk is closed in December it will no longer be reported on, and closed in the risk register.</i> No alternative course of actions needed at this time.</p>	Mitigation action(s)	FC Date	%	None identified at this time.	N/A	N/A
Mitigation action(s)	FC Date	%								
None identified at this time.	N/A	N/A								

Risk Title	Unmitigated Risk Impacts	Assessment		Comments															
		Month	Trend																
RL-0013/WBS-013																			
WSD-W130-17: Changes in the final design are needed after the design is issued.	Changes in the final design are needed after the design is issued. Changes are driven by unexpected conditions, additional reviews of the design media, or field conditions. Design changes result in cost impacts and schedule delays. Risk Handling Strategy: Control Probability: Medium (26% to 74%) Worst Case Impacts: \$650K, 144 days	●	↔	<p>Risk Trigger Metric: Risk trigger will continue throughout project lifecycle.</p> <table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Maintain tight design configuration and change control.</td> <td>9/30/16</td> <td>15</td> </tr> <tr> <td>Inform change requestors of change impacts and perform informal cost/benefit analysis to determine necessity of change.</td> <td>9/30/16</td> <td>15</td> </tr> <tr> <td>Keep project team and regulators informed of status.</td> <td>9/30/16</td> <td>15</td> </tr> </tbody> </table> <p>Mitigation Assessment: Project has performed informal cost/benefit analysis of design change to change location of K3N duct tie-in to existing ventilation ducting in truck port. Cost/benefit of the proposed new design does not warrant a design change. Project is investigating potential communication between WESF and B Plant through opening in hot pipe trench. If investigations reveal communication between WESF and B Plant, design change may be necessary to prevent grout from entering B Plant. No alternative course of actions needed at this time.</p>	Mitigation action(s)	FC Date	%	Maintain tight design configuration and change control.	9/30/16	15	Inform change requestors of change impacts and perform informal cost/benefit analysis to determine necessity of change.	9/30/16	15	Keep project team and regulators informed of status.	9/30/16	15			
Mitigation action(s)	FC Date	%																	
Maintain tight design configuration and change control.	9/30/16	15																	
Inform change requestors of change impacts and perform informal cost/benefit analysis to determine necessity of change.	9/30/16	15																	
Keep project team and regulators informed of status.	9/30/16	15																	
WSD-W130-18: Failure of WESF Hot Cell during Grouting	There is a risk that the capacity of the floor or walls of the hot cells cannot sustain the applied loads from grout and fails. In addition, a failure to the cover blocks and or the canyon floor result in cost impacts, and schedule delays. Risk Handling Strategy: Control Probability: Medium (26% to 74%) Worst Case Impacts: \$650K, 144 days	●	↔	<p>Risk Trigger Metric: Initiation of hot cell grouting.</p> <table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Perform a structural evaluation of the effects of grout on the hot cells and building structures to determine impacts</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Estimate expected volume of hot pipe trench.</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Compare actual grout fill volume with estimated value to determine if hot pipe trench has been filled.</td> <td>9/30/16</td> <td>0</td> </tr> <tr> <td>Fill hot cells in 3 foot lifts to minimize sudden stress by allowing partial curing between lifts, as well as early detection of hot cell floor failure.</td> <td>9/30/16</td> <td>0</td> </tr> </tbody> </table> <p>Mitigation Assessment: Mitigation actions identified in the month of October did not reflect current FES dates. In the month of November forecasted finish dates were adjusted to align with the FES. This adjustment to the dates does not impact the overall K3 project. Structural evaluations and calculations have been completed and identified controls necessary during grouting (limit lifts of grout placement to 3 feet, compare actual grout volume placed to calculate estimated volume). No alternative course of actions needed at this time.</p>	Mitigation action(s)	FC Date	%	Perform a structural evaluation of the effects of grout on the hot cells and building structures to determine impacts	Complete	100	Estimate expected volume of hot pipe trench.	Complete	100	Compare actual grout fill volume with estimated value to determine if hot pipe trench has been filled.	9/30/16	0	Fill hot cells in 3 foot lifts to minimize sudden stress by allowing partial curing between lifts, as well as early detection of hot cell floor failure.	9/30/16	0
Mitigation action(s)	FC Date	%																	
Perform a structural evaluation of the effects of grout on the hot cells and building structures to determine impacts	Complete	100																	
Estimate expected volume of hot pipe trench.	Complete	100																	
Compare actual grout fill volume with estimated value to determine if hot pipe trench has been filled.	9/30/16	0																	
Fill hot cells in 3 foot lifts to minimize sudden stress by allowing partial curing between lifts, as well as early detection of hot cell floor failure.	9/30/16	0																	
Unassigned Risks (Pending ownership of identified risks/opportunities)																			
No unassigned risks identified in the month of November .																			

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	10.2	9.6	7.3	(0.7)	-6.6%	2.2	23.5%

Numbers are rounded to the nearest \$0.1 million

CM Schedule Performance (-\$0.7M/-6.6%)

The current month unfavorable schedule variance is due to accelerated RH/Large Box Repack scope that has been completed in prior periods but planned in the current period.

CM Cost Performance (+\$2.2M/+23.5%)

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

Contract-to-Date (CTD)

(\$M)

WBS 013/RL-0013 Waste and Fuels Management Project	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)
Total	998.0	1,000.6	941.1	2.6	0.3%	59.5	5.9%	1,335.7	1,270.0	65.6

Numbers are rounded to the nearest \$0.1 million

CTD Schedule Performance (+\$2.6M/+0.3%)

The schedule variance is within threshold.

CTD Cost Performance (+\$59.5M/+5.9%)

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

Variance at Completion (+\$65.6M/+4.9%)

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

Contract Performance Report Formats are provided in Appendix A.

FUNDS vs. SPEND FORECAST (\$M)

FY2016			
WBS 013/RL-0013 Waste and Fuels Management Project	Projected Funding	Spending Forecast	Spend Variance
RL-0013	109.6	108.6	1.1

Numbers are rounded to the nearest \$0.1 million.

Funds/Variance Analysis

FY2016 project funding for RL-0013 remained steady. The FYSF was increased from \$104.4 million to \$108.6 million to incorporate risk actions in the WESF Stabilization and Ventilation Project.

Critical Path Schedule

Critical path analysis can be provided upon request.

Baseline Change Requests

BCR-013-16-005R0, CO278, Procure DOT Type 7A Large Shipping Container (Super 7A)

BCR-013-16-006R0, Addition of Interim Milestones for Alternatives Analysis of TRU/Mixed Waste Disposition

BCR-013-16-007R0, Revise T Plant Planning

BCR-013-16-008R0, CO276, Additional WESF Occupancy

MILESTONE STATUS

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

Number	Title	Due Date	Actual Date	Forecast Date	Status/ Comment
M-091-44Z-006	Annual PMM or Quarterly Notification of Cert of CH/RH TRUM.	12/31/15		12/31/15	On Schedule
C-026-07J	Tritium Treatment Technology Development to Ecology and EPA	3/31/16		3/31/16	On Schedule
M-091-03J	Submit Revision of TRUM Waste and MLLW PMP to Ecology.	6/30/16		6/30/16	On Schedule

Number	Title	Due Date	Actual Date	Forecast Date	Status/ Comment
M-091-01A	Complete Conceptual Design for RH TRUM and TRUM Facilities and Change Package.	9/30/16		--	To Be Missed – realignment of select M-091 milestones deletes this milestone.
M-091-040	Complete retrieval and designation of CH RSW in Burial grounds 218-W-4B, W-3A, and E-12B	9/30/16		--	To Be Missed – realignment of select M-091 milestones deletes this milestone.
M-091-41A	Complete retrieval of non-caisson RH RSW.	9/30/16		--	To Be Missed – realignment of select M-091 milestones deletes this milestone.
M-091-44Q	Certify 300 cubic meters large container CH TRUM and/or RH TRUM Waste.	9/30/16	5/26/11	--	Completed
M-091-46F	Certify 250 cubic meters of small container CH TRUM waste.	9/30/16		--	To Be Missed – realignment of select M-091 milestones deletes this milestone.
P-091-47B	Certify or treat 280 cubic meters of TRUM/MLLW waste in FY2016.	9/30/16		9/30/16	On Schedule
P-091-51	Submit secondary document for new or modified facilities to process all Hanford Site RH TRUM waste.	9/30/16		9/30/16	On Schedule
M-091-44Z-007	Annual PMM or Quarterly Notification of Cert of CH/RH TRUM.	12/31/16		12/31/16	On Schedule

SELF-PERFORMED WORK

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

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

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

Section D

Soil and Groundwater Remediation Project (RL-0030)



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

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

November 2015
CHPRC-2015-11, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

P&T Operations continued making progress on the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) remedial process documentation for the RCCC. 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)		Uranium (kg)	
	CM	FYTD	CM	FYTD	CM	FYTD	CM	FYTD	CM	FYTD	CM	FYTD
DX P&T	32.2	66.3	7.0	14.7								
HX P&T	18.8	38.6	2.2	4.7								
KR-4 P&T	13.7	27.0	0.3	0.7								
KW P&T	14.2	28.9	0.8	1.9								
KX P&T	35.4	68.9	2.2	4.3								
200 West P&T	80.8	167.2	5.8	12.6	200	427	6,151	14,044	2.8x10 ¹²	4.94x10 ¹²	2.1	3.1
Combined	195	396.9	18.3	38.9	200	427	6,151	14,044	2.8x10¹²	4.94x10¹²	2.1	3.1

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

EMS Objectives and Target Status

Objective	Target	Actions	Due Date	Status	Overall Target Status
16-EMS-SGWR-OB1 Monitor and confirm low carbon tetrachloride emissions at the 200 West P&T Facility	T1 – Evaluate treated off gas analytical results from compliance sampling and process sampling each quarter.	Compile 1 st quarter emissions evaluation.	12/31/15	66%	16%
		Compile 2 nd quarter emissions evaluation.	3/31/16	0%	
		Compile 3 rd quarter emissions evaluation.	6/30/16	0%	
		Compile 4 th quarter emissions evaluation and complete work site assessment on FY2016 emissions.	9/30/16	0%	
16-EMS-SGWR-OB2 More effective promotion of EMS	T1 – Promote and increase S&GRP project personnel EMS awareness via various means throughout FY2016.	Present four EMS topics to S&GRP personnel, typically during the S&GRP Monday Tailgate, S&GRP Supervisors' Meeting, or S&GRP All-Hands Meeting.	9/30/16	0%	0%
16-EMS-SGWR-OB3 Promote a more thorough understanding of the regulatory umbrella under which S&GRP conducts operations.	T1 – Promote and increase S&GRP project personnel environmental regulatory awareness via various means, targeting small group settings, throughout FY2016.	Facilitate four regulatory related discussions based on such topical areas as RCRA Permit, CERCLA Decision Documents, Waste Management, Air Permit, etc. These discussions would typically be targeted at smaller S&GRP group settings such as staff meetings, department meetings, PODs, etc.	9/30/16	0%	0%
16-EMS-SGWR-OB4 Reduce the risk of noncompliance with environmental requirements.	T1 – Develop compliance matrices for S&GRP Pump-and-Treat facilities CERCLA RD/RAWPs.	Identify implementing mechanisms and gaps for environmental requirements (i.e., requirement matrices) for the following RD/RAWPs: DOE/RL-96-84, Revision 0 and 0-A, DOE/RL-2006-52, DOE/RL-2006-75, and DOE/RL-2008-78.	9/30/16	0%	0%

TARGET ZERO PERFORMANCE

	CM Quantity	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	0	N/A
Total Recordable Injuries	0	1	N/A
First Aid Cases	0	41*	*13 FA cases, PTS in support of RL-0030.
Near-Misses	0	1	N/A

KEY ACCOMPLISHMENTS

RL-0030.O1 RL 30 Operations

River Corridor

300-FF-5 Operable Unit

- Completed the Stage A uranium sequestration activities from November 6 – 18, 2015 and initiated equipment demobilization. Field measurements (e.g. ERT and piezometer conductivity) confirmed that the near-surface infiltration reached the aquifer prior to injection into the periodically rewetted zone (PRZ). The Stage A objectives were satisfied as shown in the following table:

Design Parameter	Infiltration		PRZ Injection		Aquifer Injection	
	RI/SAP Design	Stage A Field	RI/SAP Design	Stage A Field	RI/SAP Design	Stage A Field
Average Concentration (mg/L)						
Monosodium phosphate	5,699	6,454	9,409	9,742	9,409	9,747
Pyrophosphate	665	757	1,097	1,085	1,097	1,109
Volume (gal)	972,000	881,953*	432,000	473,565	432,000	444,245
*The targeted mass of chemicals to be infiltrated was achieved and based on field data collected during Stage A operations, the chemical distribution goals were achieved.						

100-BC-5 Operable Unit

- Continued preparation of the Draft A RI/FS, including:
 - Finalized preparation of hexavalent chromium conceptual site model and determination of maximum flux input for groundwater model simulations.
 - Completed preliminary remediation goal development for the screening of vadose zone soil samples.
 - Completed comparison of groundwater risk assessment database samples to maximum contaminant levels and aquatic water standards.
 - Met with PNNL research team to review and apply the results of study titled “Assessment of Hexavalent Chromium Natural Attenuation for the Hanford Site 100 Area.”

100-HR-3 Operable Unit

- Resolved Ecology comments on the Interim Action RD/RAWP, SAP, and O&M plans.

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

- Completed the 200-BP-5 Treatability Test on November 18, 2015. Continued pumping groundwater from the 200 East Area to prevent the pipeline from freezing.
- Completed the draft functional requirements report for the 200-BP-5 pipeline extension design effort (from current extraction well 299-E33-268 to well 299-E33-360).
- Ecology suspended review of the Draft A 200-BP-5 RI report and Draft A 200-PO-1 RI report addendum due to modeling issues. Provided support to RL in drafting a response.

200-UP-1 Operable Unit

- Completed operational testing of the I-129 plume injection system. Unattended operation of the I-129 injection wells began on November 2, 2015, with a total flow of approximately 300 gallons per minute (gpm) between the three wells (design objective was 50 to 100 gpm per well).
- Received RL concurrence on well drilling priorities for FY2016 remedy performance monitoring wells and the first three SE chromium characterization wells.

200-IS-1 Operable Unit

- Provided Ecology with chapters one and two of the 200-IS-1 RI/FS work plan for informal review; conducted workshop with Ecology and RL on November 16, 2015, to receive and resolve comments.

200-SW-2 Operable Unit

- Completed preparation of four letters and two reports concerning removal of select landfills from the RCRA permit.
- Provided RL with initial binning and anticipated response categories for the Yakama Nation Work Plan comments on November 30, 2015.

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

- Operated the 200 West P&T an average of 1,870 gpm. Experienced reduced flows throughout the month because of membrane bioreactor maintenance cleaning.

100 Area P&Ts

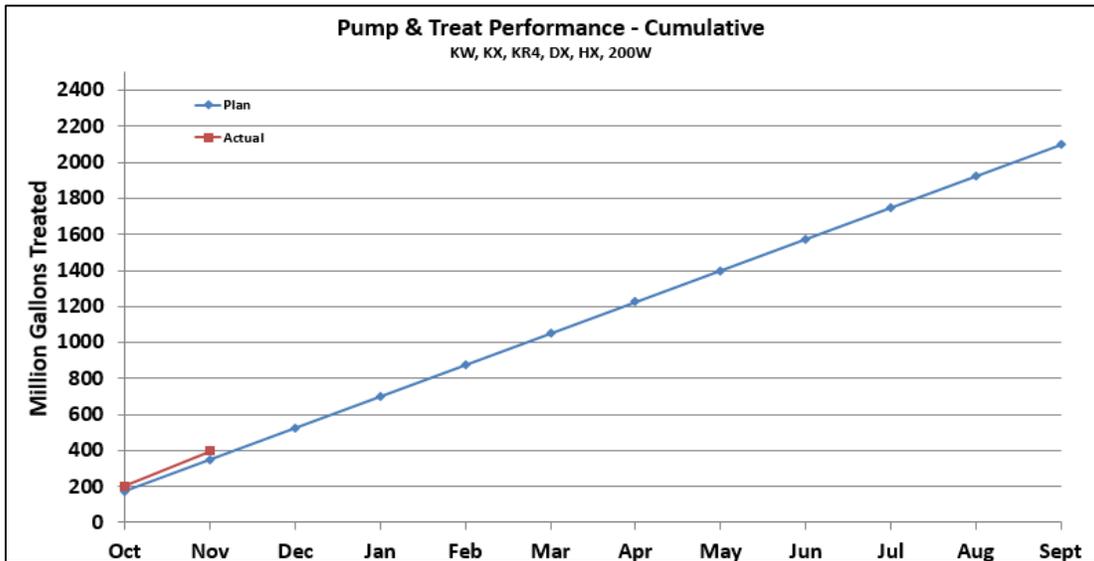
- Operated the DX P&T at 745 gpm, near the facility capacity of 775 gpm.
- Operated the KR-4 P&T at 317 gpm, near the facility capacity of 330 gpm.
- Operated the KW P&T at 328 gpm, at the facility capacity of 330 gpm.
- Operated the KX P&T at 820 gpm, near the facility capacity of 900 gpm.
- Operated the HX P&T at maximum extraction well capacity. Monthly average at approximately 435 gpm.

Perched Water (200-DV-1)

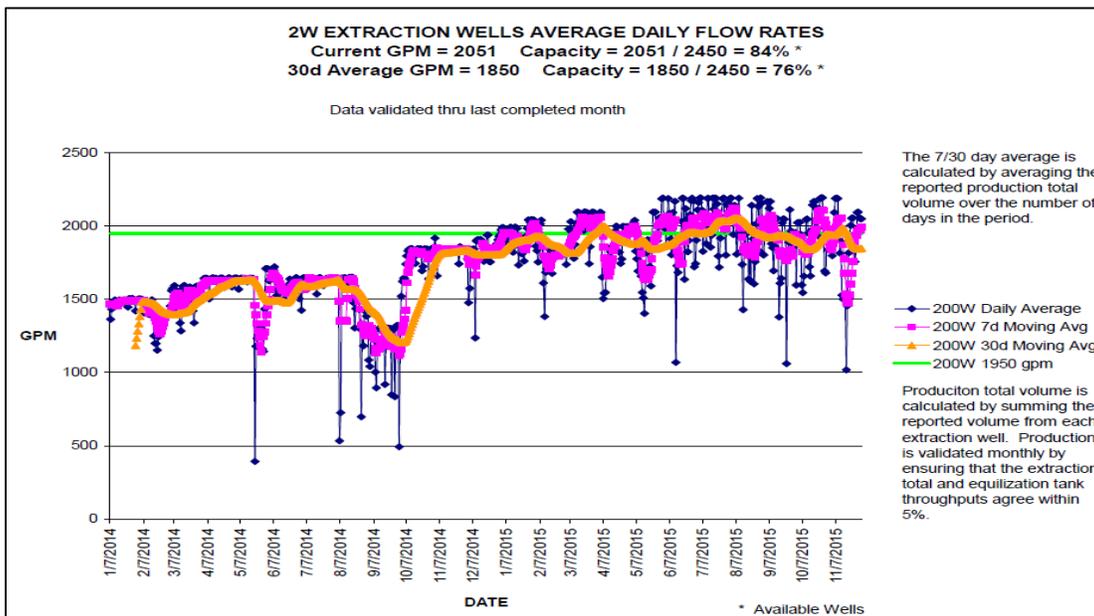
- The perched water removal system was shut down on August 20, 2015, to support construction of two new perched water removal stations and retrofit of the original station. This system has removed a total volume of 301,156 gallons of perched water since initiating operations on August 30, 2011. No contaminants were removed for the months of September through November.

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

FY2016 P&T Operations



200 West P&T



MAJOR ISSUES

Issue:

Field work has been delayed due to the Section 106 Cultural Resource Review (CRR) and approval process for work within the Traditional Cultural Property (TCP). This issue originally impacted performance of the 100-NR-2 apatite barrier in FY2014, and later the installation of the six M-24 milestone monitoring wells and D&D of the P&T facility in FY2015. Notified by MSA on November 19, 2015, that some of the proposed scope associated with the FY16 P&T Optimization Plan is within the boundaries of the TCP and will be impacted.

Corrective Action:

Develop and implement an approach for preparing the CRRs and conducting the associated Memorandum of Agreement (MOA) workshops to allow more rapid completion of the MOA process so field work can be performed within the TCP. In the meantime, move impacted work scope to FY2017 and beyond.

Status:

For the 100-NR-2 work scope (well drilling and D&D of the P&T facility), RL to continue discussions with the Tribes to approve the draft MOAs. For the 100-HR-3 and 100-KR-4 P&T scope, several meetings were held to adjust the P&T optimization scope to only the activities that occur outside of the TCP. Meetings between RL, MSA, and CHPRC are planned to occur in December 2015 to identify a path forward to resolve the issue of working in a TCP.

Issue:

Experiencing regulatory agency delays in the approval of decision documents, including the legal reviews of the 100-D/H Proposed Plan (DOE/RL-2011-111), extended comment resolution on the 100-N RI/FS Report (DOE/RL-2012-15, Draft A), Ecology approval of the 200-IS-1 Tri-Party Agreement change packages (C-013-01 and C-014-02), which affect the 200-IS-1 RI/FS Work Plan (DOE/RL-2010-114) scope definition, and Ecology review of the Draft A 200-BP-5 RI/200-PO-1 RI Addendum.

Corrective Action:

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

Status:

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

- 100-HR-3: EPA legal comments were received. Comment resolution is underway for a planned mid-January 2016 issuance of the PP for public comment.
- 100-NR-2: The regular weekly comment resolution meetings with Ecology on the RI/FS are only occasionally held due to regulator availability.
- 200-IS-1: Conducted workshop on November 18, 2015, with RL and Ecology on the remaining tanks and open action items. Reached conceptual agreement on the remaining eight waste sites (one recommended for TSD designation and the remaining as RCRA-CERCLA past practice). Updating the draft TPA change package C-13-01 based on these agreements.
- 200-BP-5: On October 23, 2015, Ecology provided a letter stating they are suspending their review of the Draft A 200-BP-5 RI report and Draft A 200-PO-1 RI report addendum due to issues related to fate and transport modeling. Issue resolution has been elevated to RL senior management for resolution, with Agency meetings tentatively scheduled to occur in January 2016.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

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

-  Increased Confidence
-  No Change
-  Decreased Confidence

Risk Title	Unmitigated Risk Impacts	Assessment		Comments									
		Month	Trend										
RL-0030/WBS-030													
Explanation of major changes to the project monthly spotlight chart: No major changes to the risk spotlight chart in the month of November .													
Realized Risks (Risks that are currently impacting project cost/schedule)													
OPPORTUNITY: SGW-007A: Sampling Requirement Reduction	Reduction in field sampling (locations, frequency, or total number of samples collected) has the opportunity to reduce cost. Risk Handling Strategy: Exploit Probability: Medium (26% to 74%) Worst Case Impacts: \$3 million, 0 day			Opportunity Event: The <i>Optimization Plan to Revise the Groundwater Sampling Plan</i> is final and provides the roadmap to revise all groundwater SAPs over the next two years. <table border="1" style="margin-top: 10px;"> <thead> <tr> <th>Opportunity action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Develop schedule for completing RL Panel Review on the SAPs.</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Obtain RL approval of the revised SAP.</td> <td>12/17/15</td> <td>58</td> </tr> </tbody> </table> Opportunity Assessment: All CERCLA SAPs have completed review by the RL Panel Review. Ecology comments on the 100-HR-3 SAP have been resolved and the revised text incorporated into the 100-KR-4 SAP. The 100-KR-4 SAP is on schedule to be transmitted to RL in mid-December. All other CERCLA SAPs have been completed. RL comments on the three remaining RCRA groundwater monitoring plans have been resolved and the revised documents are on schedule to be transmitted to RL in early December. RL comments on the draft AEA groundwater monitoring SAP were received on November 19, 2015, and resolved by the end of the month. This document is on schedule to be submitted to RL by mid-December. No alternative course of actions are needed at this time.	Opportunity action(s)	FC Date	%	Develop schedule for completing RL Panel Review on the SAPs.	Complete	100	Obtain RL approval of the revised SAP.	12/17/15	58
Opportunity action(s)	FC Date	%											
Develop schedule for completing RL Panel Review on the SAPs.	Complete	100											
Obtain RL approval of the revised SAP.	12/17/15	58											
PRC-005: Delayed Document Approvals	Required regulatory, nuclear safety, or transportation safety documents are not approved within the scheduled timeframes and impact CHPRC scheduled activities. Risk Handling Strategy: Transfer Probability: Very Likely (>90%) Worst Case Impacts: TBD			Risk Event: Progress on several key decision documents have been delayed due to regulator comments and resource availability: <ul style="list-style-type: none"> 100-D/H PP: The draft Revision 0 100-D/H PP was provided to Ecology in September 2014 for review. EPA Remedy Review Board (RRB) began on January 26, 2015, and comments were received by CHPRC on April 30, 2015. Additional technical reviews by Ecology have been completed. Ecology legal review began June 9, 2015, and is scheduled for 30 calendar days. Ecology legal review extended from July 10, 2015, to July 17, 2015. Ecology legal comments were received on August 5, 2015. Proposed responses to comments were submitted to Ecology on August 27, 2015. Following Ecology legal review, the revised PP was submitted for EPA legal review in early September 2015. EPA legal comments were received November 5, 2015. Comment resolution is underway. 100-N RI/FS: The Draft A 100-N RI/FS and Proposed Plan were provided to Ecology on June 24, 2013, completing Milestone M-015-75. Comments were received on October 2, 2013. Comment resolution has continued, which includes meetings to resolve comments chapter by chapter and preparation of several technical position papers. The team has progressed to Chapter 8; however, Ecology submitted an additional 104 comments on the revised Chapter 6, "Risk Assessment," on May 21, 2015. Due to the limited availability of Ecology staff, revision of the RI is expected to continue. 200-IS-1 RI/FS Work Plan (WP): RL invoked dispute resolution on December 10, 2013, for Tri-Party Agreement milestone M-015-112, Submit Draft B 200-IS-1 OU RI/FS WP. Resolution of this dispute, which includes the 200-IS-1 OU waste sites and TSD/past practice status, is required before the Draft B RI/FS WP can be submitted. On October 23, 2015, Ecology submitted a letter that suspended their review of the Draft A 200-BP-5 RI report and Draft A 200-PO-1 RI report addendum due to issues related to fate and transport modeling. 									

Risk recovery action(s)	Risk Date	FC Date	%
Resolution with Ecology/EPA on Draft Rev.0 100-D/H PP.	04/30/15	Ongoing	N/A
Resolution with Ecology on Draft A 100-N RI/FS Report.		Ongoing	79
Complete waste site scope definition and dispute resolution with Ecology on Draft B 200-IS-1 RI/FS.		1/30/16	50
Resolution with Ecology on the Draft A 200-BP-5/200-PO-1 RI Report		Ongoing	N/A

Risk Assessment:

- 100-D/H PP: RL submitted proposed responses to Ecology on August 27, 2015. Meeting between RL, EPA and Ecology was held on September 2, 2015, to resolve comments. The revised draft PP was submitted to EPA for a 30-day legal review on September 2, 2015. **EPA legal comments were received on November 5, 2015.**
- 100-N RI/FS: Comment resolution with Ecology on the Draft A 100-N RI/FS Report continues with the RI (Chapters 6 and 7). Ecology extended the comment resolution period to December 31, 2015 (15-NWP-179). Revised delivery schedule was prepared, however Ecology availability continues to impact schedule.
- 200-IS-1 RI/FS WP: Ecology is unwilling to sign Tri-Party Agreement change packages C-13-01 and C-14-02 until all TSDs are clearly identified. These change packages add 233 waste sites into 200 IS-1 Appendix C. Ecology shared their TSD/past practice resolution proposal on April 22, 2015. Additional discussions focused on tanks with liquids remaining following the August 1987 date are necessary with Ecology and RL legal counsels. This meeting was planned for May 21, 2015; it was then moved to June 4, 2015, due to Ecology legal counsel availability and staffing changes. Due to this change, the dispute resolution was extended to September 30, 2015. In September dispute resolution was further extended to December 31, 2015. **Conducted workshop on November 18, 2015, with RL and Ecology on the remaining tanks and open action items. Reached conceptual agreement on the remaining eight waste sites (one recommended for TSD designation and the remaining as RCRA-CERCLA past practice). Updating draft TPA change package C-13-01 based on these agreements. In November, the dispute resolution was further extended to January 30, 2016.**
- 200-BP-5 RI/FS: Ecology suspended their review of the Draft A RI/FS on October 23, 2015, due to issues related to fate and transport modeling.

Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)
 No critical risks identified in the month of **November**.

High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)
 No high risks identified in the month of **November**.

Unassigned Risks (Pending ownership of identified risks/opportunities)
 No unassigned risks identified in the month of **November**.

PROJECT BASELINE PERFORMANCE

Current Month

(\$M)

RL-0030 Soil and Groundwater Remediation	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)
Total	8.8	9.5	10.2	0.7	7.6%	(0.6)	-6.7%

Numbers are rounded to the nearest \$0.1 million.

CM Schedule Performance (+\$0.7M/+7.6%)

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

- Positive schedule performance this month is due to performing the 300-FF-5 Stage A site preparation/treatment application scope that was originally planned to be performed in May during the high river stage to September/October during the low river stage. In addition, the project



implemented BCR-030-16-009R0 *Well Realignment Scope Re-Plan for 100-KR-4, 100-HR-3, and 200-ZP-1*. This change re-planned FY2015 – FY2018 100-KR-4 well realignment budget to align with FY2016 P&T optimization priority activities in the 100-HR-3 and 200-ZP-1 Operable Units.

- This is offset, in part by performance of the cumulative impact analysis ahead of plan in FY2015 resulting in negative current period SV as the performance returns to zero. Also, scope associated with the 200 East closure plans, outer area decision documents, composite analysis, and 200-UP-1 drilling campaign has been deferred to align with the integrated priority list and available funding.

CM Cost Performance (-\$0.6M/-6.7%)

The negative cost variance (CV) resulted from the following:

- The 300-FF-5 Stage A site preparation/treatment application project experienced additional labor and procurement/material costs to start up and operate the infiltration and injection systems. This was due to solubility issues and resulted in an approximate 10 day schedule impact to the project start and additional chemical cost.
- Labor and material costs at the 200 West P&T increased due to addition of new waste streams and implementation of startup procedures.

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	1,172.5	1,164.4	1,145.3	(8.2)	-0.7%	19.1	1.6%	1,567.8	1,516.2	51.6

Numbers are rounded to the nearest \$0.1 million.

CTD Schedule Performance (-\$8.2M/-0.7%)

The variance is within reporting thresholds.

CTD Cost Performance (+\$19.1M/+1.6%)

The variance is within reporting thresholds.

Variance at Completion (+\$51.6/+3.3%)

The variance is within reporting thresholds.

Contract Performance Report Formats are provided in Appendix A.

FUNDS vs. SPEND FORECAST (\$M)

FY2016			
RL-0030 Soil and Groundwater Remediation	Projected Funding	Spending Forecast	Spend Variance
RL-0030	126.1	126.0	0.1

Numbers are rounded to the nearest \$0.1 million

Funds/Variance Analysis

FY2016 initial budget guidance received from RL reflects expected funding of \$509.3 million for the company. RL-0030 project funding is \$126.1 million for FY2016. The FYSF of \$126.0 million includes actions anticipated to achieve funding targets.

Critical Path Schedule

Critical path analysis can be provided upon request.

Baseline Change Requests

BCR-030-16-007R0, *CO #298 200-IS-1 Waste Site Change Package and Work Plan Update*
 BCR-030-16-008R0, *CO #295 200-IS-1 Geographic Interface Segmentation*
 BCR-030-16-009R0, *Well Realignment Scope Re-Plan for 100-KR-4, 100-HR-3, and 200-ZP-1*
 BCR-030-16-010R0, *Definitization of CO #271, Tri-Party Administrative Record Upgrade*
 BCR-030-16-011R0, *CO #294 100-KR-4 RI-FS and Proposed Plan Re-Write*
 BCR-030-16-012R0, *CO #293 100-BC-5 Decisional Draft Rewrite*
 BCR-PRC-16-014R0, *Revise Units for Hazardous Waste Resource Planning from Packages (WA) to Cubic Meters (WZ)*

MILESTONE STATUS

Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) milestones represent significant achievements in project execution. Enforceable Tri-Party Agreement milestones were established to provide high-level visibility to critical deliverables and specific status on the accomplishment of these key activities. The PMB Annual Update, implemented in September 2013, and subsequent approved BCRs define CHPRC planning with respect to Tri-Party Agreement milestones. A Tentative Agreement for Tri-Party Agreement Milestone series M-015, M-016, M-037 and M-085 was signed on October 26, 2015.

This agreement is in public review through January 15, 2016 (extended from December 11, 2015). The following table is a one year look ahead of RL-0030 Tri-Party Agreement enforceable milestones, non-enforceable target due dates and commitments.

Number	Title	Due Date	Actual Date	Forecast Date	Status/ Comment
Milestones in Dispute					
M-015-112	Submit Draft B, 200-IS-1 Operable Unit Pipeline System Waste Sites RFI/CMS/RI/FS Work Plan to Ecology	2/28/14		TBD	Dispute resolution extended to January 28, 2016, (Tri-Party Agreement Change Control Form M-15-13-02)
Milestones included in Tentative Agreement					
M-015-21A	Submit 200-BP-5 & 200-PO-1 OU FS Report and PP(s) to Ecology	6/30/15		8/29/16	Proposed due date is 6/30/2018
M-015-92A	Submit RFI/CMS & RI/FS Work Plan for 200-EA-1 OU to Ecology	6/30/15		6/29/21	Proposed due date is 9/30/2017
M-015-110B	Submit CMS & FS & PP/Proposed CA Decision for 200-DV-1 OU to Ecology	9/30/15		6/24/19	Proposed due date is 9/30/2023
M-015-91B	Submit FS Report and PP for 200-WA-1 to EPA	12/31/15		4/30/17	Proposed due date is 7/31/2021
M-015-38B	Submit Revised FS Report and PP for CW-1, CW-3, & OA-1 to EPA	10/30/15		6/10/19	Proposed due date is 7/31/2023
Milestones on schedule					
M-091-40L-048	Submit July to Sept. 4th Quarter FY2015 Burial Ground Sample Results.	12/15/15		12/15/15	On schedule
M-015-78	Complete two years of groundwater and aquifer tube sampling at the 100-BC expanded monitoring network in accordance with the revised 100-BC-1,2 and 5 RI/FS Work Plan/SAP	2/28/16		2/24/16	On schedule
M-091-40L-049	Submit Oct. to Dec. 1st Quarter FY2016 Burial Ground Sample Results.	3/15/16		3/15/16	On schedule
M-016-191	Complete acceptance test procedures and operational test procedures and initiate startup operations for the U Plan area P&T for uranium and tech-99, and Iodine-129 hydraulic containment	3/30/16		12/2/15	On schedule

Number	Title	Due Date	Actual Date	Forecast Date	Status/ Comment
	system				
M-024-58I	Initiate Discussions of Well Commitments	6/1/16		6/1/16	On schedule
M-091-40L-050	Submit Jan to March 2nd Quarter FY2016 Burial Ground Sample Results.	6/15/16		6/15/16	On schedule
M-024-67-T01	Conclude Discussions of Well Commitments	8/1/16		8/1/16	On schedule
M-091-40L-051	Submit Apr to Jun 3rd Quarter FY2016 Burial Ground Sample Results.	9/15/16		9/15/16	On schedule
M-015-79	Submit RI/FS Report/PP for 100-BC-1/2/5 OUs for GW & Soil	12/15/16		5/22/16	On schedule
M-091-40L-052	Submit July to September 4th Quarter FY2016 Burial Ground Sample Results	12/15/16		12/15/16	On schedule
M-016-110-T03	Contain the Strontium-90 GW plume at the 100-NR-2 OU	12/31/16		9/19/19	Unable to accomplish work due to TCP
M-016-110-T04	Implement Remedial Actions in all 100A RODs for GW OUs	12/31/16		8/24/16	On schedule
M-024-67	DOE Shall Complete Construction of all Wells Listed	12/31/16		8/1/16	On schedule

SELF-PERFORMED WORK

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

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.

Section E

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



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

November 2015
CHPRC-2015-11, 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, corrected posting issues). The Project also completed surveillance fieldwork for REDOX, CX-70/71/72 and 200E Tri Annual Surveillance.

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	2	N/A
Near-Misses	0	0	N/A

KEY ACCOMPLISHMENTS

- Operations/Maintenance:
 - o Completed REDOX Annual Surveillance fieldwork.
 - o Completed annual CX-70/71/72 Surveillance fieldwork.
 - o Completed 200E Tri Annual Surveillance.
 - o Replaced belt and sheave on B-Plant exhaust fan 221-B-EF-102.
 - o Completed Asbestos Containing Material (ACM) mastic removal on REDOX Inert Low Pressure Holder Tank.
 - o Complete annual 224-T Surveillance.
 - o Supported PFP mock-up of Grout Bucket System at U-Plant.
- Completed:
 - o 73 radiological facility surveillances.
 - o 37 PM activities.
- Nuclear Safety:
 - o Completed implementation of DSA for 224-T.
 - o Facilitated Hazard Analysis and Control Decision documents for 216-Z-9 through approval process.
- 207A South Retention Basin Closure:
 - o Completed sampling for 207A Clean Closure.
- Continued REDOX roof replacement 90 percent design activities.

- Continued progress on Canyon Stabilization Documents:
 - o Submitted four Closure Plans for the B-Plant Iso-Chem TSD Tank and the PUREX North TSD Tanks to RL for review.
 - o Submitted DSA updates to RL for review for incorporation into the CY2015 REDOX DSA Update.

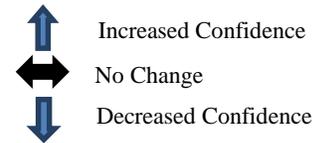
MAJOR ISSUES

None currently identified.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

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



Risk Title	Unmitigated Risk Impacts	Assessment		Comments						
		Month	Trend							
RL-0040/WBS-040										
Explanation of major changes to the project monthly stoplight chart:										
No major changes to the monthly stoplight chart in the month of November.										
Realized Risks (Risks that are currently impacting project cost/schedule)										
No realized risks for the month of November.										
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)										
No critical risks identified in the month of November.										
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)										
Lifecycle Risk Triggers (Risk could be realized at any point of the project)										
D4-064: Aging Building Systems/Components	Problems with aging building systems/components (e.g., roofing/structures, etc.) result in inoperability or requires unscheduled maintenance/ outages, resulting in cost impacts. Risk Handling Strategy: Accept Probability: Likely (75% to 90%) Worst Case Impacts: \$2M, 0 day			Risk Trigger Metric: During routine surveillance activities unforeseen events cause systems to be compromised. This is a lifecycle risk and will continue through the CHPRC (September 30, 2018). <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Mitigation action(s)</th> <th style="text-align: center;">FC Date</th> <th style="text-align: center;">%</th> </tr> </thead> <tbody> <tr> <td>None identified at this time.</td> <td style="text-align: center;">N/A</td> <td style="text-align: center;">N/A</td> </tr> </tbody> </table> Mitigation Assessment: No changes in the month of November. The mitigation strategies have been put in place (i.e., continuous surveillance activities for high risk areas), as a result, the risk strategy is to accept with no further mitigation actions or alternate course of actions identified at this time.	Mitigation action(s)	FC Date	%	None identified at this time.	N/A	N/A
Mitigation action(s)	FC Date	%								
None identified at this time.	N/A	N/A								
Unassigned Risks (Pending ownership of identified risks/opportunities)										
No unassigned risks identified in the month of November.										

PROJECT BASELINE PERFORMANCE

Current Month

(\$M)

WBS 040/ RL-0040 Nuclear Facility D&D	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)
Total	1.8	1.8	1.7	0.0	0.1%	0.1	6.1%

Numbers are rounded to the nearest \$0.1 million

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

The schedule variance is within reporting thresholds.

CM Cost Performance: (+\$0.1M/+6.1%)

The cost variance is within reporting thresholds.

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	405.0	404.9	373.2	(0.1)	-0.0%	31.7	7.8%	471.5	436.2	35.3

Numbers are rounded to the nearest \$0.1 million

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

The schedule variance is within reporting thresholds.

CTD Cost Performance: (+31.7M/+7.8%)

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

- ARRA-funded work scope included efficiencies with Program Management (\$2.6 million), Cold and Dark and Characterization/Waste Identification Form teams (\$4.0 million), lower than planned capital equipment costs (\$3.0 million), efficiencies with Arid Lands Ecology (ALE) (\$3.7 million) and North Slope Facilities (\$1.2 million), disposition of railcars D&D (\$2.1 million), and Industrial 7 Project (\$3.6 million). This is offset by increased material and equipment costs, unexpected asbestos levels, and schedule delays in other ARRA D4 Projects (-\$15.3 million). Efficiencies in Outer Area Waste Sites (\$6.7 million) are primarily due to Remove, Treat, and Dispose (RTD) O-Zone Waste Sites, and ERDF passback, which includes the operational efficiencies associated with use of the super dump truck. In addition, under runs in overhead allocation and Usage Based Services (\$7.4 million) contributed to the favorable CV.
- The remaining CTD favorable CV in base-funded work is due to efficiencies for waste site remediation and D4 activities as a result of utilization of existing site equipment and less resources (\$1.0 million), Surveillance and Maintenance (S&M) costs less than expected (\$4.3 million), U Plant completion of the sampling of Cell 30 with less resources than planned (\$1.1 million), Program

Management utilizing less resources (\$3.6 million), Emergency Response activities (\$0.6 million) and an underrun in overhead allocations (\$2.1 million).

Variance at Completion (+\$35.3M/+7.5%)

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

Contract Performance Report Formats are provided in Appendix A.

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

WBS 040/RL-0040 Nuclear Facility D&D	FY2016		
	Projected Funding	Spending Forecast	Spend Variance
RL-0040	24.6	23.0	1.6

Numbers are rounded to the nearest \$0.1 million.

Funds/Variance Analysis

FY2016 initial budget guidance received from RL reflects expected funding of \$509.3 million for the company. RL-0040 project funding is \$24.6 million for FY2016. The FYSF of \$23.0 million includes actions anticipated to achieve the funding targets.

Critical Path Schedule

Critical path analysis can be provided upon request.

Baseline Change Requests

BCR-040-16-002R0, *Deferral of Unfunded PBS RL-0040 Workslope*

MILESTONE STATUS

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

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

SELF-PERFORMED WORK

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

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.

Section F

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



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

November 2015
CHPRC-2015-11, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

The 100K Characterization Wells Project waste profile was completed and final packaging for shipment of waste has been initiated. The project completed remediation of 10 feet on seven waste sites and conducted in-process sampling on nine waste sites. In addition, CO #289 *Truth In Negotiations Act (TRINA) Review for RCCC planning* was submitted to RL and Extent of Condition reviews were finalized for ERDF and the 324 Facility.

EMS Objectives and Target Status

None currently identified.

TARGET ZERO PERFORMANCE

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

KEY ACCOMPLISHMENTS

- 100K Characterization Wells:
 - 116-KE-3 and UPR-100-K-1:
 - Completed waste profile.
 - Initiated final packaging for waste shipment.
- Area AB waste site remediation:
 - Completed remediation to 10' on seven waste sites.
 - Conducted in-process sampling on nine waste sites.
 - Began Verification Sampling Instruction (VSI).
 - Began remediation (Remaining Site Verification Packages).
- 165KE Asbestos Abatement
 - Field Work Supervisors were fully qualified.
 - Insulators were fully trained.
 - Repairs on the Mobtec trailer (Asbestos Abatement Trailer) is in process.
- Completed 23 Radiological Surveillances.
- RCCC Transition:
 - Finalized Extent of Condition Checklists, formed teams and completed reviews for ERDF and 324 Facility.
 - Submitted TINA Review CO#289, for RCCC Transition Planning to RL.

MAJOR ISSUES

None currently identified.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

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

-  Increased Confidence
-  No Change
-  Decreased Confidence

Risk Title	Unmitigated Risk Impacts	Assessment		Comments						
		Month	Trend							
RL-0041/WBS-041										
Explanation of major changes to the project monthly stoplight chart: No major changes to the monthly stoplight chart in the month of November.										
Realized Risks (Risks that are currently impacting project cost/schedule)										
No realized risks for the month of November.										
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)										
No critical risks identified in the month of November.										
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)										
Lifecycle Risk Triggers (Risk could be realized at any point of the project)										
KBC-002: Subcontract Change Orders/Claims	Subcontracts for D4, soil remediation, and other field support services require revision based on discovery of changed conditions or completion requirements resulting in cost impacts and schedule delays. Risk Handling Strategy: Accept Probability: Low (10% to 25%) Worst Case Impacts: \$1.5M, 66 days			Risk Trigger Metric: Field condition changes, including but not limited to, the amount of waste containers provided for soil remediation on a daily basis. <table border="1" style="width: 100%; margin-top: 10px;"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>None identified at this time.</td> <td>N/A</td> <td>N/A</td> </tr> </tbody> </table> Mitigation Assessment: No changes in the month of November. Increase communication/interface continues between the Project and ERDF to obtain delivery of containers needed to achieve planned production rates for waste site remediation needed containers. At this time, no alternative course of actions needed.	Mitigation action(s)	FC Date	%	None identified at this time.	N/A	N/A
Mitigation action(s)	FC Date	%								
None identified at this time.	N/A	N/A								
Unassigned Risks (Pending ownership of identified risks/opportunities)										
No unassigned risks identified in 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	1.0	1.1	1.1	0.2	15.9%	(0.0)	-0.5%

Numbers are rounded to the nearest \$0.1 million

CM Schedule Performance (+\$0.2M/+15.9%)

The cost variance is within reporting thresholds.

CM Cost Performance (-\$0.0M/-0.5%)

The cost variance is within reporting thresholds

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	318.6	319.7	291.6	1.1	0.3%	28.1	8.8%	398.9	367.3	31.6

Numbers are rounded to the nearest \$0.1 million

CTD Schedule Performance (+\$1.1M/+0.3%)

The schedule variance is within reporting thresholds.

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

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

Variance at Completion (+\$31.6M/+7.9%)

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

Contract Performance Report Formats are provided in Appendix A.

FUNDS vs. SPEND FORECAST (\$M)

WBS 041/RL-0041 Nuclear Facility D&D – River Corridor	FY2016		
	Projected Funding	Spending Forecast	Spend Variance
RL-0041	15.1	14.1	1.0

Numbers are rounded to the nearest \$0.1 million.

Funds/Variance Analysis:

FY2016 initial budget guidance received from RL reflects expected funding of \$509.3 million for the company. RL-0041 project funding is \$15.1 million for FY2016. The FYSF of \$14.1 million includes actions anticipated to achieve funding targets.

Critical Path Schedule

Critical Path Analysis can be provided upon request.

Baseline Change Requests

BCR-041-16-003R0, *CO #289, Transfer of RCCC Work Scope to PRC – Part 2*

BCR-041-16-004R0, *Revise Planning Units for Hazardous Waste Resources (WA) to Cubic Meters (WZ PBS RL-0041*

BCR-041-16-005R, *PBS RL-0041 Undistributed Budget Adjustments November 2015*

MILESTONE STATUS

None currently identified.

SELF-PERFORMED WORK

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

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.

Section G

Fast Flux Test Facility Closure (RL-0042)



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

November 2015
CHPRC-2015-11, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

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

EMS OBJECTIVES AND TARGET STATUS

None currently identified.

TARGET ZERO PERFORMANCE

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

KEY ACCOMPLISHMENTS

- Installed new fire door in 481 building.
- Replaced heater in 481 building diesel fire pump room.
- Completed implementation DSA for FFTF.
- Completed temporary repairs for tanks T-58 and T-87.
- 400 Area Water Systems:
 - o Completed all required water systems monthly and weekly inspections.
 - o Completed all required fire systems monthly and weekly inspections.
- Completed:
 - o 21 Preventative Maintenance activities.
 - o Four operational surveillances.
 - o Four radiological surveillances.

MAJOR ISSUES

None currently identified.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

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

- Increased Confidence
- No Change
- Decreased Confidence

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

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	2.3%	0.0	24.1%

Numbers are rounded to the nearest \$0.1M

CM Schedule Performance: (+\$0.0M/+2.3%)

The current period schedule variance is within reporting thresholds.

CM Cost Performance: (+\$0.0M/+24.1%)

The current period cost variance is within reporting thresholds.

Contract-to-Date

(\$M)

RL-0042 FFTF Closure	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)
Total	20.4	20.4	16.7	0.0	0.2%	3.7	18.2%	26.7	22.7	4.0

Numbers are rounded to the nearest \$0.1 million

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

The schedule variance is within reporting thresholds.

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

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

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

The Variance at Completion is within reporting thresholds.

Contract Performance Report Formats are provided in Appendix A.

FUNDS VS. SPEND FORECAST (\$M)

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

Numbers are rounded to the nearest \$0.1 million

Funds Analysis

FY2016 initial budget guidance received from RL reflects expected funding of \$509.3 million for the company. RL-0042 project funding is \$3.3 million for FY2016. The FYSF of \$1.7 million includes actions anticipated to achieve funding targets.

Critical Path Schedule

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

Baseline Change Requests

None currently identified.

MILESTONE STATUS

None currently identified.

SELF-PERFORMED WORK

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

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.

Appendix A

Contract Performance Reports

Format 1 - Work Breakdown Structure

Format 2 - Organizational Categories

Format 3 - Baseline

Format 4 - Staffing

Format 5 - Explanation and Problem Analysis

A wide-angle landscape photograph showing a large, calm river or reservoir in the foreground. The water reflects the clear blue sky. In the middle ground, there is a long, narrow island or peninsula with sparse vegetation. The background features rolling hills and a range of mountains under a clear sky. The foreground shows a grassy slope with some small shrubs.

November 2015
CHPRC-2015-11, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

CLASSIFICATION (When Filled In)

INTEGRATED PROGRAM MANAGEMENT REPORT FORMAT 1 - WORK BREAKDOWN STRUCTURE													DOLLARS IN			Dollars			PENDING UPDATE TO OMB No. 0704-0188								
1. CONTRACTOR				2. CONTRACT				3. PROGRAM				4. REPORT PERIOD															
a. NAME CH2M HILL Plateau Remediation Company				a. NAME Plateau Remediation Contract				a. NAME Plateau Remediation Contract				a. FROM (YYYYMMDD) 2015 / 10 / 26															
b. LOCATION (Address and ZIP Code) Richland, WA				b. NUMBER RL14788				b. PHASE				b. TO (YYYYMMDD) 2015 / 11 / 22															
c. TYPE CPAF				d. SHARE RATIO				c. EVMS ACCEPTANCE NO <input type="checkbox"/> X YES <input checked="" type="checkbox"/> (YYYYMMDD) 2009 / 09 / 18																			
5. CONTRACT DATA																											
a. QUANTITY 1	b. NEGOTIATED COST 5,529,296	c. ESTIMATED COST OF AUTHORIZED UNPRICED WORK 19,024	d. TARGET PROFIT/FEE 232,909	e. TARGET PRICE 5,762,205	f. ESTIMATED PRICE 5,596,758	g. CONTRACT CEILING 5,762,205	h. ESTIMATED CONTRACT CEILING 5,596,758	i. DATE OF OTB/OTS (YYYYMMDD)																			
6. ESTIMATED COST AT COMPLETION						7. AUTHORIZED CONTRACTOR REPRESENTATIVE																					
MANAGEMENT ESTIMATE AT COMPLETION (1)			CONTRACT BUDGET BASE (2)			VARIANCE (3)			a. NAME (Last, First, Middle Initial) Dickerson, Kala K			b. TITLE Prime Contract Manager			c. SIGNATURE			d. DATE SIGNED (YYYYMMDD) 10/25/2015									
a. BEST CASE 5,303,177																											
b. WORST CASE 5,425,567																											
c. MOST LIKELY 5,363,850			5,548,320			184,470																					
8. PERFORMANCE DATA																											
CAPN.PBS		CURRENT PERIOD					CUMULATIVE TO DATE					REPROGRAMMING ADJUSTMENTS			AT COMPLETION												
BUDGETED COST		ACTUAL		VARIANCE		BUDGETED COST		ACTUAL		VARIANCE		COST	SCHEDULE	BUDGET	BUDGETED	ESTIMATED	VARIANCE										
ITEM (1)	WORK SCHEDULED (2)	WORK PERFORMED (3)	COST WORK PERFORMED (4)	SCHEDULE (5)	COST (6)	WORK SCHEDULED (7)	WORK PERFORMED (8)	COST WORK PERFORMED (9)	SCHEDULE (10)	COST (11)	VARIANCE (12a)	VARIANCE (12b)			(14)	(15)	(16)										
RL-0011 Nuclear Mat Stab & Disp PFF	10,214	7,721	7,970	(2,492)	(249)	882,025	851,051	857,334	(30,974)	(6,283)	0	0	0	0	969,712	967,428	2,284										
RL-0012 SNF Stabilization & Disp	6,794	6,501	6,812	(293)	(310)	528,270	528,623	541,894	353	(13,271)	0	0	0	717,150	723,195	(6,044)											
RL-0013 Solid Waste Stab & Disp	10,224	9,552	7,304	(672)	2,248	998,019	1,000,598	941,114	2,579	59,484	0	0	0	1,334,309	1,268,670	65,638											
RL-0030 Soil & Water Rem-Grndwtr/Vadose	8,848	9,517	10,155	669	(637)	1,172,544	1,164,392	1,145,315	(8,152)	19,077	0	0	0	1,562,268	1,510,623	51,645											
RL-0040 Nuc Fac D&D - Remainder Hanfrd	1,767	1,770	1,662	2	108	404,983	404,894	373,161	(89)	31,733	0	0	0	469,520	434,210	35,310											
RL-0041 Nuc Fac D&D - RC Closure Proj	961	1,114	1,119	153	(5)	318,595	319,685	291,605	1,090	28,080	0	0	0	398,374	366,766	31,607											
RL-0042 Nuc Fac D&D - FFTF Proj	164	168	128	4	40	20,398	20,430	16,710	32	3,721	0	0	0	26,694	22,717	3,977											
b. COST OF MONEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
c. GENERAL AND ADMINISTRATIVE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
d. UNDISTRIBUTED BUDGET																9,567	9,567	0									
e. SUBTOTAL	38,973	36,344	35,149	(2,630)	1,195	4,324,834	4,289,673	4,167,133	(35,161)	122,540	0	0	0	5,487,593	5,303,177	184,417											
f. MANAGEMENT RESERVE																60,673											
g. TOTAL	38,973	36,344	35,149	(2,630)	1,195	4,324,834	4,289,673	4,167,133	(35,161)	122,540	0	0	0	5,548,266													
9. RECONCILIATION TO CONTRACT BUDGET BASELINE																											
a. VARIANCE ADJUSTMENT																											
b. TOTAL CONTRACT VARIANCE																											
													(35,161)			122,540			5,548,266			5,303,177			245,090		

CLASSIFICATION (When Filled In)

CLASSIFICATION (When Filled In)

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

DOLLARS IN Dollars

PENDING UPDATE TO
OMB No. 0704-0188

1. CONTRACTOR		2. CONTRACT		3. PROGRAM		4. REPORT PERIOD	
a. NAME CH2M HILL Plateau Remediation Company		a. NAME Plateau Remediation Contract		a. NAME Plateau Remediation Contract		a. FROM (YYYYMMDD) 2015 / 10 / 26	
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE		b. TO (YYYYMMDD) 2015 / 11 / 22	
c. TYPE CPAF		d. SHARE RATIO		c. EVMS ACCEPTANCE <input type="checkbox"/> NO <input checked="" type="checkbox"/> X YES (YYYYMMDD) 2009 / 09 / 18			

WBS.Resp Org Group WBS.Resp Org Code ITEM (1)	CURRENT PERIOD					CUMULATIVE TO DATE					REPROGRAMMING ADJUSTMENTS			AT COMPLETION		
	BUDGETED COST		ACTUAL	VARIANCE		BUDGETED COST		ACTUAL	VARIANCE		COST VARIANCE (12a)	SCHEDULE VARIANCE (12b)	BUDGET (13)	BUDGETED (14)	ESTIMATED (15)	VARIANCE (16)
	WORK SCHEDULED (2)	WORK PERFORMED (3)	COST WORK PERFORMED (4)	SCHEDULE (5)	COST (6)	WORK SCHEDULED (7)	WORK PERFORMED (8)	COST WORK PERFORMED (9)	SCHEDULE (10)	COST (11)						
34 - Env Program & Strategic PIng	955	577	482	(378)	95	57,831	57,684	53,616	550	4,068	0	0	0	83,205	78,970	4,235
35 - Business Services	0	0	0	0	0	472,524	472,524	448,488	0	24,036	0	0	0	472,524	448,488	24,036
36 - Prime Contract & Proj Integr	237	237	151	0	86	2,563	2,563	1,249	0	1,314	0	0	0	8,602	7,176	1,426
38 - Project Technical Services	0	0	0	0	0	0	0	0	0	(0)	0	0	0	0	0	(0)
3B - PFP Closure Project	10,161	7,668	7,950	2,578	6,941	795,338	764,363	778,102	(30,974)	(13,739)	0	0	0	882,453	887,631	(5,178)
3C - Waste & Fuels Management Project	10,191	9,519	7,271	2,480	4,077	890,044	892,623	833,325	2,579	59,298	0	0	0	1,225,434	1,159,987	65,447
3D - Soil & Groundwater Remediation	7,834	8,882	9,628	(559)	1,581	1,015,736	1,007,731	986,384	(8,005)	21,347	0	0	0	1,378,212	1,324,512	53,699
3G - K Basin Oper & Plateau Remediation Project	9,595	9,461	9,667	563	(1,739)	1,090,798	1,092,185	1,065,968	1,386	26,216	0	0	0	1,427,597	1,386,845	40,752
b. COST OF MONEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
c. GENERAL AND ADMINISTRATIVE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
d. UNDISTRIBUTED BUDGET														9,567	9,567	0
e. SUBTOTAL (Performance Measurement Baseline)	38,973	36,344	35,149	(2,630)	1,195	4,324,834	4,289,673	4,167,133	(35,161)	122,540	0	0	0	5,487,593	5,303,177	184,417
f. MANAGEMENT RESERVE														60,673		
g. TOTAL	38,973	36,344	35,149	(2,630)	1,195	4,324,834	4,289,673	4,167,133	(35,161)	122,540	0	0	0	5,548,266		

CLASSIFICATION (When Filled In)

CONTRACT PERFORMANCE REPORT FORMAT 3 - BASELINE														DOLLARS IN THOUSANDS			Form Approved OMB No. 0704-0188	
1. CONTRACTOR CH2M HILL Plateau Remediation Company b. LOCATION: Richland, WA				2. CONTRACT a. NAME: Plateau Remediation Contract b. NUMBER: RL14788 c. TYPE: CPAF d. SHARE RATIO:				3. PROGRAM a. NAME: Plateau Remediation Contract b. PHASE c. EVMS ACCEPTANCE NO YES X 9/18/2009				4. REPORT PERIOD a. FROM: 2015/10/26 b. TO: 2015/11/22						
5. CONTRACT DATA																		
a. ORIGINAL NEGOTIATED COST 4,312,366				b. NEGOTIATED CONTRACT CHANGE \$1,216,930		c. CURRENT NEGOTIATED COST (A + B) \$5,529,296		d. ESTIMATED COST AUTH UNPRICED WORK \$19,024		e. CONTRACT BUDGET BASE (C + D) \$5,548,320			f. TOTAL ALLOCATED BUDGET \$5,548,266		g. DIFFERENCE (E - F) \$54			
h. CONTRACT START DATE 6/19/2008				i. DEFINITIZATION DATE 6/19/2008			j. PLANNED COMPL DATE 9/30/2018			k. CONT COMPLETION DATE 9/30/2018			l. EST COMPLETION DATE 9/30/2018					
6. PERFORMANCE DATA																		
ITEM (1)			BCWS CUM TO DATE (2)	BCWS FOR REPORT PERIOD (3)	BUDGETED COST FOR WORK SCHEDULED (NON - CUMULATIVE)										UNDISTRIB BUDGET (16)	TOTAL BUDGET (17)		
					SIX MONTH FORECAST						FY09-13 (10)	FY14 (11)	FY15 (12)	FY16 (13)			FY17 (14)	FY18 (15)
						+1 Dec-15 (4)	+2 Jan-16 (5)	+3 Feb-16 (6)	+4 Mar-16 (7)	+5 Apr-16 (8)					+6 May-16 (9)			
a. PM BASELINE (BEGIN OF PERIOD)			4,285,858	39,685	34,637	41,859	34,350	44,868	34,827	31,880	3,391,477	391,653	471,323	442,311	414,581	365,850	7,879	5,485,073
b. BASELINE CHANGES AUTH DURING REPORT PERIOD																		
BCR-011-16-001R0 - CO #297, Update Reg. Docs. Required for 242-Z/236-Z Slab Removal														134				134
BCR-012-16-002R0 - Correct Planning Errors														(342)				(342)
BCR-013-16-005R0 - CO #278, Procure DOE Type 7A Large Shipping Container (Super 7A)														69				69
BCR-013-16-006R0 - Addition of Interim Milestones for Alternatives Analysis TRUM Disposition														0				0
BCR-013-16-007R0 - Revise T Plant Planning														(2,734)	2,734			0
BCR-013-16-008R0 - CO #276, Additional WESF Occupancy														13				13
BCR-030-16-007R0 - CO #298, 200-IS-1 Waste Site Change Package and Work Plan Update														64				64
BCR-030-16-008R0 - CO #295, 200-IS1 OU Geological Interface Segmentation														58				58
BCR-030-16-009R0 - Well Realignment Scope Re-plan for 100-KR-4 , 100-HR-3, and 200-ZP-1														3,813	(1,871)	(1,942)		(0)
BCR-030-16-010R0 - Definitization of CO#271, Tri-Party Agreement Administrative Upgrade														17				17
BCR-030-16-011R0 - CO #294, 100-KR-4 RI-FS Re-Write														37				37
BCR-030-16-012R0 - CO#293, 100-BC-5 OU RI/FS Decisional Draft Rewrite														678				678
BCR-040-16-002R0 - Deferral of PBS RL-040 Unfunded Work scope														(728)	787	(59)		(0)
BCR-041-16-003R0 - CO #289, Transfer of RCCC Work Scope to PRC - Part 2														105				105
BCR-041-16-004R0 - Revise Planning Units for Hazardous Waste Resources (WA) to Cubic Meters (WZ), PBS RL-041														0				0
BCR-PRC-16-014R0 - Revise Planning Units from Packages to Cubic Meters														0				0
BCR-041-16-005R0 - PBS RL-041 Undistributed Budget Adjustments November 2015																	(105)	(105)
BCR-PRC-16-015R0 - Undistributed Budget Adjustments November 2015																	1,793	1,793
c. PM BASELINE (END OF PERIOD)			4,324,834	38,973	34,283	41,696	34,916	45,761	35,433	32,428	3,391,477	391,653	471,323	443,495	416,230	363,849	9,566	5,487,593
7. MANAGEMENT RESERVE																		60,673
8. TOTAL																		5,548,266

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

CLASSIFICATION (When Filled In)															
CONTRACT PERFORMANCE REPORT FORMAT 4 - STAFFING											FORM APPROVED OMB No. 0704-0188				
1. CONTRACTOR			2. CONTRACT				3. PROGRAM			4. REPORT PERIOD					
1. CONTRACTOR			2. CONTRACT				3. PROGRAM			4. REPORT PERIOD					
a. NAME			a. NAME				a. NAME			a. FROM (YYYYMMDD)					
CH2M HILL Plateau Remediation Company			Plateau Remediation Contract				Plateau Remediation Contract			2015 / 10 / 26					
b. LOCATION (Address and ZIP Code)			b. NUMBER				b. PHASE			b. TO (YYYYMMDD)					
Richland, WA			RL14788							2015 / 11 / 22					
			c. TYPE		d. SHARE RATIO		c. EVMS ACCEPTANCE								
			CPAF				YES 2009 / 09 / 18								
5. PERFORMANCE DATA															
Organizational Breakdown Structure (OBS) (1)	ACTUAL CURRENT PERIOD (2)	ACTUAL END OF CURRENT PERIOD (Cumulative) (3)	FORECAST (Non-Cumulative)									AT COMPLETION (15)			
			SIX MONTH FORECAST BY MONTH (Enter names of months)										REMAIN FY2016 (10)	FY2017 (11)	FY2018 (12)
			+1 DEC 2015 (4)	+2 JAN 2016 (5)	+3 FEB 2016 (6)	+4 MAR 2016 (7)	+5 APR 2016 (8)	+6 MAY 2016 (9)							
300 - Office of the President	14	528	20	6	5	5	5	5	5	21	63	63	722		
303 - Internal Audit	4	371	5	5	5	5	5	5	5	20	60	60	541		
304 - General Counsel	4	352	4	4	4	4	4	4	4	20	60	60	517		
31 - Communications	9	833	9	9	9	9	9	9	9	36	108	108	1,138		
32 - Safety Health Security & Quality	55	6,052	61	62	62	62	62	62	62	245	774	775	8,215		
34 - Env Program & Strategic Plng	46	3,926	41	47	44	43	44	42	42	165	605	600	5,555		
35 - Business Services	62	6,491	61	61	64	63	63	63	63	252	759	761	8,637		
36 - Prime Contract & Proj Integr	52	3,842	62	62	62	62	62	62	62	248	652	643	5,758		
38 - Project Technical Services	29	4,953	35	35	35	35	35	35	35	141	433	427	6,166		
3B - PFP Closure Project	392	46,784	426	406	393	338	284	323	323	996	614	-	50,564		
3C - W&FMP	319	44,483	364	322	298	293	302	300	300	1,188	3,684	3,597	54,831		
3D - Soil & Groundwater Remediation	329	30,956	296	282	294	304	300	301	301	1,168	3,663	4,101	41,664		
3G - KBO&PR Project	303	42,668	314	327	326	327	337	304	304	1,256	3,776	3,638	53,274		
Grand Totals	1,617	192,240	1,697	1,628	1,602	1,551	1,512	1,516	1,516	5,754	15,250	14,832	237,583		

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

CLASSIFICATION (When Filled In)									
CONTRACT PERFORMANCE REPORT FORMAT 5 - EXPLANATIONS AND PROBLEM ANALYSES							FORM APPROVED OMB No. 0704-0188		
1. CONTRACTOR		2. CONTRACT			3. PROGRAM		4. REPORT PERIOD		
a. NAME CH2M HILL Plateau Remediation Company		a. NAME Plateau Remediation Contract			a. NAME Plateau Remediation Contract		a. FROM (YYYY/MM/DD) 2015/10/26		
b. LOCATION (Address and ZIP Code) Richland, WA 99354		b. NUMBER DE-AC06-08RL14788		b. PHASE Base		b. TO (YYYY/MM/DD) 2015/11/22			
		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:	38,973	36,344	35,149	(2,630)	-6.7%	1,195	3.3%	0.93	1.03
Cumulative:	4,324,834	4,289,673	4,167,133	(35,161)	-0.8%	122,540	2.9%	0.99	1.03
	BAC	EAC	VAC in \$	VAC in %	TCPI				
At Complete:	5,487,593	5,303,177	184,417	3.4%	1.05				
Explanation of Variance/Description of Problem:									
Current Period Schedule Variance: The current month unfavorable schedule variance is primarily due to PFP lack of internal resources, reassigned to complete higher priority work (i.e. PRF D&D, Insitu Glovebox removal), resulting in fewer resources available to perform as planned.									
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: No significant impact overall. It is not anticipated that the delay in the assignment of the team to support the drain line scope of work will impact the ready for demolition date for 234-5Z of July, 2016.									
Current Period Cost: N/A									
Cumulative Schedule: N/A									
Cumulative Cost: N/A									
Corrective Action:									
Current Period Schedule: If schedule efficiencies are not realized through characterization efforts, additional resources will be required to complete the work scope. This will increase the ETC and could possibly delay the ready for demolition milestone.									
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):									
CHPRC continues to track completion of contract scope within budget and is currently projecting a Variance at Completion of \$184.4 million with \$60.7 million of Management Reserve for a total positive variance of \$245.1 million. For November, the project was 6.7 percent behind schedule and 3.3 percent under planned cost. CTD, the project was 0.8 percent behind schedule and 2.9 percent under planned cost. No other specific Corrective Actions are planned at this time. Revisions were made to Undistributed Budget (UB) via BCR-PRC-16-015R0 - <i>Undistributed Budget Adjustments November 2015</i> (details of changes listed below).									
Contractually Required Cost, Schedule, EAC variance, Management Reserve Use									
Variance in Performance BAC and EAC: The variance at complete (VAC) between the BAC and EAC this month is a +\$184.4 million, +3.4% and is within reporting thresholds.									
Format 1 and 3 Contract Data:					Contract Price Adjustments				
CPs - In Process									
					Total Authorized Unpriced Work		\$19,024		
Approved Adjustments to Contract Price (not reflected in B.4-1 Table)									
					Total Negotiated Cost Changes		-		
					Grand Total Adjustments		\$19,024		

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

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

MR Utilization

BCR Number	Title	Fiscal Year	MR
BCR-012-16-002R0	<i>Correct Planning Errors</i>	2015 - 2018	\$342K

Overall, there was an increase of \$342K to Management Reserve during November.

Fee Activity

BCR Number	Title	Fiscal Year	Fee
BCR-030-16-010R0	<i>Definitization of CO#271, Tri-Party Agreement Administrative Upgrade</i>	2015 - 2018	\$1.2K
BCRA-PRC-16-001R0	<i>Fee Allocation to PBSs</i>	2015 - 2018	\$0K

Overall, there was an increase of \$1.2K to Fee during November.

UB Activity

BCR Number	Title	Fiscal Year	UB
BCR-041-16-005R0	<i>PBS RL-041 Undistributed Budget Adjustments November 2015</i>	2015 - 2018	-\$105K
BCR-PRC-16-015R0	<i>Undistributed Budget Adjustments November 2015</i>	2015 - 2018	\$1,793K

The Undistributed Budget increased by \$1,688K for an overall increase to the Performance Measurement Baseline of \$2,520K 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: 12/17/2015	Approved by:	Date:
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Appendix B

Project Services and Support (WBS 000)



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

M. A. Wright
Vice President for
Project Technical
Services

November 2015
CHPRC-2015-11, 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 (draft)

Objective #	Objective	Target	Due Date	Status
16-EMS-ADMIN-OB1-T1	Reduce energy intensity.	Increase facility occupancy rates to greater than 82 percent by compressing occupancy and vacating underutilized facilities. Vacated/unoccupied facilities declared unusable and designated inactive placed in Care Taker System.	9/30/16	0%
16-EMS-ADMIN-OB2-T1	Maximize the acquisition and use of environmentally preferable products in the conduct of operations.	Establish/utilize green catalogs to maximum extent for products beyond office supply purchases on the web site.	10/9/16*	0%
16-EMS-ADMIN-OB3-T1	Energy and natural resource conservation.	Establish electronic signature system for contracts using Adobe Acrobat.	9/30/16	10%
16-EMS-PTS-OB1-T1	Reduce the potential generation and release of toxic, hazardous, and non-regulated chemical materials to the environment, evaluate for compliance with universal waste and other recycling requirements, and identify opportunities for waste reduction.	Monitor and evaluate spill prevention program and existing techniques to reduce and/or eliminate spills to the environment by surveillances, on-going training.	9/30/16	18%
16-EMS-PTS-OB2-T1	Increase chemical management oversight of subcontractors and PTS operations.	Increase chemical management oversight of subcontracts, evaluate chemical procurement methods, identify expired chemicals, track, and properly dispose of expired chemicals. Perform quarterly assessment on chemical inventory locations.	9/30/16	8%

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

TARGET ZERO PERFORMANCE

	Current Month	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	0	N/A
Total Recordable Injuries	0	1	N/A
First Aid Cases	0	8	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 reported injuries during the month of November.
 - o Occupational Safety and Industrial Hygiene (OS&IH) accomplishments:
 - Continued support of site-wide standards committees and site-wide steering committees. DOE-0346, *Hanford Site Fall Protection Program*, is pending implementation of Revision 1A. DOE-0344, *Hanford Site Excavation, Trenching and Shoring Procedure, in being routed for approval signatures; implementation pending.* DOE-0352, *Hanford Site Respiratory Protection Program* is going through the revision process at this time.
 - Continued implementation of the Chronic Beryllium Disease Prevention Program (CBDPP) Revision 2A. Beryllium assessments have been completed on 989 CHPRC facilities. Beryllium characterizations have been completed on 666 CHPRC facilities.
 - Revisions to CBDPP Revision 3 has been completed and the document has been routed for signature.
 - Continued to provide support to PFP for respiratory protection issues and resolution of the compressed breathing air issue. A request for variance has been drafted for submittal to RL following the 10 CFR 851 variance process for using a harness that was not NIOSH tested with the original Mine Safety Appliances (MSA) breathing system.
 - Continued to work with Sample Management in resolving issues with the handling and shipping of Industrial Hygiene (IH) samples.
 - Continued support for the efforts to establish the Respiratory Protection Electronic tracking system at KBO&PR.
 - Continued support to W&FMP and KBO&PR for Oversight of Confined Space work activities.

- Provided additional confined space training/briefings for KBO&PR, and Project Technical Services (PTS), and provided support to all projects to approve additional competent/qualified personnel for DOE-0360 Revision 1, *Confined Space*.
- Provided support to S&GRP for ergonomic evaluation of workstations for shipping and receiving activities.
- Provided support to PFP, W&FMP, and KBO&PRS for asbestos characterization activities.
- Provided support to W&FMP for lead removal of surfacing material at CWC.
- Provided support to PFP for beryllium characterization activities.
- Continued support to PTS for the development of an approved Fall Protection Work Permit (FPWP) for in-basin work.
- Provided support to W&FMP in the development of FPWP for relamping activities.
- Provided support to the PFP Cause Evaluation for the identified emerging trend of injuries and radiological issues.
- Provided support to the National Beryllium Conference.
- Completed the VPP Self-Assessment. The report is being finalized.
- o Radiological Control accomplishments:
 - Working Corrective Actions to support CHPRC Radioactive Material Area (RMA) management improvement plan submitted to RL. Two RMAs were eliminated in November.
 - Supported 10 CFR 835 Subpart K, “*Design and Control*” triennial assessment activities.
 - Initiated Radiologically Controlled Vehicles Work Site Assessment.
 - Continued implementation of Survey Simple following completion of conversion to web-based application.
 - Supported RCCC Transition planning.
 - Conducted 3rd Quarter CHPRC ALARA Meeting.
 - Supported PFP in completing Root Cause Evaluation for Management Concern regarding PFP Upset Conditions during Radiological Work Activities.
 - Implemented Technical Equivalence Determination for respiratory protection requirement for non-intrusive High-contamination Area (HCA) work activities at WESF.
 - Completed development of Radioactive Sealed Source tracking database.
- o Nuclear Operations Support & Compliance accomplishments:
 - Letter, CHPRC-1505159, dated November 10, 2015, *Documentation of Triennial Review of CHPRC-01447, Hazards Survey for the Solid Waste Operations Complex (SWOC), Revision 0A and CHPRC-01549, Hazards Survey for the 100K Deactivation and Decommissioning (D&D) Project, Revision 1*.
 - Letter, CHPRC-1504927, dated November 12, 2015, *Request for Approval for the Plutonium Finishing Plant Emergency Planning Hazards Assessment HNF-SD-PRP-HA-002, Revision 13*.
 - Safety Basis documents and letters transmitted to RL include:
 - Letter, CHPRC-1502669.1, dated November 23, 2015, *Transmittal of the Annual Update to the Solid Waste Operations Complex Master Documented Safety Analysis, HNF-14741, Revision 11, The Technical Safety Requirements for the Solid Waste Operations Complex, HNF-15280, Revision 11, and the Unreviewed Safety Question Evaluation Summary*.
 - Letter, CHPRC-1503297.1, dated November 30, 2015, *Transmittal of the Annual Update to HNF-13830, Revision 5, Documented Safety Analysis for the Reduction-Oxidation Facility, and the Unreviewed Safety Question Determination Summary*.
 - Letters received from RL include:
 - Letter, 16-NSD-0002_RL, dated November 3, 2015, *Approval of Request to Revise Delay in Implementation of the PFP DSA, Revision 12*.

- Letter, 16-NSD-0006_RL, dated November 25, 2015, *Transmittal of the 2014 Annual Update to HNF-SD-WM-SAR-062, 105-K West (KW) Basin Final Safety Analysis Report, Revision 22; HNF-SD-SNF-TSR-001, 105-KW Basin Technical Safety Requirements, Revision 18; and the Unreviewed Safety Question Evaluation Summary.*
- Letter, 16-NSD-0007_RL, dated November 25, 2015, *Extension of the Evaluation of Safety of the Situation/Justification for Continued Operation (ESS/JSO) for the CSB Multi-Canister Overpack (MCO) Shield Plug Port Seals.*
- Letter, 16-NSD-0012_RL, dated November 25, 2015, *Transmittal of the 2015 Annual Update to the WESF DSA, HNF-8758, Revision 11, Technical Safety Requirements, HNF-8759, Revision 11, and the Unreviewed Safety Question Determination Summary.*
- Criticality Safety
 - Letter, CHPRC-1504639, dated November 5, 2015, *Transmittal of PRC-NS-00004, Revision 3, Criticality Safety Program Description Document.*
 - CSER 14-002, Revision 1, *Underground Settling Tank 241-Z-361*, released
 - CSER 15-003, Revision 0, *Surveillance and Maintenance Efforts for Contamination Remediation*, released.
 - CSER 15-005, Revision 0, *Cleanup of the 236-Z Canyon*, released.
 - ACF-15-002, *Use of Radiacwash in Place of RadPro*, released.
- Transportation Safety
 - Letter, CHPRC-1505364, dated November 24, 2015, *CHPRC Requests Approval to Transfer Nuclear Material to Perma-Fix Northwest, Incorporated.*
 - Completed SHS&Q-2015-MA-16439, *Transportation Engineering Analysis and Documentation Practices.*
 - Letter, 16-NSD-0010_RL, dated November 25, 2015, *Request for Approval of the Package Specific Document for Steel Drums (PSSD SD), CHPRC-01039, Revision 3.*
 - Completed revision to CE-SPA-PFP-2012-001, Revision 3, *PFP Debris*, received RL NSD approval December 1, 2015.
- o Contractor Assurance Regulatory Reporting (CARR) accomplishments:
 - 150 Condition Reports (CRs) were screened:
 - No Significant issues identified.
 - Three Adverse issues identified.
 - 73 Track until Fixed (TUF) issues identified.
 - 17 Trend Only (TO) items identified.
 - 49 Opportunity for Improvement (OFI) items identified.
 - Eight Screen Out.
 - 139 CRs administratively closed.
 - 326 CR actions administratively closed.
 - Provided full-time support to PFP in Issues management, including cause evaluation and Occurrence Reporting.
 - Transmitted two Occurrence Reporting and Processing System (ORPS) reports for PFP:
 - Completed Root Cause Evaluation for PFP in response to occurrence report EM-RL—CHPRC-PFP-2015-0011, *Management Concern Related to Unfavorable Trend in Radiological Contamination Control.*
 - Implemented Condition Reporting and Resolution System (CRRS) Version 3.01. This version included web server upgrades and bug fixes. Additionally, a replication database was brought online which will provide additional reporting access and trending capabilities.
 - Coordinated recurring monthly DNFSB, STP and PFP status conference calls.

- Initiated coordination of a conference call with the DNFSB to discuss whether the final design for the WESF stabilization and ventilation project is consistent with requirements in DOE O 420.1B, *Facility Safety*.
- Initiated coordination of a conference call with DNFSB to discuss the current safety posture of the 202-S (REDOX) and 222-S facilities for a potential seismically-induced collapse of the REDOX facility roof and subsequent radiological release.
- o Performance Oversight, Assessment, and Quality Assurance accomplishments:
 - Continued Analysis of the FY2015 Safety Culture Survey data results.
 - Commenced development of the FY2016 Performance Objectives, Measures, Commitments and presented to RL.
 - Initiated planning and in-field activities for the 10 CFR 835, Subpart K, Design and Control, surveillance activity scheduled for November through December.
 - Provided specific mentoring and feedback to assessors and responsible managers that conducted Management Assessments.
 - Supported the PFP DSA Revision 12 Implementation Verification Review.
 - Developed a draft assessment performance indicator for ESRB review and approval.
 - Continued work on the Management Assessment for FY2015 ISMS Effectiveness Declaration SHS&Q-2016-MA-16476.
 - Continued work on the revision of the Integrated Safety Management System Description (ISMSD).
 - Coordinated and supported attendance of eleven CHPRC personnel for the RL Safety Conscious Work Environment training.
 - Completed training packets for maintenance of Lead Auditor certifications for two employees.
 - Facilitated Project Assessment Coordinator (PAC) meeting addressing FY2017 IEP Schedule Planning, assessment program health, CR generation, and PAC roles/responsibilities.
 - Developed Assessment Workshop story board which proposes an approach for providing coaching/mentoring of assessors and managers to support improvement in performance of assessments.
 - Continued support of K-Basin Engineering in the development of a technical basis for what actions to be taken with historical Cold Vacuum Drying Facility (CVDF) data files.
 - Supported S&GRP in evaluation of the calibration methods used for Geophysical Logging equipment.
 - Continued support to the RCCC Transition team by performance of Extent of Condition reviews at ERDF and the 324 Building.
 - Continued support to Chief Information Officers (CIO) Office & Lockheed Martin Service, Inc. (LMSI) in the review and determination of records as being Office of Civilian Radioactive Waste Management (OCRWM).
 - The Quality Systems organization completed nine surveillances covering the areas of configuration management, hold point application in work packages, material storage, and OCRWM corrective actions.
- o Fire Protection accomplishments:
 - Staffing levels have been achieved, one highly qualified FPE accepted a position with a start date in December. Three Oklahoma State University graduates have accepted positions with a start date in January. The filling of these positions will meet the current staffing need for Fire Protection assigned activities.
 - The two adverse CRs regarding Fire Protection Contract Compliance are nearly complete. The remaining actions for both are the effectiveness reviews.
 - Procedure updates are ongoing to improve the quality and ensure compliance with requirements.

- Preparations are underway to develop the Fire Protection Program Triennial Assessment that is due in February 2016.
- TSR Surveillances:
 - SWOC
 - o 2X-15-06505/W CWC 3 Month Combustible Surveillance – TSR
 - PFP
 - o ZAP-000-029, Checklist 2, Monthly 1 (TSR)
 - o ZAP-000-029, Checklist 3, Bi-Weekly/Monthly 3 (TSR)
 - o ZAP-000-029, Checklist 4, Weekly Fire Loading 4 (TSR)
 - o Fire Sprinkler Deactivation Areas 1 (Some rooms are TSR)
 - o FS Supply Valves 1 (TSR)
 - o Risers 5, 8, 9 Inspection/Test 1 (TSR)
 - o Filter Room Smoke Detectors (TSR)
- 23 Facility Fire Protection Assessments were completed in November.
- The assessments for B-Plant may have to be scheduled in 2016 due to access limitations.
- Fire Hazard Analysis (FHA):
 - The 105KW Annex Preliminary FHA is in final review after comments have been incorporated.
 - The T Plant FHA is being updated based upon the initial round of comments.
- Status of SHS&Q Focus Areas:
 - o **Issue:** Beryllium (Be) program assessment findings from DOE-HQ, Office of Safety, Health and Security Independent Oversight Inspection report.
 - o **Status:** Continued implementation of Revision 2A across CHPRC. Comment resolution is complete for Revision 3 and is being routed for signature.
 - o **Action:** Beryllium (Be) facility assessments and characterization continues as scheduled. Beryllium facility assessments have been completed on 989 CHPRC facilities.
 - o **Issue:** Accident & Injury Reduction.
 - o **Status:** Continue investigating recordable, DART, and first aid injuries to determine cause, prevention, reduction, to prevent recurrence.
 - o **Action:** Continued to interface with project personnel, supporting EZAC and project safety meetings for continued focus on injury prevention. Recordable injury trend across CHPRC has improved, but continued focus is necessary. Projects have identified and are implementing additional actions, which are resulting in reducing injuries and first aids.
 - o **Issue:** PFP Value Engineering (VE) Initiatives Path Forward.
 - o **Status:** Engaged PFP project personnel with SHS&Q central group SMEs.
 - o **Action:** Supporting PFP initiatives, supplied breathing air system issues; radiological & safety trends, outside limited area implementation, and DSA Revision 12 implementation and J plan waste path forward.
 - o **Issue:** Fire Protection program weaknesses.
 - o **Status:** Program weaknesses are being identified and Corrective Actions are underway to improve program. Additional personnel resources have been hired to support projects.
 - o **Action:** Working with MSA to work off CHPRC back log items on the MSA IT&M log and to improve MSA HFD support to CHPRC projects. Working with CHPRC projects to schedule and perform back log of facility fire protection assessments.

Environmental Program and Strategic Planning (EP&SP)

Environmental Protection

- **Compliance Status**

- o Washington Department of Health (WDOH) determined that the notice of construction application (NOCA) for WESF ventilation upgrades was complete. WDOH agreed to authorize initial ventilation upgrade activities to proceed, prior to the final license decision, allowing the upgrades to proceed on schedule.
- o Confirmation sampling for the 207-A RCRA closure was completed in November. Preliminary results indicate clean closure was achieved.

Environmental Compliance & Quality Assurance (ECQA)

- **Assessment Program**

- o An assessment on the Management of used oil was completed and resulted in one finding and one opportunity for improvement. The finding identified that one of two containers of used oil at WESF was not labeled as required by 40 CFR Part 279.22.
- o ECQA completed a review on compliance with a RL moratorium on Lead. The reason for the assessment was a follow up to a question raised from the Clean Sweep Assessment. No issues or opportunities for improvement were identified.
- o A verification of Major Risk labeling was completed. This assessment was in response to the Clean Sweep Assessment. An Opportunity for Improvement resulted recommending an update to procedure SW-100-143, *Management of Solid Waste at CWC*.

Business Services

- **Acquisition Planning:**

- o Developed an acquisition strategy and the Statement of Work for the STP to provide scaffolding services at the MASF facility. This fixed price construction work will provide a temporary structure to permit testing of the sand filter equipment at MASF starting in December 2015.
- o Developed a SOW for administering the CHPRC estimating system including working with the necessary SME to ensure work scope identified the required contractor actions to protect controlled-use information.
- o Met with DOE-EM prime contractors and representatives to develop methods for achieving FY2016 strategic sourcing goals. Received recognition by DOE-EM for CHPRC exceeding the FY2015 goal by over \$220K or 22.7 percent above the set target objective.
- o Participated in the cost-benefit analysis for the RCCC Transition activities as it relates to Facility Management Services.

- **Facilities & Property Management (F&PM):**

- o Continued the 2015 CHPRC property inventory with the CHPRC property representatives. F&PM had completed locating 98 percent of 3,407 items through November 2015.
- o FY2015 KPMG property audit results were forwarded from RL. Six findings and five observations were noted. Corrective Action Plan formally requested from RL.
- o Worked with PTS to execute the roof replacement for MO743, a landlord facility. Roof replacement project completed in November 2015.
- o Continued with the re-aligning of asset responsibilities and assignments as a result of the split in the DWF&RS organization to KBO&PR and W&FMP. Re-alignment of assets and assignments complete for DWF&RS. 90 percent complete for separation of S&M to KBO&PR. New organizational codes established for personnel and assignments.

- **Finance:**

- o Continued to support KPMG requests for data related to the ongoing FY2012-FY2014 incurred cost audits.
- o Completed Management Responses to KPMG Accounting System Review.

- o November month end completed with no suspensions.
- o Completed and submitted Institutional Cost Report to RL Finance.
- **Human Resources:**
 - o Completed deep-dive review of HR strategy for the WCH transition activities.
 - o The Career Ascent program completed the second of four workshops focusing on the development of the next generation of successors for Hanford leadership.
- **Labor Relations:**
 - o CHPRC had arbitration on PRC-014-076 in regards to shift differential pay on November 18, 2015. Arbitrator's award anticipated in February 2016.
 - o Arbitration is scheduled for December 15-16, 2015, to address HAMTC's General Council grievance in regards to D&D activities at PFP.
 - o The union withdrew two grievances PRC-015-025, PRC-015-039, and requested one grievance move to arbitration (PRC-15-037).
- **Procurement:**
 - o Awarded/amended 67 contracts with a total value of \$4.21 million. Additionally, awarded 128 new material Purchase Orders valued at \$414,871 to support ongoing project objectives.
 - o At the end of the first 86 months of the CHPRC project, procurement volume has been significant; \$2.29 billion in contract activity has been recorded with approximately 52.16 percent, or \$1.196 billion, in awards to small businesses. This includes 7,052 contract releases, 19,818 Purchase Orders, and 235,923 P-Card transactions.
 - o Contract 36883, Release 22 was awarded to Ojeda Business Services on November 12, 2015. This is a firm fixed price contract for the "ERDF Leachate Transfer Line System" SOW. The award value is \$602,372.54.
 - o Contract 44438, Release 38 was awarded to DGR Grant Construction, Inc. on November 16, 2015. This is a firm fixed price contract for "Construction of Three Well Pads and Two Roads Supporting 200-UP-1 FY2016 Drilling Campaign" SOW. This award is valued at \$33,000.
 - o Contract 56189, Release 4 was awarded to Holt Services, Inc. on November 16, 2015. This is a firm fixed price contract for "The Installation of Three Boreholes in the 300-FF-5 Operable Unit, FY2016" SOW. This award is valued at \$37,125.00.

Prime Contract and Project Integration (PC&PI)

- **Contract Compliance and Change Management (CC&CM):**
 - o In November, CC&CM received and processed six contract modifications (numbers 453-455, 458-459, 462) from RL.
 - o The Correspondence Review Team received and determined the distribution for 56 incoming letters/documents. The Prime Contract Compliance Manager reviewed 36 outgoing correspondence packages.
 - o Submitted the following FY2015 Performance Measure Completion Packages:
 - PM-13-2, *Maximize plume containment and remediation utilization.*
 - PM-40-1, *Soil and Facility Remediation/Disposition: Maintain compliant, efficient, minimum safe surveillance and maintenance services for the Central Plateau.*
 - PM-41-1, *100 K Area: Maintain efficient compliant operations and management activities as required to support river corridor remediation.*
 - PM-41-2, *Complete characterization of UPR-100-K-1 and 116-KE-3 waste sites.*
 - o Submitted two Notice of Change letters. One for impacts to the completion of the 200-WA-1 Operable Unit Remedial Investigation/Feasibility Study (RI/FS) work plan, CHPRC-1505198, and another for the Impacts to the 100-N Operable Unit RI/FS and proposed plan, CHPRC-1505332.

- Continued RCCC Transition Planning:
 - o Accelerated delivery of the CHPRC RCCC Transition Plan to RL from April 1 to mid-January 15.
 - o Finalized Extent of Condition Checklists, formed teams, and completed Extent of Condition Reviews for ERDF, 324 Facility and 618-10.
 - o Completed ERDF section of the Transition Plan, including Transition Item Checklists.
 - o Developed two baseline change requests to incorporate scope for the full NTE value authorized by CO#289.
 - o Submitted CO#289, *Truth and Negotiation Act Review for RCCC Planning to RL*.
 - o Held an all WCH/CHPRC Transition Point of Contact Meeting, with RL in attendance to facilitate closer communication.
 - o Issued first joint Transition Bulletin to all CHPRC and WCH employees.
 - o Established a joint share drive with WCH for posting information.
 - o Continued to obtain deep dive briefings on programmatic area comparisons between CHPRC and WCH and for key decision areas.
 - o Work continued on development of make versus buy analyses.
 - o Completed a tour of the 324 Mockup Facility.

Change Proposal (CP) /REA Summary

CPs submitted on or ahead of due date	CPs submitted after the due date	REAs submitted	Supplemental Information submitted/ Tina Sweep	CPs Definitized on or ahead of 180-day metric	CPs Definitized after 180-day metric	Other Proposals/ REAs Definitized
2	0	0	3	1	0	0

- o Estimating & Program Support (ESS) provided the following support to Projects and Programs.
 - o PFP:
 - Prepared and delivered an estimate in support of demolition preparation activities covering the grout fill of drain pipe trenches in 234-5Z, 236-Z and 242-Z buildings, on November 19, 2015. This estimate will be used to compare to pricing received in response to request for proposals.
 - o KBO&PR:
 - Participated in the External Independent Review (EIR) / Independent Cost Estimate (ICE) reviews held November 16 – 20, 2015, to evaluate the STP Capital Asset Project (CAP). Follow-on actions in support of the review findings are being formulated between the CHPRC and RL STP POC.
 - Provided an estimate to the Project that included BOE documents and back-up information related to T-Plant modifications for sludge storage. Participated in a CHPRC internal review of the estimate and schedule, and subsequently supported what-if scenarios with versions of the cost estimate for several T-Plant modification options.
 - Conducted a TINA review for CO#289, *Initiation of Transition Planning for the RCCC Work scope* on November 9, 2015 and submitted a Revision 1 of the proposal on November 24, 2015.
 - o W&FMP:
 - Submitted the Revision 2 proposal for CO#269, *WESF K3 Ventilation and Stabilization Project Implementation*, on November 18, 2015. The revision reflected the results of risk analysis and the incorporation of risk mitigating activities.
 - Conducted a TINA review for CO#263, *ERDF Transfer Pipeline Construction* on November 3, 2015. Results will be incorporated into a Revision 1 proposal estimate and delivered to RL in December 2015. Revised quotations are being obtained from a vendor; other changes were

- necessitated because of the extended length of time that has elapsed between submittal of the original proposal and obtaining project go-ahead decisions with the regulators.
- o S&GRP:
 - Supported definitization of CO#292, *200-SW-2 RI/FS Aerial Rad Survey*, on November 10, 2015.
 - Submitted change proposals for the following COs on the dates indicated:
 - CO#298, *200-IS-1 Waste Site Change Package & Work Plan Update*, on November 4, 2015.
 - CO#299, *200 West Pump and Treat System Membrane Bioreactor Cassette Additions*, on November 4, 2015.
 - **Earned Value Management System (EVMS) Compliance and Reporting:**
 - o Progress continued to be made on EVM Assessment Corrective Actions. As of month end, 54 of 68 actions had been completed (79 percent complete).
 - o An independent review on the adequacy of October 2015 VARs in meeting RL and CHPRC requirements was completed by a Project Time & Cost SME and his comments provided to the responsible CAMs and Project Control Directors/Managers. This effort is part of the continuing Corrective Actions to address RL's findings associated with deficient VARs and associate variance Corrective Actions as documented in the final report for DOE A-15-ESQ-PRC-001. CHPRC's actions in response to this finding are on schedule for completion in January.
 - o During November, EVMS C&R facilitated and supported the processing of 21 BCRs. This high volume of BCRs in a month, which is projected to continue for the foreseeable future, is driven by changes in RL priorities. COs including BCRs to incorporate scope associated with CO Not to Exceed amounts and CO definitization, implementation of two new PFP related and the STP CAP, and CHPRC self-initiated BCRs related to initiatives to improve the quality of baseline planning and reporting.
 - o Representatives of PC&PI supported the Energy Facility Contractors Group (EFCOG) Project Controls subgroup meeting in Bethesda, MD. Representatives from the DOE-HQ Office of Project Oversight and Management Assessment were in attendance and discussed the recently published DOE EVM Interpretative Handbook. Information gained at this meeting will help CHPRC understand what modifications of its' EVMS may be required to insure it continues to comply with DOE expectations as defined by the DOE EVM Interpretative Handbook.
 - o Continued to support RCCC Transition planning with emphases on RCCC EVMS data.
 - o Efforts are underway to create a compliance matrix to align with the recently developed EVMS Interpretation Handbook. Once completed, the Project Control System Description (PCSD) will be modified to align with the Handbook.
 - o Efforts are underway to develop computer based training for accrual training, VAR training, and BCR training. Completion is targeted for early in CY2016.
 - o As a part of the continuing initiative to improve the execution of Earned Value Management and Project Management within CHPRC, EVMS Compliance and Reporting sponsored and/or presented the following classes:
 - Three day course, Capital Planning for DOE O 413.3B Capital Asset Projects. This is the same course taught to DOE personnel as a Level 1 elective course for certification in the DOE Project Management Career Development Program.
 - Four day course, Boot Camp Training for Project Management Professional (PMP®) certification in Project Management. This course prepares the student to successfully take the Project Management Institute PMP Exam.
 - Course #600176, CHPRC Variance Analysis Reporting Training

- **Information and Interface Management:**

- **Interface Management**

- o Interfaces (Technical, Administrative and Regulatory):
 - Continued discussions with WRPS regarding Vent & Balance annual forecasting and improving the communication process.
 - Completed and transmitted the Sample Archive renewal with ATL.
 - Started second half of FY2015 Annual Document Reviews of CHPRC Administrative Interface Agreements.
 - Infrastructure Services and Alignment Plan (ISAP): Kickoff Meeting scheduled for December 22, 2015.
 - o Inter-Contractor Issue Resolution:
 - Attended weekly field interface and resource allocation meetings.
 - Participated in regular Interface Management leadership meetings with Mission Support Alliance (MSA) and WRPS.
 - Continued working with Hanford Fire Department, CHPRC Projects (SWOC/PFP), and CHPRC Work Control to improve communications, and streamline planning/corrective maintenance items.
 - Continued working with MSA to develop an Administrative Interface Agreement (AIA) to ensure the Unreviewed Safety Question (USQ) process is completed for procedures and work/activities performed by MSA in CHPRC controlled nuclear facilities. CHPRC Nuclear Safety is reviewing the AIA.
 - o Controlling and Service Agreements:
 - Continued efforts in supporting annual review of the J.3 Service Delivery Documents.
 - Continued working with Engineering Services personnel to develop or revise an interface document with MSA Electrical Utilities.
 - Published CHPRC-00236, Revision 3, AIA for Welding and Material Engineering Services and Welding Services CHPRC/MSA/WRPS.
 - Working with WRPS to revise TOC-AIA-PRC-0031, Operations Interface for Activities within or adjacent to Nuclear Facilities; adding additional roles and responsibilities and aligning with current Nuclear Safety processes.
 - o Internal Operations:
 - Continue to participate in planning for the RCCC Transition.
 - Completed CHPRC MOA with WAI for laboratory services.

- **Information Management:**

- o Provided Information Technology (IT), event logistics, and facilitation support to EZAC, PZAC, Ascent Training, and various onsite and offsite meetings.
 - o Provided information clearance and release support for KBO&PR, S&GRP, W&FMP, SHS&Q and PTS documents.
 - o Supported numerous IT support requests for cellular phone issues/questions, meeting set-up, network connections, and printing.
 - o Continued planning and communication for upcoming PFP records retrieval. Completed walk down of 234-5Z facility for records identification, retrieval, and processing in preparation for facility closure.
 - o Processed 13,459 Electronic Records into the Integrated Document Management System (IDMS).

- **Performance Analysis and Risk Management Integration (PARMI):**

- o Technical and Administrative support was provided to the STP during preparation for the EIR&ICE. Both review teams performed the on-site portion of their reviews the week of November 16, 2015. Actions identified during the Exit Briefing are being tracked and worked to closure.

- o PRC-MD-PM-53058, *CHPRC Productivity Processes*, comment resolution was completed in November. The Management Directive (MD) has been entered into the USQ Review process for review and approval. Publication is expected in December.
- o The Monthly meeting between the Contractor Assurance and Regulatory Reporting, PARMi, and Projects was held on November 17, 2015. The purposes of the monthly meetings are to review productivity data, to determine if trends exist across the CHPRC, and to provide recommended actions related to Corrective Actions. “Dashboard Metrics” are being tracked on the “test” portion of the PTL web page; it is expected that the Metrics will be transitioned to the “live” portion of the PTL web page in December. Field Presentations and Training continued to be provided.
- o Support was provided to the ESRB team that evaluated the Causal Analysis for the *PFP Upset Conditions during Radiological Work Activities*.
- o Comments for the Draft DOE Standard Review Plan for *Application of Engineering and Technical Requirements for 30, 60, and 90% Design of DOE Nuclear Facilities*, have been compiled. Comments are in the process of being reviewed, sorted, vetted, and segregated prior to submittal to the EM Chief of Nuclear Safety. Transmittal is scheduled to occur in early December.
- o Progress continues to be made towards completion of the Productivity Corrective Actions. Completed 20 of 24 actions (83 percent).
- o PARMi Risk Management staff provided Risk Analysis for the STP CAP, the WESF Stabilization and Ventilation Project, and numerous BCRs.
- o Risk Management, Requirements Management, and Business Process Evaluation support was provided to the RCCC Transition Team.

Project Technical Services

- **Engineering Services:**

- o Supported RL in development of data to support an As Low as Reasonably Achievable Air Cleaning Technology (ALARACT) demonstration in response to a request by the Washington State Department of Health. This demonstration supports revision of the Hanford Site Air Permit and addresses HEPA filter age in filters not credited by facility safety bases.
- o Provided presentation to CHPRC QA regarding HEPA filters and the aspects of procurement, receipt, storage, installation, and periodic maintenance that depend on QA support.
- o Continued to provide structural, mechanical and welding support to ECRTS, W-130, REDOX Roof Replacement for review of design documents and fabrication submittals.
- o Prepared responses to DNFSB questions related to seismic qualification of REDOX.
- o Provided structural evaluation of light poles that failed at WRAP during recent high winds.
- o Identified proposed changes to electrical generator initial startup and re-start-up checklists in response to comments from the S&GRP Well Maintenance and Drilling group.

- **Procedures and Training:**

- o Conducted leadership Impact Workshop #25.
- o Completed 45 procedure actions.
- o Conducted two Crucial Conversations classes scheduled in December.
- o Supported readiness activities for PFP demolition.

- **Operations Program:**

- o Conducted Joint Evaluation Team meeting discussing readiness level of review for ECRTS and T Plant storage.
- o Supported VPP assessment.
- o Completed Program EOC review of Work Control, Maintenance, Conduct of Operations, and Hazardous Energy Control as part of RCCC scope transition.

- o Continued tracking and supporting fire system maintenance improvement efforts.
- o Supported multiple contractor efforts improving JCS.
- o Supported development of calibration requirements in support of the geo-physical logging of ground hole radiological activity.
- o Participated in the EFCOG Fall meeting for Work Management. Reviewing DNFSB Reports on Emergency Preparedness and Maintenance to understand issues involved.
- o Prepared Quarterly Startup Notification Report (QSNR).
- **Project Delivery:**
 - o S&GRP
 - Fluidized Bed Reactor and Carbon Separator Tank Platform modifications.
 - Completed scaffold erection and the removal of electrical interferences in advance of steel install. Shop fabrication of platform steel has commenced with first steel due to be delivered December 28.
 - o KBO-PR Projects
 - REDOX roof:
 - Received 90 percent design from Contractor and completed the CHPRC review. Final design scheduled to be delivered December 17.
 - 189 Clearwell Tank:
 - Completed piping modifications and Construction Completion Document (CCD).
 - 100K area Restroom and Shower:
 - Contract in place for trailer supply, RFP issued for solicitation of construction install bids.
 - o W&FMP Projects
 - ERDF Transfer Line:
 - Awarded contract to OBV. Construction kickoff held week of November 16, 2016. Field mobilization scheduled for early January 2016.
 - CWC Roof Repairs:
 - Completed repairs on all 11 roofs. Contractor demobilized from site.
 - WESF K-3 Filter Upgrade:
 - Intermech mobilized to site. Steam line removal commenced and field office trailer install progressing. Exhauster relocate to contractor's facility completed week of November 30.
 - MO-743 Roof repairs:
 - Roof continues to leak, rework plan to be developed by Contractor for approval by CHPRC.
 - Trench 94:
 - Progressing with award of contract to OBV. Field mobilization is scheduled for March 2016.
 - o Project Office
 - PM/CM's attended second Project Management Professional Boot Camp.
 - One PM completed Career Ascent Workshop.
 - Continued to work with schedule development and incorporation into the respective field execution schedules.
 - FWS continued with the pilot demonstration of the HLAN remote system.
- **KW Annex Construction**
 - o Continued Construction Acceptance Testing.
 - o Completed HVAC test and balance.

- o Continued contractor performance testing on the fire alarm system: All inputs/outputs were successfully tested. Horns/strobes were successfully tested.
- o Worked punch list items:
 - 12 construction punch list items remain – scheduled for completion December 10, 2015.
 - 31 FE&C non-construction, contract related punch list items remain.
- **In Basin (Re-Lidding)**
 - o Continued preparation of door modification/structural steel modification Work Package.
 - o Completed mobilization of crew and tools into the Basin for re-lidding.
 - o Completed installation of temporary guardrail system around all six engineered containers.
 - o Started fabrication and preparation of permanent speed rail system to be installed at a later date, TBD.
 - o Completed isolation of level sensors and cameras.
 - o Completed camera removal on 3 of the 6 ECs.
 - o Continued off-site fabrication of new structural steel and door modification kit to be installed at a late date.
- **T Plant Modification Construction**
 - o Evaluated alternative approaches to determine whether there are potential cost or schedule efficiencies.
 - o Buyer-furnished construction material (HEPA vacuums/lift bags) have been delivered and are going through the receiving process. IP-2 container procurement was placed on hold pending further the work scope decision on cell clean-out.

Communications

- o Communications coordinated multiple tours of CHPRC projects at the Hanford Site during the month of November. Visitors toured CHPRC projects and facilities such as PFP, 200-West P&T, 100K Area Sludge Treatment Annex Facility, MASF, CWC and WESF. Visitors included:
 - Japanese Nuclear Damage Compensation and Decommissioning Facilitation Corp
 - United Kingdom Office of Nuclear Regulation and Nuclear Decommissioning Authority and UK Magnox
 - STP Peer Review Team
 - Organizations Interested in Office of Hanford Acquisitions Cleanup and Infrastructure
 - Staff representing U.S. Senators Patty Murray and Maria Cantwell
- o Communications worked with RL and the regulatory agencies to support the public involvement process for the TPA milestone series, which includes M-015, M-016, M-037 and M-085. These TPA milestones will affect the schedule for cleanup on Hanford's Central Plateau. Communications provided supporting information to RL for use in the HAB meetings on November 4 and 5, which covered PFP and the TPA Milestone series change packages.

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	0.3	0.3	0.8	0.0	14.14%	(0.5)	-175.9%
Internal Audit	0.1	0.1	0.0	0.0	0.0%	0.0	50.8%
General Counsel	0.1	0.1	0.1	0.0	0.0%	0.0	41.4%
Communications	0.1	0.1	0.1	0.0	0.0%	(0.0)	-25.0%
Safety, Health, Security and Quality	1.2	1.2	1.0	0.0	0.0%	0.2	12.8%
Environmental Program and Strategic Planning	0.4	0.4	0.4	0.0	0.0%	(0.0)	-5.4%
Business Services	1.6	1.6	1.7	0.0	0.0%	(0.1)	-4.2%
Prime Contract and Project Integration	1.6	1.6	1.6	0.0	0.0%	0.0	0.8%
Project Technical Services	0.6	0.6	0.7	(0.0)	-0.1%	(0.2)	-30.8%
Indirect WBS 000 Total	6.0	6.0	6.5	0.0	0.6%	(0.5)	-8.8%

Numbers are rounded to the nearest \$0.1M.

Indirect WBS 000

CM Schedule Performance: (+\$0.0M/+0.6%)

The variance is within reporting thresholds.

CM Cost Performance: (-0.5M/-8.8%)

The unfavorable variance is primarily attributed to labor adjustments made to accommodate projected cost and labor rate changes from the average planned rate versus the average forecasted rate.

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	0.4	0.4	0.9	0.0	9.6%	(0.5)	-129.4%	2.4
Internal Audit	0.2	0.2	0.1	0.0	0.0%	0.1	30.2%	1.1
General Counsel	0.2	0.2	0.1	0.0	0.0%	0.1	45.8%	1.5
Communications	0.2	0.2	0.2	0.0	0.0%	(0.0)	-20.0%	1.0
Safety, Health, Security and Quality	2.1	2.1	1.8	0.0	0.0%	0.4	17.8%	14.8
Environmental Program and Strategic Planning	0.7	0.7	0.8	0.0	0.0%	(0.0)	-3.4%	5.0
Business Services	3.0	3.0	3.1	0.0	0.0%	(0.1)	-2.9%	20.7
Prime Contract and Project Integration	3.0	3.0	3.0	0.0	0.0%	(0.0)	-0.1%	20.7
Project Technical Services	1.0	1.0	1.1	0.0	0.1%	(0.1)	-10.0%	6.9
Indirect WBS 000 Total	10.8	10.8	11.0	0.0	0.3%	(0.2)	-2.2%	74.1

Numbers are rounded to the nearest \$0.1M.

Indirect WBS 000

FYTD Schedule Performance: (+\$0.0M/+0.3%)

The variance is within reporting thresholds.

FYTD Cost Performance: (-0.2M/-2.2%)

The variance is within reporting thresholds.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change



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



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



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



Increased Confidence



No Change



Decreased Confidence

Risk Title	Unmitigated Risk Impacts	Assessment		Comments																										
		Month	Trend																											
Executive Level Risks																														
Explanation of major changes to the project monthly spotlight chart: No major changes to the risk profile for the month of November .																														
Realized Risks (Risks that are currently impacting project cost/schedule)																														
PRC-022: Higher Than Anticipated Attrition	Higher than planned attrition or staffing reduction is experienced resulting in project schedule delays, and increased training costs. Risk Handling Strategy: Avoid Probability: Likely (75% to 90%) Worst Case Impacts: \$5M, 40 days			Risk Event: CHPRC continues to experience higher than anticipated attrition for <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th style="text-align: center;">Risk recovery action(s)</th> <th style="text-align: center;">Risk Date</th> <th style="text-align: center;">FC Date</th> <th style="text-align: center;">%</th> </tr> </thead> <tbody> <tr> <td>Implement salary increase fund</td> <td rowspan="7" style="text-align: center; vertical-align: middle;">FY2015</td> <td style="text-align: center;">Complete</td> <td style="text-align: center;">100</td> </tr> <tr> <td>Proposed PFP incentive program</td> <td style="text-align: center;">Complete</td> <td style="text-align: center;">100</td> </tr> <tr> <td>Draft retention and recruiting plan investment for FY2015.</td> <td style="text-align: center;">Complete</td> <td style="text-align: center;">100</td> </tr> <tr> <td>Develop/implement CHPRC People Legacy Program.</td> <td style="text-align: center;">On-Going</td> <td style="text-align: center;">N/A</td> </tr> <tr> <td>Target recruiting for key project resources</td> <td style="text-align: center;">9/30/16</td> <td style="text-align: center;">15</td> </tr> <tr> <td>Continue PFP resource transition plan for FY2016</td> <td style="text-align: center;">9/30/16</td> <td style="text-align: center;">15</td> </tr> <tr> <td>River Corridor Closure recruitment for FY2016</td> <td style="text-align: center;">9/30/16</td> <td style="text-align: center;">15</td> </tr> </tbody> </table> Recovery Action Assessment: No changes in the month of November . CHPRC continues to increase recruitment, and analysis of comparable markets for salary competitiveness. Potential problems exist pending funding profiles for other site contractors. No alternative course of actions needed at this time.	Risk recovery action(s)	Risk Date	FC Date	%	Implement salary increase fund	FY2015	Complete	100	Proposed PFP incentive program	Complete	100	Draft retention and recruiting plan investment for FY2015.	Complete	100	Develop/implement CHPRC People Legacy Program.	On-Going	N/A	Target recruiting for key project resources	9/30/16	15	Continue PFP resource transition plan for FY2016	9/30/16	15	River Corridor Closure recruitment for FY2016	9/30/16	15
Risk recovery action(s)	Risk Date	FC Date	%																											
Implement salary increase fund	FY2015	Complete	100																											
Proposed PFP incentive program		Complete	100																											
Draft retention and recruiting plan investment for FY2015.		Complete	100																											
Develop/implement CHPRC People Legacy Program.		On-Going	N/A																											
Target recruiting for key project resources		9/30/16	15																											
Continue PFP resource transition plan for FY2016		9/30/16	15																											
River Corridor Closure recruitment for FY2016		9/30/16	15																											
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)																														
No critical risks identified in the month of November .																														
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)																														
No high threat value risks identified in the month of November .																														
Unassigned Risks (Pending ownership of identified risks/opportunities)																														
CHPRC continues to conduct internal reviews to ensure risks are still valid. In cases where risk has passed/or is no longer valid CHPRC will no longer report, and close the risk in the database. In the event risk are still valid ownership will need to be established to further identify and address potential impacts to project cost and schedule. There are cases when risks are identified but are outside the control and management of the contractor. However, CHPRC risk management process identifies all risks that could impact overall project success.																														

MILESTONE STATUS

None currently identified.

SELF-PERFORMED WORK

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

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None identified.

Appendix C

Capital Asset Projects



November 2015
CHPRC-2015-11, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

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



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

**November 2015
CHPRC-2015-11, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1**

PROJECT SUMMARY

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

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

Summary:

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

KEY ACCOMPLISHMENTS

234-5Z

- RMA Line:
 - o Initiated size reduction on middle level of Glovebox HA-9A in 234-5Z.

MAJOR ISSUES

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

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

Status – The DSA/TSR Revision 12 was approved by RL on May 4, 2015. Continued with the Implementation Verification Review (IVR) for HNF-15500 “PFP Deactivation and Decommissioning Documented Safety Analysis” Revision 12 and HNF-15502 “PFP Deactivation and Decommissioning Technical Safety Requirements” Revision 12.

Received the requested approval letter from RL (16-NSD-0002_RL) authorizing the implementation date for DSA Revision 12 to be moved forward to no later than 30 days after removal of Glovebox HA-9A Plexiglas panels, as opposed to 30 days after glovebox size reduction.

Refresher briefing will be conducted the end of December with full implementation scheduled for mid-January.

1. CONTRACTOR		2. CONTRACT		3. PROGRAM		4. REPORT PERIOD		FORM APPROVED						
a. NAME CH2M HILL Plateau Remediation Company		a. NAME Plateau Remediation Contract		a. NAME RL 0011 C1 - PPF O&D (ARBA/State)		Thousands of \$		OMB No. 0704-0188						
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER BL14788		b. PHASE		FROM (YYYYMMDD)		2015 / 10 / 26						
c. TYPE CPAF		d. SHARE RATIO NO <input type="checkbox"/> X <input checked="" type="checkbox"/>		c. EVMS ACCEPTANCE NO <input type="checkbox"/> X <input checked="" type="checkbox"/>		2009 / 09 / 18		2015 / 11 / 22						
5. PERFORMANCE DATA		CURRENT PERIOD		CUMULATIVE TO DATE		REPROGRAMMING		AT COMPLETION						
ITEM	(1)	BUDGETED COST		VARIANCE		ACTUAL		VARIANCE		BUDGETED	ESTIMATED	VARIANCE		
		WORK SCHEDULED (2)	WORK PERFORMED (3)	SCHEDULE (5)	COST (6)	COST WORK PERFORMED (9)	SCHEDULE (10)	COST (11)	COST VARIANCE (12A)				SCHEDULE VARIANCE (12B)	BUDGET (13)
WBS Keep Org Group														
35 - Business Services	0	0	0	0	0	0	0	52,580	0	7,847	0	60,427	52,580	7,847
38 - PPF Closure Project	118	172	611	3	488	253,837	277,537	-1,283	-24,972	0	0	254,735	279,136	-24,411
b. COST OF MONEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0
c. GENERAL AND ADMINISTRATIVE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
d. UNDISTRIBUTED BUDGET	0	0	0	0	0	0	0	0	0	0	0	0	0	0
e. SUBTOTAL (Performance Measurement Baseline)	118	172	611	3	488	314,264	312,981	-1,283	-17,126	0	0	315,152	331,717	-16,565
f. MANAGEMENT RESERVE	118	172	611	3	488	314,264	312,981	-1,283	-17,126	0	0	317,545	331,717	-16,565



CONTRACT PERFORMANCE REPORT FORMAT 3 - BASELINE		DOLLARS IN THOUSANDS		Form Approved OMB No. 0704-0188												
1. CONTRACTOR CH2M HILL Plateau Remediation Company d. LOCATION Richland, VA		3. PROGRAM a. NAME Plateau Remediation Contract b. PHASE NO c. EVMS ACCEPTANCE YES X		4. REPORT PERIOD a. FROM: 2015/10/26 b. TO: 2016/11/22												
2. CONTRACT a. NAME Plateau Remediation Contract b. NUMBER RL14788 c. TYPE CPAF d. SHARE RATIO		e. CONTRACT BUDGET BASE (C+D) \$317,546		1. TOTAL ALLOCATED BUDGET \$317,546												
3. CONTRACT DATA a. ORIGINAL NEGOTIATED COST 317,546 b. CONTRACT START DATE 6/19/2008		d. ESTIMATED COST AUTH UNPRICED WORK \$0		g. DIFFERENCE (E - F) (\$0)												
i. DEFINITIZATION DATE 6/19/2008		j. PLANNED COMPLETION DATE 9/30/2018		h. LEAST COMPLETION DATE 9/30/2018												
5. PERFORMANCE DATA																
ITEM	BOWS CUM TO DATE	BOWS FOR REPORT PERIOD	SIX MONTH FORECAST						FY18	UNDISTRIB BUDGET (16)	TOTAL BUDGET (17)					
			+1 Dec-15 (4)	+2 Jan-16 (5)	+3 Feb-16 (6)	+4 Mar-16 (7)	+5 Apr-16 (8)	+6 May-16 (9)				FY09-13 FY14 (10) (11)	FY15 (12)	FY16 (13)	FY17 (14)	
a. PM BASELINE (BEGIN OF PERIOD)	314,146	119	163	222	165	165	183	0	302,288	4,109	7,749	850	116	0	0	315,132
b. BASELINE CHANGES AUTH DURING REPORT PERIOD None during the reporting period																
c. PM BASELINE (END OF PERIOD)	314,264	119	163	222	165	165	183	0	302,288	4,109	7,749	850	116	0	0	315,132
7. MANAGEMENT RESERVE																2,354
B. TOTAL																317,546



CLASSIFICATION (When Filled In)										
CONTRACT PERFORMANCE REPORT FORMAT 5 - Explanations and Problem Analysis										FORM APPROVED OMB No. 0704-0188
1. CONTRACTOR		2. CONTRACT		3. PROGRAM			4. REPORT PERIOD			
a. NAME CH2M HILL Plateau Remediation Company		a. NAME Plateau Remediation Contract		a. NAME RL_0011_C1 - PFP D&D (ARRA/Base)			a. FROM 2015 / 10 / 26			
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE			b. TO 2015 / 11 / 22			
c. TYPE CPAF		d. SHARE RATIO		c. EVMS ACCEPTANCE No X Yes			2009 / 09 / 18			
5. Evaluation										
Direct Projects										
	Budget	Earned	Actuals	SV in \$	SV in %	CV in \$	CV in %	SPI	CPI	
Current:	118	122	611	3	3%	-489	-401%	1.03		0.20
Cumulative:	314,264	312,981	330,107	-1,283	0%	-17,126	-5%	1.00		0.95
	BAC	EAC	VAC in \$	VAC in %	TCPI to BAC	TCPI to EAC				
At Complete:	315,152	331,717	-16,565	-5%	-	1.35				
<p>Explanation of Variance/Description of Problem: The current month cost variance is due to working behind schedule with the in-situ size reduction of the HA-9A Glovebox and two separate stop works issued at PFP that limited the In-situ Size Reduction team to make a total of only seven entries for the month of November. On October 27, due to a compressor failure in the 242-Z building at PFP, a stop work was issued on all PreMaire Breathing Air work, which directly impacted the In-situ Size Reduction team. The team worked with management to resolve the stop work and returned to work on November 8. On November 18, a temperature regulator alarmed on the compressors and again, a stop work was issued on the breathing air compressors associated with the PreMaire Breathing systems. This restricted the team from making any more entries for the remainder of the month. This issue has since been resolved and the team is still on track to complete the in-situ size reduction efforts by the end of December, 2015.</p> <p>Impact: Schedule Impact: The RL-011.C1 project baseline date is November 16, 2016, with the current schedule reflecting a completion date of November 14, 2016. The current RL-11 PBS performance baseline schedule indicates that the PFP project will achieve slab-on-grade by January 19, 2017. The current schedule shows that the work scope to meet the completion of the TPA milestone will not complete until January 3, 2017. The project expects to continue progress at the rate that has been experienced in the past several months; however, even with the implementation of new initiatives (i.e., breathing air, high mass glovebox initiative, foaming, grouting, etc.) the PFP Project is at risk of not meeting the TPA milestone M-083-00A of 9/30/16.</p> <p>Cost Impact: The EAC and negative 9.9% VAC reflects consideration of plant performance and successful implementation of the corrective actions noted below.</p> <p>Corrective Action: Implementation of DSA Revision 12 will allow for removal of confinement walls and therefore provide egress access for gloveboxes marked for removal prior to demolition of 234-5Z. Action: Ruben Trevino 12/31/15</p> <p>Cost: Cost variance is not considered recoverable. Past performance and successful implementation of the above actions are reflected in the EAC. Historical negative cost variance of 10.3% and CPI of .91 and ~\$24.0M cost variance to date will result in a VAC of ~\$23.4M. This is due to incorporation of the use of the PreMaire breathing air suits that will be used to mitigate exposure to the worker and ease in in-situ size reduction of gloveboxes and transferred scope for removal of the gloveboxes from the facility to meet the end point criteria of the Project Execution Plan. As efficiencies continue to be recognized, the EAC will be adjusted. It is not expected that the entire cost variance will be recovered as there is only a small amount of scope remaining to complete the KPP.</p> <p>Monthly Summary (to include technical causes of VARS, Impacts) and Corrective Action(s):</p>										
Prepared by:			Date:			Approved by:			Date:	

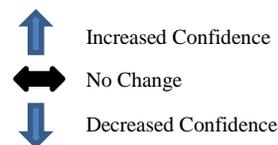
CORRECTIVE ACTION LOG

Control Account	Task Title	FY Year/ Month	CAM	Status	Forecast Completion	Actual Completion	Assigned To
011.05.01.01	DSA Revision 12 Implementation	2016/01	Trevino, Ruben A	Open	1/16/16		Trevino, Ruben A

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

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



Risk Title Risk Owner	Unmitigated Risk Impacts	Assessment		Comments									
		Month	Trend										
RL-0011/WBS-011.05.01.01.06 (CAP.1)													
Explanation of major changes to the project monthly spotlight chart: No major changes to the monthly spotlight chart in the month of November.													
Realized Risks (Risks that are currently impacting project cost/schedule)													
No realized risks identified for RL-0011/WBS-011.05.01.01.06 (CAP.1) in the month of November.													
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)													
FY2016 Risk Triggers (Risk could be realized in FY2016)													
PFP-DEMO-21: Glove Box/Equipment Removal/Demolition Material Handling Event	A material handling event (e.g., dropped piece of process equipment) occurs during the PFP demolition resulting in cost impacts and schedule delays. Risk Handling Strategy: Accept Probability: Low (10% to 25%) Worst Case Impacts: \$150K, 44 days	●	↔	Risk Trigger: During pre-demolition/demolition activities in FY2016. <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #e0e0e0;"> <th style="width: 70%;">Mitigation action(s)</th> <th style="width: 15%;">FC Date</th> <th style="width: 15%;">%</th> </tr> </thead> <tbody> <tr> <td>None identified at this time.</td> <td style="text-align: center;">N/A</td> <td style="text-align: center;">N/A</td> </tr> </tbody> </table> Mitigation Assessment: The mitigation strategies have been put in place, as a result, the risk strategy is to accept with no further mitigation actions identified at this time. PFP will continue to adhere to the CHPRC ISMS program/ hoisting and rigging program to include detailed analyses of potential hazards and identification of preventive measures to implement prior to starting the work. At this time no alternative course of actions needed.	Mitigation action(s)	FC Date	%	None identified at this time.	N/A	N/A			
Mitigation action(s)	FC Date	%											
None identified at this time.	N/A	N/A											
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)													
FY2016 Risk Triggers (Risk could be realized in FY2016)													
PFP-GB-08: KPP Room Recovery After Contamination Event	An industrial accident or contaminated worker events necessitate a safety stand down or other corrective actions resulting in cost impacts, and schedule delays. Risk Handling Strategy: Accept Probability: Medium (26% to 74%) Worst Case Impacts: \$375K, 44 days	●	↔	Risk Trigger: During insitu size reduction activities within RMA/RMC (9A, 9B, 18M). Dates tracked in the FES. <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #e0e0e0;"> <th style="width: 70%;">Mitigation action(s)</th> <th style="width: 15%;">FC Date</th> <th style="width: 15%;">%</th> </tr> </thead> <tbody> <tr> <td>None identified at this time.</td> <td style="text-align: center;">N/A</td> <td style="text-align: center;">N/A</td> </tr> </tbody> </table> Mitigation Assessment: The mitigation strategies have been put in place, as a result, the risk strategy is to accept with no further mitigation actions identified at this time. PFP will continue to adhere to Worker Safety Programs, and implement corrective actions as part of the ISMS feedback loop. At this time no alternative course of actions needed.	Mitigation action(s)	FC Date	%	None identified at this time.	N/A	N/A			
Mitigation action(s)	FC Date	%											
None identified at this time.	N/A	N/A											
PFP-GB-09: Bulk Area clean-out scope Increase for KPP Scope	Additional bulk area clean-out results in schedule delays due to contamination events in rooms 228A -228C and 235A3 after Insitu-size reduction activities are complete. Risk Handling Strategy: Accept Probability: Low (10% to 25%) Worst Case Impacts: \$0, 16 days *Cost increase will result in cost per day impacts from crews, and hotel load.	●	↔	Risk Trigger: During insitu size reduction activities within RMA/RMC (9A, 9B, 18M). Dates tracked in the FES. <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #e0e0e0;"> <th style="width: 70%;">Mitigation action(s)</th> <th style="width: 15%;">FC Date</th> <th style="width: 15%;">%</th> </tr> </thead> <tbody> <tr> <td>Implement lessons learned from previous size reductions activities (i.e., Room 172 size reduction) into work packages.</td> <td style="text-align: center;">Complete</td> <td style="text-align: center;">100</td> </tr> <tr> <td>Identify/fabricate room sacrificial layers prior to insitu size reduction activities.</td> <td style="text-align: center;">Complete</td> <td style="text-align: center;">100</td> </tr> </tbody> </table> Mitigation Assessment: The mitigation strategies have been put in place, as a result, the risk strategy is to accept with no further mitigation actions identified at this time. At this time no alternative course of actions needed.	Mitigation action(s)	FC Date	%	Implement lessons learned from previous size reductions activities (i.e., Room 172 size reduction) into work packages.	Complete	100	Identify/fabricate room sacrificial layers prior to insitu size reduction activities.	Complete	100
Mitigation action(s)	FC Date	%											
Implement lessons learned from previous size reductions activities (i.e., Room 172 size reduction) into work packages.	Complete	100											
Identify/fabricate room sacrificial layers prior to insitu size reduction activities.	Complete	100											

Unassigned Risks (Pending ownership of identified risks/opportunities)No unassigned risks identified for RL-0011 in the month of **November**.**Critical Path Schedule**

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

MILESTONE STATUS

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

umber	Title	Due Date	Actual Date	Forecast Date	Status/ Comment
M-083-44A	Complete Significant Progress on Deactivation & Removal of 208 GB's and Disposal of all 236-Z Pencil Tanks	09/30/15		9/30/15	Complete
M-083-00A	PFP Facility Transition and Selection Disposition Activities	09/30/16		1/19/17	Stop works associated with Premaire breathing air suits/hoses in support of in-situ size reduction efforts and stop works associated with intrusive work in the 234-5Z duct level caused the Tri-Party Agreement milestone projected completion date to slip. As the PFP Project continues to make progress on the behind schedule critical path work scope being performed it is anticipated that efficiencies will be recognized to bring the schedule into alignment with a completion date of September 30, 2016. However, this Tri-Party Agreement completion is currently at risk of meeting the September 30, 2016 commitment date.

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None identified at this time.

Appendix C.2

Capital Asset Project

RL-011.C2 Demolition of PFP Facilities



J. M. Swartz
Vice President for
PFP Closure Project

November 2015
CHPRC-2015-11, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

The following are key metrics associated with this CAP.

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

Summary:

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

KEY ACCOMPLISHMENTS

- Completed internal review of Safety Basis Revision 13. The DSA and TSR are being prepared for transmittal to RL.

MAJOR ISSUES

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

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

Status – The DSA/TSR Revision 12 was approved by RL on May 4, 2015. Continued with the IRV for HNF-15500 “PFP Deactivation and Decommissioning Documented Safety Analysis” Revision 12 and HNF-15502 “PFP Deactivation and Decommissioning Technical Safety Requirements” Revision 12.

Received the requested approval letter from RL (16-NSD-0002_RL) authorizing the implementation date for DSA Revision 12 to be moved forward to no later than 30 days after removal of Glovebox HA-9A Plexiglas panels, as opposed to 30 days after glovebox size reduction.

Refresher briefing will be conducted the end of December with full implementation scheduled for mid-January.

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

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

Status – Calculations were completed in September using CHPRC-0560, *Plutonium Finishing Plant Rubble Calculations*, demonstrating that residual hazardous constituents are not expected to pose any significant cost and schedule impacts. Calculations were updated in November, demonstrating that residual chemical constituency expected to exist prior to demolition does not challenge ERDF WAC or need for hazardous designation. First draft of the PRF Chemical Data Summary Report has been issued for review and comment.

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

Corrective Action –

- Unpackaged and placed previously packaged J-Pan wastes back in the PRF Canyon.
- Develop waste packaging instructions for J-Pan wastes.
- PFP will perform a visual inspection of waste drums that contain PRF canyon waste prior to shipment from the facility.

Status –

- Previously packaged J-Pan wastes were unpackaged and placed back in the PRF Canyon.
– Complete
- Waste packaging instructions for J-Pan wastes were developed and wastes are in process of being packaged per the waste packaging instructions. – In-process
- PFP is performing visual inspections of waste drums that contain PRF canyon waste prior to shipment. – In-process

CLASSIFICATION (When Filled In)																			
CONTRACT PERFORMANCE REPORT																			
FORMAT 1 - WORK BREAKDOWN STRUCTURE																			
DOLLARS IN																			
Thousands of \$																			
FORM APPROVED																			
OMB No. 0704-0188																			
4. REPORT PERIOD																			
a. FROM (YYYYMMDD)																			
b. TO (YYYYMMDD)																			
5. CONTRACT DATA																			
a. QUANTITY																			
b. ESTIMATED COST OF AUTHORIZED UNPRICED WORK																			
c. ESTIMATED PRICE																			
d. TARGET PRICE																			
e. TARGET PROFIT/FEE																			
f. ESTIMATED CONTRACT CEILING																			
h. ESTIMATED CONTRACT CEILING																			
i. DATE OF OTB/OTS (YYYYMMDD)																			
6. ESTIMATED COST AT COMPLETION																			
MANAGEMENT ESTIMATE AT COMPLETION																			
a. BEST CASE																			
b. WORST CASE																			
c. MOST LIKELY																			
7. PERFORMANCE DATA																			
CAPRI P&S																			
Control Account P&S 2 WBS (2)																			
ITEM (1)	BUDGETED COST			ACTUAL COST			CURRENT PERIOD			CUMULATIVE TO DATE			REPROGRAMMING ADJUSTMENTS			AT COMPLETION			
	WORK SCHEDULED (2)	WORK PERFORMED (3)	VARIANCE (4)	WORK SCHEDULED (5)	WORK PERFORMED (6)	VARIANCE (7)	CONTRACT BUDGET BASE (8)	WORK SCHEDULED (9)	WORK PERFORMED (10)	VARIANCE (11)	ACTUAL COST PERFORMED (12)	WORK SCHEDULED (13)	WORK PERFORMED (14)	VARIANCE (15)	BUDGETED (16)	ESTIMATED (17)	VARIANCE (18)		
RL-0011 Nuclear Mat Scab & Disp	171	210	156	39	54	6,371	6,371	6,517	6,244	146	273	0	0	0	45,483	40,809	4,674		
RL-0011 C2.05 Disposition PFP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
c. GENERAL AND ADMINISTRATIVE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
d. UNDISTRIBUTED BUDGET	171	210	156	39	54	6,371	6,371	6,517	6,244	146	273	0	0	45,483	40,809	4,674			
e. SUBTOTAL	171	210	156	39	54	6,371	6,371	6,517	6,244	146	273	0	0	45,483	40,809	4,674			
f. MANAGEMENT RESERVE	0	0	0	0	0	0	0	0	0	0	0	0	0	6,200	6,200	0			
g. TOTAL	171	210	156	39	54	6,371	6,371	6,517	6,244	146	273	0	0	51,683	47,009	4,674			
9. RECONCILIATION TO CONTRACT BUDGET BASELINE																			
a. VARIANCE ADJUSTMENT																			
b. TOTAL CONTRACT VARIANCE																			
												51,683	40,809	10,874					

CLASSIFICATION (When Filled In)



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

FORM APPROVED
 OMB No. 0704-0188

Dolan, Jr. FTE

1. CONTRACTOR	2. CONTRACT	3. PROGRAM	4. REPORT PERIOD
a. NAME CH2M HILL Patrau Remediation Company	a. NAME Patrau Remediation Contract	a. NAME RL 0011 CZ PFP Demolition Capital Asset Project	a. FROM (YYYYMMDD) 2013 / 10 / 26
b. LOCATION (Address and ZIP Code) Richland, WA	b. NUMBER RL4738	b. PHASE	b. TO (YYYYMMDD) 2013 / 11 / 22
c. TYPE C/P	d. SHARE RATIO NO <input checked="" type="checkbox"/> YES <input type="checkbox"/>	c. EVMS ACCEPTANCE NO <input type="checkbox"/> YES <input checked="" type="checkbox"/>	

5. PERFORMANCE DATA																				
WBES Resp Org Group	ACTUAL CURRENT PERIOD	ACTUAL END OF CURRENT PERIOD (Cumulative)	SIX MONTH FORECAST BY MONTH (Enter names of months)						FORECAST (Non-Cumulative)											
			+1 DEC 2015 (4)	+2 JAN 2016 (5)	+3 FEB 2016 (6)	+4 MAR 2016 (7)	+5 APR 2016 (8)	+6 MAY 2016 (9)	REMAIN FY16 (11)	FY17 (12)	FY18 (13)	FY19-FY24 (14)	AT COMPLETION (15)							
38 - PFP Closure Project	1	13	11	12	12	12	12	16	16	38	38	102	370	370	0	0	0	0	0	1023
TOTAL DIRECT	1	13	11	12	12	12	16	16	38	38	102	370	370	0	0	0	0	0	0	1023

CLASSIFICATION (When Filled In)



CLASSIFICATION (When Filled In)									
CONTRACT PERFORMANCE REPORT									FORM APPROVED
FORMAT 5 - Explanations and Problem Analysis									OMB No. 0704-0188
1. CONTRACTOR		2. CONTRACT		3. PROGRAM				4. REPORT PERIOD	
a. NAME CH2M HILL Plateau Remediation Company		a. NAME Plateau Remediation Contract		a. NAME RL_0011_C2 PFP Demolition Capital Asset Project				a. FROM 2015 / 10 / 26	
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE				b. TO 2015 / 11 / 22	
		c. TYPE CPAF	d. SHARE RATIO	c. EVMS ACCEPTANCE No X Yes 2009 / 09 / 18					
5. Evaluation									
Direct Projects									
	Budget	Earned	Actuals	SV in \$	SV in %	CV in \$	CV in %	SPI	CPI
Current:	171	210	156	39	23%	54	26%	1.23	1.34
Cumulative:	6,371	6,517	6,244	146	2%	273	4%	1.02	1.04
	BAC	EAC	VAC in \$	VAC in %	TCPI to BAC	TCPI to EAC			
At Complete:	45,483	40,809	4,674	10%	0.99	1.13			
<p>Explanation of Variance/Description of Problem: Cost Variance: Starting demolition of the ancillary facilities has been pushed out due to resource constraints caused by other critical path PFP Operations Projects (i.e., readying PRF for demolition) . This has resulted in less project management support charges than planned in this LOE account during the current period. In addition, The PFP Demolition Readiness Assessment activity is behind schedule resulting in less subcontract charges against this LOE account than initially planned. The baseline plan was for a Management Assessment while the current DOE direction is for a more stringent Readiness Assessment which includes a site exercise.</p> <p>Impact: The positive cost variance for PM support will continue until work scope on ancillary facilities begins. The current positive cost variance on the Readiness activity is anticipated to reduce significantly as the more stringent Readiness Assessment and site exercise complete.</p> <p>Corrective Action: The demolition work scope has just been initiated and as such no corrective actions are required at this time.</p> <p>Monthly Summary (to include technical causes of VARs, Impacts) and Corrective Action(s):</p>									
Prepared by:		Date:		Approved by:			Date:		

CORRECTIVE ACTION LOG

Control Account	Task Title	FY Year/ Month	CAM	Status	Forecast Completion	Actual Completion	Assigned To
011.05.01.01	DSA Revision 12 Implementation	2016/01	Trevino, Ruben A	Open	1/16/15		Trevino, Ruben A

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

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

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

Risk Title Risk Owner	Unmitigated Risk Impacts	Assessment		Comments															
		Month	Trend																
RL-0011/WBS-011.05.C3 (CAP.2)																			
Explanation of major changes to the project monthly spotlight chart: No major changes to the monthly spotlight chart in the month of November.																			
Realized Risks (Risks that are currently impacting project cost/schedule)																			
No realized risks identified for RL-0011/WBS-011.05.C3 (CAP.2) in the month of November.																			
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)																			
FY2016 Risk Triggers (Risk could be realized in FY2016)																			
PFP-DEMO-21: Glove Box/Equipment Removal/Demolition Material Handling Event	A material handling event (E.g., dropped piece of process equipment) occurs during the PFP demolition resulting in cost impacts and schedule delays. Risk Handling Strategy: Accept Probability: Low (10% to 25%) Worst Case Impacts: \$150K, 44 days	●	↔	Risk Trigger: During pre-demolition/demolition activities in FY2016. Dates tracked in the FES. <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #e0e0e0;"> <th style="width: 80%;">Mitigation action(s)</th> <th style="width: 10%;">FC Date</th> <th style="width: 10%;">%</th> </tr> </thead> <tbody> <tr> <td>None identified at this time.</td> <td style="text-align: center;">N/A</td> <td style="text-align: center;">N/A</td> </tr> </tbody> </table> Mitigation Assessment: The mitigation strategies have been put in place, as a result, the risk strategy is to accept with no further mitigation actions identified at this time. PFP will continue to adhere to the CHPRC ISMS program/ hoisting and rigging program to include detailed analyses of potential hazards and identification of preventive measures to implement prior to starting the work. At this time no alternative course of actions needed.	Mitigation action(s)	FC Date	%	None identified at this time.	N/A	N/A									
Mitigation action(s)	FC Date	%																	
None identified at this time.	N/A	N/A																	
PFP-DEMO-07: Removal/Extraction of Equipment Takes Longer Than Planned	Controlled demolition of equipment, gloveboxes, and portions of the cross-cutting process support systems (i.e. ventilation) result in cost impacts, and schedule delays. Risk Handling Strategy: Control Probability: Medium (26% to 74%) Worst Case Impacts: \$1.5M, 45 days	●	↔	Risk Trigger: During pre-demolition/demolition activities in FY2016. Dates tracked in the FES. <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #e0e0e0;"> <th style="width: 80%;">Mitigation action(s)</th> <th style="width: 10%;">FC Date</th> <th style="width: 10%;">%</th> </tr> </thead> <tbody> <tr> <td>Submit safety basis documents that allow for additional equipment (e.g., 242-Z Tanks) to be left in place for removal during demolition.</td> <td style="text-align: center;">Complete</td> <td style="text-align: center;">100</td> </tr> <tr> <td>Identify and pre-rig equipment with lifting slings.</td> <td style="text-align: center;">2/29/15</td> <td style="text-align: center;">50</td> </tr> <tr> <td>Initiate discussions early in the demo planning of the equipment being left in place for removal during demolish.</td> <td style="text-align: center;">Ongoing</td> <td style="text-align: center;">N/A</td> </tr> <tr> <td>Apply fixative to internals of equipment intended to be removed during demolition to contain contamination.</td> <td style="text-align: center;">Ongoing</td> <td style="text-align: center;">N/A</td> </tr> </tbody> </table> Mitigation Assessment: Safety basis documentation completed in November. In the month of November pre-rigging mitigation actions slipped two (2) months due to the chemical reaction that presented itself on the PRF Canyon floor clean up. Due to the time spent on characterization, sampling, and packaging the PRF schedule was delayed, resources diverted to perform the needed work to clean up the reactive material. ETC was updated to reflect schedule and cost impacts. At this time no alternative course of actions needed.	Mitigation action(s)	FC Date	%	Submit safety basis documents that allow for additional equipment (e.g., 242-Z Tanks) to be left in place for removal during demolition.	Complete	100	Identify and pre-rig equipment with lifting slings.	2/29/15	50	Initiate discussions early in the demo planning of the equipment being left in place for removal during demolish.	Ongoing	N/A	Apply fixative to internals of equipment intended to be removed during demolition to contain contamination.	Ongoing	N/A
Mitigation action(s)	FC Date	%																	
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High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)																			
FY2016 Risk Triggers (Risk could be realized in FY2016)																			

Risk Title Risk Owner	Unmitigated Risk Impacts	Assessment		Comments		
		Month	Trend			
RL-0011/WBS-011.05.C3 (CAP.2)						
PFP-DEMO-05: Inclement Weather	Inclement weather, including moderate winds, low or high temperatures and thunderstorms will impact the demolition of PFP. Risk Handling Strategy: Accept Probability: Low (10% to 25%) Worst Case Impacts: \$0K, 66 days *Cost increase will result in cost per day impacts from crews, and hotel load.			Risk Trigger: During pre-demolition/demolition activities in FY2016. Dates tracked in the FES.		
				<table border="1" style="width: 100%;"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>None identified at this time.</td> <td>N/A</td> <td>N/A</td> </tr> </tbody> </table>	Mitigation action(s)	FC Date
Mitigation action(s)	FC Date	%				
None identified at this time.	N/A	N/A				
Unassigned Risks (Pending ownership of identified risks/opportunities)						
No unassigned risks identified in the month of November .						

Critical Path Schedule

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

MILESTONE STATUS

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

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M-083-00A	PFP Facility Transition and Selection Disposition Activities	09/30/16		1/19/17	Stop works associated with Pemaire breathing air suits/hoses in support of in-situ size reduction efforts caused the Tri-Party Agreement milestone date to slip. As the PFP Project continues to make progress on the behind schedule critical path work scope being performed it is anticipated that efficiencies will be recognized to bring the schedule into alignment with a completion date of September 30, 2016. However, this Tri-Party Agreement completion is currently at risk of meeting the September 30, 2016 commitment date.

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None identified at this time.