

Monthly Performance Report

July 2016

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 Janis Aardal at 7:28 am, Aug 30, 2016

Release Approval

Date

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J. A. Ciucci
President and Chief
Executive Officer

Monthly Performance Report

U.S. Department of Energy Contract,
DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

July 2016
CHPRC-2016-07, Revision 0

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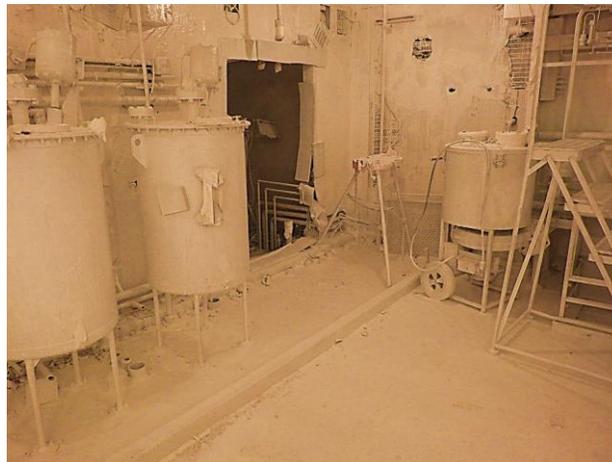
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EXECUTIVE SUMMARY

CH2M HILL Plateau Remediation Company (CHPRC) advanced cleanup throughout the Hanford Site during the month of July. Major accomplishments included:

- The Plutonium Finishing Plant (PFP) Closure Project completed demolition ready work activities in 242-Z.
- The Waste and Fuels Management Project (W&FMP) completed the core drilling into the hot pipe trench, removed the old K3 fan motors, and initiated the ventilation outage in support of the Stabilization and Ventilation Project at the Waste Encapsulation and Storage Facility (WESF).
- The Soil and Groundwater Remediation Project (S&GRP) completed the final perched water pumping test on the 200-DV-1 Operable Unit (OU), transmitted the Decisional Draft 100-BC-5 Proposed Plan to RL for review and completed aquifer pumping tests of the Ringold Upper Mud unit in the 100-HR-3 OU.
- The K Basin Operations and Plateau Remediation (KBO&PR) Project completed the relocation of the North Load-Out Pit (NLOP) equipment inside of T Plant.



Building 242-Z painted for demolition.

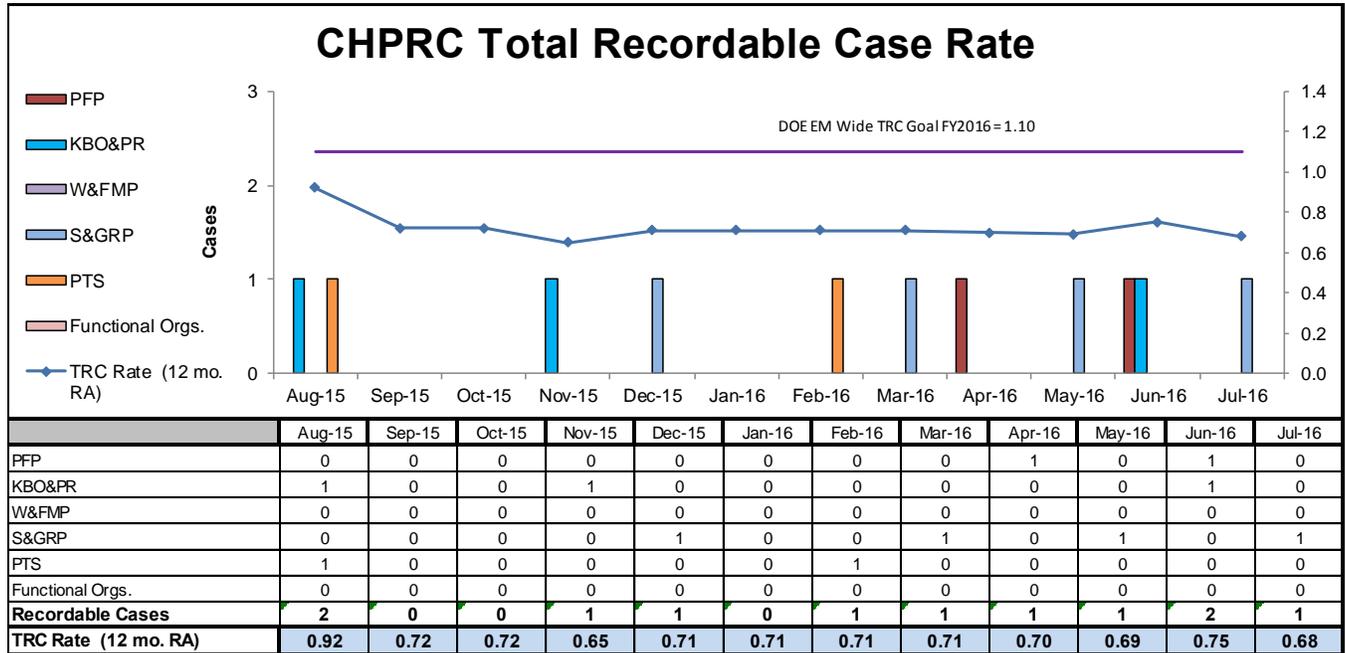


Workers completed the relocation of NLOP equipment at T Plant.

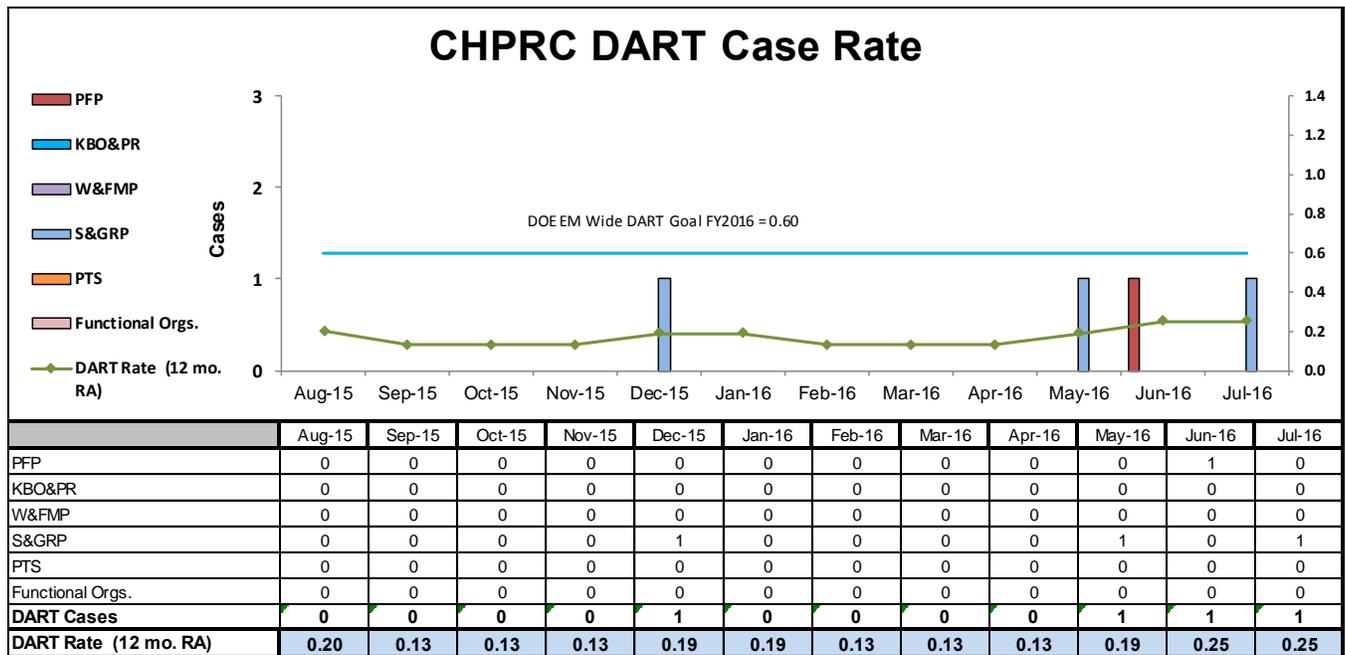
- The July 2016 President’s Zero Accident Council (PZAC) meeting was hosted by Environmental Programs & Strategic Planning. The three main ideas for the meeting were:
 - Skin Cancer Awareness: use precautions to limit your exposure.
 - Returning to Work: Follow PRC-PRO-HR-693 after illness or injury.
 - Zero Waste: Plan ahead.
- o Four “*Thinking Target Zero*” (TTZ) bulletins were published in July to convey important occupational, safety, health, and environmental messages:
 - Creepy Crawlies.
 - Summer Footwear Hazards.
 - Environmental Management System (EMS) – Spill and Event Reporting.
 - Summer Heat & Hydration – Safety Revisit.
- o July *Weekly Safety Tailgate* briefing packages communicated relevant topics and safety information to the workforce:
 - Four Lessons Learned: 1) U.S. Department of Labor, Mine Safety and Health Administration (MSHA) report that cell phones and mobile equipment do not mix; 2) URS CH2M Oak Ridge (UCOR); 3) Oak Ridge, TN – Laceration to Right Hand Finger Tip; Washington River Protection Solutions (WRPS), Hanford removal wooden handrail on a stair landing gave way; and 4) CHPRC Lack of comprehensive planning leads to unfavorable trend in radiological contamination control incidents.
 - Weekly Ethics Moments.
 - Return to work safely.
 - Casual footwear safety at work and at home.
 - Importance of safety glasses.
 - EMS ISO 14001 Audit results.
 - Arriving ready to work and prepared for training.
 - Safety in Motion – Ergonomics.
 - Tank Farm Safety Measures.
 - Mine Safety Appliance (MSA) TL Powered Air Purifying Respirator (PAPR) hose clamp
- o The July Kudos Corner recognized individuals and teams who made a significant contribution to safety at work, home or play:
 - Kudos to observant workers who reported a leaking propane cylinder while conducting a walk down at PFP, allowing the appropriate response by the facility, including calling the Hanford Fire Department and keeping employees away from the area.
 - Kudos to a Project Technical Services (PTS) worker who came up with a safety process improvement. With approval, the worker demonstrated ingenuity by finding a new way to move equipment other than the traditional forklift and rigging method.
 - Kudos to all CHPRC workers who supported Partners ‘n Pals for the Arc of Tri-Cities. These volunteers took the safety skills they learned on the job and ensured the safety of the participants making the horseback riding camp an enjoyable experience for children with special needs.
 - Kudos to the WESF employees who have safely executed the start of a ventilation outage to support ventilation upgrades to the facility.

TARGET ZERO PERFORMANCE

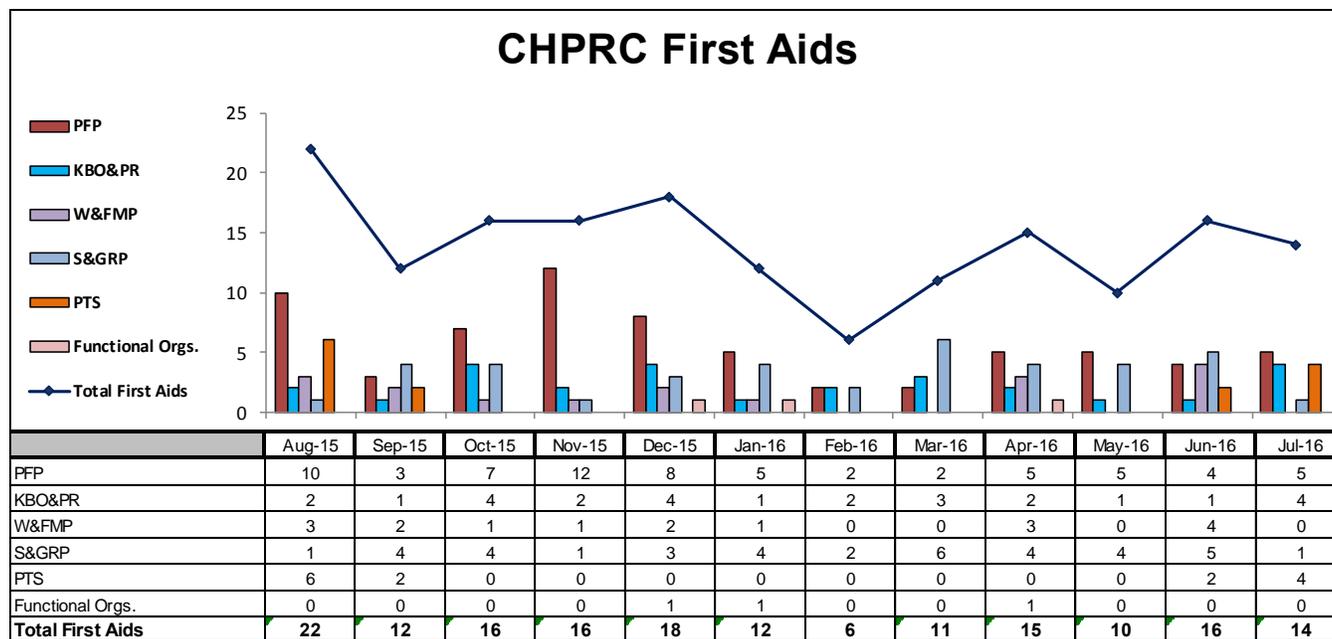
CHPRC continued focusing on integrating and implementing safety programs in all program and project areas.



Total Recordable Injury Case (TRC) Rate: The 12-month rolling average TRC rate of 0.68 is based on a total of 11 Recordable injuries. There was one Recordable case for July.



Days Away, Restricted or Transferred (DART) Workdays Case Rate: The 12-month rolling average DART rate of 0.25 is based upon a total of four Days Away cases. There was one DART case in July.



First Aid Case Summary: CHPRC reported 14 first aid cases in July. The contributors were five abrasions/bruises/contusions, four sprains/strains/pains, two miscellaneous (burns, rashes, repetitive motion, etc.), two insect bites and one foreign bodies/irritation to the eye injury.

KEY ACCOMPLISHMENTS

Projects

- Refer to Sections A through G as well as Appendix C of this report for project specific accomplishments.

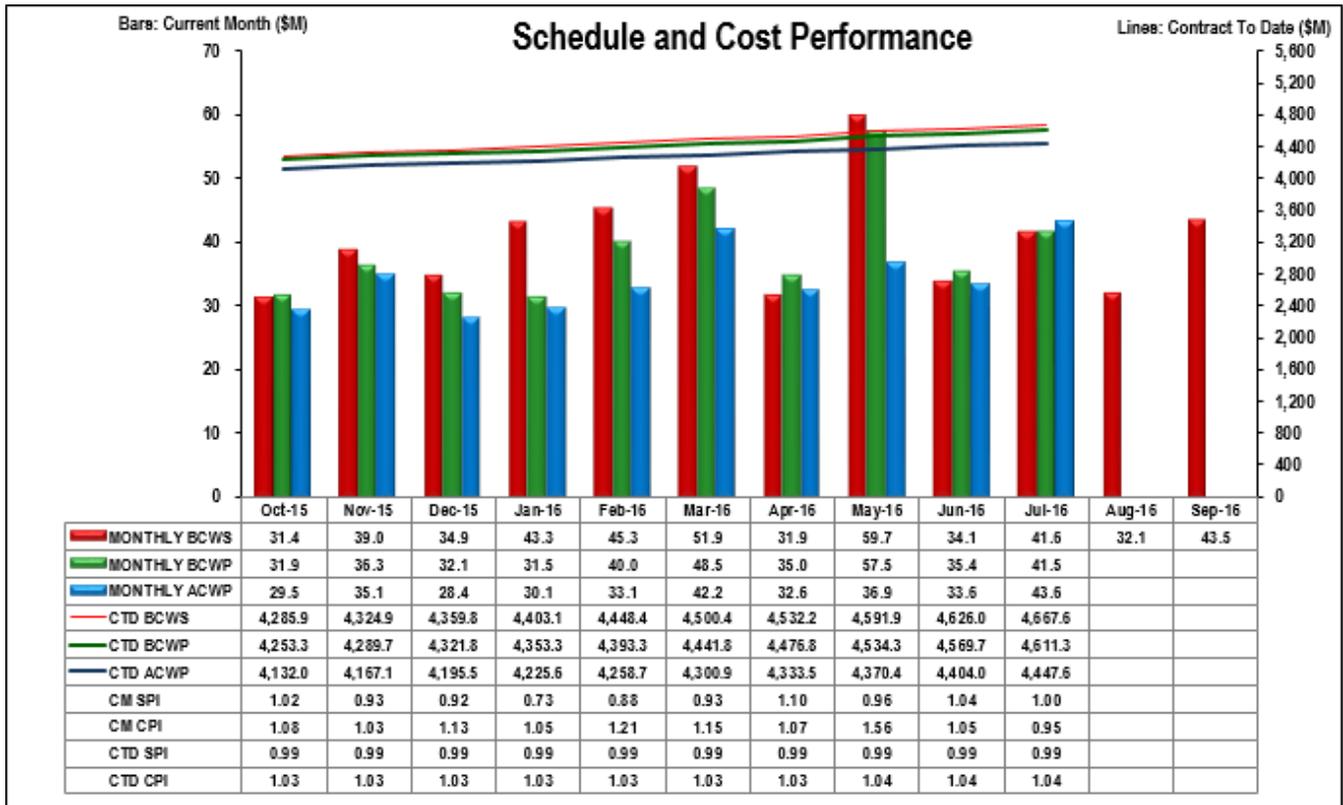
Project Services and Support

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

MAJOR ISSUES

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

EARNED VALUE MANAGEMENT



	\$M						\$M					\$M		
	Current Period						Contract to Date					Contract Period		
	Budgeted Cost		Actual Cost	Variance			Budgeted Cost		Actual Cost	Variance		BAC	EAC	Variance
	BCWS	BCWP	ACWP	Schedule	Cost	BCWS	BCWP	ACWP	Schedule	Cost				
RL-0011 - Nuclear Materials Stab & Disp PFP	6.7	4.0	10.6	(2.7)	(6.6)	951.8	900.6	924.2	(51.1)	(23.6)	978.9	1,034.3	(55.3)	
RL-0012 - SNF Stabilization & Disposition	8.6	7.8	6.5	(0.8)	1.3	606.7	608.6	584.4	1.9	24.2	738.4	717.0	21.5	
RL-0013 - Solid Waste Stab & Disposition	10.1	10.8	8.6	0.7	2.2	1069.6	1069.7	1002.8	0.1	66.9	1,335.1	1,279.9	55.3	
RL-0030 - Soil & Water Rem-Grndwtr/Vadose	11.8	12.6	11.7	0.8	0.9	1263.2	1250.0	1220.7	(13.2)	29.3	1,564.8	1,490.9	73.9	
RL-0040 - Nuc Fac D&D - Remainder	2.4	2.3	2.3	(0.1)	0.0	420.6	417.0	385.8	(3.5)	31.2	469.1	443.5	25.7	
RL-0041 - Nuc Fac D&D - RC Closure Project	1.9	3.9	3.8	1.9	0.1	334.0	343.5	311.9	9.5	31.6	413.2	358.8	54.4	
RL-0042 - Nuc Fac D&D - FFTF Project	0.2	0.2	0.1	(0.0)	0.1	21.8	21.8	17.7	0.0	4.0	26.5	22.8	3.7	
Total	41.6	41.5	43.6	(0.1)	(2.1)	4,667.6	4,611.3	4,447.6	(56.3)	163.7	5,526.2	5,347.1	179.1	

(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 \$179.1 million with \$66.7 million of Management Reserve (MR) for a total positive variance of \$245.8 million. For July, the project was 0.2 percent behind schedule and 5.0 percent over planned cost. Contract to Date (CTD), the project was 1.2 percent behind schedule and 3.5 percent under planned cost.

The current month schedule variance is within reporting thresholds.

The current month negative cost variance is due to Project Breakdown Structure (PBS) RL-0011 subcontracted labor support costs being higher than planned, consumable materials costing more than planned due to the extended time frame that it is taking to complete discrete field work and more Personal Protective Equipment (PPE) to support implementation of more conservative radiological controls are driving the increased costs for PFP to achieve slab on grade. The variance is partially offset due to PBS RL-0012 reduced requirements for oversight in Project Management, engineering support to Annex/Basin equipment installation, and support to equipment procurements, which are all level of effort. Also contributing to the offset is PBS RL-0013 significant efficiencies in labor utilization such as resource sharing across multiple scopes of work in areas of engineering, training, emergency preparedness, corrective action management and environmental management, as a cost cutting measure.

FUNDING ANALYSIS

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

PBS	Project	FY2016		Variance
		Projected Funding	Spending Forecast	
Spending Forecast				
RL-0011	Nuclear Materials Stabilization and Disposition	110.7	106.7	4.0
RL-0012	Spent Nuclear Fuel Stabilization and Disposition	53.0	44.7	8.3
RL-0012	15-D-401 Sludge Retrieval Project	68.1	30.1	38.0
RL-0013	Waste and Fuels Management Project	106.7	96.6	10.1
RL-0030	Soil, Groundwater and Vadose Zone Remediation	127.5	118.8	8.7
RL-0040	Nuclear Facility D&D, Remainder of Hanford	26.5	21.6	4.8
RL-0041	Nuclear Facility D&D, River Corridor	28.7	26.2	2.4
RL-0042	Fast Flux Test Facility Closure	3.2	1.8	1.5
Total Spending Forecast		524.3	446.4	77.9
Incremental Scope Pending Change Management				
RL-0011	Nuclear Materials Stabilization and Disposition		0.0	(0.0)
RL-0012	Spent Nuclear Fuel Stabilization and Disposition		0.2	(0.2)
RL-0012	15-D-401 Sludge Retrieval Project		0.2	(0.2)
RL-0013	Waste and Fuels Management Project		7.0	(7.0)
RL-0030	Soil, Groundwater and Vadose Zone Remediation		0.8	(0.8)
RL-0040	Nuclear Facility D&D, Remainder of Hanford		1.9	(1.9)
RL-0041	Nuclear Facility D&D, River Corridor		9.5	(9.5)
Total Non-Contract Work Scope		0.0	19.5	(19.5)
Total Base:				
RL-0011	Nuclear Materials Stabilization and Disposition	110.7	106.7	4.0
RL-0012	Spent Nuclear Fuel Stabilization and Disposition	53.0	44.9	8.1
RL-0012	15-D-401 Sludge Retrieval Project	68.1	30.2	37.9
RL-0013	Waste and Fuels Management Project	106.7	103.6	3.1
RL-0030	Soil, Groundwater and Vadose Zone Remediation	127.5	119.5	7.9
RL-0040	Nuclear Facility D&D, Remainder of Hanford	26.5	23.5	3.0
RL-0041	Nuclear Facility D&D, River Corridor	28.7	35.7	(7.1)
RL-0042	Fast Flux Test Facility Closure	3.2	1.8	1.5
Total Base:		524.3	465.9	58.4

Funds/Variance Analysis

FY2016 expected funding did not change in the month of July and remains at \$524.3M. The Spending Forecast decreased \$6.1 million from last month. Primarily PBS RL-0013 reduced \$2 million in the WESF Ventilation & Stabilization Project incorporating re-evaluated work approaches, PBS RL-0040 reduced \$1.2 million based on less resources available than planned, and PBS RL-0041 reduced \$2 million as a result of refining estimates for waste site remediation and River Corridor Closure Contract (RCCC) transition scope.

BASELINE CHANGE REQUESTS

In July 2016, CHPRC approved and implemented 11 Baseline Change Requests (BCR) into the Performance Measurement Baseline (PMB). Each change request is identified in the table below:

Change Request #	Title	Summary of Change
BCR-011-16-009R0	<i>TPA-M-083-00A, PFP Slab on Grade Milestone Change</i>	This BCR modified the logic to show the completion of the Tri-Party Agreement milestone as defined in the change order. Per TPA Change Control Form M-83-16-01, for extension of Major Milestone M-083-00A, a 12 month extension has been granted from September 30, 2016 to September 30, 2017. This change modified the end point criteria to achieving the TPA Milestone M-083-00A to pre-transition and post-transition activities. This BCR does not change the PMB value.
BCR-013-16-024R0	<i>Incorporate CO #269 NTE Increase, MOD 516 WESF K3 Ventilation and Stabilization Project</i>	This BCR incorporated the Not to Exceed (NTE) increase for RL Change Order (CO) 269 as authorized by Contract Modification (CM) 516. Additionally the NTE increase from CM 490, was not fully incorporated into the PMB with BCR-013-06-019R0. This BCR increases the PMB value by \$2,484K.
BCR-013-16-025R0	<i>Deferral of Small Container Commercial Repack Planning Package</i>	This BCR updated the PMB to move the planning package associated with WBS 013.06.01.11.01 Transuranic (waste) (TRU) Small Containers Commercial Repackaging: activity TRUSM1270, Small TRU Containers – TRU Shipment Planning Package, from September 2016 to September 2018. This BCR does not change the PMB value.
BCR-013-16-026R0	<i>Convert TRU Large Box Commercial Repack Planning Package to Work Package</i>	This BCR updated the PMB to modify the planning package associated with WBS 013.06.01.08.05, Incremental RH/Large Box Repack FY2015 & Beyond into detailed planning prior to the start of work. This BCR does not change the PMB value.
BCR-030-16-037R0	<i>Defer Unfunded FY2016 DVZ Treatability Test Work Activities</i>	This BCR re-planned the start of the Tc-99 Soil Desiccation (SD) pilot and the Uranium Reactive Gas Sequestration (URGS) treatability test work from FY2016 to FY2017 as directed by RL resulting for the work not being authorized within the available funding for FY2016. This BCR does not change the PMB value.
BCR-040-16-010R0	<i>Deferral of Increased Planning Capability Planning Package</i>	This BCR deferred planning package Increased Planning Capability Planning Package, activity PLAN0040 in WBS 040.01.26.01.23 to allow the project to better define the remaining work scope when that detailed plan is developed. This BCR does not change the PMB value.
BCR-012C-16-026R0	<i>Align 15-D-401 KW Basin Sludge Removal Project Fee to the Project Execution Plan</i>	This BCR aligned the RL-0012 15-D-401, KW Basin Sludge Removal Project Capital Asset Project Fee with the approved value to the fee value defined by the DOE PEP, KW Basin Sludge Removal Project Line Item # 15-D-401 Project Execution Plan, approved June 2, 2016. This BCR does not change the PMB value.
BCRA-PRC-16-046R0	<i>HPIC Updates July 2016</i>	This BCR documents Hanford Programs Integrated Control Module (HPIC) changes made in July 2016, these changes include new work packages and Control Account Manager (CAM) changes. This BCR does not change the PMB value.

The Allocated (Distributed) Budget increased by \$2,484K.

Undistributed Budget Activity

BCR Number	Title	Fiscal Year	UB
BCR-041C-16-019R0	<i>PBS RL-0041 Undistributed Budget Adjustments July 2016</i>	2015 - 2018	\$ 5,000K
BCR-PRC-16-041R0	<i>Undistributed Budget Adjustments July 2016</i>	2015 - 2018	\$ -484K

The Undistributed Budget increased by \$4,516K for an overall increase to the PMB of \$7,000K during July.

Management Reserve Activity

BCR Number	Title	Fiscal Year	MR
N/A	N/A	2015 - 2018	N/A

Overall, there was no change to Management Reserve (MR) during July.

Fee Activity

BCR Number	Title	Fiscal Year	Fee
BCR-PRC-16-047R0	<i>Reallocation of Fee</i>	2015 - 2018	\$1,250K

Overall, the reallocation of Fee resulted in a net zero change during July.

See the Format 3 Report in Appendix A for a listing of the specific change requests that had an 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):

July 2016 Summary of Changes

	FY 2009-2013	FY2014	FY2015	FY2016	FY2017	FY2018	FYs 2014-2018	Contract Period Total	Total PMB
June 2016 Estimate									
PMB	3,391,477	391,653	471,323	488,872	416,968	358,905	2,127,721	5,519,198	5,519,198
MR	0	0	0	24,741	23,559	18,396	66,696	66,696	66,696
Fee	155,504	14,325	14,501	27,303	10,321	18,636	85,085	240,589	240,589
Total	3,546,981	405,978	485,824	540,927	450,848	395,937	2,279,514	5,826,495	5,826,495
July 2016 Change									
PMB									
Change to PMB	0	0	0	-138	5,537	1,601	7,000	7,000	7,000
MR									
Change to MR	0	0	0	0	0	0	0	0	0
Fee									
Change to Fee	0	0	0	0	0	0	0	0	0
Total Change	0	0	0	-138	5,537	1,601	7,000	7,000	7,000
July 2016 Estimate									
PMB	3,391,477	391,653	471,323	488,734	422,505	360,507	2,134,721	5,526,198	5,526,198
MR	0	0	0	24,741	23,559	18,396	66,696	66,696	66,696
Fee	155,504	14,325	14,501	27,303	10,321	18,636	85,085	240,589	240,589
Total	3,546,981	405,978	485,824	540,777	456,385	397,539	2,286,503	5,833,483	5,833,483

Changes to/Utilization of Management Reserve in July 2016

	FY2009-2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2014-2018	Total
June 2016 MR Totals								
RL-0011	0	0	0	4,031	3,821	0	7,852	7,852
RL-0012	0	0	0	10	8,025	4,712	12,747	12,747
RL-0013	0	0	0	8,072	1,716	2,668	12,457	12,457
RL-0030	0	0	0	6,669	6,073	3,220	15,962	15,962
RL-0040	0	0	0	1,815	941	682	3,438	3,438
RL-0041	0	0	0	4,096	2,800	7,000	13,896	13,896
RL-0042	0	0	0	47	184	113	344	344
Total	0	0	0	24,741	23,559	18,396	66,696	66,696
July 2016 MR Changes/Utilization								
RL-0011	0	0	0	0	0	0	0	0
RL-0012	0	0	0	0	0	0	0	0
RL-0013	0	0	0	0	0	0	0	0
RL-0030	0	0	0	0	0	0	0	0
RL-0040	0	0	0	0	0	0	0	0
RL-0041	0	0	0	0	0	0	0	0
RL-0042	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0
July 2016 MR Totals								
RL-0011	0	0	0	4,031	3,821	0	7,852	7,852
RL-0012	0	0	0	10	8,025	4,712	12,747	12,747
RL-0013	0	0	0	8,072	1,716	2,668	12,457	12,457
RL-0030	0	0	0	6,669	6,073	3,220	15,962	15,962
RL-0040	0	0	0	1,815	941	682	3,438	3,438
RL-0041	0	0	0	4,096	2,800	7,000	13,896	13,896
RL-0042	0	0	0	47	184	113	344	344
Total	0	0	0	24,741	23,559	18,396	66,696	66,696

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 FY2018	
10/1/2008 - 7/31/2016				Planned Subcontracting:	\$2,564,285,972
Reporting Category				Contract-to-date awards:	\$2,375,935,937
				Bal remaining to award:	\$188,350,035
	\$ Value	%	Goal %	Goal award\$	Bal to Goal
SB	\$1,264,490,978	53.22%	49.3%	\$1,264,192,984	-\$297,994
SDB	\$218,952,201	9.22%	8.2%	\$210,271,450	-\$8,680,752
SWOB	\$249,858,830	10.52%	7.5%	\$192,321,448	-\$57,537,382
HUB	\$50,269,854	2.12%	2.2%	\$56,414,291	\$6,144,438
VOSB	\$163,644,849	6.89%	3.5%	\$89,750,009	-\$73,894,840
SDVO	\$88,098,149	3.71%	1.3%	\$33,335,718	-\$54,762,432
NAB	\$43,522,638	1.83%	N/A	PRC clause H.20 small business requirement ≥ 17% of CHPRC Contract Price performed by SB.	
Large	\$621,938,055	26.18%	N/A		
GOVT	\$2,446,927	0.10%	N/A		
GOVT CONT	\$482,866,522	20.32%	N/A		
EDUCATION	\$104,135	0.00%	N/A	CHPRC Contract Value:	\$5,732,255,464
NONPROFIT_	\$3,722,932	0.16%	N/A	17% rqmt:	\$974,483,429
FOREIGN	\$366,387	0.02%	N/A	SB actual:	\$1,264,490,978
Total	\$2,375,935,937	100.00%	N/A	Bal to rqmt	-\$290,007,549

Notes:

1. Since the CHPRC contract award in October 2008, CHPRC has subcontracted over \$2.3 billion in goods and services with over 53 percent going to small businesses. Nearly all subcontracting goals have been exceeded.
2. Approximately 91 percent of the total dollars arise from service and staffing contracts and contract amendments with 6 percent of the remaining expenditures arising from P-Card purchases and 3 percent from 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.2.2, C.2.3	<p>PBS-11, Plutonium Finishing Plant Closure Project</p> <p>PBS-13, Solid and Liquid Waste Treatment and Disposal</p>	<p>Offsite Transportation of Radioactive Material: RL provides equipment and government drivers to transport TRU materials outbound/inbound between the Hanford site and Permafix Northwest (PFNW) locations. RL is the authorized shipper and acts as signatory on the shipping papers, and ensures DOE Manual 460.2-1 is complied with. RL arranges for Commercial Motor Vehicle Safety Alliance (CVSA) level VI vehicle inspections and verifies that the government drivers meet the applicable Department of Transportation (DOT) Federal Motor Carrier Safety Regulations (49 CFR 382 and 383). RL also inspects the load securement to ensure compliance with DOT regulations and/or Transportation Safety Document (TSD) requirements.</p>	Ongoing
J.12/C.2.3.6	PBS-13, Transuranic Waste Certification	<p>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.</p>	No WIPP shipments are planned within the Contract period of performance.

Section A

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



T. E. Bratvold
Vice President for
PFP Closure Project

July 2016
CHPRC-2016-07, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT 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 98 percent complete.

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

Significant accomplishments in July included:

- Transitioned 2729-Z building to a ready for demo state.
- Continued 236-Z PRF Canyon clean-up, characterization and painting.
- Completed NDA of the 236-Z PRF Gallery Gloveboxes.
- Completed fixative application to the First Floor East and Second Floor East Gallery Gloveboxes.
- Abated 40 feet of asbestos.
- Removed or dispositioned in place 73 feet of E4 ducting
- Removed or dispositioned in place 36 feet of process vacuum piping.
- Shipped 19m³ TRU/TRU-M Waste.
- Shipped 83m³ LLW/MLLW.

Key Metrics

<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	40	26,176 feet
Process Vacuum Piping Dispositioned	36	4,878 feet
COMPLETE Process Transfer Line Dispositioned	-	1,525 feet
COMPLETE Pencil Tank Units Removed (Shipped)	-	196 pencil tank units
Buildings Ready for Demo	1	46 structures
Buildings Demolished or Removed	0	45 structures
Non-radioactive Waste Shipped	-	73 m ³
TRU/TRU-M Shipped	19m ³	2,189 m ³
LLW/MLLW Shipped	83m ³	7,188 m ³

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	08/16/16	100%
			2. Issue report documenting thorough inspection of 242-Z	05/26/16	100%
			3. Issue report documenting thorough inspection of 234-5Z	01/26/17	20%
			4. Issue report documenting thorough inspection of 291-Z	01/31/17	0%
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	100%

TARGET ZERO PERFORMANCE

	Current Month	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	1	N/A
Total Recordable Injuries	0	1	N/A
First Aid Cases	5	68	<ul style="list-style-type: none"> • 7/18/2016 - Employee reported, after attempts to flush eye, that they had something in left eye. Employee was taken to HPMC to be examined and diagnosed as having a foreign body in left eye. The eye was flushed and the foreign body removed. Employee returned to work without restrictions. (24065) • 7/23/2016 - Employee states that the injury occurred when pushing a cable through a protector. Employee was taken to HPMC to be examined and diagnosed as having a left arm strain. No treatment was given and was released to return to work without restrictions. (24070) • 7/25/2016 - The employee's rubber boot caught on a stair ledge causing employee to lose balance and fall onto stairs. Employee was taken to HPMC to be examined and released to return to work with no restrictions. (24071) • 7/26/2016 - Employee reported stumbling over missed step, catching oneself on the stairway, striking the right bicep on the stair, causing a contusion. Employee was given over the counter medicine and returned to work without restrictions. (24073) • 7/26/2016 - Employee states the lid of the Job Box struck employee on the top of the head. Employee was taken to HPMC, examined and diagnosed as having a scalp injury to the middle of head. A cold pack was administered, employee was given a non-prescription medication, and released to return to work without restrictions. (24074)
Near Misses	0	0	N/A

KEY ACCOMPLISHMENTS

11.05 Disposition PFP Facility

- Transitioned 2729-Z ancillary building into a ready for demo state.

234-5Z

- Duct Level:
 - Abated 40 feet of asbestos.
 - Removed or dispositioned in place 73 feet of E4 ducting.
 - Removed or dispositioned in place 36 feet of process vacuum piping.

PFP Waste Operations

- Shipped 19m³ TRU/TRU-M waste.
- Shipped 83m³ LLW/MLLW.

242-Z

- Tanks prepared for removal during demolition.
- Hazmat articles removed.
- Waste load out complete.
- Fixatives applied to the control room, tank room and both mezzanines.
- Downposted to PAPR levels.
- Sample from below grade trench was collected for analysis/disposition.

236-Z PRF

- Canyon:
 - Continued 236-Z PRF Canyon clean-up, characterization and painting.
- Gallery Gloveboxes
 - Completed Nondestructive Assessment (NDA) of the 236-Z PRF Gallery Gloveboxes.
 - Completed fixative application to the First Floor East and Second Floor East Gallery Gloveboxes.

MAJOR ISSUES

Issue:

PRF Canyon floor scrapings from J Pan, staged in collection trays on the Canyon floor expanded resulting in a clear and unanticipated chemical reaction. A previously noted hard substance was observed within the loose debris on J Pan. 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 expected.

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:

- Waste packaging instructions for J Pan wastes were developed and waste has been packaged per the waste packaging instructions.
- PFP is performing 100 percent visual inspections of waste drums that contain PRF canyon waste prior to shipment.

- Waste Shipment of PRF Canyon Waste to Central Waste Complex (CWC) has commenced with shipment of non-J Pan wastes.
- Pacific Northwest National Laboratory (PNNL) analysis of waste samples is complete. Fauske and Associates has completed their evaluation of the potential for a self-accelerating thermal reaction within the drums.
- PFP is preparing a final report documenting an evaluation of the PNNL analysis results, the Fauske and Associates evaluation, and an analysis of radiolytic gas generation. The final report was complete in July. The report concluded that the J Pan drums will not undergo a self-accelerating thermal reaction and can be safely stored and shipped. Drums will continue to be inspected until they are shipped to the CWC.
- This issue will no longer be carried on the monthly report after this month.

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 July.													
Realized Risks (Risks that are currently impacting project cost/schedule)													
No realized risks identified for RL-0011 in the month of July.													
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: Likely (75% to 90%) Worst Case Impacts: \$190K, 16 days	●	↔	Risk Trigger: Will continue throughout project lifecycle until Demolition activities commence. <table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 10px;"> <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>Revise the project DQO to incorporate provisions to leave for demolition higher residual levels of contamination when supported by the air dispersion model and waste operations</td> <td style="text-align: center;">7/21/16</td> <td style="text-align: center;">95</td> </tr> <tr> <td>Complete 234-SZ Duct Level and backside inspections to identify piping with TSI dropping through to the first floor ceiling void.</td> <td style="text-align: center;">7/28/16</td> <td style="text-align: center;">85</td> </tr> </tbody> </table> Mitigation Assessment: No major changes in the month of July. The risk component associated with final characterization of the PRF canyon, gallery gloveboxes, and strongbacks remains critical. This is due to the likelihood that final characterization could demonstrate, after completion of current cleanup activity, that further decontamination of structures and components is necessary. Mitigation actions are being completed in conjunction with ongoing cleanup activity in progress; therefore, risk mitigation is linked to the progress of the deactivation crews. The draft revision to the Data Quality Objective (DQO) has been completed. The risk component associated with late discovery of asbestos in need of further removal/abatement is no longer critical. Duct level inspections of crawlspaces are in progress. Confirmation of Thermal System Insulation (TSI) in and above the A-labs resulted in allocation of insulator resources to commence abatement activity, which has slowed progress toward completion of remaining inspections. Project focus now is placed on D&D crews opening up walls to create access to piping suspected to carry TSI. Given the sufficient lead time, there is greater confidence that the added work can be completed by existing insulator crew strength assigned to support the project. In this regard, the work has been incorporated into the Estimate To Complete (ETC). No alternative course of actions needed at this time.	Mitigation action(s)	FC Date	%	Revise the project DQO to incorporate provisions to leave for demolition higher residual levels of contamination when supported by the air dispersion model and waste operations	7/21/16	95	Complete 234-SZ Duct Level and backside inspections to identify piping with TSI dropping through to the first floor ceiling void.	7/28/16	85
Mitigation action(s)	FC Date	%											
Revise the project DQO to incorporate provisions to leave for demolition higher residual levels of contamination when supported by the air dispersion model and waste operations	7/21/16	95											
Complete 234-SZ Duct Level and backside inspections to identify piping with TSI dropping through to the first floor ceiling void.	7/28/16	85											

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: Likely (75% to 90%) Worst Case Impacts: \$0, 12 days *Cost increase will result in cost per day impacts from crews, and hotel load.			Risk Trigger: July 6, 2015			
				Mitigation action(s)		FC Date	%
				Process Revision 3 to the PNNL Air Dispersion Model		7/21/16	95
				Once the residual material/contamination is quantified, work with regulators to identify controls to allow for equipment removal and demolition as planned.			
Mitigation Assessment: No major changes in the month of July. Revision 2 to the PNNL Air Dispersion Model was completed in draft, but was not issued in order to address comments from RL as well as incorporate the latest characterization data. As preliminary Safeguards terminations estimates demonstrate that the PRF Canyon walls and strongbacks MAR is within modeled limits, a final version (Revision 3) is being prepared that will inform demolition control sets for radiological monitoring and work package plans for Gallery glovebox and Strongback removals (the final remaining action). At this time no alternative course of actions are needed.							
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: During glovebox isolations NDA process allows for section results to be used.			
				Mitigation action(s)		FC Date	%
				None identified at this time.		N/A	N/A
Mitigation Assessment: During quarterly risk reviews with the project, this risk was determined to be closed as the opportunity has been incorporated into the plan. It will be removed from next month's stoplight report.							
Unassigned Risks (Pending ownership of identified risks/opportunities)							
No unassigned risks identified in the month of July.							

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	6.7	4.0	10.6	(2.7)	-40.5%	(6.6)	-167.3%

Numbers are rounded to the nearest \$0.1 million.

CM Schedule Variance: (-\$2.7M/-40.5%)

The current month negative schedule variance is due to work scope associated with the demolition of 236-Z, 242-Z, 234-5Z and 291-Z not being performed as originally scheduled. The demolition of these facilities has been delayed due to resources being redirected to support ready for demolition activities associated with 236-Z, 234-5Z, and 291-Z (other project critical path work). Once the buildings are closer to being ready for demo and the resources are available, demolition of 236-Z will begin. In addition, the delay in progress on discrete ready for demolition activities in 234-5Z is due to resources focusing on preparing the 236-Z facility for demolition in late September. Causes for delay are increased characterization efforts for safeguards termination issues, impacts from a contamination event resulting from a false criticality alarm during preventive maintenance activities, and cleanup of a contamination event in 234-5Z, room 264.

CM Cost Variance: (-\$6.6M/-167.3%)

The current month unfavorable cost variance is largely due to upset conditions in process vacuum removal. Contamination issues associated with process vacuum removal caused delays and additional unplanned mitigation activities. During pipe breaching, contamination was found in room 264 of the duct level. Cleanup costs and recovery actions led to charges with no planned performance. Asbestos abatement is also contributing to the variance as interference removal is proving to be more difficult than planned. Electrical isolations are required to open up wall access to the asbestos material resulting in increased labor charges. Characterization is also contributing to the variance as the unplanned asbestos sampling and radiological room counts are taking longer than expected. The variance is also caused by additional D&D workers and field work supervisors finalizing training and assimilation with field work. In addition, subcontracted labor support costs are higher than planned due to extension of the end date of min-safe and maintenance work as a result of impacts from delays of D&D ready for demolition discrete work scope being behind schedule. This also results in additional costs for consumable materials and more PPE (PAPRs, SCBA, etc.) to support implementation of more stringent radiological controls requirements.

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	951.8	900.6	924.2	(51.1)	-5.4%	(23.6)	-2.6%	978.9	1,034.3	(55.3)

Numbers are rounded to the nearest \$0.1 million

CTD Schedule Variance (-\$51.1M/-5.4%)

The CTD schedule variance relates to the progress on discrete D&D work scope (apportioned). Re-sequencing of D&D discrete work to align with availability of D&D workers caused a delay in start of work on 242-Z activities. Also contributing to the variance, the 234-5Z Backside Rooms team was assigned to higher priority work scope associated with unplanned door modifications, which supported the in-situ size reduction efforts on the HC-9B and HA-9A gloveboxes located in 234-5Z. Delays have been caused by Stop Works on discrete D&D work associated with Beryllium, tight fitting masks, demister, weather (heat), PremAire breathing air systems and suits, chemical smells, contamination cleanup efforts as a result of a malfunctioning criticality alarm system, and radiological events. Also, duct level characterization, process vacuum, transfer and drain line teams were previously assigned to perform other critical path work in the 236-Z PRF, 242-Z Americium Facility, and RMA/RMC KPP glovebox removal work efforts. As a result of this realignment of plant priorities and changing approach (area vs. system) to performing work within the balance of 234-5Z, characterization, and process equipment (e.g., ducting, piping, filter box etc.) removal is lagging. In addition, progress on the D&D project management Work Breakdown Structure (WBS) element is apportioned to the discrete D&D work scope and contributes to this variance. Impacts have also been recognized resulting from a chemical reaction when working on the PRF canyon floor cleanup efforts, failure of the PRF Canyon Crane, increased characterization efforts for safeguards termination issues, impacts from a contamination event resulting from a false criticality alarm during preventive maintenance activities, and cleanup of a contamination event in 234-5Z, room 264. This is partially offset by completion of E4 characterization and scope avoidance of room characterization is also offsetting some of the unfavorable variance.

CTD Cost Variance (-\$23.6M/-2.6%)

The Cost Variance is within reporting thresholds.

Variance at Completion (-\$55.3M/-5.7%)

The Variance at Completion unfavorable variance is reflective of previous inability to achieve 20 percent increased efficiency associated with time on respirator as assumed in the baseline plan. The Collective Bargaining Agreement was accepted and recognized efficiencies are continuing to be recognized with more time on mask and implementation of the value engineering initiatives associated with high mass gloveboxes and grouting. The variance at completion is reflective of PFP's current projected date to reach slab on grade no later than September 30, 2017.

Contract Performance Report Formats are provided in Appendix A.

FUNDS vs. SPEND FORECAST (\$M)

WBS 011/RL-0011 Nuclear Matl Stab & Disp PFP	FY2016		
	Projected Funding	Spending Forecast	Spend Variance
Spending Forecast	110.7	106.7	4.0
Incremental Scope Pending Change Management	0	0	0
RL-0011 - Total	110.7	106.7	4.0

Numbers are rounded to the nearest \$0.1 million

Funds/Variance Analysis

FY2016 expected funding for RL-0011 remained steady at \$110.7 million. The FYSF for July decreased from \$108.2 million to \$106.7 million, due to labor underrun in July and realignment of full-time equivalents (FTE) with actual trend for the remainder of the year.

Critical Path Schedule

The PFP Critical Schedule Path is a resource driven float path, in which the critical path starts with the size reduction of the Pencil Tanks associated with glovebox HC-6. This leads to removal of 26 inch process vacuum lines and various process equipment removals in the Duct level of 234-5Z. Once this is complete, 234-5Z no longer requires Vital Safety Systems and much of the Cold & Dark isolations begin. Once complete, 234-5Z is ready for demolition. Demolition of 234-5Z will occur in the following sequence: 234-5ZA, Frontside, A-Labs, Backside Rooms/PPSL, RMA Process Lines, RMC Process Lines, and the RADTU & Basement areas. Once the 234-5Z and 291-Z facilities have been demolished, the Tri-Party Agreement milestone – M-083-00A - *PFP Facility Transition and Selection Disposition Activities* will have been met.

Baseline Change Requests

BCR-011-16-009R0, *TPA-M-083-00A, PFP Slab on Grade Milestone Change*

BCRA-PRC-016-046R0, *HPIC Updates July 2016*

BCR-PRC-16-047R0, *Reallocation of Fee*

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-083-00A	PFP Facility Transition and Selection Disposition Activities	09/30/17		6/26/17	During the month of July the PFP project gained 29 calendar days to the forecast completion date of the TPA Milestone for the PFP Project to reach Slab on Grade. This was due to modifications to the end point criteria no longer requiring demobilization activities and also renegotiation of the TPA M-083-000A milestone to complete by September 30, 2017. As the PFP Project continues to make progress on the behind schedule critical path work scope being performed, efficiencies will continue to be evaluated and implemented to recover schedule delays.

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)

July 2016
CHPRC-2016-07, 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 continued debris dose mapping and relocation activities in 105KW Basin and performance of several monthly and quarterly routines during the period. In addition, support was provided to Sludge Removal Project (SRP) work by supporting Annex construction and In-Basin Construction activities.
- RL and CHPRC personnel have agreed to draft Performance Measures (PMs) for FY2017 and these PMs have been sent to Department of Energy (DOE) HQ for concurrence. CHPRC is awaiting final verbiage, valuation, and approval from RL.
- Execution of the MASF Preoperational Acceptance Testing (MPAT) continued with base procedure testing activities completed on July 18. With MPAT 95 percent complete, test personnel are now focused on disposition, resolution & closure of open TDRs.
- Completed PM-12-1-16 Relocate NLOP Equipment in T-Plant.
- Continued internal reviews of the draft integrated 105K West Basin Document Safety Analysis (DSA) and Technical Safety Requirement (TSR). Working with operations, engineering and fire protection to finalize TSR wording. Submittal of the safety basis to RL is scheduled for September 2016. It slid from August 30, 2016 to September 15, 2016 due to the complexities of finalizing the DSA/TSRs and getting buy in from Design Authorities and Operations. The formal DSA/TSR must be approved and implemented prior to K Basin Preoperational Acceptance Testing (KPAT) activities that transfer 105KW Basin water out to the 105KW Basin Annex.
- Work continues on structural, thermal, gas generation, containment, and criticality evaluations consistent with the RL approved criteria document for the One-Time Request for Shipment (OTRS).
- 100K operations, engineering, and radcon personnel continue to develop plans to disposition the high dose material in the center bay of 105-K West Basin.
- CHPRC participated in the submittal of the FY2017 PMB Update to RL.

EMS OBJECTIVES AND TARGET STATUS

None currently identified.

TARGET ZERO PERFORMANCE

	CM Quantity	Rolling 12 Month	Comment
Dart Injuries	0	0	N/A
Recordable Injuries	0	2	N/A
First Aids	3	16	<ul style="list-style-type: none"> • 7/05/16 - While loading cords and yellow jackets into the back of a truck, the employee reported a “twinge” and a burning sensation near the belly button. Body part affected: Abdomen (24051) • 7/13/16 - While using a long pool tool to manipulate underwater hoses, employee failed to secure a hose with grasp properly. Pool tool came loose causing it to flex striking the employee’s shoulder and causing an abrasion. Body part affected: Shoulder (24063) • 7/19/16 - While loading an ERDF container, the cover fell into can. Employee reached in to grab the tarp straining the shoulder. Body part affected: Shoulder (24068)
Near Misses	0	0	N/A

KEY ACCOMPLISHMENTS

KW Basin Sludge Retrieval Capital Assesst Project

- ECRTS Process Equipment Procurement:
 - o Procurement Set #2: General Service (GS) Retrieval and Transfer System Components: Task 5/6 - HiLine completed fabrication of Floc Skid replacement spools. Task #8- HiLine completed fabrication of additional pigging hardware. The Pig Insertion Spools have been receipt inspected at Acquisition Verification Services (AVS). Task #13 – HiLine completed fabrication of Radiation Probe Guides for the Sand Filter Enclosure Assemblies and were delivered to Maintenance and Storage Facility (MASF). Task #14 – HiLine completed fabrication of replacement hoses H-301, H-302 & H-100.
 - o Procurement Set #7; 105KW Annex, Stack Monitoring System – CEES/Hi-Q successfully completed in-situ testing of the stack flow and data collection to ensure stack flow characteristics are compliant with ANSI N13.1 requirements and design assumptions.
 - o Procurement Set #8: Sludge Transport and Storage Container (STSC) Vessels – STSCs 406-409 were successfully source inspected by AVS. ABW personnel delivered STSC 406-409 (four vessels) to Richland and these vessels have been shipped to HiLine for installation of appurtenances. Fabrication & testing of vessels 410-413 completed. AVS personnel completed source inspection of vessels 410-413.
 - o Procurement Set #9: SS STSC Assemblies (Instrumentation & Appurtenances) – HiLine personnel completed fabrication of the drain port tools. HiLine personnel completed installing instrumentation and appurtenances on STSC 402 & 403 and tested fill and decant functions.

During testing of STSC 402, personnel noted indication of rust (iron surface contamination) on the internal wall of the vessel. A CHPRC Nonconformance Report (NCR) was generated to document the condition and the STSC Vessel Manufacturer (ABW Technologies) was notified. CHPRC initiated NCR-CHPRC-2016-00000590 and NCR-CHPRC-2016-00000592, respectively. CHPRC has placed acceptance of the final data packages and delivery of STSC 410-413 on hold pending resolution of the aforementioned NCRs.

- **MPAT Execution:**
 - o Completed base procedure testing activities. Testing team now focused on disposition, resolution, and closure of open Testing Deficiency Reports (TDRs).
 - o Provided simulant transfer demolition for CHPRC Senior Management, RL and Defense Nuclear Facilities Safety Board (DNFSB) Site Representative.
 - o Completed Final STSC fill, hose disconnects and STSC Hose-in-Hose line drying.
- **KW Annex Construction:**
 - o Completed the installation of the remaining safety signification/seismic hangers for the fire protection piping system.
 - o Completed formwork and rebar for Nitrogen Ramp.
 - o Completed placement of the asphalt approach.
 - o Placed concrete for Nitrogen Ramp and P10 slab.
- o Completed the final alarm programming for the Heating, Ventilation, and Air Conditioning (HVAC) system.
- **In Basin Modifications Construction:**
 - o Grouted three of the five transfer bay spill berms.
 - o Completed installation of Booster Pump rail system.
- o Completed structural and grating modification in support of the Engineered Container Retrieval and Transfer System (ECRTS) process equipment installation.
 - o Completed installation of final flashing, trim and bellow to seal up HIH to Door 148.

T Plant Modifications for Sludge Storage Project

- o Completed PM-12-1-16 Relocate NLOP Equipment in T-Plant.
- o Loaded and staged the 14R levelling frame, containment, and interconnecting accessories on the Canyon deck.
- o Loaded the 8R levelling frame and containment on the Radiologically Controlled Vehicles (RCV) trailer and transported the equipment into the T-Plant tunnel.

MAJOR ISSUES

Issue:

The T-Plant Crane “jog-switch”, which provides the interface control to the remote operated impact wrench, was found to be inoperable. Replacement parts have been ordered and repair is scheduled for August 18. As a result, the final positioning of the 14R or 8R levelling frame and containment/leak detection installation will slip 3-4 weeks.

Corrective Action:

Complete trouble shooting and repair Crane “jog-switch”. In parallel, construction has initiated discussion with the General Contractor to determine if it is feasible to deploy craft to other work for a period of at least 2-3 weeks (i.e., while crane is being repaired).

Status:

Risk of schedule delay and associated delay cost are certain. Actions to mitigate cost impacts are in progress.

Issue:

On July 21, functional testing of instrumentation installed on STSC 402 at the HiLine Engineering and Fabrication Services facility inadvertently led to the identification of free iron contamination of STSC 402 internal surfaces. Subsequent testing of STSC 403 identified free iron contamination in that vessel as well, although to a much lesser extent.

Corrective Action:

NCRs were initiated to identify this nonconforming condition in STSC 402 & STSC 403. Interim corrective actions are in process with final corrective actions outstanding. ABW Technologies, Inc. was notified and instructed to perform free iron testing of all twelve STSCs fabricated in FY2016 (first production run).

Status:

- o STSC 410-413 are being tested and cleaned, as appropriate in Arlington, WA (ABW Fab Shop).
- o STSC 404-408 were shipped back to Arlington, WA for testing/cleaning, as appropriate.
- o STSC 404-403 remain at HiLine (with instrumentation/appurtenances installed) and will be tested/cleaned by HiLine due to the difficulty/expense of returning these vessels to Arlington, WA.
- o STSC 409 remains at HiLine but will be returned to Arlington, WA in late August or early September.
- o CHPRC & ABW Technologies, Inc. personnel continue to investigate and eliminate the source of iron contamination.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

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

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

Risk Title	Unmitigated Risk Impacts	Assessment		Comments																																
		Month	Trend																																	
RL-0012/WBS-012																																				
Explanation of major changes to the project monthly spotlight chart: No major changes to the monthly spotlight chart in the month of July.																																				
Realized Risks (Risks that are currently impacting project cost/schedule)																																				
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. Risk Handling Strategy: Accept Probability: Medium (26% to 74%) Worst Case Impacts: \$912K, 64 days	●	↑	Risk Event: The project realized additional cost and schedule impacts in July as a result of the construction review of DCN 391, which indicated the Nitrogen and P10 bottles require weather enclosure for bottle storage (DCN-445). Other DCNs identified in the engineering action list are being developed including but not limited to: Prepare Signage Schedule (DCN-209); Release Shielding Calculations and KW Modified Annex ALARA Design Review Checklist (DCN-068), Radcon related missing design-Add P-10 Gas Lines to Annex (DCN-391), Shield Cave Mounting (DCN-422), and Changes to I&C Drawing Updates (DCN-405). The project continues to evaluate the DCNs and the impacts to the project. A BCR requesting a MR drawdown is projected prior to the end of FY2016. <table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 10px;"> <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>Provide weather protection for Annex Nitrogen Bottle station (DCN-445)</td> <td style="text-align: center;">6/16/16</td> <td style="text-align: center;">8/31/16</td> <td style="text-align: center;">50</td> </tr> <tr> <td>Add Hose & Valve installation at transfer box air system (Mitigation of long lead item impact by awarding procurement released to FFP under Release #2) (DCN-410)</td> <td style="text-align: center;">12/16/15</td> <td style="text-align: center;">10/1/16</td> <td style="text-align: center;">25</td> </tr> <tr> <td>Prepare Signage Schedule (DCN-209)</td> <td style="text-align: center;">4/4/16</td> <td style="text-align: center;">Complete</td> <td style="text-align: center;">100</td> </tr> <tr> <td>Release Shielding Calculations and KW Modified Annex ALARA Design Review Checklist (068)</td> <td style="text-align: center;">12/16/12</td> <td style="text-align: center;">9/29/16</td> <td style="text-align: center;">80</td> </tr> <tr> <td>Add P-10 Gas Lines to Annex (DCN-391), Status on 6/23 w/CDC pending full size dwg signature.</td> <td style="text-align: center;">1/4/16</td> <td style="text-align: center;">Complete</td> <td style="text-align: center;">100</td> </tr> <tr> <td>Shield Cave Mounting (DCN-422)</td> <td style="text-align: center;">3/23/16</td> <td style="text-align: center;">Complete</td> <td style="text-align: center;">100</td> </tr> <tr> <td>I&C Drawing Updates (DCN - 405)</td> <td style="text-align: center;">2/8/16</td> <td style="text-align: center;">8/31/16</td> <td style="text-align: center;">50</td> </tr> </tbody> </table> Recovery Action Assessment: DCNs are identified and reviewed at the weekly engineering meeting to define a path forward for the pending changes. The majority of the DCNs identified to-date are expected to be cleared by August month end. Delays to DCN completion are due to the lack of scope definition for the initial recovery action and priorities and commitments Engineering and other support resources. During the weekly engineering meetings, the project identifies and reviews DCNs and define a path forward for the pending changes. A Title III Engineering manager has been hired to coordinate the design changes with the construction group. Mitigation actions are in place that are expected to reduce the probability of the risk occurrence and reduces the potential cost and schedule impacts. Additionally, the risk will continue to be monitored. No additional mitigation actions have been identified at this time.	Risk recovery action(s)	Risk Date	FC Date	%	Provide weather protection for Annex Nitrogen Bottle station (DCN-445)	6/16/16	8/31/16	50	Add Hose & Valve installation at transfer box air system (Mitigation of long lead item impact by awarding procurement released to FFP under Release #2) (DCN-410)	12/16/15	10/1/16	25	Prepare Signage Schedule (DCN-209)	4/4/16	Complete	100	Release Shielding Calculations and KW Modified Annex ALARA Design Review Checklist (068)	12/16/12	9/29/16	80	Add P-10 Gas Lines to Annex (DCN-391), Status on 6/23 w/CDC pending full size dwg signature.	1/4/16	Complete	100	Shield Cave Mounting (DCN-422)	3/23/16	Complete	100	I&C Drawing Updates (DCN - 405)	2/8/16	8/31/16	50
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Risk Title	Unmitigated Risk Impacts	Assessment		Comments												
		Month	Trend													
RL-0012/WBS-012																
STP-111-B: Contractor/ Subcontractor Performance - ECRTS Annex/In-Basin Equip. Installation	<p>The General Conditions 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.</p> <p>Risk Handling Strategy: Control</p> <p>Probability: Very Likely (> 90%)</p> <p>Worst Case Impacts: \$792K, 96 days</p>	●	↔	<p>Risk Event: The project began to experience contractor delay due to inadequate general conditions staffing. There has been a delay in timely receipt of Change Order Proposals Invoices and Accrual data. Bi-weekly notes regarding these issues are being sent to the contractor via CHPRC Contracts Department. Finding a backup for the contractor’s high risk Field Work Supervisor (single point failure) continues to be an issue.</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>Address issue associated with CR-2016-1246, working outside work package scope.</td> <td>6/16/16</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Contractor delays due to inadequate staffing/mobilization. Will work with contractor to stabilize work resource planning.</td> <td>5/17/16</td> <td>Ongoing</td> <td>NA</td> </tr> </tbody> </table> <p>Recovery Action Assessment: This is a reoccurring risks relating to the performance of the General Conditions Contractor and their supporting subcontractors. The CHPRC project team continues to work with their subcontractors to ensure the contractors are thoroughly aware of their project responsibilities and have the opportunity to complete their project scope successfully. Mitigation actions are in place that are expected to reduce the probability of the risk occurrence and reduce the potential cost and schedule impact, and the risk will continue to be monitored. No additional mitigation actions have been identified at this time.</p>	Risk recovery action(s)	Risk Date	FC Date	%	Address issue associated with CR-2016-1246, working outside work package scope.	6/16/16	Complete	100	Contractor delays due to inadequate staffing/mobilization. Will work with contractor to stabilize work resource planning.	5/17/16	Ongoing	NA
Risk recovery action(s)	Risk Date	FC Date	%													
Address issue associated with CR-2016-1246, working outside work package scope.	6/16/16	Complete	100													
Contractor delays due to inadequate staffing/mobilization. Will work with contractor to stabilize work resource planning.	5/17/16	Ongoing	NA													
STP-144: Baseline strategy agreed to by RL and CHPRC on Transportation Safety documentation requirements for moving STSCs from the 105K West Basin to T-Plant storage is changed.	<p>Revision to the Transportation Safety strategy (Site Requirements, Processes and Procedures) regarding shipment of STP STSCs from the 100K area Equip to T-Plant for interim storage could delay RL approval to commence operations.</p> <p>Risk Handling Strategy: Control</p> <p>Probability: Very Likely (>90%)</p> <p>Worst Case Impacts: \$2 million, 256 days</p>	●	↔	<p>Risk Event: This risk has been realized. The new RL Transportation Safety Manager and the CHPRC Transportation Safety Manager have agreed to a Transportation Strategy that utilizes an OTRS.</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>Update schedule baseline to reflect agreed upon Strategy moving forward.</td> <td>2/25/16</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Prepare and submit BCR for additional work scope</td> <td>7/31/16</td> <td>9/30/16</td> <td>5</td> </tr> </tbody> </table> <p>Recovery Action Assessment: CHPRC has updated the project schedule and completed a cost estimate for this work scope to accommodate the new transportation strategy. A BCR is in development to address the additional scope and will be processed by the end of the fiscal year.</p>	Risk recovery action(s)	Risk Date	FC Date	%	Update schedule baseline to reflect agreed upon Strategy moving forward.	2/25/16	Complete	100	Prepare and submit BCR for additional work scope	7/31/16	9/30/16	5
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Risk Title	Unmitigated Risk Impacts	Assessment		Comments																					
		Month	Trend																						
RL-0012/WBS-012																									
STP-103-M: MASF Pre-Operational Acceptance Testing (MPAT)	<p>The ECRS equipment does not operate as expected, requiring increased engineering & MASF Testing Staff Support. This will require design modifications of production hardware and changes to control system software. These modifications will negatively impacts downstream testing, construction, readiness and ECRS Operations.</p> <p>Risk Handling Strategy: Control</p> <p>Probability: Low (10% to 25%)</p> <p>Worst Case Impacts: \$500K, 60 days</p>	●	↑	<p>Risk Event: This risk has been realized. During the month of May, the second Transfer System Instrument Spool failed.</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>Procure 4 Operationally sound Transfer System Instrument Loops after corrective actions are fully implemented.</td> <td>5/31/16</td> <td>8/31/16</td> <td>50</td> </tr> <tr> <td>Ensure all project technical personnel are available to mitigate emergent technical challenges and establish proactive solutions.</td> <td>5/31/16</td> <td>Ongoing</td> <td>90</td> </tr> </tbody> </table> <p>Recovery Action Assessment: Although the initial Transfer System Instrument Spool failure was considered “infant mortality”, this second failure indicates that a systemic flaw likely exists in the assembly and the instrument manufacturer has been contacted to determine cause of failure and corrective action. A “test article” Transfer System Instrument Spool and a “spare” production Transfer System Instrument Spool are now installed and are allowing the MPAT Test to proceed. While only two days have been lost to project critical path, MPAT Testing continues and the risk of experiencing additional failures exists. The Contractor was required to complete an equipment failure causal analysis, which took longer than anticipated delaying the procurement of the new equipment. While there are now over 159 TDRs, many associated with equipment operating anomalies and a number of design changes to existing configuration, the technical staff has been successful to date in addressing the balance of the challenges without impacting MPAT test duration or cost. Currently 118 of the TDRs have been closed. The mitigation strategies were put in place, but a recovery action was added to pursue instrument failure analysis aggressively and corrective action implementation. As a result, the risk strategy has been changed to control.</p>	Risk recovery action(s)	Risk Date	FC Date	%	Procure 4 Operationally sound Transfer System Instrument Loops after corrective actions are fully implemented.	5/31/16	8/31/16	50	Ensure all project technical personnel are available to mitigate emergent technical challenges and establish proactive solutions.	5/31/16	Ongoing	90									
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Ensure all project technical personnel are available to mitigate emergent technical challenges and establish proactive solutions.	5/31/16	Ongoing	90																						
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)																									
No critical risks identified in the month of July.																									
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)																									
FY2017 Risk Triggers (Risk could be realized in FY2017)																									
STP-103: K Basin Pre-Operational Acceptance Testing (KPAT) & ECRS Startup	<p>The ECRS equipment does not operate as expected requiring increased engineering, startup, operations, and construction Firm Fixed Price contractor support; as well as equipment replacement, procurement, and retesting. Realization of this risk would also require additional training, procedure revision, and design modifications as a result of construction testing and/or Lines of Inquiry for Readiness Review resulting in cost impacts and schedule delays.</p> <p>Risk Handling Strategy: Control</p> <p>Probability: Medium (26% to 74%)</p> <p>Worst Case Impacts: \$4.5 million, 90 days</p>	●	↔	<p>Risk Trigger:</p> <ol style="list-style-type: none"> The ECRS equipment does not operate as expected. Unexpected attrition of critical testing personnel. <table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Conduct Full-scale testing of production hardware at MASF prior to installation at K-Basin to avoid costly replacement of malfunctioning equipment during Hot Startup.</td> <td>7/31/16</td> <td>0</td> </tr> <tr> <td>Develop and refine procedures based upon feedback from testing and operations personnel.</td> <td>TBD</td> <td>0</td> </tr> <tr> <td>Any Challenges identified at MASF will be resolved prior to completion of cold commissioning. (forecast for July 2016)</td> <td>On-going</td> <td>0</td> </tr> <tr> <td>Develop streamline strategy (work packages and procedures) to perform in-basin/annex integrated testing and troubleshooting.</td> <td>9/30/16</td> <td>0</td> </tr> <tr> <td>Utilize Overtime to offset schedule impacts.</td> <td>As Needed</td> <td>N/A</td> </tr> <tr> <td>Closely monitor employee satisfaction and consider employee incentive to retain key test personnel.</td> <td>As Needed</td> <td>N/A</td> </tr> </tbody> </table> <p>Mitigation Assessment: No changes in the month of July. Forecasted mitigation dates are consistent with overall STP critical path schedule.</p>	Mitigation action(s)	FC Date	%	Conduct Full-scale testing of production hardware at MASF prior to installation at K-Basin to avoid costly replacement of malfunctioning equipment during Hot Startup.	7/31/16	0	Develop and refine procedures based upon feedback from testing and operations personnel.	TBD	0	Any Challenges identified at MASF will be resolved prior to completion of cold commissioning. (forecast for July 2016)	On-going	0	Develop streamline strategy (work packages and procedures) to perform in-basin/annex integrated testing and troubleshooting.	9/30/16	0	Utilize Overtime to offset schedule impacts.	As Needed	N/A	Closely monitor employee satisfaction and consider employee incentive to retain key test personnel.	As Needed	N/A
Mitigation action(s)	FC Date	%																							
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FY2018 Risk Triggers (Risk could be realized in FY2018)																									

Risk Title	Unmitigated Risk Impacts	Assessment		Comments									
		Month	Trend										
RL-0012/WBS-012													
STP-018-O: STP Operational Upset or Spill - During 1st STSC	An operational upset or spill results in a work shutdown at K Basins, resulting in schedule delays. Risk Handling Strategy: Control Probability: Medium (26% to 74%) Worst Case Impacts: \$1.3 million, 96 days	●	↔	<p>Risk Trigger: 1) An operational upset or spill results in work shutdown at K Basin. This risk 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 rigorous startup testing following system installation at the 105KW Basin and Annex.</td> <td>10/11/17</td> <td>0</td> </tr> <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>Ongoing</td> <td>N/A</td> </tr> </tbody> </table> <p>Mitigation Assessment: No changes in the month of July. Forecasted mitigation dates are consistent with overall STP critical path schedule. Training and procedure development will continue into FY2018. It will complete prior to completion of management self-assessment affidavits in December 2017.</p>	Mitigation action(s)	FC Date	%	Conduct rigorous startup testing following system installation at the 105KW Basin and Annex.	10/11/17	0	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.	Ongoing	N/A
Mitigation action(s)	FC Date	%											
Conduct rigorous startup testing following system installation at the 105KW Basin and Annex.	10/11/17	0											
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.	Ongoing	N/A											
STP-073-C: Processing Efficiency - Retrieval & Shipping, During 1st STSC	The realized processing efficiency associated with sludge retrieval and shipping operations does not match baseline plan. Risk Handling Strategy: Accept Probability: Low (10% to 25%) Worst Case Impacts: \$0K, 8 days	●	↔	<p>Risk Trigger: 1) Actual processing efficiency associated with sludge retrieval and shipping operations does not match baseline assumptions. This risk will commence in FY2018 beginning with operations campaign.</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: No changes in the month of July. 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	%	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 threats/opportunities)													
CHPRC proposed five risks that are outside of CHPRC's ability to manage and, as such, should be re-assigned to RL (STP-011D, STP-018, STP-073, STP-073-A, and STP-073-B). The proposal was not accepted by RL, stating, "...the opportunities and threats appear to be under the control of CHPRC to manage." CHPRC is preparing letter CHPRC-1602146 R1 to respond to DOE RL's rejection letter.													

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	8.6	7.8	6.5	(0.8)	-8.8%	1.3	17.0%

Numbers are rounded to the nearest \$0.1 million

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

Relidding work scope was completed earlier this fiscal year. BCWS is still being recognized for this scope. In addition, performance was over stated in a prior month for In-Basin Equipment Install. The negative schedule this month is a partial correction of this error.

CM Cost Performance (+\$1.3M/+17.0%)

The positive cost variance associated with this account is due to reduced requirements for oversight in Project Management, engineering support to Annex/Basin equipment installation, and support to equipment procurements, which are all level of effort. In addition, significant progress is being achieved in development of training materials and procedures utilizing existing staff. All work is being completed with existing resources; however, the project is working to staff this scope at baseline levels.

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	606.7	608.6	584.4	1.9	0.3%	24.2	4.0%	738.4	717.0	21.5

Numbers are rounded to the nearest \$0.1 million

CTD Schedule Performance (+\$1.9M/+0.3%)

The variance is within reporting thresholds.

CTD Cost Performance (+\$24.2M/+4.0%)

The variance is within reporting thresholds.

Variance at Completion (+\$21.5M/+2.9%)

The variance is within reporting thresholds.

Contract Performance Report Formats are provided in Appendix A.

FUNDS vs. SPEND FORECAST (\$M)

RL-0012 Spent Nuclear Fuel Stabilization and Disposition	FY2016		
	Projected Funding	Spending Forecast	Spend Variance
Expense - Spending Forecast	53.0	44.7	8.3
Incremental Scope Pending Change Management	0.0	0.2	(0.2)
Expense - Subtotal	53.0	44.9	8.1
Line Item	68.1	30.1	38.0
Incremental Scope Pending Change Management	0.0	0.2	(0.2)
LI -Subtotal	68.1	30.2	37.9
RL-0012 – Total	121.1	75.1	45.9

Numbers are rounded to the nearest \$0.1 million.

Funds/Variance Analysis

FY2016 projected funding for RL-0012 is \$121.1 million. The Line Item funding for the Sludge Treatment Project (STP) Capital Asset Project (CAP) project has been assigned for FY2016 and FY2017 work scope, thus causing a positive variance in FY2016.

Critical Path Schedule

The critical path flows through performance of the MPAT at MASF (completed in July), disconnect and transfer the process equipment to 100K, installation of process equipment in the 105K West Basin/Annex, KPAT of the process equipment, readiness activities, and finally, containerized sludge retrieval operations. Retrieval operations include the filling of STSCs with sludge and transferring them to T Plant, completing Tri-Party Agreement milestone M-016-176, *Complete Sludge Removal from 105-KW Fuels Storage Basin* is outside contract period in FY2019.

Baseline Change Requests

BCR-012C-16-026R0, *Align 15-D-401 KW Basin Sludge Removal Project Fee to the Project Execution Plan*

BCR-PRC-16-047R0, *Reallocation of Fee*

BCRA-PRC-16-046R0, *HPIC Updates July 2016*

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 the Tri-Party Agreement milestones within the CHPRC contract period (September 30, 2018).

Number	Title	Due Date	Actual Date	Forecast Date	Status/ Comment
M-016-175	Begin Sludge Removal from 105KW Fuel Storage Basin.	9/30/2018		8/27/2018	The forecast date includes schedule margin from the project's risk analysis. No additional schedule margin applied during fiscal month July.
M-016-177	Complete installation of sludge transfer equipment in K West Reactor facilities	9/30/2017		6/01/2017	The forecast date does not include schedule margin.

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)

July 2016
CHPRC-2016-07, 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. A second visual inspection took place at the WESF Stabilization and Ventilation Project (W-130). Implemented Recovery Plan for W-130; tropical shift, RCT staff have been added and a 6 days a week work schedule. The annual update of the M-091 PM plan was submitted to Ecology. Completed CWC lighting replacements for 2403 series buildings.

EMS Objectives and Target Status

Objective #	Objective	Target	Due Date	Status
16-EMS-WFMP-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	100%
16-EMS-WFMP-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	80%
16-EMS-WFMP-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	70%

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	1	19*	<ul style="list-style-type: none"> 7/21/2016 - Worker was working under a 30/30 work/rest regiment with IH keeping time. Worker doffed PPE, exited the work area at 30 minutes and came into 225B/104 to cool off. After drinking water and trying to cool off the employee did not feel like the body was cooling off. The Shift Operations Manager (SOM) reported that the employee was not cooling off and skin was dry. 911 was called and upon arrival transported employee to the hospital for evaluation. (24072) <p>*3 First Aid cases, PTS in support of RL-0013.</p>
Near Misses	0	1	N/A

KEY ACCOMPLISHMENTS

13.01 Project Management

- o The annual update of the M-091 Project Management plan was submitted to Ecology (TPA Milestone M-091-03).

13.02 Capsule Storage & Disposition

- o Surveillances/PMs:
 - 37 Preventive Maintenance work packages.

a. Capsule Extended Storage Project:

- o Performed/Completed:
 - The Technical Evaluation of the Best and Final Offer (BAFO) responses and cost proposals. The Award Recommendation Report is being drafted.

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

- o Performed/Completed:
 - Removal of old K3 fan motors.
 - Fabrication of mockup of K2N “pant leg” duct.
 - Initiation of ventilation outage.
 - A Cell and G Cell High-efficiency Particulate Air Filter (HEPA) Head Removal.
 - Installation of permanent power.
 - Pre-outage duct installation.
 - Installation and testing of above ground fire system piping.
 - Core drilling into hot pipe trench.

13.03 Canister Storage Building (CSB)

- o Performed/Completed:
 - Repair of the Fire Water Pumps.
 - CSB Drainage Trench Cleanout.
- o Surveillances/PMs:
 - 19 PM packages.

13.06 TRU Repackaging

- o TRUM waste completed and returned fiscal year to date – 407 m3.
- o Shipments:
 - Three waste boxes from CWC to Perma-Fix (PFNW) for repack.

13.07 WRAP

- o Performed/Completed:
 - Repairs to the 2336W supply fan 201A.
- o Surveillances/PMs:
 - 135 Surveillances.
 - 11 PM packages.
- o Shipments Received:
 - 19 drums from PFP to Waste Receiving and Packaging (WRAP) in five shipments.

13.08 T Plant

- o Performed/Completed:
 - Removal of STP NLOP equipment from Canyon to 2706TA.
 - Removed/replaced cover blocks from Cell 9L.
- o Shipments:
 - Five waste drums from T Plant to PFNW in one shipment.
- o Surveillances/PMs:
 - 576 Surveillances.
 - 27 PM packages.

13.09 CWC and Low Level Burial Grounds (LLBG)

- o Performed/Completed:
 - Transfer of the Super 7A from old TEREX trailer to new Load King Trailer.
 - Replaced two box covers and 10 additional box covers repaired in Outside Storage Area.
 - Roof Repair in 2402 Series building and continued with repairs on 2403-WB.
 - Floor repairs at 2402-WK.
 - Continued re-lamping activities for outside lights on CWC waste storage buildings.
 - CWC lighting replacements for 2403 series building.
- o Surveillances/PMs:
 - 13 PM packages.
 - 352 Surveillances.
- o Shipments Received:
 - 42 drums and 14 waste boxes from PFP to CWC in five shipments.

13.12 Integrated Disposal Facility

- o Completed monthly inspections.

13.14 Solid Waste Base Operations

- o Environmental Enhancement:
 - Automated Resource Conservation and Recovery Act of 1976 (RCRA) Inspection sheets CWC:
 - Continue software configuration.
 - SWOC:
 - Incorporating new comments to CWC inspection procedure.

13.16 Off Site Spent Nuclear Fuel Disposition

- o Maintained coordination for offsite Spent Nuclear Fuel Disposition.

13.21 Mixed Waste Disposal Trenches (MWT)

- o Surveillances/PMs:
 - 182 Surveillances.
- o Shipments Received:
 - 13 waste drums and ten waste boxes from PFNW East to MWT in three shipments.

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).

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 Washington State Department of Health (WDOH) were notified of the situation. Options to rectify the situation were evaluated. WDOH prefers an engineering evaluation by PNNL to justify use of flow rates less than 9,000 CFM, which the facility has predominately maintained since start up. This will also provide defensibility for past emission data. Engineering provided information to PNNL to support this evaluation. Following successful completion of the engineering evaluation, CHPRC/RL will submit a Notice of Construction (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 as well as data from other similar stacks. A contract was awarded to PNNL on July 29, 2015. PNNL supplied preliminary information on September 28, 2015, providing a basis for an expanded flow range. A meeting with RL and WDOH was held October 8, 2015 to present this preliminary data. On October 22, 2015 cleared copies were provided to WDOH for review. WDOH provided positive feedback on the PNNL presentation; but wanted one of six original tests to be re-performed at lower flow rates to validate the PNNL statistical analysis, which used test results from similar stacks for comparison. RL contractual approval was provided April 19, 2016 for the planning and conduct of the flow testing desired by WDOH. Work package planning has been completed. Field work is expected to begin first week in August 2016.

Issue:

On May 11, 2016, during the routine sampling of mechanically sealed Multi-Canister Overpack (MCO) H-176, the internal gas pressure was determined to be less than required per Process Standard 331-PS-610. The internal pressure represented a 10-year leak rate in excess of the assumed value utilized in the CSB Safety Basis. By procedure the MCO was backfilled with high purity (99.96 percent) Helium. On May 18, 2016, CSB entered into the Potential Inadequacy in the Safety Analysis (PISA) process. On May 26, 2016, an operability evaluation was issued, and the Fuels Facilities (FF) Plant Review Committee (PRC) determined that a positive Unreviewed Safety Question (USQ) exists. Occurrence report EM-RL-CPRC-CSB-2016-0001, *Positive Unreviewed Safety Question Related to MCO H-176 Observed Pressure Decrease* was initiated for:

3B (1) (SC-2) - Determination of a positive USQ that reveals a currently existing inadequacy in the documented safety analysis.

4A(1) (SC-3) - Performance degradation of any Safety Class (SC) or Safety Significant (SS) Structure, System, or Component (SSC), or any support system that is required for safety operation of the SC or SS SSCs, which prevents satisfactory performance of its design function when it is required to be operable.

Corrective Action:

On May 18, 2016, when the PISA process was initiated, a CSB Timely Order was issued to prevent movement of MCO H-176 from Sample/Weld Pit #7.

On May 26, 2016, the FF PRC implemented compensatory actions for ensuring that MCO H-176 remains pressurized with an effectively pure inert gas to compensate for excessive MCO leakage. It will also avoid conditions (pressure inducing chemical reactions within the MCO) that may challenge the MCO pressure rating. The following actions were directed:

- A. Leave MCO H-176 in its current location (Sample/Weld Pit #7).
- B. Monitor, on a periodicity determined by Engineering, MCO H-176 temperature and pressure as displayed on the MCO shield plug gauges.

- C. As conditions may require, sample and re-fill MCO H-176 to maintain inert gas pressures within the range specified in process standard PS-610.

On June 23, 2016, an Evaluation of Safety of the Situation (ESS) on MCO H-176 was transmitted to RL. It concluded that MCO H-176 in its current condition is safe and that CSB, through implementation of three compensatory measures listed above, is in a safe configuration. CSB revised the initial Timely Order to implement the three compensatory measures until a safety basis change/revision has been approved by RL.

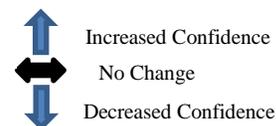
Status:

At the present time there are several possible explanations that require investigation to establish the likely cause for the apparent drop in pressure. This has required extensive research into the safety basis and design documents for the MCOs, additional engineering analysis, and discussions with others who were involved with the MCO design, initial manufacturing and testing. Given the resources available the timeline proposed by Engineering is to complete their investigation by August 31, 2016. After completion on September 29, 2016, the occurrence report will be finalized and additional corrective actions determined.

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 July.																					
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"> <thead> <tr> <th>Risk recovery action(s)</th> <th>Risk Date</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Perform daily/weekly waste container surveillances to identify container abnormalities.</td> <td rowspan="4" style="text-align: center;">11/01/11</td> <td>On-Going</td> <td>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>On-Going</td> <td>N/A</td> </tr> <tr> <td>Overpack degraded waste packages.</td> <td>09/30/2016</td> <td>0</td> </tr> <tr> <td>Process waste packages at a rate funded by RL.</td> <td>On-Going</td> <td>N/A</td> </tr> </tbody> </table> <p>Recovery Action Assessment: Project continued to perform container surveillances in the month of July to identify container and container cover abnormalities. Overpack of 25 drum waste packages are scheduled to begin August 18, 2016 and complete prior to September 30, 2016. RL has authorized the overpack of an additional 50 drums in FY2016. The project will perform the overpack for Storage box 75DMA16F3, with a subsequent move into 2403WD, once resources become available. The remaining containers will continue to require surveillance and continue enhanced monitoring. A letter is being drafted to request contract direction from RL regarding the definition of a satisfactory container when corrosion is evident. At this time it is undetermined on the timeframe to reach a conclusion.</p>	Risk recovery action(s)	Risk Date	FC Date	%	Perform daily/weekly waste container surveillances to identify container abnormalities.	11/01/11	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.	09/30/2016	0	Process waste packages at a rate funded by RL.	On-Going	N/A
Risk recovery action(s)	Risk Date	FC Date	%																		
Perform daily/weekly waste container surveillances to identify container abnormalities.	11/01/11	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.		09/30/2016	0																		
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-W130-17: Changes in the final design are needed after the design is issued	<p>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.</p> <p>Risk Handling Strategy: Control</p> <p>Probability: Likely (75% to 90%)</p> <p>Worst Case Impacts: \$550K, 112 days</p>	●	↑	<p>Risk Event: Risk was realized when additional reviews of design media and K3N ventilation skid as-built conditions were analyzed during writing of test and operating procedures. Four separate issues have led to the realization of this risk:</p> <ol style="list-style-type: none"> 1) Changes in fire suppression system design are necessary to allow leak testing of the full system due to limitations in the existing skid design. 2) K3N skid requires modifications to ensure proper operation at WESF. 3) Hot cell penetration sealing requires more work than planned. 4) Communication between hot pipe trench in WESF and B Plant causes grout to flow into B Plant during trench grouting. <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">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>Place localized stiff grout mix in hot pipe trench at interface point to B Plant to block grout from flowing into B Plant during trench grouting.</td> <td style="text-align: center;">02/01/16</td> <td style="text-align: center;">9/15/16</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Prioritize completion of hot cell penetration sealing required for core drilling between hot cell walls first to mitigate schedule impacts</td> <td></td> <td style="text-align: center;">8/30/16</td> <td style="text-align: center;">41</td> </tr> </tbody> </table> <p>Recovery Action Assessment: Work to isolate and seal all penetrations in the service and operations galleries is in progress. Penetrations that run through the hot cell walls and are required to be completed prior to core drilling vertically through hot cell walls have been prioritized to be completed first. A stiff grout mix placement at the interface location between WESF and B Plant in the hot pipe trench has been planned.</p>	Risk recovery action(s)	Risk Date	FC Date	%	Place localized stiff grout mix in hot pipe trench at interface point to B Plant to block grout from flowing into B Plant during trench grouting.	02/01/16	9/15/16	0	Prioritize completion of hot cell penetration sealing required for core drilling between hot cell walls first to mitigate schedule impacts		8/30/16	41
Risk recovery action(s)	Risk Date	FC Date	%													
Place localized stiff grout mix in hot pipe trench at interface point to B Plant to block grout from flowing into B Plant during trench grouting.	02/01/16	9/15/16	0													
Prioritize completion of hot cell penetration sealing required for core drilling between hot cell walls first to mitigate schedule impacts		8/30/16	41													
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)																

Risk Title	Unmitigated Risk Impacts	Assessment		Comments								
		Month	Trend									
RL-0013/WBS-013												
WSD-019: MLLW & TRU Treatment Impacts	MLLW & TRU treatment capacity/capability does not meet Hanford needs or treatment does not occur as scheduled, resulting in cost impacts. Risk Handling Strategy: Accept Probability: Very Low (<10%) Worst Case Impacts: \$10 million, 0 day	 		Risk Trigger Metric: Will continue throughout contract (September 30, 2018).								
				<table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Established multiple treatment contracts for the processing of MLLW and TRU with terms extending to the end of the current CHPRC contract with RL (i.e., September 30, 2018).</td> <td>On-Going</td> <td>N/A</td> </tr> <tr> <td>Continue to work with RL to fund the processing of TRU waste at PFNW at a rate in which keeps them viable (i.e., keeps the doors open).</td> <td>On-Going</td> <td>N/A</td> </tr> <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>On-Going</td> <td>N/A</td> </tr> </tbody> </table>	Mitigation action(s)	FC Date	%	Established multiple treatment contracts for the processing of MLLW and TRU with terms extending to the end of the current CHPRC contract with RL (i.e., September 30, 2018).	On-Going	N/A	Continue to work with RL to fund the processing of TRU waste at PFNW at a rate in which keeps them viable (i.e., keeps the doors open).	On-Going
Mitigation action(s)	FC Date	%										
Established multiple treatment contracts for the processing of MLLW and TRU with terms extending to the end of the current CHPRC contract with RL (i.e., September 30, 2018).	On-Going	N/A										
Continue to work with RL to fund the processing of TRU waste at PFNW at a rate in which keeps them viable (i.e., keeps the doors open).	On-Going	N/A										
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										
Mitigation Assessment: 1) Two contracts are in place with offsite commercial waste treatment which provide sufficient capability/capacity to meet current MLLW demand through the end of the CHPRC contract term. Only PFNW is provided with current capability to process TRU/M waste. This is due solely on the practical limitations imposed by the need to ship the TRU/M waste via road-closure; therefore, additional commercial providers cannot be obtained. 2) Five additional legacy TRUM waste packages have been authorized for shipment to PFNW this fiscal year with five more waste packages that are awaiting authorization. These ten waste packages total ~200m3 which will maintain PFNW's viability through the end of this fiscal year. Beginning in early FY2017, it is anticipated that PFP will be making direct TRU waste shipments to PFNW during facility demolition. These shipments will provide enough waste to PFNW to keep them viable for all of FY2017 and possibly FY2018. 3) RL's action to authorize and/or fund this action. If the TRUM waste generated from the PRF Canyon floor cleanout (J-Pan waste) requires treatment, it would significantly impact the project's ability to have sufficient treatment capability/capability at PFNW for the processing of Legacy TRUM waste to meet M-091-47C and -47D objectives for FY2017 and FY2018. Current alternative course of action: No changes in the month of July. To minimize potential impacts to PFP, the plan is to send the PRF Canyon Floor waste to CWC for interim storage, and then if required, gradually ship the waste packages to PFNW for processing as license limits permit. However by doing this, RL-0013 will assume the regulatory risk associated with the waste (i.e., more stringent requirements under RCRA at CWC compared to under CERCLA at PFP); additionally, if treatment is required, it will still load up PFNW with respect to their Pu limits for several years which would significantly limit the shipment of other Pu containing waste (i.e., legacy large container TRUM waste) to PFNW for processing.												
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: \$2 million, 33 days	●	↔	<p>Risk Trigger Metric: During planned facility operations activities a suspect system component is discovered that requires attention, or an unexpected malfunction results in this risk 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: No changes in the month of July. 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. Work to repair/replace the Crane rail clip is complete. The crane is currently operational. 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: \$1.5 million, 0 day	●	↔	<p>Risk Trigger Metric: During planned facility operations activities a suspect system component is discovered that requires attention, or an unexpected malfunction results in this risk 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: No changes in the month of July. 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: \$32 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: No changes in the month of July. The project is continuing implementation of planned efficiencies (approximately \$58 million to date), however, due to impacts associated with increased regulatory scrutiny, maintenance lessons learned across CHPRC/ DOE Complex, and heightened compliance postures, forecasts will be updated to reflect a reduced level of efficiencies through the balance of the contract period of performance.</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-W130-18: 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>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: No changes in the month of July. 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	%	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	%											
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 July.													

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	10.1	10.8	8.6	0.7	7.3%	2.2	20.4%

Numbers are rounded to the nearest \$0.1 million

CM Schedule Performance (+0.7M/+7.3%)

The current month favorable schedule variance is primarily due to the following:

- Incremental RH/Large Box Repack. Shipments TC140, TC143, & TC144 were accelerated from FY2017 due to the availability at the treatment facility PFNW prior to PFP shipments.
- Automated RCRA Records. Schedule recovery due to vendor payment that was planned in the first period of the contract but the terms provide for payment and progress incrementally as work is performed.
- WESF 1-130 - Construction. Schedule recovery continues on work planned in previous periods.

The positive schedule performance was offset slightly with negative performance due to the following:

- Accelerated work on Burial Grounds CA/HCAs to URMA. Burial ground 3AE (15 acres) was completed in a prior period.
- WESF W-130 – Subcontract Services. Rework of N3N, delays in installing the grouting system and core drilling.

CM Cost Performance (+2.2M/+20.4%)

The current month favorable cost variance is due to the following:

- WESF W-130 - Implementation of BCR BCR-013-16-024R0, Incorporate CO #269 NTE Increase, MOD 516 WESF K3 Ventilation and Stabilization Project provided the ability to take performance this period where costs had already been captured in prior periods.
- Box Covers - Agreed Order. 17 boxes were replaced in the current period. Efficiencies were captured such as teams able to work on adjacent boxes without moving the crane. Furthermore, all box covers used were in inventory and no new purchases were made during this period.
- W&FMP Project Management & Support - Significant efficiencies in labor utilization (approximately 16+ FTEs below plan resulting in ~\$367K reduction in direct labor costs). This is attributable to the continued implementation of planned efficiencies as a cost cutting measure. Efficiencies include resource sharing across multiple scopes of work in areas of engineering, training, emergency preparedness, corrective action management and environmental management. The ETC has been adjusted to better reflect the FTEs that will be required for the balance of the contract period of performance.
- WRAP Minimum Safe Operations - WRAP has been formally placed in dormant configuration. This situation minimizes the need for preventative maintenance and the dormancy eliminates most routine work for shipments in and out of the facility and hence decreases the need for motor carrier services. Additionally, efficiencies from reducing the number and size of RMA, removing waste inventories and resource sharing.
- T Plant Base Operations - The current period favorable cost variance is primarily due to planned efficiencies including tagging out unnecessary equipment, reducing the number and size of

RMA's, removing waste inventories, streamlining procedure and processes, optimizing engineering and support resources and reducing the number and frequency of Preventive Maintenance.

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	1,069.6	1,069.7	1,002.8	0.1	0.0%	66.9	6.3%	1,335.1	1,279.9	55.3

Numbers are rounded to the nearest \$0.1 million

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

The schedule variance is within threshold.

CTD Cost Performance (+\$66.9M/+6.3%)

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

Variance at Completion (+\$55.3M/+4.1%)

The Variance at Completion is within threshold.

Contract Performance Report Formats are provided in Appendix A.

FUNDS vs. SPEND FORECAST (\$M)

WBS 013/RL-0013 Waste and Fuels Management Project	FY2016		
	Projected Funding	Spending Forecast	Spend Variance
Spending Forecast	106.7	96.6	10.1
Incremental Scope Pending Change Management	0.0	7.0	(7.0)
RL-0013 – Total	106.7	103.6	3.1

Numbers are rounded to the nearest \$0.1 million.

Funds/Variance Analysis

- The FYSF decreased from \$105.6 million to \$103.6 million due to applying resource efficiencies and reducing the forecast for WESF W-130 based on re-evaluated work approaches which pulled in the forecasted completion date and costs to complete the project.
- Incremental Scope forecast decreased this month from \$10.3 million to \$7 million due to an increase in NTE for WESF Ventilation & Stabilization Project, W-130, moving the forecast from the incremental file to the ETC file.

Critical Path Schedule

WESF Ventilation & Stabilization Project, W-130, critical path shows a completion of Performance Measure, PM-13-5-16, on September 30, 2016, a gain from last month of 17 days. This gain was primarily due to implemented changes in work approaches.

Baseline Change Requests

BCR-013-16-024R0, *Incorporate CO #269 NTE Increase, MOD 516 WESF K3 Ventilation and Stabilization Project*

BCR-013-16-025R0, *Deferral of Small Container Commercial Repack Planning Package*

BCR-013-16-026R0, *Convert TRU Large Box Commercial Repack Planning Package to Work Package*

BCR-PRC-16-047R0, *Reallocation of Fee*

BCR-PRC-16-041R0, *Undistributed Budget Adjustments July 2016*

BCRA-PRC-16-046R0, *HPIC Updates July 2016*

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-091-51	Submit secondary document for new or modified facilities to process all Hanford Site RH TRUM waste.	9/30/16		9/30/16	On Schedule
C-026-07K	Tritium Treatment Technology Developments to Ecology & EPA	3/31/17		3/31/17	On Schedule
M-091-03K	Submit Revision of TRUM Waste and MLLW PMP to Ecology	6/30/17		6/30/17	On Schedule
M-092-05	Determine Disposition Path and Establish Cs/Sr Interim Milestone	6/30/17		6/30/17	On Schedule

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

Contract Section	Project	GFS/I	Status
CONTRACT			
J.12/C.2.2, C.2.3	PBS-11, Plutonium Finishing Plant Closure Project PBS-13, Solid and Liquid Waste Treatment and Disposal	Offsite Transportation of Radioactive Material: RL provides equipment and government drivers to transport TRU materials outbound/inbound between the Hanford site and PFNW locations. RL is the authorized shipper and acts as signatory on the shipping papers, and ensures DOE Manual 460.2-1 is complied with. RL arranges for Commercial Motor Vehicle Safety Alliance (CVSA) level VI vehicle inspections and verifies that the government drivers meet the applicable Department of Transportation (DOT) Federal Motor Carrier Safety Regulations (49 CFR 382 and 383). RL also inspects the load securement to ensure compliance with DOT regulations and/or TSD requirements.	Ongoing
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.	No WIPP shipments are planned within the Contract period of performance.

Section D

Soil and Groundwater Remediation Project (RL-0030)



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and Strategic Planning

July 2016
CHPRC-2016-07, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

Pump and Treat (P&T) Operations continued making progress on the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) remedial process documentation for the River Corridor and Central Plateau. Groundwater treatment and well drilling (including development) completed in July 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	31.6	326.9	5.3	59.1								
HX P&T	32.8	235.6	2.4	21.3								
KR-4 P&T	12.6	132.2	0.2	2.9								
KW P&T	0.0	107.2	0.0	5.5								
KX P&T	38.5	363.1	2.3	21.8								
200 West P&T	66.9	678.5	6.6	54.1	151	1565	5837	64847	.23x10 ¹²	2.4x10 ¹²	7.6	33.1
Combined	182.3	1843.5	16.9	164.6	151	1565	5837	64847	.23x10¹²	2.4x10¹²	7.6	33.1
FY2016 KPG	--	2100	--	160	--	1700	--	80000	--	N/A	--	15

Well Drilling by Area	FY2016 Planned	Current Month	FY2016 Cumulative
100-KR-4	3	-	-
100-HR-3	8	3	7
200-UP-1	7	1	2
200-UP-1 Chromium Plume	3	-	-
200-ZP-1 C9521	1	-	1
200-ZP-1 monitoring	2	-	2
M-24 Milestone 100-NR-2	6	4	4
M-24 Milestone C Farm	1	-	1
Vadose Zone	1	-	1
100-F I/U	8	-	8
Total Wells	40	8	26
Site Wide Boreholes	25	6	23

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.	Monitor and confirm low carbon tetrachloride emissions at the 200 West P&T Facility.	9/30/16	100%	83%
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	100%	100%
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	50%	50%
16-EMS-SGWR-OB4 Reduce the risk of noncompliance with environmental requirements.	T1 – Develop compliance matrices for S&GRP P&T 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	55%	65%

TARGET ZERO PERFORMANCE

	CM Quantity	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	1	3	<ul style="list-style-type: none"> 7/18/2016 – The employee was removing their instrument bag from vehicle back seat and felt a pop and sharp pain in their right shoulder. The pain made it difficult to move their arm over head or to lift. The employee was taken to HPMC and returned with a lifting work restriction. (24066)
Total Recordable Injuries	1	4	<ul style="list-style-type: none"> 7/18/2016 – The employee was removing their instrument bag from vehicle back seat and felt a pop and sharp pain in their right shoulder. The pain made it difficult to move their arm over head or to lift. The employee was taken to HPMC and returned with a lifting work restriction. (24066)
First Aid Cases	4	*49	<ul style="list-style-type: none"> 7/5/2016 – The employee began to notice a chemical smell inside his hood and immediately put down the rag, left the area and took off the hood. The employee notified the safety representative of the issues with the respiratory protection. It was discovered the employee had incorrect filter cartridges. The employee was escorted to HPMC for evaluation and was then released without restrictions. (24052) PTS 7/6/2016 – Employee was stung or bitten by an unknown insect. (24053) PTS 7/7/2016 – An operator was not focused on where the pipe was moving or swinging and was struck and knocked to the ground. (24055) PTS 7/8/2016 – Employee was stung by a wasp. (24062) <p style="text-align: right;">*10 FA cases, PTS in support of RL-0030.</p>
Near-Misses	0	2	N/A

KEY ACCOMPLISHMENTS

RL-0030.01 RL 30 Operations

Environmental Database Integration

- A prioritized list of proposed database upgrades was developed in support of FY2017 PMB planning. The highest priority upgrades were completion of Sample Management Integration Lifecycle Environment (SMILE) modules, Electronic Data Deliverable Processor (EDDPro) Expansion and upgrade of Sample Data Tracking (SDT).

River Corridor

100-BC-5 Operable Unit

- Transmitted the Decisional Draft 100-BC-5 Proposed Plan (PP) to RL for review on July 11, 2016.
- Briefed EPA on July 13, 2016, with the results of the feasibility study and rationale for the selection of the proposed alternative.

100-HR-3 Operable Unit

- Completed the aquifer pumping tests of the Ringold Upper Mud unit; currently downloading and evaluating the data.
- Entered the 100-D/H PP into the Administrative Record on July 21, 2016. The 30 day public comment period is scheduled to start on July 26, 2016.
- Completed construction on seven of the eight planned wells for P&T optimization.

100-KR-4 Operable Unit

- Continued with biweekly and monthly groundwater sampling for the KW Rebound Study, which began on May 16, 2016. Analytical data is being reviewed to assess changes in the concentrations and location of area contaminants.
- Completed construction on three of the four planned wells for P&T optimization.

100-NR-2 Operable Unit

- Completed construction on four of the six planned Tri-Party Agreement M-24 Milestone monitoring wells.
- Issued Revision 2 of the Remedial Design and Remedial Action Work Plan for 100-NR-2 OU. This revision updates the Sampling and Analysis Plan (SAP) contained in Appendix A.
- Continued respirometry sampling of the semi-annual sampling event for the bioventing remediation system for the 100-NR-1 total petroleum hydrocarbon remedy. The project will complete the sampling the first week of August 2016.

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

- Provided an updated redline of the 200-UP-1 Drilling SAP for RL concurrence on July 20, 2016. The redline incorporates additional RL comments received through June 24, 2016, results from a June 30, 2016, SAP meeting with RL and PNNL, and recent analytical hold time information from PNNL pertaining to saturated soil samples.
- Two well drilling campaigns are currently underway. The first is a series of seven remedy monitoring wells. Of those, two have been completed and two more are in process. The second is a series of six SE chrome plume wells; the first three have been drilled and one is being constructed.

200-BP-5/200-PO-1 Operable Unit

- Completed the 299-E33-360 well rack installation and the 200 BP-5 pipeline extension for the B Complex extraction system.
- Provided the Decisional Draft Action Memorandum for 200-BP-5 Operable Unit Groundwater Extraction to RL on July 20, 2016, for review.
- Submitted preliminary responses to RL on Ecology comments on the Draft A 200-BP-5 Treatability Test Report.

200-SW-2 Operable Unit

- Reached preliminary agreement with Ecology on July 19, 2016, regarding the proposed text revisions associated with the ProUCL comment resolution. Discussions continue on resolution of Ecology's comment on the alternate point of compliance.

200-IS-1 Operable Unit

- Conducted data needs and characterization strategy workshop with RL and Ecology on July 18, 2016, for the RI/FS Work Plan.

200-DV-1 Operable Unit

- Completed sonic drilling of six boreholes as of July 24, 2016.

- Completed the final perched water pumping test on July 15, 2016. The pumps were shut down July 18, 2016, commencing the 60 day monitoring of the recovery period.
- Installed the tank supporting the hookup of the perched water wells to the 200-BP-5 transfer.

200-WA-1 and 200-BC-1 Operable Units

- Submitted the working draft Revision 0 200-WA-1 and 200-BC-1 Operable Units RI/FS Work Plan to RL for review on July 11, 2016.

200-PW-1 Soil Vapor Extraction

- Met with EPA, RL, and CHPRC on July 26, 2016, to walk through the 200-PW-1 OU SVE Response Action Report to facilitate U.S. Environmental Protection Agency (EPA) approval.

Groundwater P&T Facilities

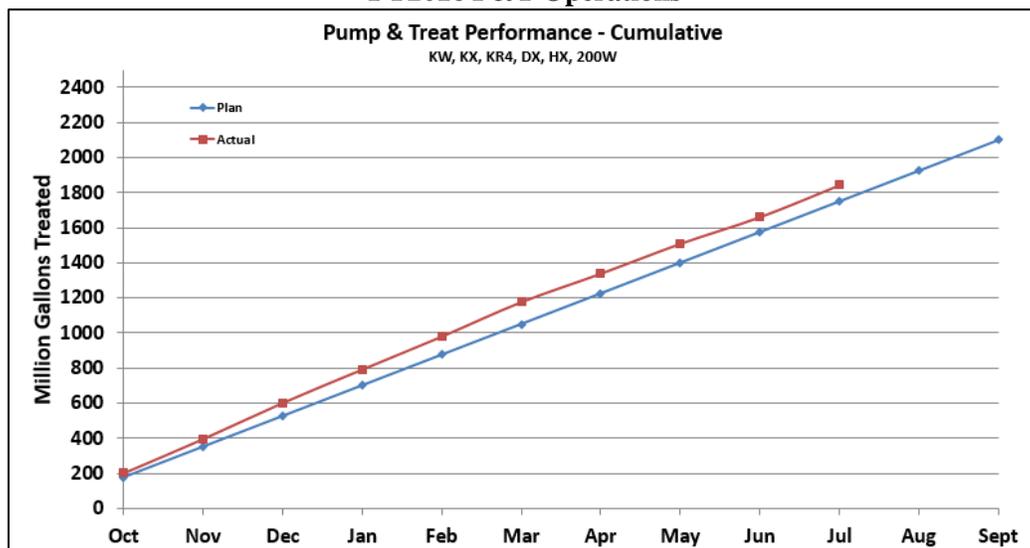
200 West P&T

- Operated the 200 West P&T at an average of 1,498 gpm. Lower flow volumes have been experienced because Fluidized Bed Reactor (FBR) A was offline for repair.
- Completed carbon addition and FBR A was placed back into service on June 28, 2016. FBR performance continued to be monitored throughout July 2016 with flow being increased and carbon added as bacteria population grows. Nitrate levels are being monitored daily when the facility is staffed. The need for preventive maintenance for FBR B is being evaluated.

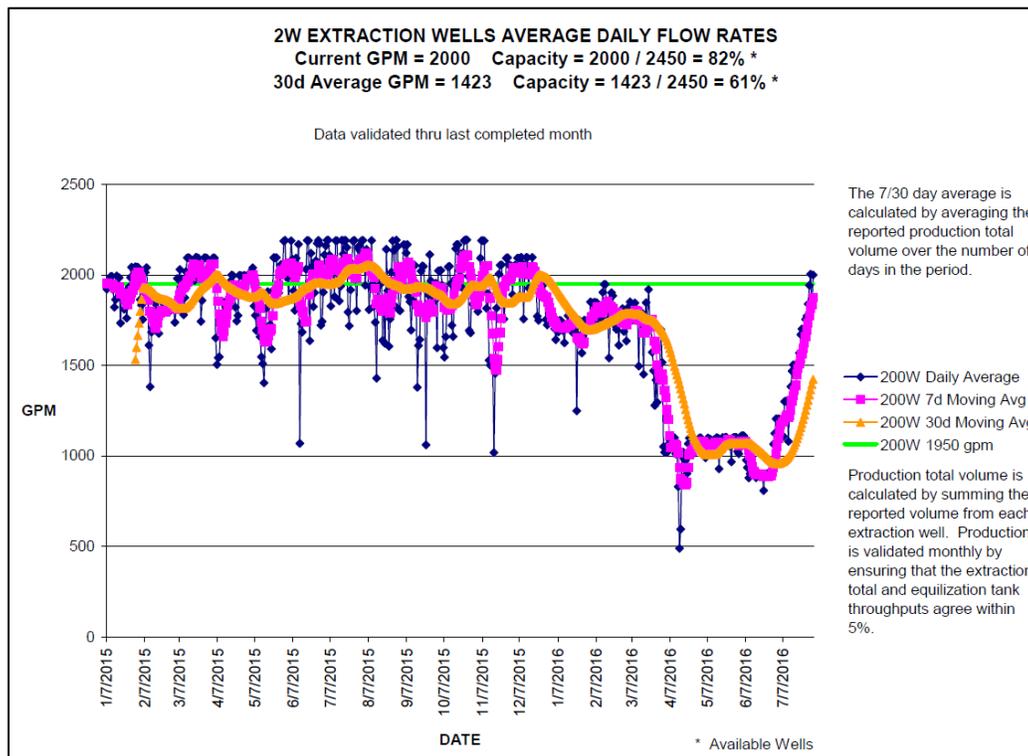
100 Area P&Ts

- Operated the DX P&T at 708 gpm, below the facility capacity of 775 gpm.
- Operated the KR-4 P&T at 281 gpm, below the facility capacity of 330 gpm.
- The KW P&T remains turned off to perform rebound study.
- Operated the KX P&T at 862 gpm, below the facility capacity of 900 gpm.
- Operated the HX P&T at maximum extraction well capacity. Monthly average at approximately 734 gpm.

FY2016 P&T Operations



200 West P&T



MAJOR ISSUES

Issue:

Received Ecology letter, 16-NWP-116, on June 30, 2016, requiring the 200-SW-2 RI/FS Work Plan incorporate two text modifications or that RL initiate the dispute resolution process. The two issues are associated with 1) exposure point calculation means and methods using EPA ProUCL software and 2) the verbiage associated with the human direct contact conditional point of compliance. Both issues are related to the Principles and Parameters text which were previously agreed to at the Tri-Party Agreement manager level.

Corrective Action:

Coordinate with RL to engage Ecology and EPA management to understand issues and define technical and regulatory correct text updates. Initiate Tri-Party Agreement dispute resolution process should agreement not be reached within the 30 day timeframe.

Status:

Conducted formal meeting with Ecology project and section managers on July 5, 2016, with the goal to understand the basis for the two issues. Both parties reached a better understanding on the ProUCL issues and potential text revisions were informally discussed. Conducted a second meeting on July 19, 2016, with Ecology project and section managers as well as staff from Ecology and EPA regarding both issues. Reached preliminary agreement on revised ProUCL text modifications with an action taken by EPA and Ecology to discuss the text related to appropriate use of maximum concentrations; received Ecology letter 16-NWP-130 documenting agreement dated July 27, 2016. Continuing efforts to resolve the human

direct contact conditional point of compliance issue. Coordinated with RL to draft dispute initiation letter.

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's review of the 200-BP-5 RI/200-PO-1 RI Addendum, and Ecology approval of the 200-IS-1 Tri-Party Agreement change packages (C-013-01 and C-014-02), which affect the 200-IS-1 RI/FS Work Plan (DOE/RL-2010-114) scope definition.

Corrective Action:

Maintain visibility on these delays to senior management. RL/CHPRC to continue working with the regulatory agencies to facilitate completion of these documents. Submit NOC letters to RL as contract activities are impacted. The 200-IS-1 change package dispute will be elevated above the project manager level should agreement not be reached by September 1, 2016.

Status:

Delays in completion of the decision documents are reported weekly to RL management and monthly to RL, EPA, and Ecology senior management. A process improvement meeting using the Kaizen technique was performed in June 2016 with all three agencies. Several of the process improvements identified from these meetings will be deployed in future decision document development. Specific document status includes:

- 100-HR-3: Resolution of EPA legal comments on the PP was completed in July and the document issued for public comment on July 26, 2016. This item is closed.
- 100-NR-2: Six new characterization/monitoring wells are being installed in and around the reactor area. The results from these wells, expected by the end of FY2016, will then be incorporated into the remedial investigation report. Discussions are underway to use some of the process improvements that were identified in the Kaizen meetings to help complete the associated feasibility study which is planned for October/November timeframe.
- 200-BP-5/200-PO-1: Ecology suspended review of the 200-BP-5 RI report and the 200-PO-1 RI report addendum on October 23, 2015 (15-NWP-189). Completion of this review is contingent on RL providing "adequate details" on how the modeling approach evolved from the Tank Closure & Waste Management Environmental Impact Statement (TC&WM EIS) modeling approach with a list of specific items to be provided. This issue has been elevated to RL senior management for resolution.
- 200-IS-1: Ecology continues to review change package C-13-01, which was provided on December 19, 2015; no additional input has been received over the past month from Ecology. Received RL and Ecology agreement on July 13, 2016, to extend the change control form M-15-13-02 dispute to September 1, 2016.

Issue:

A small water leak near the base of FBR-A was discovered on March 21, 2016. The leak condition deteriorated and carbon media was intermittently discharged to the bio pad on March 31, 2016. A decision to place FBR A out of service occurred on March 31, 2016.

Corrective Action:

The carbon media will be removed from the FBR while a statement of work is prepared and issued to obtain bids from qualified fiberglass repair vendors. Efforts to prepare the FBR for entry and repair will continue while the contract for repairs is processed.

Status:

Entry preparations were completed and repair efforts by the vendor commenced on June 7, 2016. Repair efforts were completed to include hydrostatic testing on June 14, 2016. FBR A tank internals were installed, carbon added and placed back into service June 28, 2016. FBR performance continued to be monitored throughout July 2016 with flow being increased and carbon added as bacteria population grows. Nitrate levels are being monitored daily when the facility is staffed. The need for preventive maintenance for FBR B is being evaluated. This issue is closed.

Issue:

Based on groundwater samples taken during drilling from the first set of three wells, the 200-UP-1 southeast chromium plume extends further to the southeast than previously mapped, and will likely require additional characterization wells (beyond the six wells planned) to define the southern plume boundary.

Corrective Action:

The two southern-most characterization wells drilled to date will be prioritized and resampled to confirm chromium concentrations. Existing groundwater monitoring wells to the southeast of the plume will be sampled, however access issues exist (e.g., road repairs needed). The results from these additional samples will be used to define additional characterization needs. Cultural reviews will be initiated on possible locations for future characterization wells, if needed.

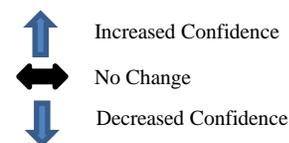
Status:

Well completion activities for the first of two most southern wells are underway to allow for resampling. The project is working with MSA to resolve access issues to the existing wells for sampling.

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-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 July .										
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 long-term groundwater monitoring 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="width: 100%; border-collapse: collapse; margin-bottom: 10px;"> <thead> <tr> <th style="text-align: center;">Opportunity action(s)</th> <th style="text-align: center;">FC Date</th> <th style="text-align: center;">%</th> </tr> </thead> <tbody> <tr> <td>Obtain Agency approval of the revised SAPs.</td> <td style="text-align: center;">9/30/16</td> <td style="text-align: center;">75</td> </tr> </tbody> </table> Opportunity Assessment: All ten CERCLA groundwater monitoring SAPs have been revised and transmitted to RL and the regulators. Seven of the ten CERCLA SAPs are approved by RL and the Agencies, and are either implemented or in the process of being implemented. Comment resolution with the Agencies is on-going for two CERCLA SAPs (200-BP-5 and 200-PO-1). The revised 100-KR-4 SAP was transmitted to EPA by RL on July 21, 2016. All 25 RCRA monitoring plans have been reviewed. Twelve of the monitoring plans have been revised and transmitted to Ecology. Comments have been received from Ecology on all but one monitoring plan (A/AX Farm). Three of the monitoring plans have been implemented and the remaining are in final comment disposition. CHPRC is planning to complete and implement 6 by the end of the fiscal year and the remaining by the end of the calendar year. Monitoring under the new AEA plan has been implemented. No alternative course of actions are needed at this time.	Opportunity action(s)	FC Date	%	Obtain Agency approval of the revised SAPs.	9/30/16	75
Opportunity action(s)	FC Date	%								
Obtain Agency approval of the revised SAPs.	9/30/16	75								
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)										
No critical risks identified in the month of July .										
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)										
No high risks identified in the month of July .										
Unassigned Risks (Pending ownership of identified risks/opportunities)										
No unassigned risks identified in the month of July .										

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	11.8	12.6	11.7	0.8	6.9%	0.9	6.8%

Numbers are rounded to the nearest \$0.1 million.

CM Schedule Performance (+\$0.8M/+6.9%)

The positive schedule variance resulted from the following:

- Overall positive schedule variance in drilling experienced by:
 - o Positive gains made on 100-HR-3 P&T optimization drilling campaign by accelerating and performing campaigns planned for FY2017 and FY2018 in FY2016.
 - o Positive performance made on the ongoing 200-UP-1 monitoring well drilling campaigns, including recovery of drilling of FY2015 and FY2016 baselined campaigns to support Tri-Party Agreement MS M-016-193 and completion of road and pad installation for three SE chrome plume well campaign planned for FY2017.
 - o Schedule recovery underway on the M-24 six 100-NR-2 monitoring well campaign planned in FY2015. Following receipt of the approved Memorandum of Agreement (MOA) in May, the project has addressed cultural resource training requirements, installed roads and pads, awarded the drilling subcontract, mobilized and has completed drilling and construction of four of the six wells in the campaign.
- In July, scope to conduct treatability tests to investigate the options for remediating the deep vadose zone was re-planned from FY2016 to reflect a delay in the start of the work until FY2017. This scope was not authorized within the available funding for FY2016. The scope included laboratory work and modeling as well as field tests to be performed to investigate the applicability of selected remediation technologies via the Tc-99 S.D. pilot and the URGS treatability test.
- The CM positive schedule variance is offset in part by the following items:
 - o Positive performance earned ahead of schedule for drilling 100-FR-3 final remedy monitoring wells returning to zero.
 - o Efforts required to re-write the Decisional Draft B 100-BC-5 RI/FS report were greater than anticipated, taking more time to prepare than originally planned, slowing delivery of the document for RL review. RL comments have been received and comment resolution is underway.
 - o Positive performance gained earlier in the year in the 200 West P&T operations account is returning to zero this fiscal year.
 - o In the PBS RL-0030 Reg Decisions and Closure Integration account the unfavorable current month schedule variance has resulted from later than planned receipt of the government supplied information to initiate the aerial flight survey field summary report and deferral of the 200-OA-1 RI/FS, proposed plan, and project management beyond FY2016 to align with priority list and available funding.
 - o The 200-DV-1 Operable Unit RCRA RFI/RI and CMS/FS documentation is unable to start until the fieldwork is completed (scheduled for FY2017).

CM Cost Performance (+\$0.9M/+6.8%)

The positive cost variance resulted from the following:

- Continuing to experience efficiencies in the Groundwater Monitoring and Performance Assessment account associated with lower analytical laboratory costs. These lower costs are due to the use of offsite laboratories, and lower geophysical logging costs during well drilling due to the competitive procurement process.
- The M-24 well drilling campaign was planned for drilling to an average depth of 225 feet. The six monitoring wells in the current campaign are being drilled to an average depth of 120 feet. The project is experiencing positive cost performance due to the reduced depth.
- The 100-KR-4 Operable Unit experienced a savings in the form of P&T operations labor, sampling, analysis, shipping, and regeneration from replacing the Dowex 21K resin with SIR 700.
- The 200-ZP-1 Operable Unit project management account has experienced efficiencies by spreading project management responsibilities/staff between multiple operable units.
- This is offset in part, by negative current month cost variance is associated with the increased costs to hook up the 200-DV-1 perched water wells consistent with 200W P&T standards. This upfront cost will be offset by future savings realized by not trucking the water to the 200W P&T. Additionally, negative current month cost variance has been experienced with costs incurred to support 200-DV-1 MNA evaluation sampling. The project has a submitted a notice of change for this work.

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	1,263.2	1,250	1,220.7	(13.2)	-1.0%	29.3	2.3%	1,564.8	1,490.9	73.9

Numbers are rounded to the nearest \$0.1 million.

CTD Schedule Performance (-\$13.2M/-1.0%)

The variance is within reporting thresholds.

CTD Cost Performance (+\$29.3M/+2.3 %)

The variance is within reporting thresholds.

Variance at Completion (+\$73.9/+4.7%)

The variance is within reporting thresholds.

Contract Performance Report Formats are provided in Appendix A.

FUNDS vs. SPEND FORECAST (\$M)

RL-0030 Soil and Groundwater Remediation	FY2016		Spend Variance
	Projected Funding	Spending Forecast	
Spending Forecast	127.5	118.8	8.7
Incremental Scope Pending Change Management	0.0	0.8	(0.8)
RL-0030 –Total	127.5	119.5	7.9

Numbers are rounded to the nearest \$0.1 million

Funds/Variance Analysis

RL-0030 FY2016 expected funding remains at \$127.5 million. The FYSF of \$119.5 million includes actions anticipated to meet funding targets.

Critical Path Schedule

Critical path analysis can be provided upon request.

Baseline Change Requests

BCR-030-16-037R0, *Defer Unfunded FY2016 DVZ Treatability Test Work Activities*

BCR-PRC-16-047R0, *Reallocation of Fee*

BCRA-PRC-16-046R0, *HPIC Updates July 2016*

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, M-085 and M-094 was signed on October 26, 2015, and the final approval package was signed on May 25, 2016. 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
Completed Milestones					
M-024-67-T01	Conclude Discussions of Well Commitments	8/1/16	7/19/16		Complete
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 September 1, 2016 (TPA change control form M-15-13-02).
Milestones on Schedule or at Risk					
M-015-79	Submit RI/FS Report/PP for 100-BC-1/2/5 OUs for GW & Soil	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		2/16/21	At risk, unable to accomplish work due to Traditional Cultural Property (TCP)
M-024-58J	Initiate Discussions of Well Commitments	6/1/17		6/1/17	On schedule
M-024-68-T01	Conclude Discussions of Well Commitments	8/1/17		8/1/17	On schedule

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)

July 2016
CHPRC-2016-07, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

The project completed repairs on the Plutonium Uranium Extraction Plant (PUREX) Stack Sampling System. The project completed demolition and processing of 275-EA and started assembling the mockup of the ventilation system for the PU bag removal at REDOX.

EMS Objectives and Target Status

None currently identified.

TARGET ZERO PERFORMANCE

	Current Month	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	0	N/A
Total Recordable Injuries	0	0	N/A
First Aid Cases	1	5	<ul style="list-style-type: none"> 7/11/2016 - Employee leaned forward in an awkward position out of a lift basket and extended reaching with additional other repetitive tasks. Co-workers noticed that employee was walking like there was something wrong so employee was sent to be examined at HPMC. The worker was examined, given a cold pack and OTC medication. Employee was then released to return to work with no restrictions. (24059)
Near Misses	0	0	N/A

KEY ACCOMPLISHMENTS

- Operations/Maintenance:
 - Completed PUREX Stack System repairs
 - Completed field work for Steamline Surveillance
 - Continued preparation activities to support Reduction-Oxidation (REDOX) bag removals
 - Supported D4, lockdown of Legacy Asbestos-containing material (ACM) at REDOX
 - Supported D4/Engineering walkdown for 276-BA
 - D4 completed demolition and processing of 275-EA
 - Supported Hazard Review Board (HRB) mockup for T-plant entry into U-canyon to identify crane parts
 - Conducted 21 radiological facility surveillances. 165 Surveys performed year-to-date.
 - Conducted 25 PM activities.
- Continued Progress on Canyon Stabilization Documents:
 - Closure Plan for the PUREX North RCRA tank closures began on July 18 for 60 days.

- o REDOX Fire Hazard Analysis (FHA) CHPRC reviews were completed; document ready for MSA/DOE review
- o B Plant and REDOX Engineering Evaluation/Cost Analysis (EE/CA) were provided informally to Ecology/EPA on July 28, 2016; comment resolution scheduled for August.
- o The Removal Action Work Plan (RAWP) for B Plant ancillaries (276BA, 222B, and 2716B) was reviewed by RL and comments incorporated.
- o The RAWP for PUREX ancillaries (203A and 211A) internal review comments were resolved and document ready for RL review in August. The 276-BA closure plan public comment was extended to August 9, 2016 due to regulator comments.
- Suspect Plutonium Nitrate Bags:
 - o Completed three dives into REDOX to prepare for bag removal; activities included additional characterization, gamma cameras, electrical staging, and ventilation system mockups
 - o Work on Pu Nitrate bag removal continued; draft work package completed and meeting held to resolve initial comments.
- Demolish REDOX Ancillary Facilities:
 - o Removed Class 1 & 2 Asbestos material from REDOX buildings 2711S and 2718S.
 - o Supported D4 performance of demolition preparation for 2711-S.
 - o Continued electrical and mechanical isolations at 2718S.

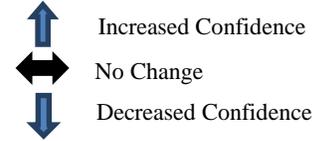
MAJOR ISSUES

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 spotlight chart:										
No major changes to the monthly spotlight chart in the month of July .										
Realized Risks (Risks that are currently impacting project cost/schedule)										
No realized risks for the month of July .										
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)										
No critical risks identified in the month of July .										
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: \$2 million, 0 day	●	↔	Risk Trigger Metric: During routine surveillance activities unforeseen events cause systems to be compromised. This is a lifecycle risk and will continue through the CHPRC (September 30, 2018). <table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 10px;"> <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 style="text-align: center;">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: During monthly routine surveillance activities it was identified that this risk was triggered based on several events with the PUREX Stack Sample System (i.e., bearing sheaves, belt replacement, damper repairs, heat trace failure, and sample line damaged). The project has completed repairs to the damaged sample line. In addition, a conceptual design has been provided to RL with an estimate for replacing the entire PUREX stack sample system. With this data, RL will be able to provide PRC direction on how to proceed, including the potential for a change proposal.	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 July .										

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	2.4	2.3	2.3	(0.1)	-4.0%	(0.0)	1.2%

Numbers are rounded to the nearest \$0.1 million

CM Schedule Performance: (-\$0.1M/-4.0%)

The schedule variance is within reporting thresholds.

CM Cost Performance: (\$-0.0M/+1.2%)

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	420.6	417.0	385.8	(3.5)	-0.8%	31.2	7.5%	469.1	443.5	25.7

Numbers are rounded to the nearest \$0.1 million

CTD Schedule Performance: (-\$3.5M/-0.8%)

The schedule variance is within reporting thresholds.

CTD Cost Performance: (+\$31.2M/+7.5%)

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

- The majority of the CTD Cost Variance is from legacy work dating back to the ARRA time period. In the past two years has performed at or near planned.
- The remaining CTD favorable cost variance in base-funded work is due to efficiencies for Surveillance and Maintenance and D4 activities as a result of utilization of existing site equipment and less resources and Program Management utilizing less resources.

Variance at Completion (+\$25.7M/+5.5%)

The Variance at Completion is within reporting thresholds.

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
Spending Forecast	26.5	21.6	4.8
Incremental Scope Pending Change Management	0.0	1.9	(1.9)
RL-0040 – Total	26.5	23.5	3.0

Numbers are rounded to the nearest \$0.1 million.

Funds/Variance Analysis

There is no change in direct funds for July. The FYSF decreased by \$1.2 million from June to July.

Critical Path Schedule

Critical path analysis can be provided upon request.

Baseline Change Requests

BCR-040-16-010R0, *Deferral of Increased Planning Capability Planning Package*

BCR-PRC-16-047R0, *Reallocation of Fee*

BCRA-PRC-16-046R0, *HPIC Updates July 2016*

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-016-250b	Submit to ECY a 3-year rolling prioritized schedule to implement waste site removal actions	3/31/2017		3/31/2017	On Schedule

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)

July 2016
CHPRC-2016-07, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

Change Order 307 was issued by RL with an NTE of \$3 million for work in FY2016 for additional 100K Waste Site Remediation. RCCC continues to work transition item checklist to insure a successful transition. The Project Execution Plan (Revision 0) for 300-296 Soil Remediation Project, 618-10 Site Remediation Project, and Miscellaneous Waste Sites (PBS-RL00-41.C1) was issued.

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	7	N/A
Near Misses	0	0	N/A

KEY ACCOMPLISHMENTS

- 165KE Asbestos Abatement:
 - o Completed all arc chute removal and packaged Cement Asbestos Board (CAB) from the basement area.
- Area AB waste site remediation:
 - o Change Order 307 was issued by RL with an NTE of \$3 million for work in FY2016 for additional 100K Waste Site Remediation.
 - o Sub-contractor is in the deep zone working of AB Waste Site (-30ft to -40ft).
- RCCC Transition:
 - o Completed estimates and PMB/CP document preparation for the Additional Sites/Facilities (29 total sites/facilities) requested on May 27, 2016 by RL CO via email direction.
 - o Completed submittal of the PMBs/CPs for the 29 additional sites/facilities on July 27, 2016.
 - o Working Transition Item Checklist Due Diligence process for all additional transitioning scopes of work.
- 300-296 Accomplishments:
 - o Prepared input for DOE HQ Independent Cost Estimate (ICE) team to begin August 1.
 - o Prepared input for Project Review Board (PRB) to begin August 4.
 - o Issued Project Execution Plan (Revision 0) for 300-296 Soil Remediation Project, 618-10 Site Remediation Project, and Miscellaneous Waste Sites (PBS-RL00-41.C1).
 - o Issued Project Soil Removal Operations Assessment (time and motion study).

MAJOR ISSUES

None currently identified.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

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

-  Increased Confidence
-  No Change
-  Decreased Confidence

Risk Title	Unmitigated Risk Impacts	Assessment		Comments						
		Month	Trend							
RL-0041/WBS-041										
Explanation of major changes to the project monthly spotlight chart: No major changes to the monthly spotlight chart in the month of July.										
Realized Risks (Risks that are currently impacting project cost/schedule)										
No realized risks for the month of July.										
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)										
No critical risks identified in the month of July.										
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: \$1.5 million, 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. Additional field changes include the need to excavate a greater amount of soil than planned to complete remediation. <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: RL has issued CO 307 with a \$3 million NTE authorizing CHPRC to continue AB Waste Site Area soil remediation. CHPRC will provide a change proposal to accurately depict the increase in funding and tonnage needed. Due to competing priorities at RL-0011 and RL-0040, craft personnel numbers have not been sufficient to maintain an acceptable production rate. Insulators and the Field Work Supervisor (FWS) were requested by, and will be sent to PFP in early October at which time project management will demobilize and stop work on 165 KE asbestos removal.	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 July.										

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	1.9	3.9	3.8	1.9	100.1%	0.1	2.1%

Numbers are rounded to the nearest \$0.1 million

CM Schedule Performance (+\$1.9M/+100.1%)

The current month favorable schedule variance is primarily due to the accelerated performance of AB Waste Site remediation work scope. This scope is planned in FY2018 but being performed in FY2016 as funding permits.

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

The current month positive cost variance is primarily due to efficiencies associated with shared resources in the areas of 100K Minimum Safe, 100K Project Support and 324 Minimum Safe. These efficiencies are offset by negative variances pertaining to 165KE Asbestos Abatement, RCCC Transition, and 300-296 Design Review. 165KE continues to experience inefficiencies due to craft resources being re-assigned to higher priority scope. The facility is transitioning to a Minimum Safe mode of operations based upon insulators being re-assigned to PFP. RCCC Transition has a negative cost variance due increased demands on unplanned efforts in support of additional Remaining Closure Operations (RCO) Sites Change Proposal development (as requested by RL) and greater than planned RFI/RCR and ICE/EIR preparations. The 300-296 Project has experienced delays in awarding the contract to support final design, resulting no earned value, while actual costs continue to be charged. Project staff are working on design for the mockup facility, 324 structural modifications and mockup equipment based upon authorization received in CO 305. However, a baseline change request will not be implemented until September, which will permit earned value to be claimed for the scope being worked. Until that time, the project will continue to experience a negative cost variance.

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	334.0	343.5	311.9	9.5	2.8%	31.6	9.2%	413.2	363.7	49.5

Numbers are rounded to the nearest \$0.1 million

CTD Schedule Performance (+\$9.5M/+2.8%)

The schedule variance is within reporting thresholds.

CTD Cost Performance (+\$31.6M/+9.2%)

The positive cost variance is primarily the result of prior year activity that have been previously reported 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 (+\$49.5M/+12.0%)

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

Contract Performance Report Formats are provided in Appendix A.

FUNDS vs. SPEND FORECAST (\$M)

WBS 041/RL-0041 Nuclear Facility D&D – River Corridor	FY2016		Spend Variance
	Projected Funding	Spending Forecast	
Spending Forecast	28.7	26.2	2.4
Incremental Scope Pending Change Management	0	9.5	(9.5)
RL-0041 - Total	28.7	35.7	(7.1)

Numbers are rounded to the nearest \$0.1 million.

Funds/Variance Analysis:

There was no change in project funding in July. The FYSF decreased by \$1.8 million due to miscellaneous changes.

Critical Path Schedule

Critical Path Analysis can be provided upon request.

Baseline Change Requests

BCR-041C-16-019R0, *PBS RL-0041 Undistributed Budget Adjustments July 2016*

BCRA-PRC-16-046R0, *HPIC Updates July 2016*

MILESTONE STATUS

None currently identified.

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)

July 2016
CHPRC-2016-07, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

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

EMS OBJECTIVES AND TARGET STATUS

None currently identified.

TARGET ZERO PERFORMANCE

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

KEY ACCOMPLISHMENTS

- Completed all weekly and monthly maintenance/inspections with the 400 Area Water System.
- Completed 481/602 Three Month P-28 Pump Check.
- Completed 481 Three Month Sanitary Water Chlorinator Inspection.
- Completed 400 Area One Month and One Year Egress Lighting Inspection and Test.
- Continued efforts in support of 400 Area Sink Hole investigation.

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 July .				
Realized Risks (Risks that are currently impacting project cost/schedule)				
No realized risks for the month of July .				
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)				
No critical risks identified in the month of July .				
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)				
No high threat value risks identified in the month of July .				
Unassigned Risks (Pending ownership of identified risks/opportunities)				
No unassigned risks identified in the month of July .				

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)	-2.6%	0.1	29.3%

Numbers are rounded to the nearest \$0.1M

CM Schedule Performance: (-\$0.0M/-2.6%)

The schedule variance is within reporting thresholds.

CM Cost Performance: (+\$0.1M/+29.3%)

The 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	21.8	21.8	17.7	0.0	0.0%	4.0	18.6%	26.5	22.8	3.7

Numbers are rounded to the nearest \$0.1 million

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

The schedule variance is within reporting thresholds.

CTD Cost Performance (+\$4.0M/+18.6%)

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

Variance at Completion (+\$3.7M/+13.8%)

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		
	Projected Funding	Spending Forecast	Spend Variance
Spending Forecast	3.2	1.8	1.5
Incremental Scope Pending Change Management	0	0	0
RL-0042 – Total	3.2	1.8	1.5

Numbers are rounded to the nearest \$0.1 million

Funds Analysis

Projected Funding remains unchanged from last month. The FYSF changed \$0.1 million from June to July 2016.

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

BCR-PRC-16-047R0, *Reallocation of Fee*

MILESTONE STATUS

None currently identified.

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



July 2016
CHPRC-2016-07, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

CLASSIFICATION (When Filled In)

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

DOLLARS IN Thousand of \$ 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) 2016 / 06 / 20		
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE			b. TO (YYYYMMDD) 2016 / 07 / 24		
		c. TYPE CPAF	d. SHARE RATIO	c. EVMS ACCEPTANCE	NO	X	YES	(YYYYMMDD)	2009 / 09 / 18

5. CONTRACT DATA									
a. QUANTITY 1	b. NEGOTIATED COST 5,561,895	c. ESTIMATED COST OF AUTHORIZED UNPRICED WORK 31,043	d. TARGET PROFIT/FEE 240,589	e. TARGET PRICE 5,802,484	f. ESTIMATED PRICE 5,658,891	g. CONTRACT CEILING 5,802,484	h. ESTIMATED CONTRACT CEILING 5,658,891	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 Compliance Manager	
a. BEST CASE		5,351,605			c. SIGNATURE			d. DATE SIGNED (YYYYMMDD)	
b. WORST CASE		5,431,180							
c. MOST LIKELY		5,418,301	5,592,938	174,637					

8. PERFORMANCE DATA	CURRENT PERIOD										CUMULATIVE TO DATE						REPROGRAMMING ADJUSTMENTS			AT COMPLETION		
CAPN.PBS ITEM (1)	BUDGETED COST		ACTUAL COST WORK PERFORMED (4)	VARIANCE		BUDGETED COST		ACTUAL COST WORK PERFORMED (9)	VARIANCE		COST VARIANCE (12a)	SCHEDULE VARIANCE (12b)	BUDGET (13)	BUDGETED (14)	ESTIMATED (15)	VARIANCE (16)						
	WORK SCHEDULED (2)	WORK PERFORMED (3)		SCHEDULE (5)	COST (6)	WORK SCHEDULED (7)	WORK PERFORMED (8)		SCHEDULE (10)	COST (11)												
RL-0011 Nuclear Mat Stab & Disp PFP	6,670	3,968	10,604	-2,702	-6,636	951,773	900,648	924,239	-51,125	-23,591	0	0	0	978,938	1,034,255	-55,317						
RL-0012 SNF Stabilization & Disp	8,567	7,816	6,484	-751	1,333	606,683	608,609	584,399	1,927	24,210	0	0	0	738,302	716,829	21,473						
RL-0013 Solid Waste Stab & Disp	10,107	10,842	8,630	735	2,211	1,069,584	1,069,670	1,002,792	86	66,878	0	0	0	1,335,149	1,279,376	55,773						
RL-0030 Soil & Water Rem-Grndwtr/Vadose	11,767	12,579	11,724	813	855	1,263,165	1,250,000	1,220,736	-13,165	29,263	0	0	0	1,563,901	1,489,965	73,936						
RL-0040 Nuc Fac D&D - Remainder Hanfrd	2,380	2,284	2,258	-96	26	420,588	417,038	385,833	-3,550	31,205	0	0	0	469,135	443,466	25,669						
RL-0041 Nuc Fac D&D - RC Closure Proj	1,926	3,852	3,770	1,927	83	334,031	343,539	311,894	9,508	31,646	0	0	0	405,893	356,489	49,403						
RL-0042 Nuc Fac D&D - FFTF Proj	200	195	138	-5	57	21,765	21,775	17,727	9	4,047	0	0	0	26,468	22,812	3,655						
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														8,413	8,413	0						
e. SUBTOTAL	41,616	41,536	43,608	-80	-2,072	4,667,589	4,611,278	4,447,621	-56,310	163,658	0	0	0	5,526,198	5,351,605	174,592						
f. MANAGEMENT RESERVE														66,696								
g. TOTAL	41,616	41,536	43,608	-80	-2,072	4,667,589	4,611,278	4,447,621	-56,310	163,658	0	0	0	5,592,894								
9. RECONCILIATION TO CONTRACT BUDGET BASELINE																						
a. VARIANCE ADJUSTMENT														0								
b. TOTAL CONTRACT VARIANCE														-56,310		163,658	5,592,894	5,351,605	241,288			

CLASSIFICATION (When Filled In)

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

DOLLARS IN Thousand of \$ 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)		
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE			2016 / 06 / 20		
c. TYPE CPAF		d. SHARE RATIO		c. EVMS ACCEPTANCE			b. TO (YYYYMMDD)		
				NO X YES (YYYYMMDD) 2009 / 09 / 18			2016 / 07 / 24		

5. PERFORMANCE DATA

WBS.Resp Org Group WBS.Resp Org Code ITEM (1)	CURRENT PERIOD					CUMULATIVE TO DATE					REPROGRAMMING ADJUSTMENTS			AT COMPLETION		
	BUDGETED COST		ACTUAL COST WORK	VARIANCE		BUDGETED COST		ACTUAL COST WORK	VARIANCE		COST VARIANCE (12a)	SCHEDULE VARIANCE (12b)	BUDGET (13)	BUDGETED (14)	ESTIMATED (15)	VARIANCE (16)
	WORK SCHEDULED (2)	WORK PERFORMED (3)	PERFORMED (4)	SCHEDULE (5)	COST (6)	WORK SCHEDULED (7)	WORK PERFORMED (8)	PERFORMED (9)	SCHEDULE (10)	COST (11)						
34 - Env Program & Strategic Plng	706	782	643	76	139	63,019	63,070	58,614	51	4,455	0	0	0	82,402	80,076	2,326
340 - Environmental Prog & Regl Mgt	706	782	643	76	139	63,019	63,070	58,614	51	4,455	0	0	0	82,402	80,076	2,326
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
36K - Support to PRC Finance	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	288	288	111	0	177	4,535	4,535	2,351	0	2,184	0	0	0	8,426	5,961	2,466
365 - Perf Assess & Risk Mgmt	288	288	111	0	177	4,535	4,535	2,351	0	2,184	0	0	0	8,426	5,961	2,466
3B - PFP Closure Project	6,605	3,903	10,590	-2,702	-6,687	864,642	813,517	844,906	-51,125	-31,389	0	0	0	891,679	954,890	-63,211
36V - Matrixed to PFP	0	0	0	0	0	4,822	4,822	5,328	0	-507	0	0	0	4,822	5,328	-507
3B0 - PFP Close/BOSS D&D & Infrastruc	0	0	6	0	-6	134	134	116	0	18	0	0	0	134	119	15
3B3 - Project Management/Subcontracts	535	2,198	5,284	1,663	-3,086	383,806	370,181	395,479	-13,626	-25,298	0	0	0	385,530	426,435	-40,906
3B4 - Engrg Nuc Saf Plng&Wrk Control	5,368	602	1,985	-4,767	-1,383	96,796	61,828	68,084	-34,968	-6,256	0	0	0	118,995	113,342	5,653
3B7 - Environmental & Waste	672	1,004	825	332	179	70,661	69,190	57,405	-1,470	11,785	0	0	0	73,516	77,428	-3,912
3BA - Project Mgmt D&D	29	29	2,436	0	-2,407	222,640	222,640	207,263	1	15,378	0	0	0	222,744	220,356	2,388
3B8 - PFP D4 Deputy Project Mgmt	0	70	53	70	17	85,784	84,722	111,231	-1,062	-26,509	0	0	0	85,939	111,881	-25,942
3C - Waste & Fuels Management Project	10,949	11,669	9,114	721	2,555	963,625	963,646	896,177	21	67,469	0	0	0	1,230,337	1,173,522	56,815
3C0 - Waste & Fuels Management Proj	2,188	2,041	1,489	-147	553	17,150	15,376	16,731	-1,774	-1,354	0	0	0	17,515	16,715	800
3CE - Fuels Facilities	2,242	2,228	1,873	-15	354	94,930	94,579	96,279	-351	-1,700	0	0	0	129,191	135,317	-6,126
3CF - Waste Disposition	3,496	4,012	3,423	515	589	431,052	434,927	403,980	3,875	30,947	0	0	0	530,473	499,030	31,443
3CG - W&FMP Projects & Strategic Programs	489	915	641	427	274	206,807	206,446	184,045	-361	22,401	0	0	0	279,722	284,623	-4,901
3CK - W&FMP Business Services	2,534	2,474	1,689	-60	785	213,687	212,318	195,142	-1,369	17,176	0	0	0	273,436	237,838	35,598
3D - Soil & Groundwater Remediation	10,989	11,726	11,032	737	694	1,100,680	1,087,464	1,056,416	-13,216	31,048	0	0	0	1,380,710	1,302,929	77,782
3D0 - Soil & Groundwater Remediation	1,389	1,381	884	-8	497	102,675	102,666	96,649	-8	6,017	0	0	0	139,589	121,611	17,978
3D2 - GW Remediation Support	2,492	2,998	2,526	506	472	215,539	214,089	198,932	-1,450	15,157	0	0	0	285,063	268,502	16,561
3D4 - GW Operations	4,064	3,632	3,361	-432	271	229,502	229,670	209,289	169	20,381	0	0	0	317,114	276,835	40,279
3D8 - GW Analysis and Reporting	3,045	3,715	4,262	671	-547	552,965	541,039	551,546	-11,926	-10,507	0	0	0	638,945	635,981	2,964
3G - K Basin Oper & Plateau Remediation Project	12,079	13,168	12,118	1,089	1,050	1,198,563	1,206,522	1,140,668	7,959	65,854	0	0	0	1,451,707	1,377,327	74,380
32X - Support to STP	168	80	126	-87	-46	8,314	8,181	8,183	-133	-3	0	0	0	12,211	10,635	1,576
382 - Support to STP	3,648	2,998	2,365	-650	633	110,473	110,983	104,315	510	6,668	0	0	0	146,175	142,861	3,314
3CX - support to 3G 100K Area Project & BOS D&D	0	0	0	0	0	13,577	13,577	18,217	0	-4,640	0	0	0	13,577	18,217	-4,640
3G0 - K Basin Oper & Plateau Remediation Project	322	118	204	-204	-86	1,948	1,879	1,903	-70	-24	0	0	0	2,236	2,403	-168
3G1 - STP / 100K	1,910	1,823	1,754	-87	69	176,537	178,087	170,087	1,550	8,000	0	0	0	197,226	190,308	6,918
3G2 - CPS&M / D4	3,262	5,305	4,802	2,043	502	596,236	602,517	561,366	6,281	41,151	0	0	0	717,120	664,880	52,240
3G3 - Project Office	755	755	779	0	-25	105,886	105,886	99,878	0	6,008	0	0	0	125,186	114,988	10,198
3G4 - ESHQ&R	0	0	0	0	0	34,273	34,273	27,342	0	6,931	0	0	0	35,873	28,490	7,383
3G7 - 300-296 Waste Site Remediation	0	0	291	0	-291	262	262	582	0	-320	0	0	0	262	576	-314
3G8 - 100 K Operations	2,016	2,089	1,796	73	294	151,055	150,877	148,795	-178	2,082	0	0	0	201,841	203,969	-2,129
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														8,413	8,413	0
e. SUBTOTAL (Performance Measurement Baseline)	41,616	41,536	43,608	-80	-2,072	4,667,589	4,611,278	4,447,621	-56,310	163,658	0	0	0	5,526,198	5,351,605	174,592
f. MANAGEMENT RESERVE														66,696		
g. TOTAL	41,616	41,536	43,608	-80	-2,072	4,667,589	4,611,278	4,447,621	-56,310	163,658	0	0	0	5,592,894		

CONTRACT PERFORMANCE REPORT															Form Approved	
FORMAT 3 - BASELINE										DOLLARS IN THOUSANDS					OMB No. 0704-0198	
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: 2016/06/20 b. TO: 2016/07/24	
5. CONTRACT DATA																
a. ORIGINAL NEGOTIATED COST 4,312,366					b. NEGOTIATED CONTRACT CHANGE \$1,249,529		c. CURRENT NEGOTIATED COST (A + B) \$5,561,895		d. ESTIMATED COST AUTH UNPRICED WORK \$31,043		e. CONTRACT BUDGET BASE (C + D) \$5,592,938		f. TOTAL ALLOCATED BUDGET \$5,592,894		g. DIFFERENCE (E - F) \$45	
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)	SIX MONTH FORECAST						BUDGETED COST FOR WORK SCHEDULED (NON - CUMULATIVE)						UNDISTRIB BUDGET (16)	TOTAL BUDGET (17)
			+1 Aug-16 (4)	+2 Sep-16 (5)	+3 Oct-16 (6)	+4 Nov-16 (7)	+5 Dec-16 (8)	+6 Jan-17 (9)	FY09-13 (10)	FY14 (11)	FY15 (12)	FY16 (13)	FY17 (14)	FY18 (15)		
a. PM BASELINE (BEGIN OF PERIOD)	4,625,973	41,006	31,853	44,493	34,477	32,597	35,842	28,728	3,391,477	391,653	471,323	488,872	413,144	358,833	3,897	5,519,198
b. BASELINE CHANGES AUTH DURING REPORT PERIOD																
BCR-013-16-024R0 - Incorporate CO #269 NTE Increase, MOD 516 WESF K3 Ventilation and Stabilization Project												2,484 (439)	0	439		2,484
BCR-013-16-025R0 - Deferral of Small Container Commercial Repack Planning Package												(1,830)	668	1,162		0
BCR-030-16-037R0 - Deferral of Small Container Commercial Repack Planning Package												(352)	352			0
BCR-040-16-010R0 - Deferral of Increased Planning Capability Planning Package															5,000 (484)	5,000 (484)
BCR-041C-16-019R0 - PBS RL-041 Undistributed Budget Adjustments July 2016																
BCR-PRC-16-041R0 - Undistributed Budget Adjustments July 2016																
c. PM BASELINE (END OF PERIOD)	4,667,589	41,616	32,050	43,548	35,087	33,290	36,428	29,200	3,391,477	391,653	471,323	488,734	414,164	360,434	8,413	5,526,198
7. MANAGEMENT RESERVE																66,696
8. TOTAL																5,592,894

CLASSIFICATION (When Filled In)

CONTRACT PROGRAM MANAGEMENT REPORT FORMAT 4 - STAFFING												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) 2016 / 06 / 20			
b. LOCATION (Address and ZIP Code) Richland, WA			b. NUMBER RL14788		b. PHASE			b. TO (YYYYMMDD) 2016 / 07 / 24					
			c. TYPE CPAF		d. SHARE RATIO		c. EVMS ACCEPTANCE <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES 2009 / 09 / 18						
5. PERFORMANCE DATA													
WBS.Resp Org Group ORGANIZATIONAL CATEGORY (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)						ENTER SPECIFIED PERIODS				
			+1 AUG 2016 (4)	+2 SEP 2016 (5)	+3 OCT 2016 (6)	+4 NOV 2016 (7)	+5 DEC 2016 (8)	+6 JAN 2017 (9)	REM FY2017 (10)	FY2018 (11)			
300 - Office of the President	14	631	5	5	6	6	6	6	6	6	48	63	777
303 - Internal Audit	5	411	5	5	5	5	5	5	5	5	40	60	541
304 - General Counsel	4	381	4	5	5	5	5	5	5	5	39	60	509
31 - Communications	8	898	10	10	9	9	9	9	9	9	72	108	1,134
32 - Safety Health Security & Quality	57	6,417	67	69	64	64	64	64	64	64	509	775	8,093
34 - Env Program & Strategic Plng	39	4,248	41	40	48	48	48	47	47	47	375	602	5,497
35 - Business Services	56	6,810	68	66	68	68	68	68	68	68	539	761	8,516
36 - Prime Contract & Proj Integr	52	4,172	59	57	68	68	68	68	68	68	538	643	5,739
38 - Project Technical Services	34	5,130	40	41	36	36	36	36	36	36	287	427	6,068
3B - PFP Closure Project	350	44,681	357	354	399	382	359	353	353	353	1,417	38	48,342
3C - Waste & Fuels Management Project	352	45,086	326	318	342	344	343	342	342	342	2,698	3,762	53,832
3D - Soil & Groundwater Remediation	304	32,061	286	269	272	280	273	255	255	255	2,185	3,423	40,105
3G - K Basin Oper & Plateau Remediation Proj	326	42,703	370	324	294	285	286	288	288	288	2,422	3,311	50,650
g. TOTAL DIRECT	1,601	193,630	1,639	1,563	1,615	1,598	1,568	1,546	1,546	1,546	11,170	14,033	229,803

CLASSIFICATION (When Filled In)

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) 2016/06/20	
b. LOCATION (Address and ZIP Code) Richland, WA 99354			b. NUMBER DE-AC06-08RL14788		b. PHASE Base		b. TO (YYYY/MM/DD) 2016/07/24		
			c. TYPE CPAF	d. SHARE RATIO	c. EVMS ACCEPTANCE 2009/09/18 NO YES X				
	BCWS	BCWP	ACWP	SV in \$	SV in %	CV in \$	CV %	SPI	CPI
Current:	41,616	41,536	43,608	(80)	-0.2%	(2,072)	-5.0%	1.00	0.95
Cumulative:	4,667,589	4,611,279	4,447,621	(56,310)	-1.2%	163,658	3.5%	0.99	1.04
	BAC	EAC	VAC in \$	VAC in %	TCPI				
At Complete:	5,526,198	5,347,089	179,109	3.2%	1.02				
Explanation of Variance/Description of Problem:									
Current Period Schedule Variance: The variance is within reporting thresholds.									
Current Period Cost Variance: The current month negative cost variance is due to PBS RL-0011 subcontracted labor support costs being higher than planned, consumable materials costing more than planned due to the extended time frame that is taking to complete discrete field work and more Personal Protective Equipment (PPE) (PAPRs, SCBA, etc.) to support implementation of more conservative radiological controls are driving the increased costs for PFP to achieve Slab on Grade (-\$6.6). The variance is partially offset due to PBS RL-0012 reduced requirements for oversight in Project Management, engineering support to Annex/Basin equipment installation, and support to equipment procurements, which are all level of effort (+\$1.3). Also contributing to the offset is PBS RL-0013 significant efficiencies in labor utilization. This is attributable to the continued implementation of planned efficiencies such as: resource sharing across multiple scopes of work in areas of engineering, training, emergency preparedness, corrective action management and environmental management, as a cost cutting measure (+\$2.2).									
Cumulative Schedule Variance: The variance is within reporting thresholds.									
Cumulative Cost Variance: The variance is within reporting thresholds.									
Impact:									
Current Period Schedule: The lifecycle EAC has been updated. No other significant impacts overall.									
Current Period Cost: No significant impact overall, the lifecycle EAC has been updated.									
Cumulative Schedule: N/A									
Cumulative Cost: N/A									
Corrective Action:									
Current Period Schedule: No Corrective Actions are needed at this time; within threshold.									
Current Period Cost: EAC has been adjusted accordingly.									
Cumulative Schedule: N/A									
Cumulative Cost: N/A									
Monthly Summary (to include technical causes of VARs, Impacts, and Corrective Action(s):									
CHPRC continues to track completion of contract scope within budget and is currently projecting a Variance at Completion of \$179.1 million with \$66.7 million of Management Reserve (MR) for a total positive variance of \$245.8 million. For July, the project was 0.2 percent behind schedule and 5.0 percent over planned cost. Contract to Date (CTD), the project was 1.2 percent behind schedule and 3.5 percent under planned cost.									
There were two significant BCRs in the period that impacted the PMB; BCR-013-16-024R0 – <i>Incorporate CO #269 NTE Increase, MOD 516 WESF K3 Ventilation and Stabilization Project</i> and BCR-041C-16-019R0 – <i>PBS RL-0041 Undistributed Budget Adjustments July 2016</i> .									
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 +\$179.1 million, +3.2% and is within reporting thresholds.									

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

Format 1 and 3 Contract Data:		Contract Price Adjustments	
CPs - In Process			
	Total Authorized Unpriced Work		\$31,043
Approved Adjustments to Contract Price (not reflected in B.4-1 Table)			
	Total Negotiated Cost Changes		-
	Grand Total Adjustments		\$31,043

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

Undistributed Budget Activity

BCR Number	Title	Fiscal Year	UB
BCR-041C-16-019R0	<i>PBS RL-0041 Undistributed Budget Adjustments July 2016</i>	2015 - 2018	\$ 5,000K
BCR-PRC-16-041R0	<i>Undistributed Budget Adjustments July 2016</i>	2015 - 2018	\$ -484K

The Undistributed Budget increased by \$4,516K for an overall increase to the PMB of \$7,000K during July.

Management Reserve Activity

BCR Number	Title	Fiscal Year	MR
N/A	N/A	2015 - 2018	N/A

Overall, there was an increase of \$3,124K to Management Reserve (MR) during July.

Fee Activity

BCR Number	Title	Fiscal Year	Fee
BCR-PRC-16-047R0	<i>Reallocation of Fee</i>	2015 - 2018	\$1,250K

Overall, there was an increase \$1,250K to Fee during July.

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: 8/16/2016	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

July 2016
CHPRC-2016-07, 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

T. A. Heidelberg
Vice President for
Business Services
Chief Financial Officer

PROGRAM SUMMARY

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

EMS Objectives and Target Status

Objective #	Objective	Target	Due Date	Status
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	40%
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*	25%
16-EMS-ADMIN-OB3-T1	Energy and natural resource conservation.	Establish electronic signature system for contracts using Adobe Acrobat.	9/30/16	100%
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	82%
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	66%

*This O&T cannot be closed out completely until after FY2016 ends. Progress will be at least 60 percent by August 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	4	N/A
Near-Misses	0	0	N/A

KEY ACCOMPLISHMENTS

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

- There were no injuries during the month of July in the functional groups.
 - o Occupational Safety and Industrial Hygiene (OS&IH) accomplishments:
 - Beryllium assessments have been completed on 1314 CHPRC facilities. Beryllium characterizations have been completed on 1214 CHPRC facilities.
 - Participated on committee for endorsed Scaffold Procedure development.
 - Provided support to PFP, W&FMP, PTS, and KBO&PR for asbestos characterization activities.
 - Assisted W&FMP with developing a path forward on Trench 94 excavation issues.
 - Completed implementation of the Respiratory Protection Electronic Tracking program.
 - Developed visual media (MSA TL posters) of cartridges to all issuance stations.
 - o Radiological Control accomplishments:
 - Continued support for Survey Simple, to include V5.3 update.
 - Continued oversight at PFP for specific high hazard activities (242Z and PRF Canyon).
 - Supported PFP with development of Technical Equivalency Determination (TED) for PRF demolition.
 - Prepared due diligence radiological survey plan for 618-10. Continued support for project Hazard Review Boards, In-Progress ALARA Reviews and causal evaluations.
 - Continued support of RCCC transition planning activities.
 - Supported Hanford Personal Dosimetry Advisory Committee (HPDAC) and Radiological Exposure System (REX) User's Group forums.
 - Prepared second Quarter ALARA presentation and held dry run meeting.
 - o Nuclear Operations Support & Compliance accomplishments:
 - Safety Basis documents and letters transmitted to RL include:
 - Letter, CHPRC-16025610A R1 dated July 5, 2016, *Transmittal of PRC-PRO-NS-062, Revision 3, Unreviewed Safety Question Process, and PRC-PRO-NS-53097, Revision 0, Determining Applicability of the USQ Process, for RL Review and Approval.*
 - Letter, CHPRC-1603084, dated July 14, 2016, *Transmittal of the Documented Safety Analysis for the Reduction-Oxidation Facility, HNF-13830, Revision 6, the 2016 Annual Summary of Reduction-Oxidation Facility Unreviewed Safety Question Determinations,*

and the Fire Hazards Analysis for the Reduction-Oxidation Facility, CP-45673, Revision 1.

- Letter, CHPRC-1603241, dated July 28, 2016, *CHPRC Submittal of the Plutonium Finishing Plant Documented Safety Analysis, Revision 14, and the Plutonium Finishing Plant Technical Safety Requirements, Revision 14, for RL Review and Approval.*
- Letters received from RL:
 - Letter, 16-NSD-0055_RL, dated June 24, 2016, *Transmittal of Surveillance Report, “Internal Load Securement Plan for North Load Out Pit (NLOP) Equipment (1800-TL Container, Industrial Package-2 [IP-2], #70) Surveillance” (S-16-NSD-SNF-001).*
 - Letter, 16-NSD-0057_RL, dated July 13, 2016, *Approval of CP-59591, Revision 0, Hazard Categorization for Plutonium-Uranium Extraction Facility Segments 203-A, 211-A, 214-A, and 271-AB.*
 - Letter, 16-NSD-0062_RL, dated July 21, 2016, *Transmittal of Approval to Downgrade 276-BA Hazard Categorization (HC).*
 - Letter, 16-NSD-0056_RL, dated July 21, 2016, *Approval of HNF-58818, Revision 0, Documented Safety Analysis (DSA) for the 216-Z-9 Waste Storage Crib Facility, and HNF-59125, Revision 0, 216-Z-9 Waste Storage Crib Facility Technical Safety Requirements.*
- Other
 - Letter, CHPRC-1602898, dated July 7, 2016, *Transmittal of the 2015-2016 Annual Unreviewed Safety Question Summary for CHPRC Transportation Safety.*
 - Received RL concurrence of CHPRC-02944, Revision 1, *Criteria Document for Development of One-Time Request of Shipment of Engineered Container Retrieval and Transfer System Sludge.*
 - Received RL concurrence of CHPRC-01393, Revision 2, *55-GAL, 85-GAL, and 110-GAL Drum Load Securement to An Open Deck Transporter.*
 - Completed closure of RL comments on HNF-4013, Revision 7, *Waste Encapsulation and Storage Facility Emergency Planning Hazards Assessment.*
 - Completed CHPRC-02975, Revision 0, *Procurement Specification for 6 ft. x 3 ft. x 3 ft. DOT Specification 7A Container with Grout Ports.*
 - Provided *Criticality Safety Training for Support D&D Workers.*
- o Contractor Assurance Regulatory Reporting (CARR) accomplishments:
 - 215 Condition Reports (CRs) were screened:
 - One significant issue identified
 - Three adverse issues identified
 - 109 Track until Fixed (TUF) issues identified
 - 36 Trend Only (TO) items identified
 - 65 Opportunity for Improvement (OFI) items identified
 - One Screened Out
 - 221 CRs administratively closed.
 - 303 CRs actions administratively closed.
 - Completed Root Cause Evaluation and transmitted final ORPS report for EM-RL-CHPRC-PFP-2016-0005, *Near Miss – Transportation of Pencil Tanks.*
 - Provided support and coordination for DNFSB Chairwoman Connery visit/review of CHPRC Projects.
 - Provided support and coordination for the Bi-Monthly conference call with the DNFSB to discuss the PFP demolition planning and readiness assessment status as well as the Bi-Monthly DNFSB Site Representative Meeting.
 - Ten documents were provided in response to DNFSB requests for information.

- Published the June 2016 Contractor Assurance System Summary Report
- One external Lessons Learned and one internal Lessons learned were submitted to OPEXShare in July 2016: 2016-RL-HNF-0012, *Planning Document Conversion before Facility Transition* (external); and LL-2016-PFP-0003, *Lack of Comprehensive Planning Leads to Unfavorable Trend in Radiological Contamination Control Incidents* (internal).
- o Performance Oversight, Assessment, and Quality Assurance accomplishments:
 - Initiated Nuclear Safety Performance Evaluation Board review SHSQ-2014-NSPEB-13327 on the KBO&PR.
 - Completed in-field activities and issued final report for the *Unanticipated Chemical Reaction during Waste Load-Out Effectiveness Review* at PFP.
 - Completed Audit of Office of Civilian Radioactive Waste Management QA Program.
 - Completed in-field activities and issued final report for the 10 CFR 835, Subpart C, “Standards for Internal and External Exposure,” surveillance activity.
 - Facilitated an Assessment Planning Workshop on July 20, 2016.
 - Commenced the annual PFP Suspect Counterfeit Surveillance.
 - Presented status of Energy Facility Contractor Group (EFCOG) activities on Safety Culture to the DOE Safety Culture Improvement Panel.
 - Supported PFP Readiness Assessment Activities.
 - Developed frame work for Doing Work Safely Workshops to develop Human Performance Improvement initiatives across the project.
 - Provided briefings to trainers and S&GRP on the Doing Work Safely Workshops.
- o Fire Protection accomplishments:
 - Began development of a Fire Alarm Replacement Project.
 - Installed berms in 105KW Basin.
 - Completed 324 Fire Hazards Analysis evaluation and developed a strategy for the Implementation Plan.
 - Completed due diligence report for 618-10 and provided results to the Project Transition Team.
 - The following assessment activities were completed:
 - SWOC:
 - o 2T-16-03213/S, T Plant 3 Month Combustible Surveillance
 - PFP:
 - o SR 5.12.4.2 – Monthly Inspection of sprinkler deactivation or deviation areas
 - o SR 5.18.4.2 – Monthly inspection of facility and exterior for compliance with fire protection combustible controls
 - o SR 5.19.4.3 – Monthly inspection of facility for energized power cords, energized battery chargers and spontaneous ignition source material
 - o SAC 5.20.2 – Bi-weekly inspection of front side ventilation zone 1 areas – performed by FSO (2)
 - FHA status:
 - o The 105KW Complex FHA has been transmitted to the Hanford Fire Marshal
 - o The PUREX FHA has been transmitted to the Hanford Fire Marshal
 - o The WESF FHA has been transmitted to the Hanford Fire Marshal
 - o Building 402 FHA is in development

- Status of SHS&Q Focus Areas:
 - **Issue:** Beryllium (Be) program assessment findings from DOE-HQ, Office of Safety, Health and Security Independent Oversight Inspection report.
 - **Status:** Comment resolution is complete for Revision 3.
 - **Action:** Beryllium (Be) facility assessments and characterization on schedule. Beryllium facility assessments have been completed on 1314 CHPRC facilities. RCCC work scope is being reviewed for Be implementation and potential concerns for due diligence prior to transition to CHPRC.
 - **Issue:** Accident & Injury Reduction.
 - **Status:** Continue investigating recordable, DART, and first aid injuries to determine cause, prevention, reduction, to prevent recurrence.
 - **Action:** Continue interface with project personnel, supporting EZAC and project safety meetings for continued focus on injury prevention.
 - **Issue:** PFP Support.
 - **Status:** Supporting PFP with dedicated OS&IH personnel and RadCon personnel, from the SHS&Q Central group for oversight of high risk work activities.
 - **Action:** Supporting PFP demolition readiness preparations.
 - **Issue:** Fire Protection program weaknesses.
 - **Status:** Program continues to improve. New MSA Hanford Fire Department (HFD) Marshal (Adam Moldovan) has improved the working relationship with CHPRC Fire Protection personnel and is willing to address long standing issues.
 - **Action:** Continued interface with MSA regarding CHPRC back log items.

Environmental Program and Strategic Planning (EP&SP)

Environmental Protection

- **Compliance Status**
 - Completed and certified the CHPRC information contained in the Semi-Annual Report for the Hanford Site Air Operating Permit.
 - Supported WESF with several issues related to shutdown of WESF K-1 and K-3 radioactive air abatement systems, and switch-over to temporary abatement systems, pending completion of the ventilation upgrades. The temporary measures are addressed in a WDOH approval for completing and bringing on-line the ventilation upgrade project.
 - Several facility radioactive air abatement system repairs were completed: the PUREX monitoring sample line, the T Plant stack redundant fan motor repair, and the air inlet system repair that allowed WRAP stack flow to return to its authorized flow rate.
 - There were two regulatory agency compliance inspections of CHPRC managed areas and facilities: Hanford Facility RCRA Permit annual inspection of the 300 and 400 Areas, and a RCRA compliance inspection of the 207-A South Retention Basin final closure. There were no spills or releases requiring reporting to regulatory agencies, and no agency enforcement actions.
 - Provided a path forward for the REDOX roof replacement project for compliance with cultural resource and clean air compliance requirements that will support planned work execution.

Environmental Compliance & Quality Assurance (ECQA)

- **Assessment Program**
 - An external assessment of the corrective actions taken in response to issues identified in the CHPRC Clean Sweep RCRA Assessment was completed on July 21, 2016. The assessment team was comprised of two senior Health, Safety, Environmental and Quality professionals from CH2M Corporate. The objective of the assessment was to review the adequacy and effectiveness of corrective actions and to determine if common trends existed among findings from past CHPRC RCRA compliance assessments. The assessment team identified 18 corrective actions

and opportunities for improvement in condition reports that were not adequate or effective and require further attention.

- o An external assessment of CHPRC compliance with updated HASQARD requirements and assessment of field sampling operations was completed on July 31, 2016. The assessment team was comprised of two quality assurance assessors from CH2M Corporate and the National Security Technologies Site in Las Vegas, Nevada. The assessment team identified 5 findings and 3 observations.

Business Services

• Acquisition Planning:

- o Issued a Buyer's Technical Representative (BTR) notice that focused on lessons learned from a lock-out/tag out incident and reminded BTRs of the proper way to identify training requirements using Subject Matter Experts and Points of Contact.
- o Issued a general BTR notice as a reminder of upcoming fiscal year-end activities.
- o Commenced review of procurement files in support of the balanced scorecard procurement system compliance program review. To date, 32 files were reviewed with no significant findings.
- o Developed FY2017 procurement forecasts for strategic sourcing goals.
- o Revised and developed several statements of work relating to RCCC transition. Drafted and submitted for review the Breathing Air Trailer rental services Scope of Work (SOW), as well as revised SOWs for technical assistance contracts.
- o Met with MSA Fleet Services to determine and facilitate the transition of RCCC rented equipment and the assignment of fuel credit cards.
- o Met with MSA Safeguards and Security to discuss an appropriate method for changing badge assignments for RCCC subcontractors that are being assigned to CHPRC.
- o Drafted and revised a lease agreement for securing warehouse space for the ongoing 618-10 sampling operations.
- o Reviewed the set of RCCC rental agreements that will be necessary to continue after transition.
- o Evaluated, and documented the continuing need for sludge construction work in the 100K West Area. Reviewed and revised the field estimate for the overall construction effort.

• Facilities & Property Management (F&PM):

- o FY2016 Physical Property Inventory review continues with field work completion date of August 31, 2016. Final inventory review reports and Balanced Score Card will be submitted by October 31, 2016. F&PM has completed locating 63.91 percent of 3,317 items through July 2016.
- o F&PM completed asset validation for remaining property being associated with RCCC Transition. No issues, 95 percent+ confidence level recorded.
- o CHPRC reviewed transferring GSA vehicle list from RCCC scope. It was determined that the list contained vehicles in excess of CHPRC needs. Currently working with Washington Closure Hanford (WCH) to disposition excess vehicles prior to transition.
- o 2420 Stevens move planning continues. Floor layouts and move forms complete. Initial draft integrated schedule developed. Modifications identified and Plant Forces Work Review (PFWR) in development. Major move activity expected to start in October.

• Finance:

- o July month end completed with no suspensions.
- o Many staff hours spent gathering supporting documentation as requested for the FY2015 Incurred Cost Report audit.
- o Reviewed comments and initiated further discussion regarding review of Disclosure Statement #9.

- o Completed Department of Revenue audit of FY2012-2015. The Department of Revenue will issue CHPRC a tax refund of \$808,544 plus interest in August. The refund is related to subcontracts with labor cost that is not subject to use tax.
- o Supported Time and Attendance Internal Audit. Findings will require follow-up with employees and managers to document upgrades and safety expo attendance. Final conclusion: “Based on the results of the audit tests performed, Internal Audit concluded that practices were well controlled and substantially compliant with CHPRC policies and procedures, contractual terms, regulatory requirements, and sound business practices.”
- **Human Resources:**
 - o Human Resources presented at the Woman’s Network, a development topic on interviewing skills. The information addressed how to interview better by developing effective communications, and how to conduct better interviews through following a clear thought process for organizing interview questions.
 - o The fourth Career Ascent workshops series started in July and is scheduled to run through September. An additional Workshop series, to start in January of 2017, will be added to meet additional demand.
 - o Hosted a Hanford Site tour for CHPRC 30 Summer Interns.
 - o The Shilo Inn has been selected as the venue to support the WCH transition scheduled for August 29. A coordinated effort with all of Business Services is underway to meet the demands of transitioning over 177 people.
 - o Staffing continues to make improvements to the processes associated with New Hire Orientation to meet the demands of the WCH Transition. During the first week in August, WCH employees transitioning will begin to receive information that will help expedite the process, including newly developed electronic forms.
 - o HR joined the team of volunteers supporting the Arc of Tri-Cities Partners N’ Pals horseback riding camp.
- **Labor Relations:**
 - o CHPRC became signatory to the Hanford Site Stabilization Agreement on July 21, 2016.
 - o Continued transition activities for the remainder of HAMTC represented employees transferring with the 618-10 and ERDF work scope from WCH to CHPRC at the end of August 2016.
 - o Arbitration originally scheduled for December 15-16, 2015, to address HAMTC’s General Council grievance in regards to D&D activities at PFP has been postponed. Parties continuing to discuss and exchange settlement proposals with the intent to try and resolve issue without proceeding to arbitration.
 - o Grievances PRC-015-051 and PRC-016-014 continues dealing with purchasing items (i.e. pipe spools) from offsite vendors have been requested to proceed to arbitration, although the union put a hold on selecting the panel until they can further review.
 - o Grievance PRC-016-009 dealing with discipline has been withdrawn by the union as of July 28, 2016.
- **Procurement:**
 - o Awarded/amended 77 contracts with a total value of \$3.4 million. Additionally, awarded 114 new material Purchase Orders (PO) valued at \$299,483 to support ongoing project objectives.
 - o At the end of the first 94 months of the CHPRC project, procurement volume has been significant; \$2.375 billion in contract activity has been recorded with approximately 53.22 percent, or \$1.26 billion, in awards to small businesses. This includes 7,345 contract releases, 21,008 POs, and 250,799 P-Card transactions.
 - o Contract 60552 was awarded to Controlled Demolition, Inc. on July 20, 2016. This is a firm fixed price contract for 291-Z Exhaust Stack Explosive Demolition. This award is valued at \$239,700.

Prime Contract and Project Integration (PC&PI)

- **River Corridor Closure Contract (RCCC) Transition:**
 - o The following Change Proposals (CPs), which were the last two CPs required for RCCC transition, were submitted to RL on July 27, 2016:
 - CP 041 304 1613 - Minor Capital Funded Projects RCCC Transition Add-Ons
 - CP 041 304 1615 - Surveillance & Maintenance Sites RCCC Transition Add-Ons
 - o Responses were provided to RL's initial comments on the life-cycle PMB for the RCCC Transition scope were provided to RL.
 - o Responded to the data call for the DOE-HQ ICE review planned in August 2016 for the Capital Asset portion of the RCCC scope transitioning to CHPRC.
 - o Initiated preparations for formal CHPRC PRB planned for August for RCCC transition capital asset scope.
- **Prime Contract Compliance:**
 - o In July, CC&CM received and processed 11 contract modifications (505, 508, 509, 517-523, 525) from RL.
 - o The Correspondence Review Team received and determined the distribution for 63 incoming letters/documents. The Prime Contract Compliance Manager reviewed 30 outgoing correspondence packages.
 - o Issued three Notice of Change Letters: CHPRC-1602070AR1, *Notification of Change for Impacts to 200-BP-5 and 200-PO-1 Operable Unit Remedial Investigation Reports, Feasibility Study and Proposed Plan*; CHPRC-1602810, *Notification of Change Regarding Canister Storage Building Laydown Area and Burial Grounds 3A, 4B, 4C, and 12B Cleanup*; CHPRC-1602083AR1, *Notification of Change for Impacts to 100-N Operable Unit Remedial Investigation/Feasibility Study and Proposed Plan*.
 - o Submitted the following FY2016 Performance Measure Completion Packages:
 - PM-40-3-16, *Complete REDOX Roof Design*.
 - PM-30-4-16, *Install additional Membrane BioReactor (MBR) cassettes at 200 West Pump and Treat*.

Integrated Services

- **Estimating & Program Support**
 - o Two CPs/REAs were submitted to RL on July 27, 2016):
 - CP 041 304 1613 -Minor Capital Funded Projects RCCC Transition Add-Ons.
 - CP 041 304 1615 - Surveillance & Maintenance Sites RCCC Transition Add-Ons.
 - o 25 CPs/REAs have been submitted on or ahead of schedule FY2016 to-date with zero CPs/REAs submitted late. Initiated development of four CPs/REAs:
 - CP 013 PRC 1619 - WESF Monitoring Low Cost Alternative.
 - CP 013 PRC 1620 - WESF Storage Basin Analysis and Quarterly Report.
 - CP 041 305 1616 - 300-296 Waste Site Design Change.
 - CP 041 307 1621 - 100-K Additional Tons FY2016 and FY2017.
 - o Supported development of RCCC life-cycle PMB and associated BCRs.
 - o Miscellaneous Estimating Support:
 - Supported RL's request for additional information on Change Orders:
 - 289-1563 - Initiation of Transition Planning for the RCCC Work Scope.
 - 294-1570 - 100-KR-4 RI FS Decisional Rewrite.
 - 299-1578 - 200 West P&T System Membrane Bioreactor Cassette Additions.
 - 304-1592 - Initiate Transition of RCCC Scope Activities into the PRC - RCC Transition Implementation.
 - Supported development of the RL-0041 input to the FY2017 PMB ETC updates/long-range planning for submittal to RL.

- Prepared a Record Order of Magnitude (ROM) estimate in support of RL’s request to evaluate the option to access the 316-4 Waste Site for remediation through 618-10 Waste Site remediation trench.
- **Interface Management:**
 - o Interfaces (Technical, Administrative and Regulatory):
 - Facilitating request to expedite approval of Waste Treatment Plant/Washington River Protection Solutions (WRPS) Direct Feed Low Activity Waste (DFLAW) transfer line excavation permitting. Proposed lines would traverse CHPRC owned waste sites.
 - Supporting and facilitating communications between WRPS at 222-S and CHPRC at REDOX. Attending WRPS 222-S Plan of the Week (POW) to enhance the flow of communication between WRPS and CHPRC.
 - o Annual Forecast of Services:
 - Worked with the MSA and the other Hanford major contractors, submitted the FY2016 Infrastructure and Services Alignment Plan (ISAP) on July 28, 2016, four calendar days ahead of the August 1, 2016, due date. This was the 5th consecutive year of “on-time” schedule performance for submitting the annual ISAP update since FY2012.
 - Submitted the preliminary FY2017 MSA usage based services forecast to the MSA.
 - o Controlling and Service Agreements:
 - Final Interface Control Document with WRPS regarding the future use of the existing ERDF Leachate Transfer Line and additional tie-in interfaces related to the new Leachate Transfer Line to the 200W P&T was signed and is awaiting release.
 - Completed and published revision 1 of the Service Level Agreement with Wastren Advantage, Inc. (WAI) for analytical services.
 - Completed the inter-contractor review of the CHPRC/MSA AIA, SWITS Barcode Labels to New Waste Containers, HNF-41866, Revision 3. The document is currently routing for approvals.
 - Drafted changes to Memorandum of Agreement MOA-WRPS-CHPRC-2009, Revision 6, for the performance and payment of services between WRPS and CHPRC; routing for final concurrence.
 - Received Annual Review request for TOC-ICD-PRC-00034, Interface Control Document between WRPS and CHPRC for Lock and Tag Authority for specific Breakers at Canister Storage Building. Sending out to the Projects for review and input.
 - o J.3 Table Maintenance:
 - In process updates being tracked for the RCCC Transition effort. Team meetings with MSA/WRPS to work on updates to the J.3 table will continue through the transition. A draft update of the J.3 table that captures known impacts of the transition is with the Other Hanford Contractors for review. The final update of the J.3 table will be sent to RL as a post transition action.
 - o J.13 and J.14 Tables – Quarterly Update:
 - Continued efforts in support of the quarterly review and update of the J.13 and J.14 tables. Proposed transfers in assignment of structures and waste sites between CHPRC and other Hanford contractors have been reviewed by IFM and are currently being evaluated by affected CHPRC Project personnel for determination of acceptance/rejection.
 - Confirmed Long Term Stewardship designations for changes to the J.14 tables. Sites of interest were related to 100-IU-6 and Segment 4B WIDS sites.
 - o Internal Operations:
 - Continue working toward completion of the remaining 12 CRRS actions resulting from the IFM work site assessment of SOWs for services provided to CHPRC by MSA. These actions involve corrections/changes to specific Project SOWs to align with Procurement templates,

- J.3 usage-based service definitions, and other pertinent interface agreements. To assist facility BTRs/POCs in this effort, SOWs have been redlined with recommended changes and will be sent out with a communicate from IFM in the near future.
 - Facilitating project kickoff for the replacement of obsolete Fire Alarm Control Units. Working interface relationships, as needed, with the MSA Radio Fire Alarm Reporter project team.
 - Working several documents revisions/cancellations related to the RCCC scope transfer to PRC. Involved parties include City of Richland, PNNL, and MSA.
- **Information Management:**
 - o Processed 23,853 Electronic Records into the Integrated Document Management System (IDMS).
 - o Continued support to W&FMP for documentation of requirements for Field Automated Checklist Tracking System (FACTS).
 - o Continued work on analysis, planning, and implementation of software application migrations in support of RCCC transition.

Project Integration

- **Overall:**
 - o CHPRC submitted the FY2017 PMB Update/Long Range Plan to RL for review and comment on July 26, 2016, two days ahead of the due date.
 - o During July, Project Integration facilitated and supported the processing of 11 BCRs.
 - o Continued to support the DOE PM-30/EFCOG initiative to update the DOE Earned Value Management System Interpretation Handbook (EVMSIH) by participating in the DOE-HQ Office of Project Management Oversight & Assessments (PM-30), sponsored team performing an Earned Value Management System (EVMS) recertification review of the Uranium Processing Facility (UPF) Project at Oakridge, Tennessee.

Program Integration

- **000 Project EVM Support:**
 - o Prepared and led the indirect quarterly cost performance review meeting with senior leadership.
 - o Prepared updated Realized Hours calendar for FY2017 and FY2018.
 - o Completed FY2017 ETC narratives and all back-up documentation for the 000 indirect accounts for the FY2017 PMB/ETC submittal delivered to RL on July 26, 2016.
 - o Reviewed data and responded to information requests for the overtime on training analysis, as identified by FTI Consulting. Calculated average premium rate. Prepared average labor rate for report presentation.
- **Risk Management and Reporting:**
 - o Performed risk register reviews for the CHPRC Projects. In addition, supported the projects with 11 BCRs that were processed in the month of July.
 - o Supported the Independent Cost Estimate for RL-0041 CAP, RCCC transition work scope.
 - o Issued the CHPRC June Monthly Report to RL.
 - o Issued the CHPRC June Monthly Highlights to the Nuclear Business Group.
 - o Led an Integrated Project Team review of PFP and STP Field Execution Schedule Practices. The report will be finalized in August.
- **Strategic Management:**
 - o Progress continues to be made towards completion of the Productivity Corrective Actions. Completed 23 of 24 actions (status at 96 percent).
 - o Finalized the Integrated Priority List (IPL) and briefed to RL. Incorporated RL comments and the IPL was used to prioritize work for the FY2017 PMB/ETC update. Led development of the Long Range Planning information provided with the FY2017 PMB/ETC update delivered to RL on

July 26, 2016. The Long Range Planning deliverable included a narrative summary of scope, work breakdown structure dictionaries, basis of estimates, and cost reports for FY2017 and FY2018.

- o Responded to Internal Audit preliminary report on Productivity Report Corrective Action Documentation and provided management response with corrective action.
- o Held monthly Productivity Tracking Log meeting with the projects. Discussed company level metrics and Projects briefed their metrics of productivity delays and efficiencies. Began documenting each projects process to determine data consistency.
- o Drafted PRB Plan for RL-0041 CAP for PRB to be conducted in August. Obtained data from project personnel and assisted in the development of the RL-0041 CAP Project Execution Plan.
- o Prepared a summary on the complexity of performing upgrades and cell stabilization at WESF for discussions with RL.
- o Developed a summary table by project of CHPRC and out-year Tri-Party Agreement milestones as a tool used for near term and out-year planning.
- o Received and dispositioned the few technical comments from RL on the Hanford Iodine 129 inventory white paper and discussed approach to including in an appendix in the Inventory Data for the Composite Analysis.

Project Technical Services (PTS)

• Engineering Services

- o Participated in the Project Review Board for the technical review of River Corridor Project 300-296 Soil Remediation Project to assess the design completion and readiness of the project.
- o Supported the W-130 HVAC duct assembly's Nonconformance Reports (NCR).
- o Supported the REDOX Roof design report.
- o Provided support for the electrical safety Site wide programs.
- o Reviewed conditions regarding acceptability of continuing use of passive Alpha Caisson filters that have exceeded 12 year age and disposition of related spares that have exceeded 10 years age. The filters are not credited but are included in the air permit. The Design Authority has now drafted a technical evaluation for one of the several filter applications. Efforts are underway to review and append the technical evaluation to improve its content.
- o Drafted a testing and balancing (TAB) procedure for the adjustment of the WESF canyon and G-cell ventilation in support of the W-130 project. The TAB function was previously contractually declined by the contractor.
- o Supported LMSI to facilitate installation of Solidworks into Software Distribution as a network application. Software is available for engineers and designers to perform conceptual level 3D design and stress analysis.

• Procedures and Training

- o Continued RCCC transition support for training materials and procedures.
- o Completed training review board for RadCon RCT Biannual examination.
- o Completed 5 program strategy sessions.
- o Contracted support with WRPS to secure Training Specialist support for the upcoming PFP readiness assessment (RA).
- o Participated in a Soil and Groundwater procedure validation/walk down for a Management Observation Program.
- o Training group met with 100K to further clarify expectations for Performance Demonstration. The decisions made will be codified in CHPRC program documents.
- o PFP RSA (CR-3 TN-1) has been approved and signed by Training and was submitted to PFP Operations management.

- **Operations Program**
 - ConOps/Work Control/Conduct of Work
 - Supported readiness activity planning for pre-transition of 618-10 burial grounds and plan of action development for ECRTS.
 - Developing program strategies for WCH transition to eliminate blue sheeted procedures.
 - Continued support to Fire Systems Maintenance status reports to enhance tracking performance of PM activities.
 - Completed closure of post start items for B-324 transition.
 - Supported causal analysis for Greenlee phase meter failure.
 - Supported causal analysis for LOTO violation at S&GRP.
 - Supported two critiques for hazardous energy control issues.
 - Researching proposed changes to JCS to support FIMS reporting and potential impacts to projects
 - Supported PTS in developing strategy for hazard analysis for shop work at 2610E.
 - Began collecting documents for upcoming DOE HQ Maintenance Program assessment.
 - Conduct of Work Mentor completed electrical work oversight at 100K.
 - Emergency Preparedness (EP)
 - New EP Manager started July 11, 2016.
 - New EP Coordinator will start August 15, 2016.
 - Completed Annual EP Program assessment, five findings, and six opportunity for improvements.
- **Project Delivery**
 - **S&GRP Projects**
 - 289T FBR and CS platforms
 - Completed Construction Completion Documents (CCD) on CS 6-PAK tank platform.
 - **WESF W-130 Stabilization**
 - Commenced the K3N Tie-in outage.
 - Completed hot pipe trench investigation.
 - Completed core drilling on K3 filter pit.
 - Commenced backfilling and removal of shoring around the K3N exhaust skid.
 - **S&GRP Wells**
 - Completed the 2 miles of bonding of HDPE for HJ15.
 - Installed tanks at DV-1 and commenced mechanical and electrical install.
 - 15 of 19 wells completed CCD
 - Installed and bonded 14.4 miles of HDPE installed and bonded (estimated .4 miles remaining)
 - Installed 20 miles electrical cable and fiber installed (estimated 2 miles remaining)
 - 19 of 19 road crossings completed.
 - **KBO-PR Projects**
 - REDOX Roof
 - Mobilization provisionally scheduled for week of August 29
 - **Trench 94**
 - Completed repairs to all 10 of the initial Reactor Components Design (RCD) packages (2,883 SF repaired).
 - Commenced repair work on second set of RCD packages identified during the Navy inspection.
 - **CSB Rolling Gate Repairs**
 - Received contractor's proposals for performing repairs to the North and South Rolling gates.
 - **CWC Roof Repairs**
 - Ten of 13 roof repairs completed to date.

- Completed repairs at 2403WC.
- Commenced repairs at 2403WD.
- **KW Annex Construction**
 - o Performed Bi-Monthly/Quarterly and Semi-Annual PMs.
 - o Completed final alarm programming for the HVAC system.
 - o Completed final ground connections to building system.
 - o Completed stack monitoring testing per ANSI N13.1.2011 in support of ECRTS procurement.
 - o Completed the final concrete, asphalt, and site grading and backfill activities.
 - o Completed HLAN/Telecommunication installation.
 - o Completed layout of the nitrogen system tubing installation.
 - o Completed unpack and inventory of Annex/Basin Rad Panels and Equipment.
 - o Completed the installation of the remaining safety significant/seismic hangers for the fire protection piping system.
 - o Repaired and completed UL Inspection & test on Lighting Protection Cable.
 - o Continued development of grouting and lifting plans for Sand Filter Shielding installation.
- **KW Basin In Basin Modifications Construction**
 - o Completed installation of Booster Pump installation rail system.
 - o Completed structural and grating modification in support of the ECRTS process equipment installation.
 - o Completed grouting the remaining three transfer bay spill berms and completed cleanup of work area.
 - o Completed the re-installation of the grating supports above the engineered containers (EC-230 – EC-260).
 - o Trained at MASF for underwater hose connects.
- **T Plant Modification Construction**
 - o Completed all NLOP Equipment Removal work scope associated with PM-12-1-16.
 - o Installed levelling frame in Cell 14R.
 - o Performed glove box mock-up and upset condition scenarios with HRB Chair, RM, and work crew for pipe gallery work.
 - o Performed glove bag work in the Piping Gallery, removing potential asbestos-containing gaskets and valves from piping, in support of the Leak Detection System electrical installation.
 - o Removed the helium system manifolds in 214T and the Tunnel, in support of the Nitrogen Purge System installation.
 - o Continued installation activities on the Water Addition System in the Operations Gallery.
 - o Performed rebar scanning in the Operations Gallery.
 - o Continued work on the Leak detection System electrical work scope in the Operations Gallery.
 - o Erected scaffold for glove bag work to remove asbestos-containing gasket material and valves in the Piping Gallery.

Communications

- o Communications supported RL in the development of news articles that ran in local media and in the DOE EM Newsletter:
 - An article was published in the Tri-City Herald on July 14, 2016. The article announced the extension of the Tri-Party Agreement milestone for completing the demolition of the PFP from September 30, 2016 to September 30, 2017.
 - An article was published in the DOE EM Newsletter on July 28, 2016, featuring the completion of the highest hazard demolition preparations at the PFP.
 - An article was published in the DOE EM Newsletter on July 28, 2016, featuring cost savings resulting from groundwater treatment resin efficiencies.

- o Communications supported RL in the development of a social media post for “Throwback Thursday”, featuring before and after photos showing progress at the 100-D/H Area.
- o Communications supported RL in the development of public involvement materials for the 100-D/H Proposed Plan public comment period, which began on July 25, 2016.

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	0.2	0.2	0.5	(0.1)	-27.1%	(0.3)	-198.1%
Internal Audit	0.1	0.1	0.1	0.0	0.0%	(0.0)	-25.5%
General Counsel	0.1	0.1	0.1	0.0	0.0%	0.1	40.4%
Communications	0.1	0.1	0.1	0.0	0.0%	(0.0)	-4.9%
Safety, Health, Security and Quality	1.4	1.4	1.3	(0.0)	-0.1%	0.1	6.8%
Environmental Program and Strategic Planning	0.5	0.5	0.4	0.0	0.0%	0.0	9.4%
Business Services	2.0	2.0	1.8	0.0	0.0%	0.2	8.6%
Prime Contract and Project Integration	2.0	2.0	1.6	0.0	0.0%	0.4	19.9%
Project Technical Services	0.7	0.7	0.7	(0.0)	-0.3%	0.0	2.4%
Indirect WBS 000 Total	7.2	7.1	6.6	(0.1)	-0.9%	0.5	6.6%

Numbers are rounded to the nearest \$0.1 million.

Indirect WBS 000

CM Schedule Performance: (-\$0.1M/-0.9%)

The variance is within reporting thresholds.

CM Cost Performance: (+\$0.5M/+6.6 %)

The favorable cost variance is primarily due to budget allocations, based on realized calendar hours rather than User Based Services counts, having less requests for on-demand services than planned. Partially offset due to continuing performance of work under WBS 000.17.14.02.02 - Implement RCCC Transition, prior to incorporating the scope into the PMB.

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	2.9	2.9	4.4	0.0	0.2%	(1.5)	-52.1%	3.2
Internal Audit	0.9	0.9	0.9	0.0	0.0%	0.0	1.3%	1.1
General Counsel	1.2	1.2	1.6	0.0	0.0%	(0.4)	-30.8%	1.5
Communications	0.8	0.8	0.9	0.0	0.0%	(0.1)	-8.9%	1.0
Safety, Health, Security and Quality	11.9	11.9	10.1	(0.0)	-0.1%	1.8	15.3%	14.8
Environmental Program and Strategic Planning	4.0	4.0	3.6	0.0	0.0%	0.5	12.0%	5.0
Business Services	16.7	16.7	14.7	0.0	0.0%	1.9	11.6%	20.7
Prime Contract and Project Integration	16.7	16.7	15.3	0.0	0.0%	1.4	8.3%	20.7
Project Technical Services	5.6	5.6	5.2	0.0	0.1%	0.3	6.2%	6.9
Indirect WBS 000 Total	60.7	60.7	56.7	0.0	0.0%	4.0	6.7%	75.0

Numbers are rounded to the nearest \$0.1 million.

Indirect WBS 000

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

The variance is within reporting thresholds.

FYTD Cost Performance: (+\$4.0M/+6.7%)

The favorable cost variance is primarily due to an unplanned credit related to the liquidation of accumulated subcontractor labor rate adjustments. Also, contributing to the favorable cost variance is the accelerated completion of the final RCCC Transition Plan to RL in February 2016, completing ahead of the planned April 2016 date.

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 June .																					
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: \$5 million, 40 days			Risk Event: CHPRC continues to experience higher than anticipated attrition for FY2016. <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Risk recovery action(s)</th> <th>Risk Date</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Develop/implement CHPRC People Legacy Program.</td> <td rowspan="4" style="text-align: center;">FY2015</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;">On Going</td> <td style="text-align: center;">N/A</td> </tr> <tr> <td>Continue PFP resource transition plan</td> <td style="text-align: center;">On Going</td> <td style="text-align: center;">N/A</td> </tr> <tr> <td>River Corridor Closure recruitment</td> <td style="text-align: center;">On Going</td> <td style="text-align: center;">N/A</td> </tr> </tbody> </table> Recovery Action Assessment: Forecasted completion dates for recovery actions were updated to reflect continued planned efforts to recover this risk throughout the PRC. 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	%	Develop/implement CHPRC People Legacy Program.	FY2015	On Going	N/A	Target recruiting for key project resources	On Going	N/A	Continue PFP resource transition plan	On Going	N/A	River Corridor Closure recruitment	On Going	N/A
Risk recovery action(s)	Risk Date	FC Date	%																		
Develop/implement CHPRC People Legacy Program.	FY2015	On Going	N/A																		
Target recruiting for key project resources		On Going	N/A																		
Continue PFP resource transition plan		On Going	N/A																		
River Corridor Closure recruitment		On Going	N/A																		
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)																					
No critical risks identified in the month of June .																					
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)																					
No high threat value risks identified in the month of June .																					
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.

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None identified.

Appendix C

Capital Asset Projects



July 2016
CHPRC-2016-07, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

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



T. E. Bratvold
Vice President for
PFP Closure Project

July 2016
CHPRC-2016-07, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

Progress continued to work towards CD-4 closure as teams continued to prep glovebox/hoods for extraction during demolition. It is expected that final preparations will be complete on January 5, 2017. At that time gloveboxes will be staged until demolition of 234-5Z commences and completion of Capital Assets Project discrete scope will be completed. The total number of gloveboxes removed to date is at 94 percent complete.

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	-	1	174	164
COMPLETE KPP Rooms/Areas Ready for Demo	-	-	60	60 rooms/areas

KEY ACCOMPLISHMENTS

Work remaining on this capital asset project is removal of the gloveboxes from the 234-5Z facility. All work associated with glovebox process equipment removal has been completed. Final preparations to support the physical removal of the remaining gloveboxes will be completed by January 5, 2017. As the project nears the ready for demolition milestone for the 234-5Z building (~February 2017), more gloveboxes will begin to be removed from the facility. In the month of July, the 166-1 Hood was removed from 234-5Z and shipped to ERDF for final waste disposition.

MAJOR ISSUES

None currently identified.

CORRECTIVE ACTION LOG

Reference Appendix C.1 Format 5 for specific corrective actions for this CAP.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

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

-  Increased Confidence
-  No Change
-  Decreased Confidence

Risk Title Risk Owner	Unmitigated Risk Impacts	Assessment		Comments		
		Month	Trend			
RL-0011/WBS-011.05.01.01.06 (CAP.1)						
Explanation of major changes to the project monthly spotlight chart: No major changes to the monthly spotlight chart in the month of July.						
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 July.						
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, 30 days			Risk Trigger: During pre-demolition/demolition activities in FY2016.		
				<table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>None identified at this time.</td> <td>N/A</td> <td>N/A</td> </tr> </tbody> </table>	Mitigation action(s)	FC Date
Mitigation action(s)	FC Date	%				
None identified at this time.	N/A	N/A				
Mitigation Assessment: Mitigation Assessment: No change in the month of July. The mitigation strategies have been put in place, as a result, the risk strategy is to accept with no further mitigation actions identified at this time. PFP will continue to adhere to the CHPRC ISMS program/ hoisting and rigging program to include detailed analyses of potential hazards and identification of preventive measures to implement prior to starting the work. At this time no alternative course of actions needed.						
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)						
No high threat value risks identified for RL-0011/WBS-011.05.01.01.06 (CAP.1) in the month of July.						
Unassigned Risks (Pending ownership of identified risks/opportunities)						
No unassigned risks identified for RL-0011/WBS-011.05.01.01.06 (CAP.1) in the month of July.						

CRITICAL PATH SCHEDULE

The PFP Critical Schedule Path is a resource driven float path, in which the critical path starts with the size reduction of the Pencil Tanks associated with glovebox HC-6. This leads to removal of 26 inch process vacuum lines and various process equipment removals in the Duct level of 234-5Z. Once this is complete, 234-5Z no longer requires Vital Safety Systems and much of the Cold & Dark isolations begin. Once complete, 234-5Z is ready for demolition. Demolition of 234-5Z will occur in the following sequence: 234-5ZA, Frontside, A-Labs, Backside Rooms/PPSL, RMA Process Lines, RMC Process Lines, and the RADTU & Basement areas. Once the 234-5Z and 291-Z facilities have been demolished, the Tri-Party Agreement milestone – M-083-00A - *PFP Facility Transition and Selection Disposition Activities* will have been met.

SCHEDULE MARGIN/MANAGEMENT RESERVE

Reference Appendix C.1 Formats 1, 2, 3, and 5 for specific schedule margin/Management Reserve (MR) utilization for this CAP.

CRITICAL DECISION MILESTONE STATUS

Number	Title	* Due Date	**Forecast Date	Status/ Comment
CAP.1	Removal of 174 gloveboxes from 234-5Z	11/30/17	6/19/2017	Progress continued to work towards CD-4 closure as teams continued to prep glovebox/hoods for extraction during demolition. It is expected that final preparations for removal will be complete on January 5, 2017. At that time gloveboxes will be staged until demolition of 234-5Z commences and completion of CAP discrete scope will be completed. The cause for the 29 day slip is associated with diverting all resources on critical path to finish the ready for demolition activities in PRF. The total number of gloveboxes removed to date is at 94 percent complete.

*Due date reflects CD-4 due date with DOE contingency.

**Forecasted Date reflects CD-4 due date without DOE contingency.

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

Nothing to report at this time.

RL-0011_C1

Contract Performance Reports

Format 1 - Work Breakdown Structure

Format 2 - Organizational Categories

Format 3 - Baseline

Format 4 - Staffing

Format 5 - Explanation and Problem Analysis



July 2016
CHPRC-2016-07, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

CLASSIFICATION (When Filled In)

**CONTRACT PERFORMANCE REPORT
FORMAT 1 - WORK BREAKDOWN STRUCTURE**

DOLLARS IN Thousands of \$

FORM APPROVED
OMB No. 0704-0188

1. CONTRACTOR		2. CONTRACT		3. PROGRAM		4. REPORT PERIOD																			
a. NAME CH2M HILL Plateau Remediation Company		a. NAME Plateau Remediation Contract		a. NAME MPB - RL_0011_C1 - PFP D&D (ARRA/Base)		a. FROM (YYYYMMDD) 2016 / 06 / 20																			
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE		b. TO (YYYYMMDD) 2016 / 07 / 24																			
		c. TYPE CPAF		d. SHARE RATIO		c. EVMS ACCEPTANCE NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> (YYYYMMDD) 2009 / 09 / 18																			
5. CONTRACT DATA																									
a. QUANTITY 1	b. NEGOTIATED COST 317,545	c. ESTIMATED COST OF AUTHORIZED UNPRICED WORK 0	d. TARGET PROFIT/FEE 9,878	e. TARGET PRICE 327,423	f. ESTIMATED PRICE 344,725	g. CONTRACT CEILING 327,423	h. ESTIMATED CONTRACT CEILING 344,725																		
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																			
a. BEST CASE 332,454						b. TITLE Prime Contract Compliance Manager																			
b. WORST CASE 335,216						c. SIGNATURE																			
c. MOST LIKELY 334,847		317,545		-17,302		d. DATE SIGNED (YYYYMMDD)																			
8. PERFORMANCE DATA																									
CAPN.PBS Control Account.PARS 2 WBS (2)		CURRENT PERIOD			CUMULATIVE TO DATE			REPROGRAMMING ADJUSTMENTS			AT COMPLETION														
ITEM (1)		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)														
RL-0011 Nuclear Mat Stab & Disp PFP																									
RL_0011_C1.02 Maintain Safe & Compliant PFP		0	0	0	0	0	0	0	0	0	0														
RL_0011_C1.05 Disposition PFP Facility		0	70	53	70	17	235,360	234,495	259,016	-865	-24,521														
RL_0011_C1.06 Project Management & Support		0	0	0	0	0	11,990	11,990	12,477	0	-487														
RL_0011_C1.90 Usage Based Services Distributions -PBS RL-11		0	0	0	0	0	7,221	7,221	7,731	0	-510														
RL_0011_C1.98 Ramp-up and transition		0	0	0	0	0	19,399	19,399	19,253	0	147														
RL_0011_C1.99 PBS RL-11 UBS, G-n-A, Direct Distrib		0	0	0	0	0	41,028	41,028	33,328	0	7,700														
b. COST OF MONEY		0	0	0	0	0	0	0	0	0	0														
c. GENERAL AND ADMINISTRATIVE		0	0	0	0	0	0	0	0	0	0														
d. UNDISTRIBUTED BUDGET																									
e. SUBTOTAL		0	70	53	70	17	314,997	314,133	331,803	-865	-17,671														
f. MANAGEMENT RESERVE																									
g. TOTAL		0	70	53	70	17	314,997	314,133	331,803	-865	-17,671														
9. RECONCILIATION TO CONTRACT BUDGET BASELINE																									
a. VARIANCE ADJUSTMENT																									
b. TOTAL CONTRACT VARIANCE																									

CLASSIFICATION (When Filled In)

CLASSIFICATION (When Filled In)

**CONTRACT PERFORMANCE REPORT
FORMAT 2 - ORGANIZATIONAL CATEGORIES**

DOLLARS IN Thousands of \$ FORM APPROVED OMB No. 0704-0188

1. CONTRACTOR		2. CONTRACT		3. PROGRAM		4. REPORT PERIOD	
a. NAME CH2M HILL Plateau Remediation Company		a. NAME Plateau Remediation Contract		a. NAME MPB - RL 0011 C1 - PFP D&D (ARRA/Base)		a. FROM (YYYYMMDD) 2016 / 06 / 20	
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE		b. TO (YYYYMMDD) 2016 / 07 / 24	
c. TYPE CPAF		d. SHARE RATIO		c. EVMS ACCEPTANCE NO <input type="checkbox"/> X YES <input checked="" type="checkbox"/> (YYYYMMDD) 2009 / 09 / 18			

WBS.Resp Org Group ITEM (1)	CURRENT PERIOD						CUMULATIVE TO DATE					REPROGRAMMING ADJUSTMENTS			AT COMPLETION		
	BUDGETED COST		ACTUAL COST WORK	VARIANCE		BUDGETED COST		ACTUAL COST WORK	VARIANCE		COST VARIANCE	SCHEDULE VARIANCE	BUDGET	BUDGETED	ESTIMATED	VARIANCE	
	WORK SCHEDULED (2)	WORK PERFORMED (3)	(4)	SCHEDULE (5)	COST (6)	WORK SCHEDULED (7)	WORK PERFORMED (8)	(9)	SCHEDULE (10)	COST (11)	(12a)	(12b)	(13)	(14)	(15)	(16)	
35 - Business Services	0	0	0	0	0	60,427	60,427	52,580	0	7,847	0	0	0	60,427	52,580	7,847	
3B - PFP Closure Project	0	70	53	70	17	254,570	253,706	279,223	-865	-25,517	0	0	0	254,725	279,874	-25,149	
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																	
e. SUBTOTAL (Performance Measurement Baseline)	0	70	53	70	17	314,997	314,133	331,803	-865	-17,671	0	0	0	315,152	332,454	-17,302	
f. MANAGEMENT RESERVE														2,393			
g. TOTAL	0	70	53	70	17	314,997	314,133	331,803	-865	-17,671	0	0	0	317,545			

CLASSIFICATION (When Filled In)

CLASSIFICATION (When Filled In)

**CONTRACT PERFORMANCE REPORT
FORMAT 4 - STAFFING**

Dollars in: FTE

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 MPB - RL_0011_C1 - PFP D&D (ARRA/Base)		a. FROM (YYYYMMDD) 2016 / 06 / 20	
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE		b. TO (YYYYMMDD) 2016 / 07 / 24	
c. TYPE CPAF		d. SHARE RATIO		c. EVMS ACCEPTANCE <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES (YYYYMMDD) 2009 / 09 / 18			

5. PERFORMANCE DATA															
WBS.Resp Org Group ORGANIZATIONAL CATEGORY (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)						ENTER SPECIFIED PERIODS						
			+1 AUG 2016 (4)	+2 SEP 2016 (5)	+3 OCT 2016 (6)	+4 NOV 2016 (7)	+5 DEC 2016 (8)	+6 REMAIN FY17 (9)	FY18 (10)	FY19-LC (11)	ATCOMPLETE (12)	(13)	(14)		
35 - Business Services	0	17	0	0	0	0	0	0	0	0	0	0	0	0	17
3B - PFP Closure Project	3	15396	3	14	19	3	0	14	0	0	0	0	0	0	15449
g. TOTAL DIRECT	3	15413	3	14	19	3	0	14	0	0	0	0	0	0	15465

CLASSIFICATION (When Filled In)

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 MPB - RL_0011_C1 - PFP D&D (ARRA/Base)			a. FROM (YYYYMMDD) 2016 / 06 / 20		
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE			b. TO (YYYYMMDD) 2016 / 07 / 24		
c. TYPE CPAF		d. SHARE RATIO		c. EVMS ACCEPTANCE No X Yes			(YYYYMMDD) 2009 / 09 / 18		

Direct Projects

5. Evaluation	Budget	Earned	Actuals	SV in \$	SV in %	CV in \$	CV in %	SPI	CPI
Current:	0	70	53	70	-	17	25%	-	1.33
Cumulative:	314,997	314,133	331,803	-865	0%	-17,671	-5.6%	1.00	0.95
	BAC	EAC	VAC in \$	VAC in %	TCPI to BAC	TCPI to EAC			
At Complete:	315,152	332,454	-17,302	-5%	-	1.57			

Explanation of Variance/Description of Problem:

Current Period:
Schedule Variance: Within Threshold
Cost Variance: The current month positive cost variance is due to significant reduction in efforts required to remediate the Room 172 Size Reduction tent and any associated waste. More intensive characterization efforts determined that rather than size reducing the tent and any associated waste, the tent can be painted out, collapsed, and loaded into a waste container. This eliminated approximately 4 weeks worth of additional work and the subsequent costs.

Cumulative To Date:
Schedule Variance: Within Threshold
Cost Variance: Within Threshold

Impact:

Schedule Impact: The RL-011.C1 project baseline completion date is November 16, 2016. The current schedule now reflects a completion date of September 7, 2017, a loss of 24 calendar days since June, 2016. This delay was the result of field team resources being temporarily reallocated to 236-Z to work high priority work scope as well as a two week impact from a contamination recovery in the 234-SZ duct level and, finally, a stop work associated with all asbestos abatement at PFP. The majority of RL-011.C1 field work cannot continue until 234-SZ demolition begins. The baseline completion date is not considered recoverable.

The current RL-11 performance schedule indicates that the PFP project will achieve slab-on-grade by June 26, 2017. Efficiencies have been identified in 236-Z (PRF) that allow work to be performed on filter boxes in parallel with the gallery gloveboxes allowing acceleration of the start of 236-Z demolition. This in turn accelerates when additional field team resources can be reallocated from 236-Z to 234-SZ to get the facility ready for demolition. 234-SZ contains the gloveboxes requiring removal to meet the end state of the KPP and TPA milestone. The project expects to continue progress at the rate that has been experienced in the past several months. The PFP Project is currently on track to meet the re-negotiated TPA milestone M-083-00A due date of 9/30/17 for achieving slab-on-grade.

Cost Impact: The historical negative cost variance of ~\$17.7M and 5.6%, and CPI of .95 reflect impacts of the safety pauses, stop works, contamination events, and increased complexity of the HA-9A/HC-9B size reduction efforts. This variance is not considered recoverable. The cost variance is partially offset by recognized efficiencies in cleaning up the RMA/RMC control rooms after completion of the size reduction efforts of the 9A/9B gloveboxes. The EAC increase of \$29.7K in the month of July is not significant.

Cost variance is not considered recoverable. As efficiencies continue to be recognized, the EAC will be adjusted. It is not expected that the cost variance will be recovered as there is only a small amount of scope remaining to complete the KPP.

Corrective Action:

Field Team to complete all glovebox work within Room 166 Vault by size reducing HC-6 Pencil Tanks, which in turn allows the team to be redirected to critical workscope associated with getting 234-SZ into a ready for demo state. Assigned: Mike Douglas, due date 8/21/16

Monthly Summary (to include technical causes of VARs, Impacts) and Corrective Action(s):

- Schedule Margin Analysis: There is no schedule margin associated with the RL-011.C1 capital asset account.
- IMS Data dictionary Changes: None in the month of July
- Forecast Schedule with No Baseline: None in the month of July
- UB Balance: None in the month of July
- Negative ACWP: None in the month of July
- EAC Analysis: Best Case = \$332,454; Most Likely = \$334,847; Worst Case = \$335,216
- Negative CV > VAC: Scope to perform size reduction efforts on the high gram glovebox removal efforts was estimated to be completed in a much shorter time frame with much fewer resources than originally planned causing the large Cost Variance. The EAC is reflective of the current approach to perform the remaining work scope.
- MR Transactions: None in the month of July
- Freeze Period Changes: None in the month of July
- Retroactive Changes: None in the month of July
- EVT Changes: None in the month of July

Prepared by: _____ Date: _____ Approved by: _____ Date: _____

Appendix C

Capital Asset Project

RL-011-C2 Demolition of PFP Facilities



T. E. Bratvold
Vice President for
PFP Closure Project

July 2016
CHPRC-2016-07, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

Progress continued to work towards CD-4 closure as teams continued to ready the PFP facilities for demolition. It is expected that the PRF facility will initiate demolition late September 2016 and completion of demolition activities will occur late June 2017.

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	-	1	15	2
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	-	-	15	1
Turnover Facility to Long Term Surveillance & Maintenance	-	-	-	-

KEY ACCOMPLISHMENTS

During the month of July cold and dark activities were completed in preparation for demolition of the 2729 Facility in late July.

MAJOR ISSUES

This issue is not specific to the RL-011.C2 capital asset project, however, it is a major contributor to the ready for demolition activities in PRF being delayed.

Issue:

PRF Canyon floor scrapings from J Pan, staged in collection trays on the Canyon floor expanded resulting in a clear and unanticipated chemical reaction. A previously noted hard substance was observed within the loose debris on J Pan. 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 expected.

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:

- Waste packaging instructions for J Pan wastes were developed and waste has been packaged per the waste packaging instructions.
- PFP is performing 100 percent visual inspections of waste drums that contain PRF canyon waste prior to shipment.
- Waste Shipment of PRF Canyon Waste to CWC has commenced with shipment of Non-J Pan wastes.
- PNNL analysis of waste samples is complete. Fauske and Associates has completed their evaluation of the potential for a self-accelerating thermal reaction within drums.
- PFP is preparing a final report documenting an evaluation of the PNNL analysis results, the Fauske and Associates evaluation, and an analysis of radiolytic gas generation. The final report was complete in July. The report concluded that the J Pan drums will not undergo a self-accelerating thermal reaction and can be safely stored and shipped. Drums will continue to be inspected until they are shipped to the CWC.
- This issue will no longer be carried on the monthly report after this month.

CORRECTIVE ACTION LOG

Reference Appendix C.3 Format 5 for specific corrective actions for this CAP.

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 July.												
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 July.												
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, 30 days			Risk Trigger: During pre-demolition/demolition activities in FY2016.								
				<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: No changes in the month of July. 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.</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										
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: Likely (75% to 90%) Worst Case Impacts: \$1.5 million, 60 days			Risk Trigger: Due to concern from stakeholders with leaving elevated gloveboxes in PRF for extraction during demolition, a new approach is being implemented to remove the gloveboxes prior to full facility demolition using saw-cut and rig out methods. Impacts to the project using this new approach are being evaluated. It is anticipated that the project will submit a BCR to draw down MR for this change in execution strategy.								
				<table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Identify and pre-rig equipment with lifting slings.</td> <td>6/01/17</td> <td>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>Ongoing</td> <td>N/A</td> </tr> <tr> <td>Apply fixative to internals of equipment intended to be removed during demolition to contain contamination.</td> <td>Ongoing</td> <td>N/A</td> </tr> </tbody> </table> <p>Mitigation Assessment: No changes in the month of July. At this time no alternative course of actions needed.</p>	Mitigation action(s)	FC Date	%	Identify and pre-rig equipment with lifting slings.	6/01/17	50	Initiate discussions early in the demo planning of the equipment being left in place for removal during demolish.	Ongoing
Mitigation action(s)	FC Date	%										
Identify and pre-rig equipment with lifting slings.	6/01/17	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										
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)												
FY2016 Risk Triggers (Risk could be realized in FY2016)												
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: Medium (26% to 74%) Worst Case Impacts: \$0K, 32 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"> <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: No changes in the month of July. The mitigation strategies have been put in place, as a result, the risk strategy is to accept with no further mitigation actions identified at this time. PFP will continue to develop work plans to incorporate required controls. At this time no alternative course of actions needed.</p>	Mitigation action(s)	FC Date	%	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)												
To ensure success of the project ownership needs to be established to further identify and address potential impacts to project cost and schedule. There are cases when risks are identified but are outside the control and management of the contractor. However, CHPRC risk management process identifies all risks that could impact overall project success.												

Risk Title Risk Owner	Unmitigated Risk Impacts	Assessment		Comments
		Month	Trend	
RL-0011/WBS-011.05.C3 (CAP.2)				
PFP-DEMO-18: Level of Readiness Effort	PFP Demolition activities and hazard categorization provide for a Readiness Assessment; however, due to the first of its kind project at the Hanford Site, CHPRC will be directed by the customer to perform a more rigorous RA than planned resulting in cost impacts and schedule delays. <u>CHPRC Comment:</u> The rework required between the first submittal on May 26, 2015, through the resubmittal on August 27, 2015, (Reference 2) and subsequent approval on October 8, 2015, (Reference 1) has increased cost of demolition and impacted schedule. The additional cost is due to a technical difference in the readiness scoring by RL that is not consistent with historical scoring. The addition of a readiness team and performance of an exercise versus a drill have impacted the project. The additional requirements may represent realization of previously identified risk PRC-010, Requirements Change. Accordingly, CHPRC is entitled to an adjustment to cost and fee to implement the direction. In December, a notice of change was sent to RL for the potential change. The letter was re-submitted based on RL feedback. The project continues to wait for direction from RL.			

CRITICAL PATH SCHEDULE

The PFP Critical Schedule Path is a resource driven float path, in which the critical path starts with the size reduction of the Pencil Tanks associated with glovebox HC-6. This leads to removal of 26 inch process vacuum lines and various process equipment removals in the Duct level of 234-5Z. Once this is complete, 234-5Z no longer requires Vital Safety Systems and much of the Cold & Dark isolations begin. Once complete, 234-5Z is ready for demolition. Demolition of 234-5Z will occur in the following sequence: 234-5ZA, Frontside, A-Labs, Backside Rooms/PPSL, RMA Process Lines, RMC Process Lines, and the RADTU & Basement areas. Once the 234-5Z and 291-Z facilities have been demolished, the Tri-Party Agreement milestone – M-083-00A - *PFP Facility Transition and Selection Disposition Activities* will have been met.

SCHEDULE MARGIN/MANAGEMENT RESERVE

Reference Appendix C.3 Formats 1, 2, 3, and 5 for specific schedule margin/MR utilization for this CAP.

CRITICAL DECISION MILESTONE STATUS

Number	Title	* Due Date	**Forecast Date	Status/ Comment
RL-011.C2	Completion Demolition of all PFP Facilities	8/31/18	11/14/17	Progress continued to work towards CD-4 closure as teams continued to ready the PFP facilities for demolition. It is expected that the PRF facility will initiate demolition on September 22, 2016 and completion of demolition activities will occur on June 26, 2017. A determination was made that gloveboxes in 236-Z would need to be removed from the facility prior to physical demolition of the PRF structure and to ensure demolition of the PRF facility was initiated in FY2016, resources have been diverted from other critical path work scope to ensure that this occurs resulting in delay of slab on grade of 26 calendar days since June.

*Due date reflects CD-4 due date with DOE contingency.

**Forecasted Date reflects CD-4 due date without DOE contingency.

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None to report at this time.

RL-0011_C2

Contract Performance Reports

Format 1 - Work Breakdown Structure

Format 2 - Organizational Categories

Format 3 - Baseline

Format 4 - Staffing

Format 5 - Explanation and Problem Analysis



July 2016
CHPRC-2016-07, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

CLASSIFICATION (When Filled In)

**CONTRACT PERFORMANCE REPORT
FORMAT 1 - WORK BREAKDOWN STRUCTURE**

DOLLARS IN Thousands of \$ **FORM APPROVED**
OMB No. 0704-0188

1. CONTRACTOR		2. CONTRACT		3. PROGRAM		4. REPORT PERIOD	
a. NAME CH2M HILL Plateau Remediation Company		a. NAME Plateau Remediation Contract		a. NAME RL 0011_C2 PFP Demolition Capital Asset Project		a. FROM (YYYYMMDD) 2016 / 06 / 20	
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE		b. TO (YYYYMMDD) 2016 / 07 / 24	
		c. TYPE CPAF		d. SHARE RATIO		c. EVMS ACCEPTANCE NO <input checked="" type="checkbox"/> YES (YYYYMMDD) 2009 / 09 / 18	

5. CONTRACT DATA								
a. QUANTITY 1	b. NEGOTIATED COST 51,683	c. ESTIMATED COST OF AUTHORIZED UNPRICED WORK 0	d. TARGET PROFIT/FEE 5,000	e. TARGET PRICE 56,683	f. ESTIMATED PRICE 53,577	g. CONTRACT CEILING 56,683	h. ESTIMATED CONTRACT CEILING 53,577	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	
a. BEST CASE 44,423						b. TITLE Prime Contract Compliance Manager	
b. WORST CASE 53,627						c. SIGNATURE	
c. MOST LIKELY 48,577		51,683		3,106		d. DATE SIGNED (YYYYMMDD)	

8. PERFORMANCE DATA																	
CAPN.PBS Control Account.PARS 2 WBS (2)		CURRENT PERIOD				CUMULATIVE TO DATE				REPROGRAMMING ADJUSTMENTS			AT COMPLETION				
		BUDGETED COST		ACTUAL COST WORK PERFORMED		VARIANCE		BUDGETED COST		ACTUAL COST WORK PERFORMED		VARIANCE		COST VARIANCE	SCHEDULE VARIANCE	BUDGET	BUDGETED
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)	COST VARIANCE (12a)	SCHEDULE VARIANCE (12b)	BUDGET (13)	(14)	(15)	(16)
RL-0011 Nuclear Mat Stab & Disp PFP																	
RL_0011_C2.05 Disposition PFP Facility		5,368	91	494	-5,278	-403	25,330	8,127	9,049	-17,202	-921	0	0	0	47,529	44,423	3,106
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																	
e. SUBTOTAL		5,368	91	494	-5,278	-403	25,330	8,127	9,049	-17,202	-921	0	0	0	47,529	44,423	3,106
f. MANAGEMENT RESERVE															4,154		
g. TOTAL		5,368	91	494	-5,278	-403	25,330	8,127	9,049	-17,202	-921	0	0	0	51,683		

9. RECONCILIATION TO CONTRACT BUDGET BASELINE															
a. VARIANCE ADJUSTMENT															
b. TOTAL CONTRACT VARIANCE															
											-17,202	-921	51,683	44,423	7,260

CLASSIFICATION (When Filled In)

CLASSIFICATION (When Filled In)

**CONTRACT PERFORMANCE REPORT
FORMAT 2 - ORGANIZATIONAL CATEGORIES**

DOLLARS IN Thousands of \$

FORM APPROVED
OMB No. 0704-0188

1. CONTRACTOR		2. CONTRACT		3. PROGRAM		4. REPORT PERIOD	
a. NAME CH2M HILL Plateau Remediation Company		a. NAME Plateau Remediation Contract		a. NAME RL 0011 C2 PFP Demolition Capital Asset Project		a. FROM (YYYYMMDD) 2016 / 06 / 20	
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE		b. TO (YYYYMMDD) 2016 / 07 / 24	
c. TYPE CPAF		d. SHARE RATIO		c. EVMS ACCEPTANCE NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> (YYYYMMDD) 2009 / 09 / 18			

WBS.Resp Org Group	CURRENT PERIOD				CUMULATIVE TO DATE				REPROGRAMMING ADJUSTMENTS			AT COMPLETION				
	BUDGETED COST		ACTUAL COST WORK PERFORMED (4)	VARIANCE		BUDGETED COST		ACTUAL COST WORK PERFORMED (9)	VARIANCE		COST VARIANCE (12a)	SCHEDULE VARIANCE (12b)	BUDGET (13)	BUDGETED (14)	ESTIMATED (15)	VARIANCE (16)
	WORK SCHEDULED (2)	WORK PERFORMED (3)		SCHEDULE (5)	COST (6)	WORK SCHEDULED (7)	WORK PERFORMED (8)		SCHEDULE (10)	COST (11)						
3B - PFP Closure Project	5,368	91	494	-5,278	-403	25,330	8,127	9,049	-17,202	-921	0	0	0	47,529	44,423	3,106
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														0	0	0
e. SUBTOTAL (Performance Measurement Baseline)	5,368	91	494	-5,278	-403	25,330	8,127	9,049	-17,202	-921	0	0	0	47,529	44,423	3,106
f. MANAGEMENT RESERVE														4,154		
g. TOTAL	5,368	91	494	-5,278	-403	25,330	8,127	9,049	-17,202	-921	0	0	0	51,683		

CLASSIFICATION (When Filled In)

CLASSIFICATION (When Filled In)

**CONTRACT PERFORMANCE REPORT
FORMAT 4 - STAFFING**

Dollars in: FTE

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_C2 PFP Demolition Capital Asset Project		a. FROM (YYYYMMDD) 2016 / 06 / 20	
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE		b. TO (YYYYMMDD) 2016 / 07 / 24	
c. TYPE CPAF		d. SHARE RATIO		c. EVMS ACCEPTANCE NO <input type="checkbox"/> X YES <input type="checkbox"/> (YYYYMMDD) 2009 / 09 / 18			

5. PERFORMANCE DATA														
WBS.Resp Org Group ORGANIZATIONAL CATEGORY (1)	ACTUAL CURRENT PERIOD (2)	ACTUAL END OF CURRENT PERIOD (Cumulative) (3)	FORECAST (Non-Cumulative)						ENTER SPECIFIED PERIODS					AT COMPLETION (15)
			SIX MONTH FORECAST BY MONTH (Enter names of months)						FY18 (10)	FY19-LC (11)	ATCOMPLETE (12)	(13)	(14)	
			+1 AUG 2016 (4)	+2 SEP 2016 (5)	+3 OCT 2016 (6)	+4 NOV 2016 (7)	+5 DEC 2016 (8)	+6 REMAIN FY17 (9)						
3B - PFP Closure Project	4	32	31	36	73	85	81	749	10	0	0	0	0	1097
g. TOTAL DIRECT	4	32	31	36	73	85	81	749	10	0	0	0	0	1097

CLASSIFICATION (When Filled In)

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 011- RL-11 NM Stabilization and Disposition PFP		a. FROM (YYYYMMDD) 2016/06/20	
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE		b. TO (YYYYMMDD) 2016/07/24	
c. TYPE CPAF		d. SHARE RATIO		c. EVMS ACCEPTANCE		2009 / 09 / 18	
				No X Yes (YYYYMMDD)			

Direct Projects										
5. Evaluation	Budget	Earned	Actuals	SV in \$	SV in %	CV in \$	CV in %	SPI	CPI	
Current:	5,368.2	90.6		493.7	-5,277.6	-98.3%	-403.2	-445.0%	0.02	0.18
Cumulative:	25,329.8	8,127.4		9,048.9	-17,202.4	-67.9%	-921.4	-11.3%	0.32	0.90
	BAC	EAC	VAC in \$	VAC in %	TCPI to BAC	TCPI to EAC				
At Complete:	47,529.1	44,423.1	3,106.1	6.5%	1.02	1.11				

Explanation of Variance/Description of Problem:

Current Period:
Schedule Variance: The current month negative schedule variance is due to delays in demolition of the 234-5Z and 291-Z facilities as originally planned as neither facility is currently ready for demolition. Field resources are currently focused on getting 236-Z and 234-5Z ready for demo. Efforts to get 291-Z ready for demo to follow once resources are available. A contamination recovery in the duct level of 234-5Z caused a two week delay in the facility as well as a temporary reassignment of field resources to accelerate work scope in 236-Z. Demolition of 236-Z is targeted to begin in September, 2016, while demolition of 234-5Z is targeted to begin in February, 2017. 2729-Z, an ancillary building currently in the demolition footprint of 236-Z, is currently targeted to be demolished in the last calendar week of July. As a result of delays in the ready for demolition activities, the C2 CD-4 has been delayed to 11/14/2017. However, the TPA milestone M-083-00A has been re-negotiated to a due date of 9/30/2017 and is expected to be achieved. In addition, the support activities for project management, cross-cutting support, and consumable materials, which are apportioned against discrete demolition work also account and contribute to the negative schedule variance.

Cost Variance: The current month negative cost variance is associated with MSA subcontracted resources arriving to support PFP demolition that had a planned baseline start date of January 2016. Because the project is behind schedule in initiating demolition activities, these resources currently have limited work to support which contributes to inability to take performance until the ready for demolition work scope is completed. To ensure that the project is able to initiate demolition activities as identified in the current schedule, these costs will continue to be realized resulting in a potential unrecoverable cost variance.

Cumulative to Date:
Schedule Variance: The cumulative schedule variance is due to delay of demolition of ancillary buildings and 236-Z caused by resources being redirected to support higher priority critical path work associated with decommissioning of 234-5Z, 242-Z, and 236-Z, as well as the 236-Z Canyon Crane failure, contamination impacts from an unplanned criticality alarm failure, and increased characterization efforts. Once the 236-Z building is ready for demo, the diverted resources will be redirected to support demolition of the ancillary buildings in the fall of 2016. Initiation of demolition of the 236-Z facility is currently forecast for September, 2016, with 242-Z and 234-5Z following thereafter. As a result of delays in the ready for demolition activities, the C2 CD-4 has been delayed. However, the TPA milestone M-083-00A has been re-negotiated to a due date of 9/30/2017 and is expected to be achieved.

Cost Variance: The cumulative negative cost variance is associated with MSA subcontracted resources arriving to support PFP demolition that had a planned baseline start date of January 2016. Because the project is behind schedule in initiating demolition activities, these resources currently have limited work to support which contributes to inability to take performance until the ready for demolition work scope is completed. To ensure that the project is able to initiate demolition activities as identified in the current schedule, these costs will continue to be realized resulting in a potential unrecoverable cost variance. Additionally, Readiness Assessment activities are lagging due to a delay in the start of 236-Z Demolition resulting in increased costs due to additional time and effort required from subcontracted resources. Finally, the apportioned project management activities (i.e. project oversight and planning) and support activities are ongoing, while a delay in the discrete field work is resulting in no apportioned BCWP for the current period.

Impact:
Schedule Impact: A delay in getting 234-5Z ready for Cold & Dark resulted in a loss of 78 calendar days since June to the critical path to achieving the CD-4 closeout. The TPA Milestone TPA-083-00A, complete PFP facility transition and selected disposition activities, has been re-negotiated to September 30, 2017 and is expected to be achieved.
Cost Impact: Stop Works, Safety Pauses, multiple contamination events, the PRF Crane failure, and associated recovery actions have negatively impacted the field work to ready 234-5Z, 236-Z, 242-Z, and 291-Z for demolition. Subcontracted MSA resources specializing in facility demolition continue to charge the project until ready for demo status is achieved. Mitigation actions are being reviewed and, when finalized, will be put in place to partially recover the cost impact.
The positive VAC is reflective of working one shift during demolition of 236-Z and 242-Z facilities rather than two as planned in the PMB. In addition, the duration for demolition of 234-5Z has been adjusted as it has been determined that due to the time of year demolition will occur, the number of days to demolish the facility will be less than originally planned. This reduces the amount of demolition and supervision labor resources needed, resulting in the reduction of EAC to BCWS values. The projected net EAC impact of (\$1,600K) since June is the result of eliminating the PQ shift on 236-Z and 242-Z demolition, which is partially offset by an increase in the Mobilization activity to carry the MSA support resources between 242-Z and 234-5Z demolition.

Corrective Action:
Cost: MSA subcontracted resources (i.e., Heavy Equipment Operators, Crane Operators, Mechanics, etc.) will be loaned out to other CHPRC and other Hanford contractors when the PFP project can support the needs of others and this offset unnecessary costs to the PFP Project. Action Mike Douglas due 09/30/2016
Schedule: The PFP project will evaluate and incorporate actions to safely and effectively recover schedule that has been lost due to delays in the ready for demolition activities associated with 234-5Z, 236-Z, 242-Z, and 291-Z in order to allow demolition of facilities in the PFP complex to begin earlier than currently forecast. Action Mike Douglas 09/30/2016
NOTE: Corrective actions associated with stop works/safety pauses, contamination events, and 236-Z Canyon Crane failure that are impacting the ability to initiate demolition activities in the RL-011.C2 capital asset project were previously addressed in the Operations project corrective action plan.

Monthly Summary (to include technical causes of VARs, Impacts) and Corrective Action(s):
The following items are addressed, as applicable, per the EVMSIH:
1. Schedule Margin Analysis: There is currently no remaining schedule margin in this capital asset account. Schedule margin was lost in February as a result of impacts from stop works associated with PremAire breathing air issues related to size reduction of the HA-9A glovebox and impacts from a safety pause associated with a PremAire Breathing Air radiological event resulting in increased survey requirements for PPE.
2. IMS Data dictionary Changes: No change in the month of July
3. Forecast Schedule with No Baseline: No change in the month of July
4. UB Balance: No change in the month of July
5. Negative ACWP: No change in the month of July
6. EAC Analysis: Best Case = \$44,423.1 ; Most Likely = \$48,577.2; Worst Case = \$53,627
7. Negative CV > VAC: No change in the month of July
8. MR Transactions: No change in the month of July
9. Freeze Period Changes: No change in month of July
10. Retroactive Changes: No change in the month of July
11. EVT Changes: No change in the month of July

Prepared by: _____ **Date:** _____ **Approved by:** _____ **Date:** _____

Appendix C
Capital Asset Project
RL-0012_C1_1 Sludge Retrieval Project 15-D-401



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

July 2016
CHPRC-2016-07, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

- RL and CHPRC personnel have agreed to draft PMs for FY2017 and these PMs have been sent to DOE HQ for concurrence. CHPRC is awaiting final verbiage, valuation, and approval from RL.
- Execution of the MPAT continued with base procedure testing activities completed on July 18. With MPAT 95 percent complete, test personnel are now focused on disposition, resolution & closure of open TDRs.
- Continued internal reviews of the draft integrated 105K West Basin Document Safety Analysis (DSA) and TSR. Working with operations, engineering and fire protection to finalize TSR wording. Submittal of the safety basis to RL is scheduled for September 2016. It slid from August 30, 2016 to September 15, 2016 due to the complexities of finalizing the DSA/TSR and getting buy in from Design Authorities and Operations. The formal DSA/TSR must be approved and implemented prior to KPAT activities that transfer 105KW Basin water out to the 105KW Basin Annex.

KEY ACCOMPLISHMENTS

KW Basin Sludge Retrieval Capital Assesment Project

- ECRTS Process Equipment Procurement:
 - o Procurement Set #2: GS Retrieval and Transfer System Components: Task 5/6 - HiLine completed fabrication of Floc Skid replacement spools. Task #8- HiLine completed fabrication of additional pigging hardware. The Pig Insertion Spools have been receipt inspected at AVS. Task #13 – HiLine completed fabrication of Rad Probe Guides for the Sand Filter Enclosure Assemblies and were delivered to MASF. Task #14 – HiLine completed fabrication of replacement hoses H-301, H-302 & H-100.
 - o Procurement Set #7; 105KW Annex, Stack Monitoring System – CEES/Hi-Q successfully completed in-situ testing of the stack flow and data collection to ensure stack flow characteristics are compliant with ANSI N13.1 requirements and design assumptions.
 - o Procurement Set #8: STSC Vessels – STSCs 406-409 were successfully source inspected by AVS. ABW personnel delivered STSC 406-409 (four vessels) to Richland and these vessels have been shipped to HiLine for installation of appurtenances. Fabrication & testing of vessels 410-413 completed. AVS personnel completed source inspection of vessels 410-413.
 - o Procurement Set #9: SS STSC Assemblies (Instrumentation & Appurtenances) – HiLine personnel completed fabrication of the drain port tools. HiLine personnel completed installing instrumentation and appurtenances on STSC 402 & 403 and tested fill and decant functions.
- MPAT Execution:
 - o Completed base procedure testing activities. Testing team now focused on disposition, resolution, & closure of open TDRs.
 - o Provided simulant transfer demo for CHPRC Senior Management, RL and DNFSB Site Representative.
 - o Completed Final STSC fill, hose disconnects and STSC Hose-in-Hose line drying.
- KW Annex Construction:
 - o Completed the installation of the remaining safety signification/seismic hangers for the fire protection piping system.
 - o Completed formwork and rebar for Nitrogen Ramp.
 - o Completed placement of the asphalt approach.
 - o Placed concrete for Nitrogen Ramp and P10 slab.
 - o Completed the final alarm programming for the HVAC system.

- In Basin Modifications Construction:
 - o Grouted two of the five transfer bay spill berms.
 - o Completed installation of Booster Pump rail system.
 - o Completed structural and grating modification in support of the ECRTS process equipment installation.
 - o Completed installation of final flashing, trim and bellow to seal up HIH to Door 148.

MAJOR ISSUES

Issue:

On July 21, functional testing of instrumentation installed on STSC 402 at the HiLine Engineering and Fabrication Services facility inadvertently led to the identification of free iron contamination of STSC 402 internal surfaces. Subsequent testing of STSC 403 identified free iron contamination in that vessel as well, although to a much lesser extent.

Corrective Action:

NCRs were initiated to identify this nonconforming condition in STSC 402 & STSC 403. Interim corrective actions are in process with final corrective actions outstanding. ABW Technologies, Inc. was notified and instructed to perform free iron testing of all twelve STSCs fabricated in FY2016 (first production run).

Status:

- o STSC 410-413 are being tested and cleaned, as appropriate in Arlington, WA (ABW Fab Shop).
- o STSC 404-408 were shipped back to Arlington, WA for testing/cleaning, as appropriate.
- o STSC 404-403 remain at HiLine (with instrumentation/appurtenances installed) and will be tested/cleaned by HiLine due to the difficulty/expense of returning these vessels to Arlington, WA.
- o STSC 409 remains at HiLine but will be returned to Arlington, WA in late August or early September.
- o CHPRC and ABW Technologies, Inc. personnel continue to investigate and eliminate the source of iron contamination.

CORRECTIVE ACTION LOG

Reference Appendix C.3 Format 5 for specific corrective actions for this CAP.

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 (CAP)																																				
Explanation of major changes to the project monthly spotlight chart: No major changes to the monthly spotlight chart in the month of July.																																				
Realized Risks (Risks that are currently impacting project cost/schedule)																																				
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. Risk Handling Strategy: Accept Probability: Medium (26% to 74%) Worst Case Impacts: \$912K, 64 days	●	↑	Risk Event: The project realized additional cost and schedule impacts in July as a result of the construction review of DCN 391, which indicated the Nitrogen and P10 bottles require weather enclosure for bottle storage (DCN-445). Other DCNs identified in the engineering action list are being developed including but not limited to: Prepare Signage Schedule (DCN-209); Release Shielding Calculations and KW Modified Annex ALARA Design Review Checklist (DCN-068), Radcon related missing design-Add P-10 Gas Lines to Annex (DCN-391), Shield Cave Mounting (DCN-422), and Changes to I&C Drawing Updates (DCN-405). The project continues to evaluate the DCNs and the impacts to the project. A BCR requesting a MR drawdown is projected prior to the end of FY2016. <table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 10px;"> <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>Provide weather protection for Annex Nitrogen Bottle station (DCN-445)</td> <td style="text-align: center;">6/16/16</td> <td style="text-align: center;">8/31/16</td> <td style="text-align: center;">50</td> </tr> <tr> <td>Add Hose & Valve installation @ transfer box air system (Mitigation of long lead item impact by awarding procurement released to FFP under Release #2) (DCN-410)</td> <td style="text-align: center;">12/16/15</td> <td style="text-align: center;">10/1/16</td> <td style="text-align: center;">25</td> </tr> <tr> <td>Prepare Signage Schedule (DCN-209)</td> <td style="text-align: center;">4/4/16</td> <td style="text-align: center;">Complete</td> <td style="text-align: center;">100</td> </tr> <tr> <td>Release Shielding Calculations and KW Modified Annex ALARA Design Review Checklist (068)</td> <td style="text-align: center;">12/16/12</td> <td style="text-align: center;">9/29/16</td> <td style="text-align: center;">80</td> </tr> <tr> <td>Add P-10 Gas Lines to Annex (DCN-391), Status on 6/23 w/CDC pending full size dwg signature.</td> <td style="text-align: center;">1/4/16</td> <td style="text-align: center;">Complete</td> <td style="text-align: center;">100</td> </tr> <tr> <td>Shield Cave Mounting (DCN-422)</td> <td style="text-align: center;">3/23/16</td> <td style="text-align: center;">Complete</td> <td style="text-align: center;">100</td> </tr> <tr> <td>I&C Drawing Updates (DCN - 405)</td> <td style="text-align: center;">2/8/16</td> <td style="text-align: center;">8/31/16</td> <td style="text-align: center;">50</td> </tr> </tbody> </table> Recovery Action Assessment: DCNs are identified and reviewed at the weekly engineering meeting to define a path forward for the pending changes. The majority of the DCNs identified to-date are expected to be cleared by August month end. Delays to DCN completion are due to the lack of scope definition for the initial recovery action and priorities and commitments Engineering and other support resources. During the weekly engineering meetings, the project identifies and reviews DCNs and define a path forward for the pending changes. A Title III Engineering manager has been hired to coordinate the design changes with the construction group. Mitigation actions are in place that are expected to reduce the probability of the risk occurrence and reduces the potential cost and schedule impacts. Additionally, the risk will continue to be monitored. No additional mitigation actions have been identified at this time.	Risk recovery action(s)	Risk Date	FC Date	%	Provide weather protection for Annex Nitrogen Bottle station (DCN-445)	6/16/16	8/31/16	50	Add Hose & Valve installation @ transfer box air system (Mitigation of long lead item impact by awarding procurement released to FFP under Release #2) (DCN-410)	12/16/15	10/1/16	25	Prepare Signage Schedule (DCN-209)	4/4/16	Complete	100	Release Shielding Calculations and KW Modified Annex ALARA Design Review Checklist (068)	12/16/12	9/29/16	80	Add P-10 Gas Lines to Annex (DCN-391), Status on 6/23 w/CDC pending full size dwg signature.	1/4/16	Complete	100	Shield Cave Mounting (DCN-422)	3/23/16	Complete	100	I&C Drawing Updates (DCN - 405)	2/8/16	8/31/16	50
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Risk Title	Unmitigated Risk Impacts	Assessment		Comments												
		Month	Trend													
RL-0012/WBS-012 (CAP)																
STP-111-B: Contractor/ Subcontractor Performance - ECRS Annex/In-Basin Equip. Installation	<p>The General Conditions 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.</p> <p>Risk Handling Strategy: Control</p> <p>Probability: Very Likely (> 90%)</p> <p>Worst Case Impacts: \$792K, 96 days</p>	●	↔	<p>Risk Event: The project began to experience contractor delay due to inadequate general conditions staffing. There has been a delay in timely receipt of Change Order Proposals Invoices and Accrual data. Bi-weekly notes regarding these issues are being sent to the contractor via CHPRC Contracts Department. Finding a backup for the contractor’s high risk Field Work Supervisor (single point failure) continues to be an issue.</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>Address issue associated with CR-2016-1246, working outside work package scope.</td> <td>6/16/16</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Contractor delays due to inadequate staffing/mobilization. Will work with contractor to stabilize work resource planning.</td> <td>5/17/16</td> <td>Ongoing</td> <td>NA</td> </tr> </tbody> </table> <p>Recovery Action Assessment: This is a reoccurring risks relating to the performance of the General Conditions Contractor and their supporting subcontractors. The CHPRC project team continues to work with their subcontractors to ensure the contractors are thoroughly aware of their project responsibilities and have the opportunity to successfully complete their project scope. Mitigation actions are in place that are expected to reduce the probability of the risk occurrence and reduce the potential cost and schedule impact, and the risk will continue to be monitored. No additional mitigation actions have been identified at this time.</p>	Risk recovery action(s)	Risk Date	FC Date	%	Address issue associated with CR-2016-1246, working outside work package scope.	6/16/16	Complete	100	Contractor delays due to inadequate staffing/mobilization. Will work with contractor to stabilize work resource planning.	5/17/16	Ongoing	NA
Risk recovery action(s)	Risk Date	FC Date	%													
Address issue associated with CR-2016-1246, working outside work package scope.	6/16/16	Complete	100													
Contractor delays due to inadequate staffing/mobilization. Will work with contractor to stabilize work resource planning.	5/17/16	Ongoing	NA													
STP-103-M: MASF Pre-Operational Acceptance Testing (MPAT)	<p>The ECRS equipment does not operate as expected, requiring increased engineering & MASF Testing Staff Support. This will require design modifications of production hardware and changes to control system software. These modifications will negatively impacts downstream testing, construction, readiness and ECRS Operations.</p> <p>Risk Handling Strategy: Control</p> <p>Probability: Low (10% to 25%)</p> <p>Worst Case Impacts: \$500K, 60 days</p>	●	↑	<p>Risk Event: This risk has been realized. During the month of May, the second Transfer System Instrument Spool failed.</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>Procure 4 Operationally sound Transfer System Instrument Loops after corrective actions are fully implemented.</td> <td>5/31/16</td> <td>8/31/16</td> <td>50</td> </tr> <tr> <td>Ensure all project technical personnel are available to mitigate emergent technical challenges and establish proactive solutions.</td> <td>5/31/16</td> <td>Ongoing</td> <td>90</td> </tr> </tbody> </table> <p>Recovery Action Assessment: Although the initial Transfer System Instrument Spool failure was considered “infant mortality”, this second failure indicates that a systemic flaw likely exists in the assembly and the instrument manufacturer has been contacted to determine cause of failure and corrective action. A “test article” Transfer System Instrument Spool and a “spare” production Transfer System Instrument Spool are now installed and are allowing the MPAT Test to proceed. While only two days have been lost to project critical path, MPAT Testing continues and the risk of experiencing additional failures exists. The Contractor was required to complete an equipment failure causal analysis, which took longer than anticipated delaying the procurement of the new equipment. While there are now over 159 Test Deficiency Reports (TDRs), many associated with equipment operating anomalies and a number of design changes to existing configuration, the technical staff has been successful to date in addressing the balance of the challenges without impacting MPAT test duration or cost. Currently 118 of the TDRs have been closed. The mitigation strategies were put in place, but a recovery action was added to aggressively pursue instrument failure analysis and corrective action implementation. As a result, the risk strategy has been changed to control.</p>	Risk recovery action(s)	Risk Date	FC Date	%	Procure 4 Operationally sound Transfer System Instrument Loops after corrective actions are fully implemented.	5/31/16	8/31/16	50	Ensure all project technical personnel are available to mitigate emergent technical challenges and establish proactive solutions.	5/31/16	Ongoing	90
Risk recovery action(s)	Risk Date	FC Date	%													
Procure 4 Operationally sound Transfer System Instrument Loops after corrective actions are fully implemented.	5/31/16	8/31/16	50													
Ensure all project technical personnel are available to mitigate emergent technical challenges and establish proactive solutions.	5/31/16	Ongoing	90													
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)																
No critical risks identified in the month of July.																
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)																
FY2017 Risk Triggers (Risk could be realized in FY2017)																

Risk Title	Unmitigated Risk Impacts	Assessment		Comments																					
		Month	Trend																						
RL-0012/WBS-012 (CAP)																									
STP-103: K Basin Pre-Operational Acceptance Testing (KPAT) & ECRS Startup	<p>The ECRS equipment does not operate as expected requiring increased engineering, startup, operations, and construction Firm Fixed Price contractor support; as well as equipment replacement, procurement, and retesting. Realization of this risk would also require additional training, procedure revision, and design modifications as a result of construction testing and/or Lines of Inquiry for Readiness Review resulting in cost impacts and schedule delays.</p> <p>Risk Handling Strategy: Control</p> <p>Probability: Medium (26% to 74%)</p> <p>Worst Case Impacts: \$4.5 million, 90 days</p>	●	↔	<p>Risk Trigger:</p> <p>1) The ECRS equipment does not operate as expected. 2) Unexpected attrition of critical testing personnel.</p> <table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Conduct Full-scale testing of production hardware at MASF prior to installation at K-Basin to avoid costly replacement of malfunctioning equipment during Hot Startup.</td> <td>7/31/16</td> <td>0</td> </tr> <tr> <td>Develop and refine procedures based upon feedback from testing and operations personnel.</td> <td>TBD</td> <td>0</td> </tr> <tr> <td>Any Challenges identified at MASF will be resolved prior to completion of cold commissioning. (forecast for July 2016)</td> <td>On-going</td> <td>0</td> </tr> <tr> <td>Develop streamline strategy (work packages and procedures) to perform in-basin/annex integrated testing and troubleshooting.</td> <td>9/30/16</td> <td>0</td> </tr> <tr> <td>Utilize Overtime to offset schedule impacts.</td> <td>As Needed</td> <td>N/A</td> </tr> <tr> <td>Closely monitor employee satisfaction and consider employee incentive to retain key test personnel.</td> <td>As Needed</td> <td>N/A</td> </tr> </tbody> </table> <p>Mitigation Assessment: No changes in the month of July. Forecasted mitigation dates are consistent with overall STP critical path schedule.</p>	Mitigation action(s)	FC Date	%	Conduct Full-scale testing of production hardware at MASF prior to installation at K-Basin to avoid costly replacement of malfunctioning equipment during Hot Startup.	7/31/16	0	Develop and refine procedures based upon feedback from testing and operations personnel.	TBD	0	Any Challenges identified at MASF will be resolved prior to completion of cold commissioning. (forecast for July 2016)	On-going	0	Develop streamline strategy (work packages and procedures) to perform in-basin/annex integrated testing and troubleshooting.	9/30/16	0	Utilize Overtime to offset schedule impacts.	As Needed	N/A	Closely monitor employee satisfaction and consider employee incentive to retain key test personnel.	As Needed	N/A
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FY2018 Risk Triggers (Risk could be realized in FY2018)																									
Unassigned Risks (Pending ownership of identified threats/opportunities)																									
No unassigned risks identified in the month of July.																									

CRITICAL PATH SCHEDULE

The critical path flows through performance of the MPAT at MASF (completed in July), disconnect and transfer the process equipment to 100K, installation of process equipment in the 105K West Basin/Annex, KPAT of the process equipment, readiness activities, and finally, containerized sludge retrieval operations. Retrieval operations include the filling of STSCs with sludge and transferring them to T Plant, completing Tri-Party Agreement milestone M-016-176, *Complete Sludge Removal from 105-KW Fuels Storage Basin* is outside contract period in FY2019.

SCHEDULE MARGIN/MANAGEMENT RESERVE

Reference Appendix C.3 Formats 1, 2, 3, and 5 for specific schedule margin/MR utilization for this CAP.

CRITICAL DECISION MILESTONE STATUS

Number	Title	*Due Date	**Forecast Date	Status/ Comment
15-D-401	CD-4, Project Completion	11/30/2019	8/26/2018	The forecast date includes schedule margin from the Project’s risk analysis. No additional schedule margin applied during fiscal month July.

*Due date reflects CD-4 due date with DOE contingency.

**Forecasted Date reflects CD-4 due date without DOE contingency.

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.

RL-0012_C1_1

Contract Performance Reports

Format 1 - Work Breakdown Structure

Format 2 - Organizational Categories

Format 3 - Baseline

Format 4 - Staffing

Format 5 - Explanation and Problem Analysis



July 2016
CHPRC-2016-07, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

CLASSIFICATION (When Filled In)

**CONTRACT PERFORMANCE REPORT
FORMAT 1 - WORK BREAKDOWN STRUCTURE**

DOLLARS IN Thousands of \$

FORM APPROVED
OMB No. 0704-0188

1. CONTRACTOR		2. CONTRACT		3. PROGRAM			4. REPORT PERIOD												
a. NAME CH2M HILL Plateau Remediation Company		a. NAME Plateau Remediation Contract		a. NAME 15 D 401 KW Basin Sludge Removal Project			a. FROM (YYYYMMDD) 2016 / 06 / 20												
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE			b. TO (YYYYMMDD) 2016 / 07 / 24												
		c. TYPE CPAF		d. SHARE RATIO		c. EVMS ACCEPTANCE NO <input type="checkbox"/> X YES (YYYYMMDD) 2019 / 09 / 18													
5. CONTRACT DATA																			
a. QUANTITY 1	b. NEGOTIATED COST 295,873	c. ESTIMATED COST OF AUTHORIZED UNPRICED WORK 0	d. TARGET PROFIT/FEE 3,450	e. TARGET PRICE 299,323	f. ESTIMATED PRICE 302,421	g. CONTRACT CEILING 299,153	h. ESTIMATED CONTRACT CEILING 302,421	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 Compliance Manager										
a. BEST CASE		291,249				c. SIGNATURE			d. DATE SIGNED (YYYYMMDD)										
b. WORST CASE		302,929																	
c. MOST LIKELY		298,971	295,873	-3,098															
8. PERFORMANCE DATA																			
CAPN.PBS Control Account.PARS 2 WBS (2) ITEM (1)	CURRENT PERIOD					CUMULATIVE TO DATE					REPROGRAMMING ADJUSTMENTS			AT COMPLETION					
	BUDGETED COST WORK SCHEDULED (2)	ACTUAL COST WORK PERFORMED (3)	VARIANCE SCHEDULE (5) COST (6)	BUDGETED COST WORK SCHEDULED (7)	ACTUAL COST WORK PERFORMED (8)	VARIANCE SCHEDULE (10) COST (11)	BUDGETED COST WORK SCHEDULED (7)	ACTUAL COST WORK PERFORMED (8)	VARIANCE SCHEDULE (10) COST (11)	COST VARIANCE (12a)	SCHEDULE VARIANCE (12b)	BUDGET (13)	BUDGETED (14)	ESTIMATED (15)	VARIANCE (16)				
RL-0012 SNF Stabilization & Disp																			
RL_0012_C1_1.16 Sludge Treatment Project	0	0	0	156,861	156,861	75	156,861	156,861	156,786	0	0	0	156,861	156,786	75				
RL_0012_C1_1.17 D-401 KW Basin Sludge Removal Project	4,699	4,251	3,343	74,873	76,667	6,481	74,873	76,667	70,186	1,793	6,481	0	131,120	134,463	-3,343				
b. COST OF MONEY	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				
d. UNDISTRIBUTED BUDGET													0	0	0				
e. SUBTOTAL	4,699	4,251	3,343	231,734	233,528	6,555	231,734	233,528	226,972	1,793	6,555	0	287,981	291,249	-3,268				
f. MANAGEMENT RESERVE													7,722						
g. TOTAL	4,699	4,251	3,343	231,734	233,528	6,555	231,734	233,528	226,972	1,793	6,555	0	295,703						
9. RECONCILIATION TO CONTRACT BUDGET BASELINE																			
a. VARIANCE ADJUSTMENT																			
b. TOTAL CONTRACT VARIANCE										1,793		6,555		295,703		291,249		4,454	

CLASSIFICATION (When Filled In)

CLASSIFICATION (When Filled In)

**CONTRACT PERFORMANCE REPORT
FORMAT 2 - ORGANIZATIONAL CATEGORIES**

DOLLARS IN Thousands of \$ FORM APPROVED OMB No. 0704-0188

1. CONTRACTOR		2. CONTRACT		3. PROGRAM		4. REPORT PERIOD	
a. NAME CH2M HILL Plateau Remediation Company		a. NAME Plateau Remediation Contract		a. NAME 15 D 401 KW Basin Sludge Removal Project		a. FROM (YYYYMMDD) 2016 / 06 / 20	
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE		b. TO (YYYYMMDD) 2016 / 07 / 24	
c. TYPE CPAF		d. SHARE RATIO		c. EVMS ACCEPTANCE NO <input type="checkbox"/> X YES (YYYYMMDD) 2019 / 09 / 18			

ITEM (1)	CURRENT PERIOD						CUMULATIVE TO DATE					REPROGRAMMING ADJUSTMENTS			AT COMPLETION		
	BUDGETED COST		ACTUAL COST WORK PERFORMED	VARIANCE		BUDGETED COST		ACTUAL COST WORK PERFORMED	VARIANCE		COST VARIANCE	SCHEDULE VARIANCE	BUDGET	BUDGETED	ESTIMATED	VARIANCE	
	WORK SCHEDULED (2)	WORK PERFORMED (3)	(4)	SCHEDULE (5)	COST (6)	WORK SCHEDULED (7)	WORK PERFORMED (8)	(9)	(10)	(11)	(12a)	(12b)	(13)	(14)	(15)	(16)	
3G - K Basin Oper & Plateau Remediation Project	4,699	4,251	3,343	-448	908	231,734	233,528	226,972	1,793	6,555	0	0	0	287,981	291,249	-3,268	
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														0	0	0	
e. SUBTOTAL (Performance Measurement Baseline)	4,699	4,251	3,343	-448	908	231,734	233,528	226,972	1,793	6,555	0	0	0	287,981	291,249	-3,268	
f. MANAGEMENT RESERVE														7,722			
g. TOTAL	4,699	4,251	3,343	-448	908	231,734	233,528	226,972	1,793	6,555	0	0	0	295,703			

CLASSIFICATION (When Filled In)

CONTRACT PERFORMANCE REPORT															Form Approved			
FORMAT 3 - BASELINE										DOLLARS IN THOUSANDS					OMB No. 0704-0188			
1. CONTRACTOR CH2M HILL Plateau Remediation Company				2. CONTRACT a. NAME: Plateau Remediation Contract b. NUMBER: RL14788 c. TYPE: CPAF d. SHARE RATIO:				3. PROGRAM RL_0012_15_D_401 KW Basin Sludge Removal Project a. NAME: Plateau Remediation Contract b. PHASE: c. EVMS ACCEPTANCE NO YES X 9/18/2009				4. REPORT PERIOD a. FROM: 2016/06/20 b. TO: 2016/07/24						
5. CONTRACT DATA																		
a. ORIGINAL NEGOTIATED COST 295,813				b. NEGOTIATED CONTRACT CHANGE \$0		c. CURRENT NEGOTIATED COST (A + B) \$295,813		d. ESTIMATED COST AUTH UNPRICED WORK \$0		e. CONTRACT BUDGET BASE (C + D) \$295,813		f. TOTAL ALLOCATED BUDGET \$295,703		g. DIFFERENCE (E - F) \$110				
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)	SIX MONTH FORECAST						BUDGETED COST FOR WORK SCHEDULED (NON - CUMULATIVE)								UNDISTRIB BUDGET (16)	TOTAL BUDGET (17)
			+1 Aug-16 (4)	+2 Sep-16 (5)	+3 Oct-16 (6)	+4 Nov-16 (7)	+5 Dec-16 (8)	+6 Jan-17 (9)	FY09-13 (10)	FY14 (11)	FY15 (12)	FY16 (13)	FY17 (14)	FY18 (15)				
a. PM BASELINE (BEGIN OF PERIOD)	227,035	4,699	4,393	5,943	2,282	2,954	3,084	2,417	0	27,547	50,942	69,007	37,413	8,498	0	287,981		
b. BASELINE CHANGES AUTH DURING REPORT PERIOD BCR-012C-16-026RO - Align 15-d-401- KW Basin Sludge Removal Project Fee to the Project Execution Plan																		
c. PM BASELINE (END OF PERIOD)	231,734	4,699	4,393	5,943	2,282	2,954	3,084	2,417	0	27,547	50,942	69,007	37,413	8,498	0	287,981		
7. MANAGEMENT RESERVE																		
																7,722		
8. TOTAL																		
																295,703		

CLASSIFICATION (When Filled In)

CONTRACT PERFORMANCE REPORT FORMAT 4 - STAFFING												FORM APPROVED OMB No. 0704-0188		
											Dollars in: FTE			
1. CONTRACTOR			2. CONTRACT				3. PROGRAM				4. REPORT PERIOD			
a. NAME CH2M HILL Plateau Remediation Company			a. NAME Plateau Remediation Contract				a. NAME 15 D 401 KW Basin Sludge Removal Project				a. FROM (YYYYMMDD) 2016 / 06 / 20			
b. LOCATION (Address and ZIP Code) Richland, WA			b. NUMBER RL14788				b. PHASE				b. TO (YYYYMMDD) 2016 / 07 / 24			
			c. TYPE CPAF		d. SHARE RATIO		c. EVMS ACCEPTANCE <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES (YYYYMMDD) 2019 / 09 / 18							
5. PERFORMANCE DATA														
WBS.Resp Org Group ORGANIZATIONAL CATEGORY (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)						ENTER SPECIFIED PERIODS					
			+1 AUG 2016 (4)	+2 SEP 2016 (5)	+3 OCT 2016 (6)	+4 NOV 2016 (7)	+5 DEC 2016 (8)	+6 REMAIN FY17 (9)	FY18 (10)	FY19-LC (11)	ATCOMPLETE (12)	(13)		(14)
3G - K Basin Oper & Plateau Remediation Project	70	6124	84	86	78	80	80	810	743	0	0	0	0	8086
g. TOTAL DIRECT	70	6124	84	86	78	80	80	810	743	0	0	0	0	8086

CLASSIFICATION (When Filled In)

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 012- RL-12 SNF Stabilization and Disposition				a. FROM (YYYYMMDD) 2016/06/20		
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE				b. TO (YYYYMMDD) 2016/07/24		
c. TYPE CPAF		d. SHARE RATIO		c. EVMS ACCEPTANCE No X Yes (YYYYMMDD) 2009 / 09 / 18						
5. Evaluation										
Direct Projects										
	Budget	Earned	Actuals	SV in \$	SV in %	CV in \$	CV in %	SPI	CPI	
Current:	4,699.3	4,251.0	3,342.7	-448.3	-9.5%	908.4	21.4%	0.90	1.27	
Cumulative:	231,734.2	233,527.6	226,972.4	1,793.4	0.8%	6,555.3	2.8%	1.01	1.03	
	BAC	EAC	VAC in \$	VAC in %	TCPI to BAC	TCPI to EAC				
At Complete:	287,980.6	291,248.9	-3,268.3	0.0	0.89	0.85				
Explanation of Variance/Description of Problem:										
Current Period: Schedule Variance: Within Threshold Cost Variance: The positive cost variance associated with this account is due to several items. Lower than expected costs are reflected in ECRTS Readiness & Start-Up, Project Management, ECRTS Procurement and Annex / In-Basin Title III areas. Resources have been shifted to support T-Plant Readiness. Efficiencies have been achieved by centralizing Program Management responsibilities, which has resulted in a reduced staff level. ECRTS Procurement reflects a positive cost variance this month, due to the recent contractor accrual being lower than expected, in comparison to the monthly BCWP earned. The level of Title III support required has been less than planned, in the Annex & In-Basin facilities. Overall, the project is performing the work with reduced staff. This has resulted in a positive cost variance.										
Cumulative To Date: Schedule Variance: Within Threshold Cost Variance: Within Threshold										
Impact:										
Schedule Impact: None identified at this time. The project continues to pursue acceleration of the first sludge container from the current plan of June 4, 2018 (non-risk adjusted date). The project is on schedule to meet TPA milestones M-016-177 "Complete 105-KW Sludge Transfer Equipment Installation" by 9/30/2017 and M-016-175 "Begin Sludge Removal from 105-KW Fuel Storage Basin" by 9/30/2018.										
Cost Impact: None identified at this time. The project expects the positive cost variance to continue through cold testing at MASF. The current ETC reflects the expected overall costs and further ETC adjustments will be considered as equipment is moved to the facilities and equipment installation begins. Currently, the EAC is projecting \$291.2M overall for the project, against a life-cycle budget of \$288.0M.										
Corrective Action:										
Schedule: No corrective actions identified in the month of July. Cost: Process a cost transfer to move \$500 in charges that were recognized in July. Close out CACNs for this account. An evaluation will be performed to assure all final contract costs and adjustments are reflected in the accounts, prior to closing. (Action CAMS. September 30, 2016)Process a BCR to move accrual adjustment dollars to Management Reserve. The BCR is expected to be processed in September 2016.										
Monthly Summary (to include technical causes of VARs, Impacts) and Corrective Action(s):										
1. Schedule Margin Analysis: Project schedule margin remains at 83 days. There were no baseline changes in July which affected the schedule margin. Project continues to evaluate schedule for efficiencies.										
2. IMS Data dictionary Changes: None in the month of July.										
3. Forecast Schedule with No Baseline: None in the month of July.										
4. UB Balance: N/A										
5. Negative ACWP: None in the month of July.										
6. EAC Analysis: Best Case = \$291,248.9; Most likely = \$298,971.3; Worst Case = \$302,600.3.										
7. Negative CV > VAC: N/A										
8. MR Transactions: None in the month of July.										
9. Freeze Period Changes: None in the month of July.										
10. Retroactive Changes: None in the month of July.										
11. EVT Changes: None in the month of July.										
Prepared by:			Date:			Approved by:			Date:	