

Monthly Performance Report

August 2017

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

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Release Approval

Date

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L. Ty Blackford
President and Chief
Executive Officer

Monthly Performance Report

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August 2017
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EXECUTIVE SUMMARY

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

- **Plutonium Finishing Plant (PFP) Closure Project:** The PFP team deactivated the main processing facility's criticality alarm system and established new radiological zones, and moved employees and equipment out of trailers to support demolition of the main processing facility.
- **Soil and Groundwater Remediation Project (S&GRP):** The S&GRP team completed efforts to optimize the operation of the Fluidized Bed Reactor B in the 200W Pump & Treat. This upgrade will help the facility run more efficiently.
- **Waste and Fuels Management Project (W&FMP):** The Management of Cesium and Strontium Capsule team submitted the Critical Decision-1 document to RL, covering modifications needed at the Waste Encapsulation and Storage Facility (WESF) and the creation of an outdoor storage area to support moving capsules from WESF to outdoor storage.
- **K Basins Operations and Plateau Remediation Project:** Sludge Removal Project (SRP) workers are now more than 74 percent complete with final acceptance testing. Testing has been very successful with a manageable number of issues needing to be resolved.
- **618-10 Burial Ground Waste Site:** The 618-10 Project continued mass excavation activities at the 618-10 Burial Ground and removed more than 25,000 tons of contaminated soil in August. The project also continued backfill activities at the 316-4 Waste Site and completed excavation at the 600-63 Waste Site.
- **324 Building Remediation Project:** The project completed training for building trades workers who will complete the airlock and hot cell cleanout. Workers also finished testing remote excavator arms at the Maintenance and Storage Facility, and continued modifications at the mock-up structure to support equipment installation later this calendar year.
- **PUREX Tunnels:** Site preparations for grouting of PUREX Tunnel 1, including the installation of support trailers and investigation of existing tunnel risers began in August. Crews also began mock-up testing and batch testing grout formulations.

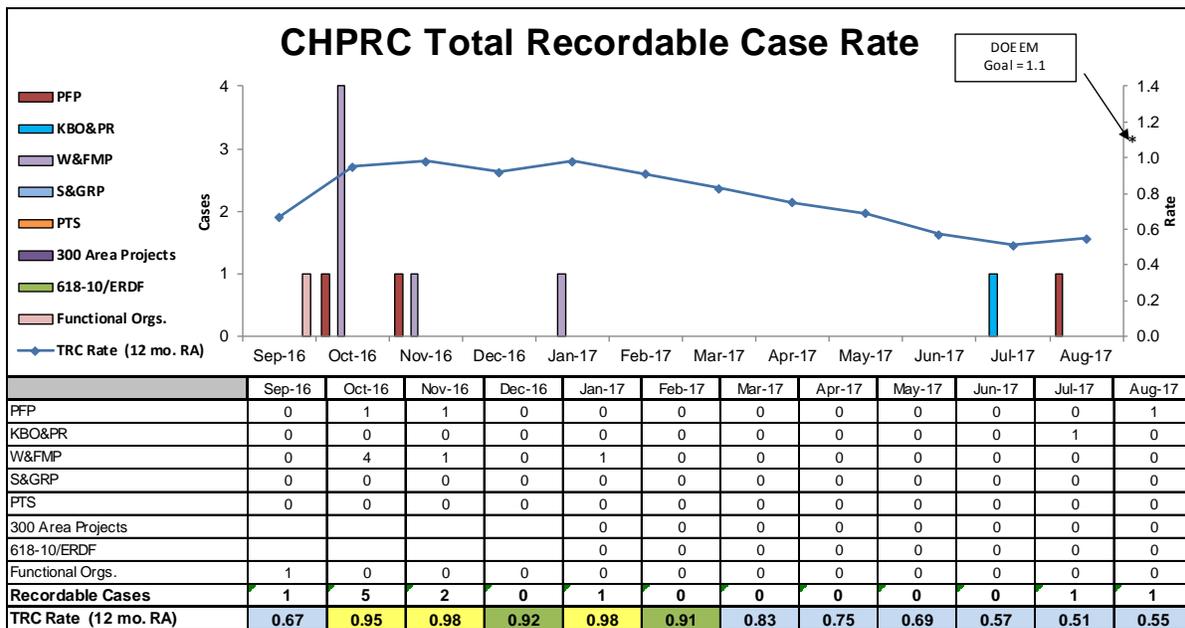


Excavation activities at the 618-10 Burial Ground Waste Sites.

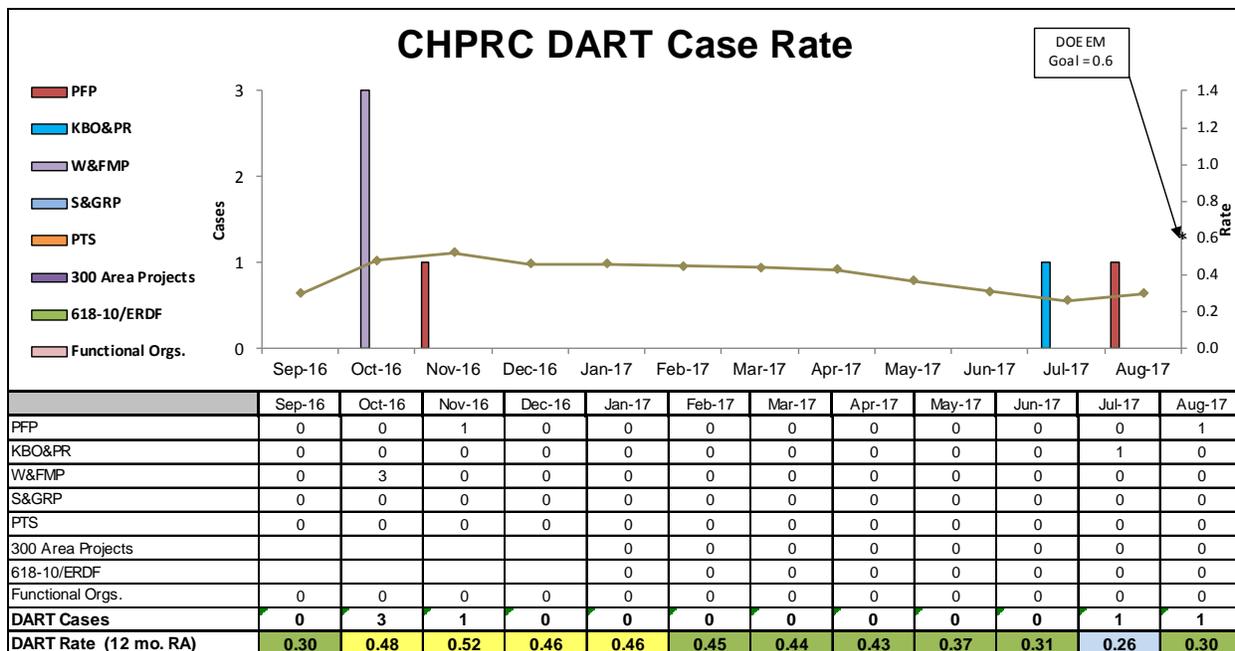
- The President’s Zero Accident Council (PZAC) meeting for August was hosted by the Environmental Program and Strategic Planning. The three main ideas were:
 - o Distracted driving.
 - o Back to school safety.
 - o Universal waste/compliance culture.
- CHPRC received its third Voluntary Protection Program Star of Excellence! Members of our team accepted the award at the Voluntary Protection Program Participants’ Association safety symposium in New Orleans. The CHPRC commitment to safety brings us a step closer to our 2018 “Legacy of Stars” goal! Thank you for your safety 24/7 efforts!
- Four “*Thinking Target Zero*” (TTZ) bulletins were published to convey important occupational, safety, health, and environmental messages:
 - o Solar Eclipse Viewing.
 - o Water Safety.
 - o Driving Safety – Off-road Short Cuts.
 - o Summer – Back to school.
- *Weekly Safety Tailgate* briefing packages communicated relevant topics and safety information to the workforce:
 - o Four Lessons Learned:
 - MSA, LLC: Incorrect Fuses Call into Question Arc Flash Hazards Analyses.
 - Brookhaven National Laboratory: Best Practice – Defensive Driving: the circle of safety.
 - Lawrence Livermore National Laboratory: Use parking brake when vehicles are parked.
 - Lawrence Livermore National Laboratory: Excavator overturns, seatbelt prevents serious injury.
 - o Injury reports.
 - o Weekly ethics moments.
 - o Vehicle incidents.
 - o Conduct of work focus topic.
 - o Eclipse eye safety.
 - o Reporting injuries.
 - o Metal stair corrosion.
 - o New site wide webpage.
 - o HPMC medical appointments.
 - o Electronic cigarette hazards.
 - o Solar eclipse safety reminder.
 - o Distracted driving law.
 - o Park vehicles in an appropriate area.

TARGET ZERO PERFORMANCE

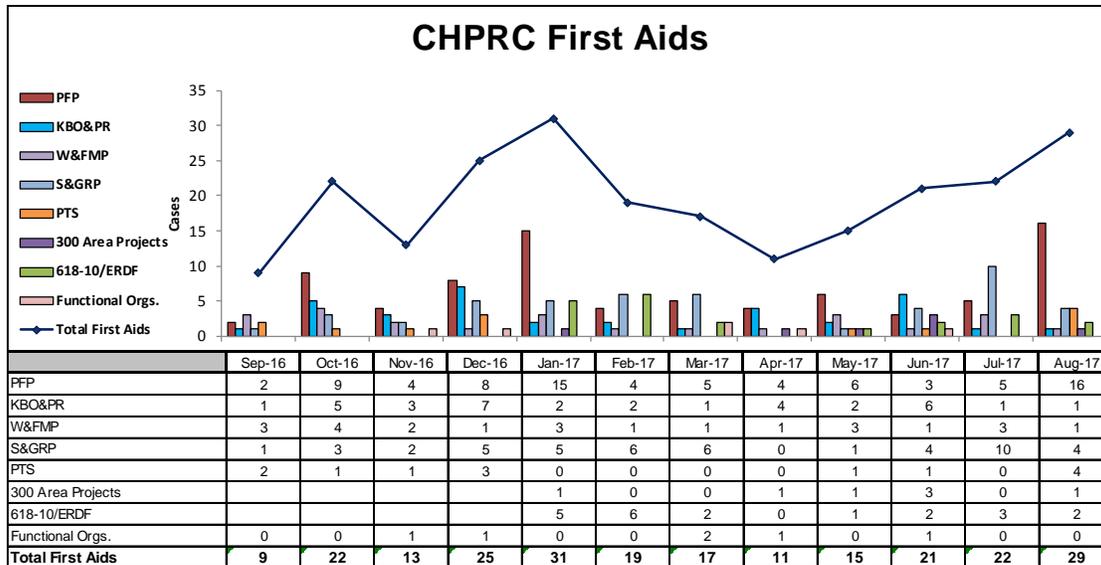
CHPRC continued focusing on integrating and implementing safety programs in all program and project areas.



Total Recordable Injury Case (TRC) Rate: The 12-month rolling average TRC rate of 0.55 is based on a total of 11 Recordable injuries. There was one recordable case for August.



Days Away, Restricted or Transferred (DART) Workdays Case Rate: The 12-month rolling average DART rate of 0.30 is based on a total of six Days Away cases. There was one DART case in August.



First Aid Case Summary: CHPRC reported 29 First Aid cases in August. The contributors were 12 miscellaneous (burns, rashes, repetitive motion, etc.), eight sprains/strains/pains, four insect bites, three abrasions/bruises/contusions, one cut/laceration/puncture, and one foreign bodies/irritation in the eye injury. In addition, six self-treat cases were reported in August.

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 (PTS)

- Refer to the Appendix B section of this report for specific overhead support and Sections A through G, as well as Appendix C of this report for specific project support.

MAJOR ISSUES

Issue:

Significant Contract Change Management is ongoing and must be resolved to retain Plateau Remediation Contract (PRC) alignment for fiscal year (FY) 2017/FY2018.

- During August, RL and CHPRC reached agreement on the definitization of change order 294, 100-KR-4 RI/FS Decisional Rewrite.
- As of August month end, there was a backlog of 41 undefinitized CPs and responses to Requests for Proposals (RFPs) – totaling approximately \$331 million in net value with fee.

Corrective Action:

- Work with RL to reach agreement on PRC FY2017/FY2018 alignment and support RL evaluation and determination of the disposition of undefinitized CHPRC CPs/REAs.

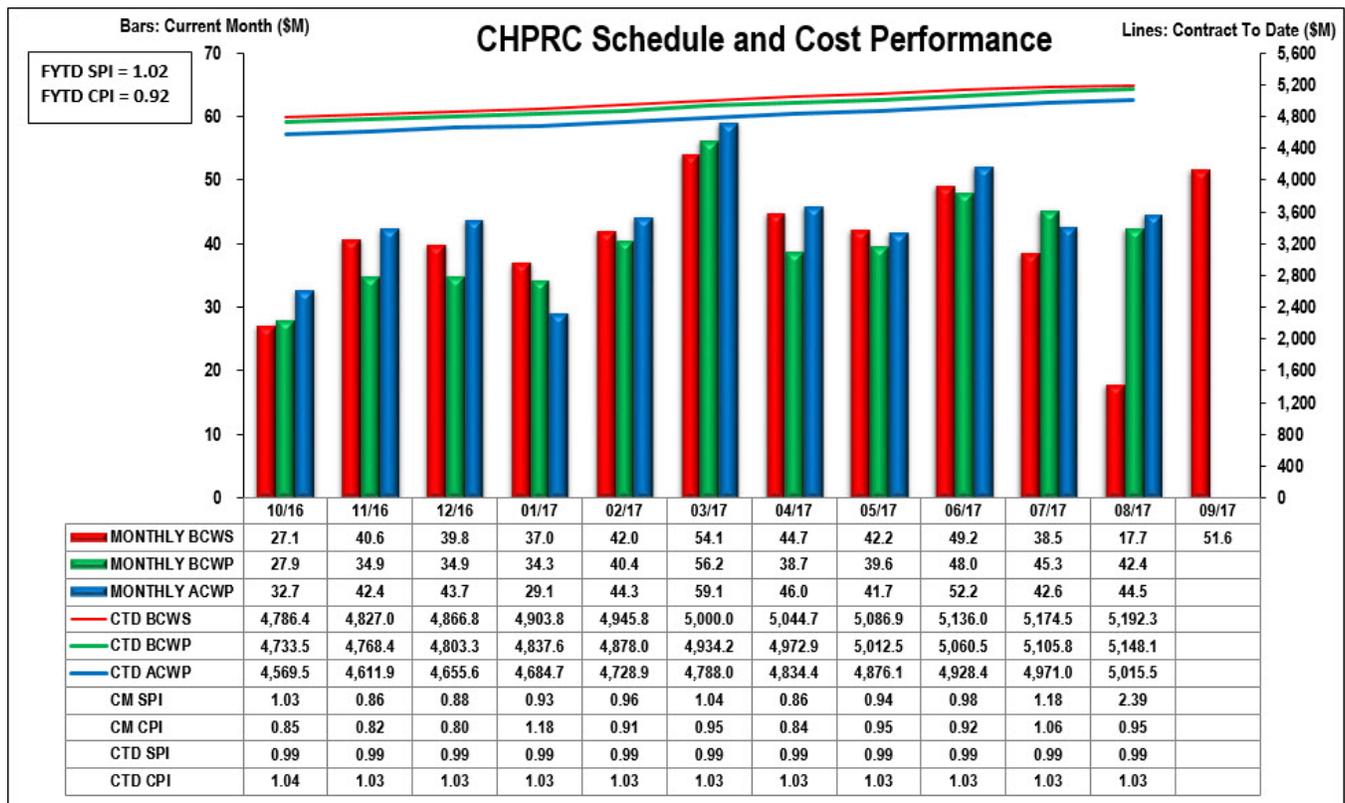
Status:

- CHPRC continues to discuss proposed alignment strategy with RL.

Projects

- 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			Variance
	BCWS	BCWP	ACWP	Schedule	Cost	BCWS	BCWP	ACWP	Schedule	Cost	BAC	EAC	Variance	
RL-0011 - Nuclear Materials Stab & Disp PFP	0.1	3.0	9.7	2.9	(6.7)	980.3	953.2	1054.3	(27.1)	(101.2)	980.5	1,088.0	(107.5)	
RL-0012 - SNF Stabilization & Disposition	5.3	5.0	4.0	(0.3)	1.0	691.9	689.9	657.2	(2.0)	32.7	740.7	704.5	36.3	
RL-0013 - Solid Waste Stab & Disposition	9.1	9.8	7.2	0.7	2.6	1181.5	1183.8	1104.7	2.3	79.1	1,355.2	1,278.4	76.8	
RL-0030 - Soil & Water Rem-Grndwtr/Vadose	(11.7)	9.9	10.8	21.6	(0.9)	1395.5	1379.8	1347.3	(15.7)	32.6	1,562.9	1,527.5	35.4	
RL-0040 - Nuc Fac D&D - Remainder	4.4	4.7	3.7	0.3	1.0	452.7	446.9	416.6	(5.8)	30.3	491.4	468.6	22.7	
RL-0041 - Nuc Fac D&D - RC Closure Project	10.4	9.9	8.8	(0.5)	1.0	466.3	470.5	415.5	4.3	55.1	569.7	495.5	74.2	
RL-0042 - Nuc Fac D&D - FFTF Project	0.2	0.2	0.2	(0.0)	(0.0)	24.0	24.0	19.9	(0.1)	4.1	26.5	23.0	3.5	
Total	17.7	42.4	44.5	24.6	(2.1)	5,192.3	5,148.1	5,015.5	(44.1)	132.7	5,726.8	5,585.5	141.3	

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

* In regards to RL-0041, CHPRC has implemented the River Corridor Closure Contract (RCCC) transitioned scope into the Performance Measurement Baseline (PMB) for Earned Value Management (EVM) reporting purposes. When the change orders (CO #304, #305, #306) are definitized, BCRs will be processed to align the PMB with the definitized values.

Performance Summary

CHPRC continues to track completion of the contract scope within budget and is currently projecting a Variance at Completion of \$141.3 million, with \$66.4 million of Management Reserve (MR), for a total positive variance of \$207.7 million. For August, the project was 138.8 percent ahead of schedule and 5.0 percent over planned cost. Contract to Date (CTD), the project was 0.8 percent behind schedule and 2.6 percent under planned cost.

The current month positive schedule variance is primarily due to project breakdown structure (PBS) RL-0030 August implementation of several baseline change requests (BCRs) to defer unfunded work activities into planning packages. Due to a lack of funding and project priority, scopes of work were not initiated in FY2017 as planned. The work packages were converted into planning packages and the budgets moved from FY2017 to September 2018, causing an adjustment in the current month.

Also contributing to the positive schedule variance is PBS RL-0011 working historical budgeted cost of work scheduled (BCWS) on discrete demolition activities (apportioned). The majority of the scope was originally planned to begin during the third quarter of 2016. However, delays in getting 236-Z ready for demolition negatively impacted the start of 236-Z demolition.

The positive schedule variance is partially offset by PBS RL-0041 soil remediation in Waste Site Area AB at 100K that was completed ahead of schedule in prior months. In addition the 300-296 Project experienced delays fabricating the Remote Excavator Arm (REA) resulting from design changes, core drilling activities at the Mockup are taking longer than planned due to tolerance deviations and REC Airlock cleanout was impacted by training/proficiency of a new crew.

The current month negative cost variance is primarily due to PBS RL-0011 delay in completion of the PFP Project to achieve slab on grade. The delay is causing needed extensions of hotel load resources, without BCWS, to support the remaining D&D work scope until the facility becomes ready for demolition. Further, working historical BCWS for removal of focus decontamination, hazmat removal, and fixative applications requiring more effort than expected (apportioned). The variance is also attributed to additional insulators brought onto the project to support unplanned asbestos abatement. As delays in ready-for-demo activities have been recognized, continued waste support resources are required to support waste load-out and shipping efforts. The resources are expected to be needed through completion of demolition activities. Unplanned shipments to Perma-Fix Northwest (PFNW) for the size reduction of gloveboxes and E4 in 234-5Z caused additional costs to support ready-for-demo activities. Shipping the waste to PFWN helped realize schedule and safety improvements but has resulted in increased size reduction costs. Additional unplanned shipping materials (Waste shipping containers such as TL-1800s, SLB2s, IP-1 bags, etc.) were required to support waste loadout activities. In addition, recovery from contamination events during demolition of 236-Z contributed to this variance. Resources supported implementation of corrective actions, including expanding the demo boundary and relocation of equipment. Due to contamination found on trailers and vehicles (e.g., trucks, van, JLG Lift Equipment, generators, etc.) within the new demo boundary, the project unexpectedly had to purchase the previously leased facilities and vehicles.

The current month negative cost variance is partially offset by PBS RL-0013 implementation of the M-91-05-01 Not-to-Exceed (NTE) Change Order 317 into the baseline, which resulted in a point adjustment for BCWS and BCWP of \$2.0 million for work that was completed and costed in a previous period; the remaining positive cost variance is the result of under runs, which are due to continued implementation of planned efficiencies.

FUNDING ANALYSIS

FY2017 Funds vs. Fiscal Year Spend Forecast (\$M)

PBS	Project	FY2017		Variance
		Projected Funding	Spending Forecast	
Estimate at Complete				
RL-0011	Nuclear Materials Stabilization and Disposition	134.5	127.0	7.6
RL-0012	Spent Nuclear Fuel Stabilization and Disposition	32.4	31.0	1.3
RL-0012	15-D-401 Sludge Retrieval Project	65.0	38.2	26.8
RL-0013	Waste and Fuels Management Project	112.1	96.4	15.7
RL-0030	Soil, Groundwater and Vadose Zone Remediation	126.6	119.4	7.2
RL-0040	Nuclear Facility D&D, Remainder of Hanford	38.9	34.4	4.5
RL-0041	Nuclear Facility D&D, River Corridor	146.3	113.3	33.0
RL-0042	Fast Flux Test Facility Closure	3.9	2.1	1.8
Total Estimate at Complete		659.6	561.7	97.9
Incremental Scope Pending Change Management				
RL-0011	Nuclear Materials Stabilization and Disposition	0.0	0.0	0.0
RL-0012	Spent Nuclear Fuel Stabilization and Disposition	0.0	0.3	(0.3)
RL-0012	15-D-401 Sludge Retrieval Project	0.0	0.3	(0.3)
RL-0013	Waste and Fuels Management Project	0.0	0.7	(0.7)
RL-0030	Soil, Groundwater and Vadose Zone Remediation	0.0	3.2	(3.2)
RL-0040	Nuclear Facility D&D, Remainder of Hanford	0.0	0.6	(0.6)
RL-0041	Nuclear Facility D&D, River Corridor	0.0	0.7	(0.7)
RL-0042	Fast Flux Test Facility Closure	0.0	0.0	0.0
Total Incremental Work Scope		0.0	5.8	(5.8)
Total Fiscal Year Spend Forecast				
RL-0011	Nuclear Materials Stabilization and Disposition	134.5	127.0	7.6
RL-0012	Spent Nuclear Fuel Stabilization and Disposition	32.4	31.3	1.1
RL-0012	15-D-401 Sludge Retrieval Project	65.0	38.4	26.6
RL-0013	Waste and Fuels Management Project	112.1	97.2	15.0
RL-0030	Soil, Groundwater and Vadose Zone Remediation	126.6	122.6	4.0
RL-0040	Nuclear Facility D&D, Remainder of Hanford	38.9	35.0	3.9
RL-0041	Nuclear Facility D&D, River Corridor	146.3	114.0	32.3
RL-0042	Fast Flux Test Facility Closure	3.9	2.1	1.8
Total		659.6	567.5	92.1

Funds/Variance Analysis

FY2017 expected funding did not change in the month of August and remains at \$659.6 million. The total spending forecast decreased \$9.1 million from last month. The reduction is primarily driven by revision to the fee plan, which will carry over to the next FY.

BASELINE CHANGE REQUESTS

In August 2017, CHPRC approved and implemented 19 Baseline Change Requests (BCRs) into the PMB. 11 of the 19 BCRs impacted the PMB. Each change request is identified in the table below:

Change Request #	Title	PBS	Summary of Change
BCR-012C-17-013R0	<i>EVM Health Corrections for RL-0012 CAP Project</i>	RL-0012	This BCR incorporated EVM Health changes to correct schedule issues. This BCR did not change the PMB value.
BCR-013-17-020R0	<i>Incorporate CO #322 IDF Revised Operational Requirements NTE Increase</i>	RL-0013	This BCR incorporated the scope associated with the NTE increase for CO 322, IDF Operational Requirements. This BCR increased the PMB value by \$500K.
BCR-013-17-021R0	<i>Incorporate CO #327 Accelerating the Shipment of Sludge from 100-K West Basin to T-Plant</i>	RL-0013	This BCR incorporated the scope and NTE for Contract Modification 595 for CO 327 authorizing CHPRC to begin staff transitions to support accelerating the shipment of Sludge from the 100-K West Basin to T Plant. This BCR increased the PMB value by \$350K.
BCR-013-17-022R0	<i>Incorporate CO #314 Increase the NTE Cost Authority for Outside Storage Area Closure Plan Revisions</i>	RL-0013	This BCR incorporated the Scope associated with the NTE increase for CO 314, Outside Storage Area Closure Plan Revisions. This BCR increased the PMB value by \$50K.
BCR-013-17-024R0	<i>Incorporate CO #317, Implement scope changes in TPA Change Control M-91-15-01, Modification of TRU and MW Retrieval and Treatment M-091 Milestones</i>	RL-0013	This BCR incorporated CO 317 for the scope associated with the NTE for changes contained in the approved Tri-Party Agreement Change Control Form Number M-91-15-01, Modification of Transuranic (TRU) and Mixed Waste Retrieval and Treatment M-091 Series Milestones. This BCR increased the PMB value by \$2,102K.
BCR-013-17-025R0	<i>Incorporate NTE Increase for CO #310, SWOC Hazards Mitigation Activities (Upgrade CWC Lighting)</i>	RL-0013	This BCR incorporated the scope and NTE increase for CO #310 for the Solid Waste Operations Complex Hazards Mitigation Activities, CWC lighting upgrades. This BCR increased the PMB value by \$113K.
BCR-030-17-025R0	<i>Unilateral Definitization of CO #312 Biomobilization and Biointrusion Evaluation Sampling and Analysis Plan</i>	RL-0030	This BCR incorporated the definitization of CO 312 per Contract Modification 594. This BCR increased the PMB value by \$525K.
BCR-030-17-027R0	<i>Re-Plan FY2018 100 Area Pump & Treat Annual Report and Annual Groundwater Report Activities</i>	RL-0030	This BCR re-planned the FY2018 work to be in alignment with revised execution approach. This BCR did not change the PMB value.
BCR-030-17-028R0	<i>Incorporate CO #318, Re-Plan 200-WA-1 and 200-BC-1 Characterization</i>	RL-0030	This BCR incorporated CO #318 which re-planned 200-WA-1 & 200-BC-1 Characterization activities to reflect the scope that is required to effectively conclude the FY2017 scope and layup the project until funding is available, and the scope is authorized to re-start. This BCR decreased the PMB value by \$102K.
BCR-030-17-029R0	<i>Move Unfunded RL-0030 Work Activities to Planning Packages</i>	RL-0030	This BCR moved scope that is not funded in the period of performance of the PRC to a Planning Package. This BCR did not change the PMB value.

Change Request #	Title	PBS	Summary of Change
BCR-030-17-030R0	<i>Convert UP-1 Chrome Remedy Planning Package to Work Package</i>	RL-0030	This BCR converted a portion of the planning package in work breakdown structure (WBS) 030.22.03.01.05.04 – <i>UP-1 Cr Remedy – Remedial Design</i> (Planning Package) into discrete planned work scope for the remedial design investigation report. This BCR did not change the PMB value.
BCR-030-17-031R0	<i>Convert 100-NR-2 Barrier Injection Work Package to Planning Package</i>	RL-0030	This BCR converted unfunded work for 100-NR-2 barrier to FY2018 Planning Packages. This BCR did not change the PMB value.
BCR-030-17-032R0	<i>Remove TPA M-015-112 and Defer Unfunded Work Activities to Planning Package</i>	RL-0030	This BCR removed Tri-Party Agreement M-015-112, Submit Draft B 200-IS-1 RFE/CMS/RI/FS Work Plan to Ecology with Schedule Dates, from the PMB as a result of CCF M-15-17-03 moving the due date to November 30, 2020, outside the PMB contract period. This BCR also converted work not planned to be worked in the contract period to FY2018 Planning Packages while RL and CHPRC negotiate the removal of the scope from the PRC. This BCR did not change the PMB value.
BCR-040-17-018R0	<i>Incorporate CO #311 Activity B, Perform REDOX Roof Replacement NTE Increase</i>	RL-0040	This BCR incorporated the scope associated with the NTE increase for CO 311 for the REDOX Roof Replacement, Activity B. This BCR increased the PMB value by \$1,505K.
BCR-040-17-019R0	<i>Incorporate CO #329 PUREX NTE Increase for Recovery/Stabilization</i>	RL-0040	This BCR incorporated the scope associated with the NTE increase for CO #29 for the PUREX Tunnel Recovery/Stabilization. This BCR increased the PMB value by \$3,447K.
BCR-041-17-036R0	<i>RL-0041 Convert 100K Project Management and Support Planning Package to Work Package</i>	RL-0041	This BCR planned a portion of RL-0041 PP 41.04.21.01.0155 – 100K Project Management and Support Planning Package as work scope for the Performance Analysis & Risk Management Integration support to provide enhanced project productivity issue identification, tracking, trending, and reporting capabilities, including associated Information Technology (IT) requirements and Risk Management. This BCR did not change the PMB value.
BCRA-PRC-17-035R0	<i>HPIC Updates August 2017</i>	RL-0011, RL-0012, RL-0030, RL-0040, RL-0041, RL-0042, 000s	This BCR incorporated August FY2017 HPIC updates. This BCR did not change the PMB value.
BCR-PRC-17-036R0	<i>Unilateral Definitization of CO #309 Develop and Submit to RL DQOs for Assessing Structural Integrity for PUREX Tunnels</i>	RL-0040	This BCR incorporated the definitization of CO 309 per Contract Modification 606. This BCR decreased the PMB value by \$81K.

The Allocated (Distributed) Budget increased by \$8,409K.

Undistributed Budget Activity

BCR Number	Title	PBS	Fiscal Year	UB
BCR-PRC-17-034R0	<i>Undistributed Budget Adjustments August 2017</i>	RL-0013, RL-0030, RL-0040, RL-0041	2017-2018	\$-1,002K

The Undistributed Budget decreased by \$1,002K.

Management Reserve Activity

BCR Number	Title	PBS	Fiscal Year	MR
BCR-030-17-025R0	<i>Unilateral Definitization of CO #312 Biomobilization and Biointrusion Evaluation Sampling and Analysis Plan</i>	RL-0030	2017 – 2018	\$-288K
BCR-PRC-17-036R0	<i>Unilateral Definitization of CO #309 Develop and Submit to RL DQOs for Assessing Structural Integrity for PUREX Tunnels</i>	RL-0040	2017 – 2018	\$-64K

Overall, there was a decrease in Management Reserve (MR) of \$352K during August.

Fee Activity

BCR Number	Title	PBS	Fiscal Year	Fee
BCR-030-17-025R0	<i>Unilateral Definitization of CO #312 Biomobilization and Biointrusion Evaluation Sampling and Analysis Plan</i>	RL-0030	2017 – 2018	\$23K
BCR-PRC-17-036R0	<i>Unilateral Definitization of CO #309 Develop and Submit to RL DQOs for Assessing Structural Integrity for PUREX Tunnels</i>	RL-0040	2017 – 2018	\$1K

Overall, there was an increase to the Fee of \$24K during August.

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 FY. The PMB values of change requests are summarized by FY in the tables below (dollars in thousands):

August 2017 Summary of Changes

	FY 2009-2013	FY2014	FY2015	FY2016	FY2017	FY2018	FYs 2014-2018	Contract Period Total	Total PMB
July 2017 Estimate									
PMB	3,391,477	391,653	471,323	504,826	502,223	457,931	2,327,956	5,719,433	5,719,433
MR	0	0	0	0	30,199	36,593	66,791	66,791	66,791
Fee	155,504	14,325	14,501	27,804	10,588	18,636	85,853	241,358	241,358
Total	3,546,981	405,978	485,824	532,630	543,010	513,160	2,480,601	6,027,581	6,027,581
August 2017 Change									
PMB									
Change to PMB	0	0	0	0	-17,614	25,021	7,407	7,407	7,407
MR									
Change to MR	0	0	0	0	-352	0	-352	-352	-352
Fee									
Change to Fee	0	0	0	0	24	0	24	24	24
Total Change	0	0	0	0	-17,942	25,021	7,078	7,078	7,078
August 2017 Estimate									
PMB	3,391,477	391,653	471,323	504,826	484,609	482,952	2,335,362	5,726,839	5,726,839
MR	0	0	0	0	29,847	36,593	66,439	66,439	66,439
Fee	155,504	14,325	14,501	27,804	10,612	18,636	85,877	241,381	241,381
Total	3,546,981	405,978	485,824	532,630	525,068	538,180	2,487,679	6,034,660	6,034,660

Changes to/Utilization of Management Reserve in August 2017

	FY2009-2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2014-2018	Total
July 2017 MR Totals								
RL-0011	0	0	0	0	6,875	0	6,875	6,875
RL-0012	0	0	0	0	6,240	3,262	9,502	9,502
RL-0013	0	0	0	0	869	7,208	8,077	8,077
RL-0030	0	0	0	0	8,081	15,175	23,256	23,256
RL-0040	0	0	0	0	0	0	0	0
RL-0041	0	0	0	0	8,095	10,847	18,942	18,942
RL-0042	0	0	0	0	38	101	139	139
Total	0	0	0	0	30,199	36,593	66,791	66,791
August 2017 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	(288)	0	-288	-288
RL-0040	0	0	0	0	0	0	0	0
RL-0041	0	0	0	0	(65)	0	-65	-65
RL-0042	0	0	0	0	0	0	0	0
Total	0	0	0	0	-352	0	-352	-352
August 2017 MR Totals								
RL-0011	0	0	0	0	6,875	0	6,875	6,875
RL-0012	0	0	0	0	6,240	3,262	9,502	9,502
RL-0013	0	0	0	0	869	7,208	8,077	8,077
RL-0030	0	0	0	0	7,794	15,175	22,969	22,969
RL-0040	0	0	0	0	0	0	0	0
RL-0041	0	0	0	0	8,031	10,847	18,878	18,878
RL-0042	0	0	0	0	38	101	139	139
Total	0	0	0	0	29,847	36,593	66,439	66,439

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 - 8/31/2017				Planned Subcontracting:	\$2,720,084,369
Reporting Category				Contract-to-date awards:	\$2,575,373,803
				Bal remaining to award:	\$144,710,566
	\$ Value	%	Goal %	Goal award\$	Bal to Goal
SB	\$1,420,729,302	55.17%	49.3%	\$1,341,001,594	-\$79,727,708
SDB	\$257,810,095	10.01%	8.2%	\$223,046,918	-\$34,763,177
SWOB	\$273,352,426	10.61%	7.5%	\$204,006,328	-\$69,346,099
HUB	\$66,281,570	2.57%	2.2%	\$59,841,856	-\$6,439,714
VOSB	\$200,292,710	7.78%	3.5%	\$95,202,953	-\$105,089,757
SDVO	\$117,773,122	4.57%	1.3%	\$35,361,097	-\$82,412,026
NAB	\$57,363,784	2.23%	N/A	PRC clause H.20 small business requirement ≥ 17% of CHPRC Contract Price performed by SB.	
Large	\$663,542,728	25.76%	N/A		
GOVT	\$3,529,550	0.14%	N/A		
GOVT CONT	\$483,186,359	18.76%	N/A		
EDUCATION	\$113,199	0.00%	N/A	CHPRC Contract Value:	\$5,732,255,464
NONPROFIT_	\$3,842,536	0.15%	N/A	17% rqmt:	\$974,483,429
FOREIGN	\$430,129	0.02%	N/A	SB actual:	\$1,420,729,302
Total	\$2,575,373,803	100.00%	N/A	Bal to rqmt	-\$446,245,873

Notes:

1. Since the CHPRC contract award in October 2008, CHPRC has subcontracted over \$2.5 billion in goods and services, with over 55 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 PCard 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	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 transuranic (TRU) materials outbound/inbound between the Hanford Site and Perma-Fix Northwest, Inc. (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.	Ongoing
J.12/C.2.3.6	PBS-13, Transuranic Waste Certification	Waste Isolation Pilot Plant (WIPP) provides shipping resources and manages the schedule for transportation of these containers to WIPP. The schedule is variable and the number of shipments is controlled by DOE-HQ on a complex-wide priority. Cost for shipment of TRU waste offsite is borne by the Carlsbad Field Office (CBFO).	No WIPP shipments are planned within the contract period of performance.

DOE ACTIONS/DECISIONS

Refer to Sections A through G as well as Appendix C of this report for the project specific DOE Actions / Decisions.

Section A

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



T. E. Bratvold
Vice President for
Plutonium Finishing
Plant Closure
Project

August 2017
CHPRC-2017-08, 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, asbestos, and ductwork. All gloveboxes have been removed from E4 ventilation, and all preparations for demolition starting in the Plutonium Reclamation Facility (PRF) are complete. Initiation of demolition on the PRF started in early November 2016. Initiation of demolition on the 242-Z facility started in early January 2017 and was completed in April 2017. Demolition on the 236-Z facilities is ongoing. Demolition activities for 291-Z were initiated on June 30, 2017. Demolition of the 291-Z stack was completed on July 15, 2017, and waste loadout was completed July 27, 2017. Demolition of the 234-5ZA facility was initiated on July 27, 2017.

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

Significant accomplishments in August included:

- Completed waste loadout of 291-Z stack.
- Continued 291-Z demolition and waste loadout.
- Transitioned the 234-5Z to its Documented Safety Analysis demolition phase.
- Initiated demolition on the 234-5ZA facility.
- Removed or fixed in place for demo 231 feet of E4 ducting, completing E4 remediation.
- Abated 1,884 feet of asbestos which completed the removal of all asbestos requiring removal prior to demolition.
- Shipped one cubic meter (m³) of non-radioactive waste.
- Shipped 38 m³ transuranic (TRU) waste.
- Shipped 435 m³ of low-level waste/mixed low-level waste (LLW/MLLW).
- Shipped gloveboxes 227-T and HC-7C to Perma-Fix Northwest (PFNW) for size reduction.

Key Metrics

<i>Key Performance Indicators</i>	<i>Current Month</i>	<i>Contract To Date</i>
COMPLETE Glovebox/ Hood Removed or Dispositioned in Place	0	232 gloveboxes/hoods
KPP Rooms/Areas Ready for Demo	-	60 rooms/areas
COMPLETE Asbestos/Asbestos Containing Material (ACM) Removed	1,884	35,827
COMPLETE Process Vacuum Piping Dispositioned	0	7,231 feet
COMPLETE Process Transfer Line Dispositioned	-	1,525 feet
COMPLETE Pencil Tank Units Removed (Shipped)	-	196 pencil tank units
Buildings Ready for Demo	2	55 structures
Buildings Demolished or Removed	1	51 structures
Non-radioactive Waste Shipped	1 m ³	85 m ³
Transuranic/Transuranic Mixed (TRU/TRU-M) Shipped	38 m ³	2,560 m ³
LLW/MLLW Shipped	435 m ³	10,139 m ³

Environmental Management System (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.	<ol style="list-style-type: none"> 1. Issue report documenting thorough inspection of 236-Z. 2. Issue report documenting thorough inspection of 242-Z. 3. Issue report documenting thorough inspection of 234-5Z. (Scheduled to complete in early June 2017.) 4. Issue report documenting thorough inspection of 291-Z. 	<p>08/16/16</p> <p>05/26/16</p> <p>04/30/17</p> <p>05/30/17</p>	<p>100%</p> <p>100%</p> <p>100%</p> <p>100%</p>
17-EMS-PFP-OB1-T1	Reduce the risk of noncompliance with environmental requirements during demolition at PFP.	Reduce risk of noncompliance with applicable environmental requirements by enhancing the environmental screening process for demolition packages for 242-Z, 234-5Z, and 291-Z, thereby reducing the overall impacts from PFP's significant aspects.	<ol style="list-style-type: none"> 1. Create ready-for-demolition checklist for 242-Z/ZA. 2. Review 242-Z/ZA demolition work package against environmental requirements. 3. Create ready-for-demolition checklist for 291-Z. 4. Review 291-Z demolition work package against environmental requirements. 5. Create ready-for-demolition checklist for 234-5Z. 6. Review 234-5Z demolition work package against environmental requirements. 	<p>11/30/16</p> <p>12/29/16</p> <p>02/28/17</p> <p>03/30/17</p> <p>03/30/17</p> <p>04/27/17</p>	<p>100%</p> <p>100%</p> <p>100%</p> <p>100%</p> <p>100%</p> <p>100%</p>

TARGET ZERO PERFORMANCE

(Reported on a calendar month basis.)

	Current Month	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	1	2	<ul style="list-style-type: none"> 8/26/2017 – Employee was struck by a van and thrown to the ground. Van struck employee on left side, causing employee to land on the ground on right side. Employee was immediately attended to by Emergency Response Personnel who were present. Employee was then transported by ambulance to Kadlec hospital and was examined. Employee was restricted from returning to work due to prescribed pain medication and muscle relaxants. (24598)
Total Recordable Injuries	0	1	N/A
First Aid Cases	16	81	<ul style="list-style-type: none"> 8/8/2017 - A crew, consisting of five D&D and one RCT, were in Room 194 in the process of cutting/removing E4 ceiling stubs. A separate team was in Room 192 in the process of re-packaging waste. An RCT and a D&D worker noticed an odor. The supervisor was notified. Work was suspended, and all crew members including the supervisor reported to HPMC for evaluation and were released to return to work without restrictions. (24561, 24563, 24564, 24566, 24567, 24568, 24572) 8/9/2017 - Employee was providing RCT support for D&D activities in Room 270 and was dressed in a single set of Anti-Cs with a PAPR/hood, gloves, and booties (single set). Employee began to feel hot and nauseated and elected to the exit area. Employee rehydrated and rested in a cool area. Employee still was not feeling well and elected to go to HPMC for evaluation. The employee was returned to work without restrictions. (24575) 8/11/2017 - When employee was re-loading the waste into a garbage can, an odor was noticed and employee started to experience a persistent prolonged chemical-like metallic taste. Employee was taken to HPMC for evaluation and returned to work with no restrictions. (24576) 8/09/2017 – Employee was slightly bent over and in the process of moving a rolling cart when the employee experienced pain to the lower left back region. (24579) 8/14/2017 - Workers were working in Room 230C setting up a glovebox and a HEPA vacuum when they smelled an odor described as a burning vacuum belt or burnt popcorn. One employee experienced a scratchy/congested nose. Employee was taken to HPMC, along with an employee who smelled similar smells but did not display any symptoms. Both were released without restrictions. The following day (August 15, 2017), a similar odor was experienced. Upon further investigation, it was found to be coming from the draining of oil from a nearby door actuator. (24580) 8/16/2017 –The employee was in the process of removing bags of miscellaneous waste. On one of his trips, he attempted to carry two bags at once (one bag in each hand). The employee reported that one of the bags was filled with light-weight PPE while the other was filled with heavier rubber boots, causing an unbalanced load. As the employee was carrying the bags, he started to experience minor pain to his lower back

	Current Month	Rolling 12 Month	Comment
			<p>region. Not believing the injury was serious, the employee elected not to report. The following morning, the employee reported experiencing increased pain to his lower back region, and upon his return to work, was taken to HPMC for evaluation. (24588)</p> <ul style="list-style-type: none"> 8/28/2017- The employee was in the process of completing his TIS entry on a computer when he experienced an insect bite/sting to his right inner arm area just above the elbow. The employee was taken to HPMC for evaluation and returned to work without restrictions. (24597) 8/28/2017- The employee was in the process of walking throughout 234-5Z when he inadvertently stepped on a piece of scrap piping/metal lying on the floor. This caused his right foot to slide outward and sideways across the floor, losing his balance, and twisting his right knee as well. The employee did not fall as a result of stepping on the piece of scrap piping/metal. At the time and shortly after the incident, the employee didn't notice any abnormal issues with his knee and it was only at the end of the day, while changing out of his work clothes, did he notice some minor swelling to his right knee. The employee reported the injury and was taken to HPMC for evaluation, and returned to work without restrictions. (24600) 8/30/2017- The employee was standing on the landing of the staircase. Expecting the handrail to support his full weight, the employee leaned back against the handrail, which gave way, causing him to lose his balance. In an attempt to prevent himself from falling and regain his balance, the employee grabbed onto the adjacent handrails, and in the process, strained the muscles located to his right shoulder area, upper back, lower back, and upper leg/buttocks areas. The employee DID NOT fall from the landing and/or fall to the ground below. The employee was taken to HPMC for evaluation and returned to work without restrictions. (24604) 8/30/2017- The employee had just completed an entry into a radiological zone and was in the process of returning his tools to the storage connex. As the employee was entering the connex, he attempted to negotiate the connex step/lip but failed to lift his right foot/leg high enough to adequately clear the step/lip. In doing so, the employee inadvertently caught his right foot on the step/lip, which caused him to lose his balance and fall to the ground. The employee was carrying an 18-volt drill battery in his right hand, and as he fell to the ground, he fell onto the battery, causing some bruising to his right hand and wrist area. The employee was taken to HPMC for evaluation and returned to work without restrictions. (24606)
Near Misses	0	0	N/A

KEY ACCOMPLISHMENTS

RL-0011 Accomplishments

234-5Z

- Transitioned the 234-5Z to its DSA demolition phase.
- Completed abatement of all asbestos in 234-5Z (fire doors containing asbestos will be removed with hazmat).
- Removed or fixed in place for demo 231 feet of E4 ducting, completing E4 remediation.

PFP Waste Operations

- Shipped 38 m³ TRU/TRUM waste.
- Shipped 435 m³ LLW/MLLW.
- Shipped gloveboxes 227-T and HC-7C to PFNW for size reduction.

Demolition Activities

- Continued demolition and waste loadout of 291-Z.
- Completed waste loadout of the 291-Z Stack.
- Began demolition and waste loadout of 234-5ZA.

PTS

- Engineering Services
 - Processed National Fire Protection Association (NFPA) 70 authority having jurisdiction (AHJ) approval package for five Nilfisk portable vacuums with variable speed control.

MAJOR ISSUES

Nothing to report at this time.

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 stoplight chart:																								
No major changes to the monthly stoplight chart in the month of August .																								
Realized Risks (Risks that are currently impacting project cost/schedule)																								
PFP-092-02: Final Facility Characterization Identifies Unexpected Hold-up	Unexpected or late discovery of radiological (Pu) or chemical (asbestos) holdup requiring added facility deactivation. Risk Handling Strategy: Control Probability: Medium (26% to 74%) Worst Case Impacts: \$380K, 24 days	●	↑	<p>Risk Event: Based on characterization data, the amount of asbestos insulated piping to be removed had been estimated since fiscal year 2013 to be approximately 24,000 linear feet. In January, about an additional 10,000 feet of asbestos was discovered, taking the total of asbestos to be removed to about 35,827 feet. No additional asbestos was discovered in August 2017. With August progress, the PFP project has removed 35,827 linear feet of asbestos. All asbestos has been removed from the facility, and this risk will be closed in September.</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: 0.8em;"> <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>Collaborate with safeguards to develop and approve safeguard termination criteria for remnant piping and duct work.</td> <td style="text-align: center;">1/09/17</td> <td style="text-align: center;">Complete</td> <td style="text-align: center;">100</td> </tr> <tr> <td>Collaborate with criticality safety to recognize the reduced removal action necessary for safeguard termination and as feasibly warranted, revise. CSER requirements to achieve a criticality incredible state.</td> <td style="text-align: center;">1/09/17</td> <td style="text-align: center;">Complete</td> <td style="text-align: center;">100</td> </tr> <tr> <td>Work with RL to utilize contingency for about an additional 10,000 feet of asbestos identified during walkdowns and inspections. REA is being developed and will be sent to RL in September 2017</td> <td style="text-align: center;">1/09/17</td> <td style="text-align: center;">11/2/17</td> <td style="text-align: center;">N/A</td> </tr> <tr> <td>Finalize a path forward for stubs and segments.</td> <td style="text-align: center;">4/27/17</td> <td style="text-align: center;">Complete</td> <td style="text-align: center;">100</td> </tr> </tbody> </table> <p>Recovery Assessment: Based on completed inspections, this risk has been realized by additional TSI identified that was not part of the original engineering estimate that was used to develop the RL-011 baseline. Recovery actions focus on managing the need for added asbestos abatement work. Discussions with RL are underway on utilizing contingency funds to strengthen the asbestos abatement work force to complete the added scope of work. With respect to the emerging risk regarding characterization of remnant stubs and piping left for facility demolition, RL formally accepted the proposed safeguards termination criteria. Current accounting of remnants is tracking to achieve criticality incredibility conditions. Final consideration of impacts to air dispersion modeling as well as waste disposition have been evaluated, resulting in finalizing the scope of ductwork in need of removal and that which can remain in place for demolition. While the safeguards, criticality safety, and air dispersion programmatic action has enabled the opportunity to reduce the scope of remaining ongoing facility deactivation work, such relaxation does not come without added rigor. Depending on contamination levels, the project either applies a fixative or continues with planned removal of the itemized list of stubs and segments. Given the potential impact to the 234-5Z demolition schedule, per PRC-MP-PC-40167, this risk remains critical. All asbestos has been removed from the facility, and this risk will be closed in September.</p>	Risk Recovery action(s)	Risk Date	FC Date	%	Collaborate with safeguards to develop and approve safeguard termination criteria for remnant piping and duct work.	1/09/17	Complete	100	Collaborate with criticality safety to recognize the reduced removal action necessary for safeguard termination and as feasibly warranted, revise. CSER requirements to achieve a criticality incredible state.	1/09/17	Complete	100	Work with RL to utilize contingency for about an additional 10,000 feet of asbestos identified during walkdowns and inspections. REA is being developed and will be sent to RL in September 2017	1/09/17	11/2/17	N/A	Finalize a path forward for stubs and segments.	4/27/17	Complete	100
Risk Recovery action(s)	Risk Date	FC Date	%																					
Collaborate with safeguards to develop and approve safeguard termination criteria for remnant piping and duct work.	1/09/17	Complete	100																					
Collaborate with criticality safety to recognize the reduced removal action necessary for safeguard termination and as feasibly warranted, revise. CSER requirements to achieve a criticality incredible state.	1/09/17	Complete	100																					
Work with RL to utilize contingency for about an additional 10,000 feet of asbestos identified during walkdowns and inspections. REA is being developed and will be sent to RL in September 2017	1/09/17	11/2/17	N/A																					
Finalize a path forward for stubs and segments.	4/27/17	Complete	100																					

Risk Title	Unmitigated Risk Impacts	Assessment		Comments								
		Month	Trend									
RL-0011/WBS-011.OA												
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.			<p>Risk Event: This risk was realized during the month of May due to high winds and lightening, limiting demolition activities.</p> <table border="1"> <thead> <tr> <th>Risk Recovery Action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Implement "tropical" shift and OT shifts as necessary to mitigate further impacts associated with weather.</td> <td>Ongoing</td> <td>N/A</td> </tr> </tbody> </table> <p>Recovery Assessment:</p> <p>During the month of August, there were no weather impacts. However, the risk remains critical due to upcoming high-wind and continued high-heat weather having the ability to impact the planned demolition. The PFP project will continue to adjust the daily work scope to plan for projected weather impacts.</p>	Risk Recovery Action(s)	FC Date	%	Implement "tropical" shift and OT shifts as necessary to mitigate further impacts associated with weather.	Ongoing	N/A		
Risk Recovery Action(s)	FC Date	%										
Implement "tropical" shift and OT shifts as necessary to mitigate further impacts associated with weather.	Ongoing	N/A										
PFP-DEMO-16: Contamination Spread Beyond Established Boundaries	Unplanned transport of contamination from posted areas due to dust suppression liquid flow, natural events or wildlife result in cost impacts and schedule delays. Risk Handling Strategy: Accept Probability: Medium (26% to 74%) Worst Case Impacts: \$3 million, 30 days			<p>Risk Event: A Continuous Air Monitoring (CAM) alarm sounded while crews were removing and packaging the third section of GB3 the PRF on Thursday, June 8, 2017. Demolition activities were stopped, and RCTs began surveys in preparation to egress personnel.</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> 1. Add caution to work package direction to not apply a focused beam of water to high materials at risk (MAR) components that have been breached. 2. Evaluate the use of the foggers. 3. Revise or incorporate additional controls into the work package as appropriate. 4. Evaluate the boundaries to incorporate available radiological data. 5. Evaluate the fixative concentration. 6. Incorporate case-by-case consideration when handling items of accessible gram values during adverse weather conditions into the work package. 7. Evaluate the method for determining acceptable wind speed. 8. PFP provides real-time data from the event to Dr. Napier (PNNL) for consideration with future models. </td> <td style="text-align: center;">6/8/17</td> <td style="text-align: center;">11/2/17</td> <td style="text-align: center;">0</td> </tr> </tbody> </table> <p>Recovery Assessment: No change in the month of August. The work package for the remaining activities for the 236-Z demolition work will be revised to incorporate all corrective actions. Corrective actions continue to be evaluated, with implementation forthcoming.</p>	Risk Recovery action(s)	Risk Date	FC Date	%	1. Add caution to work package direction to not apply a focused beam of water to high materials at risk (MAR) components that have been breached. 2. Evaluate the use of the foggers. 3. Revise or incorporate additional controls into the work package as appropriate. 4. Evaluate the boundaries to incorporate available radiological data. 5. Evaluate the fixative concentration. 6. Incorporate case-by-case consideration when handling items of accessible gram values during adverse weather conditions into the work package. 7. Evaluate the method for determining acceptable wind speed. 8. PFP provides real-time data from the event to Dr. Napier (PNNL) for consideration with future models.	6/8/17	11/2/17	0
Risk Recovery action(s)	Risk Date	FC Date	%									
1. Add caution to work package direction to not apply a focused beam of water to high materials at risk (MAR) components that have been breached. 2. Evaluate the use of the foggers. 3. Revise or incorporate additional controls into the work package as appropriate. 4. Evaluate the boundaries to incorporate available radiological data. 5. Evaluate the fixative concentration. 6. Incorporate case-by-case consideration when handling items of accessible gram values during adverse weather conditions into the work package. 7. Evaluate the method for determining acceptable wind speed. 8. PFP provides real-time data from the event to Dr. Napier (PNNL) for consideration with future models.	6/8/17	11/2/17	0									
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)												
FY2017 Risk Triggers (Risk could be realized in FY2017)												
PFP-DEMO-21: Glovebox/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			<p>Risk Trigger: During pre-demolition/demolition activities in fiscal year (FY) 2017.</p> <table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>None identified at this time.</td> <td>N/A</td> <td>N/A</td> </tr> </tbody> </table> <p>Mitigation Assessment: The mitigation strategies have been put in place; as a result, the risk strategy is to accept with no further mitigation actions identified at this time. PFP will continue to adhere to the CHPRC Integrated Safety Management System (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										

Risk Title	Unmitigated Risk Impacts	Assessment		Comments									
		Month	Trend										
RL-0011/WBS-011.OA													
PFP-DEMO-07: Removal/Extraction of Equipment Takes Longer Than Planned	Controlled demolition of equipment, gloveboxes, and portions of the crosscutting 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: \$3 million, 60 days			<p>Risk Trigger: During pre-demolition/demolition activities in FY2017. Dates tracked in the field execution schedule (FES).</p> <table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Identify and pre-rig equipment with lifting slings.</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Initiate discussions early in the demo planning of the equipment being left in place for removal during demolish.</td> <td>Complete</td> <td>100</td> </tr> </tbody> </table> <p>Mitigation Assessment: Efforts have been completed to create a removal path for several of the gloveboxes to meet Criticality Incredibility. The HC-7C and 227T glovebox was slated for removal during demolition but has been removed during pre-demolition as risk mitigation strategy. At this time, no alternative course of actions are needed.</p>	Mitigation action(s)	FC Date	%	Identify and pre-rig equipment with lifting slings.	Complete	100	Initiate discussions early in the demo planning of the equipment being left in place for removal during demolish.	Complete	100
Mitigation action(s)	FC Date	%											
Identify and pre-rig equipment with lifting slings.	Complete	100											
Initiate discussions early in the demo planning of the equipment being left in place for removal during demolish.	Complete	100											
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)													
PFP-DEMO-12: PFP/PRF Demolition Contamination Levels	Contamination levels on the canyon walls, floors, ventilation ducts, and the remaining areas of PFP will be higher than expected, thus requiring more stringent controls than expected or larger than expected waste volumes, resulting in cost impacts, and schedule delays. Risk Handling Strategy: Accept Probability: Medium (26% to 74%) Worst Case Impacts: \$1.5 million, 22 days			<p>Risk Trigger: During pre-demolition/demolition activities in FY2017. Dates tracked in the FES.</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 major changes in the month of August. At the end of January 2017, contamination was discovered outside the HCA/ARA/RA Zone established for demolition of the Plutonium Reclamation Facility (PRF) after a Continuous Air Monitor (CAM) alarm sounded just outside the HCA/ARA/RA during relocation of the debris pile. The alarm resulted in the evaluation of employees from the zone and could have resulted in contamination of PFP personnel. As a result of this event, lessons learned have been incorporated in the future demolition work packages to ensure the suppression misting instructions are stated clearly with no subjective verbiage. In addition, in-process monitoring of the pile/bucket has been incorporated during movement of the debris pile.</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)													
No unassigned risks identified in the month of August .													

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	0.1	3.0	9.7	2.9	2714.4%	(6.7)	-226.6%

Numbers are rounded to the nearest \$0.1 million.

CM Schedule Variance: (+\$2.9M/+2714.4%)

The current month positive schedule variance is primarily the result of working historical budgeted cost of work scheduled (BCWS) on discrete demolition activities (apportioned). The majority of the scope was originally planned to begin during the third quarter of 2016. However, delays in getting 236-Z ready for demolition negatively impacted the start of 236-Z demolition. This is partially offset by performance of behind schedule demolition work scope associated with the demolition of 235-ZA and performing work on an additional 10,000 feet of asbestos identified in the month of December 2016 that was not visible on any plant drawings when the baseline was developed. Demolition of 236-Z and 234-5Z are currently scheduled to complete in November 2017. Because all work is historical, the current schedule variance will be favorable going forward.

CM Cost Variance: (-\$6.7M/-226.6%)

The current month negative cost variance is primarily due to the delay in completion of the PFP Project to achieve slab on grade. The delay is causing needed extensions of hotel load resources, without BCWS, to support the remaining D&D work scope until the facility becomes ready for demolition. Further, working historical BCWS for removal of focus decontamination, hazmat removal, and fixative applications requiring more effort than expected (apportioned). The variance is also attributed to additional insulators brought onto the project to support unplanned asbestos abatement. As delays in ready-for-demo activities have been recognized, continued waste support resources are required to support waste loadout and shipping efforts. The resources are expected to be needed through completion of demolition activities. Unplanned shipments to PFNW for the size reduction of gloveboxes and E4 in 234-5Z caused additional costs to support ready-for-demo activities. Shipping the waste to PFNW helped realize schedule and safety improvements but has resulted in increased size reduction costs. Additional unplanned shipping materials (waste shipping containers such as TL-1800s, SLB2s, IP-1 bags, etc.) were required to support waste loadout activities. In addition, recovery from contamination events during demolition of 236-Z contributed to this variance. Resources supported implementation of corrective actions including expanding the demo boundary and relocation of equipment. Due to contamination found on trailers and vehicles (e.g., trucks, van, JLG Lift Equipment, generators, etc.) within the new demo boundary, the project was forced to purchase the previously leased facilities and vehicles.

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 Performe d	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)	Budget at Completi on (BAC)	Estimate at Completion (EAC)	Estimate to Complete (ETC)	Variance at Completion (VAC)
Total	980.3	953.2	1,054.3	(27.1)	-2.8%	(101.2)	-10.6%	980.5	1,088.0	33.6	(107.5)
Numbers are rounded to the nearest \$0.1 million											

Contract-to-Date (CTD) Schedule Variance (-\$27.1M/-2.8%)

The CTD schedule variance is within threshold.

CTD Cost Variance (-\$101.2M/-10.6%)

The negative CTD cost variance is primarily a result of prior year unrecoverable costs, as well as impacts to the D&D work scope and extending level-of-effort and support services, consistent with delayed activities, in support of completing Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) Milestone M-083-00A. In addition, unplanned costs to support implementation of efficiency initiatives at PFP (i.e., foaming and PremAire Breathing Air), and increased training as a result of assignment of new Health Physics Technicians, and D&D workers (as the result of Hanford Atomic Metal Trades Council lamping process) to PFP have also contributed to this variance. Additional resources to recover schedule for asbestos removal activities and to cover the additional asbestos needing to be removed that was recently identified (about 10,000 feet). Additional unplanned shipping materials (waste shipping containers TL-1800s, SLB2s, IP-1 bags, etc.) were also required to support waste loadout activities for TRU waste disposition efforts. Unplanned shipments to PFNW for the size reduction of 236-Z gloveboxes (MT-4 and 18M) and E4 ducting in 234-5Z have caused additional costs to support ready-for-demo activities also contributing to the unfavorable variance. The negative cost variance is partially offset by utilizing fewer breathing air suits and hoses being used than originally planned for 242-Z entries as a result of fewer fieldwork team members required to perform hands-on work in 242-Z because of the confined space and size of suits (three suits per day vs. five), and recognized efficiencies where crews were able to complete process vacuum removal in 291-Z with less effort than originally planned. Characterization results indicated lower levels of hold-up than planned, which allowed more efficient piping removal. Isolations of the 291-Z facility have also proved to take less time than anticipated due to the main electrical power being cut outside of the building rather than performing individual isolations within the facility. Hazardous material removal and decontamination/fixative applications demonstrated effective with less effort than originally planned using methods proven more efficient (e.g., using powerful fans to assist with vertical fixative flow up the stack).

Variance at Completion (-\$107.5M/-11.0%)

The Variance at Completion (VAC) 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 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. Extended hotel loading costs as a result of delays in demolition-ready and demolition activities caused by issues identified in the CTD schedule variance above are also driving the negative VAC. As a result of wall removals and electrical isolations, it was discovered that approximately 10,000 feet of additional asbestos was between the walls that would need to be removed. This is a recognized risk (PFP-092-02) and has been incorporated into the VAC. Of note, CHPRC is working with RL to utilize contingency for the additional 10,000 feet of asbestos identified during walkdowns and inspections, impacts from the criticality alarm, and relief from the 30 days of weather

delays experienced from December 2016 through March 2017. Finally, increased utilization of overtime is being used to ready the 234-5Z facility for demolition by August 2017. This unfavorable variance is partially offset by recognized efficiencies due to characterization data in the 234-5Z duct level allowing piping and ducting to be left in place for demolition and the 291-Z demolition activities. The variance at completion is reflective of PFP's current projected date to reach slab on grade no later than November 2, 2017.

Contract Performance Report Formats are provided in Appendix A.

FUNDS vs. SPEND FORECAST (\$M)

WBS 011/RL-0011 Nuclear Matl Stab & Disp PFP	FY2017		
	Projected Funding	Spending Forecast	Variance
Spending Forecast	134.5	127.0	7.6
Incremental Scope Pending Change Management	0.0	0.0	0.0
RL-0011 - Total	134.5	127.0	7.6

Numbers are rounded to the nearest \$0.1 million

Funds/Variance Analysis

Fiscal year (FY) 2017 expected funding for the project breakdown structure (PBS) RL-0011 remained at \$134.5 million. The FY spend forecast (FYSF) for August decreased to \$127.0 million. The funds in this control point for estimate to complete (ETC) for regular scope are adequate to support current work. Recognized efficiencies will be necessary to support slab removal if RL direction to perform this work is received.

Critical Path Schedule

The PFP Critical Path schedule begins with the continuation of demolition on the 234-5ZA facility. Once demolition of 234-5ZA is complete, A-Labs is the first section of 234-5Z to be demolished. After A-Labs is complete, demolition of Backside Rooms/Plutonium Process Support Laboratories (PPSL) will begin, which then moves to Front Side Demolition. The demolition of A-Labs also drives demolition of the 236-Z canyon. 236-Z canyon demolition will run in parallel with the remainder of 234-5Z demolition. The 236-Z canyon demolition completes on November 2, 2017, meeting the requirements for the Tri-Party Agreement Milestone – M-083-00A – *PFP Facility Transition and Selection Disposition Activities*. Completion of demolition is followed by site stabilization and demobilization, turnover to surveillance and maintenance, and project closeout activities.

MILESTONE STATUS

Tri-Party Agreement milestones represent significant events in project execution. RL Enforceable Agreement milestones were established to provide high-level visibility to critical deliverables and specific status on the accomplishment of these key events. The performance measurement baseline (PMB) annual update, implemented in September 2013, and subsequently approved Baseline Change Requests (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		11/02/17	During the month of August, the PFP project lost 34 days associated with the impacts from a stop work associated with recovery actions on the June PRF contamination event (15 days specifically associated with RL-0011.C2 - Demolition of PFP Facilities). These events impacted the forecasted completion date as identified in the July month end forecast completion date of the Tri-Party Agreement milestone for the PFP Project to reach slab-on-grade. As the PFP Project continues to make progress on the behind schedule critical path work scope being performed, it is expected that efficiencies will be recognized, evaluated, and implemented to recover some schedule delays.

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

Contract Section	Project	GFS/I	Status
CONTRACT			
J.12/C.2.2, C.2.3	PBS RL-0011, Plutonium Finishing Plant Closure Project	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 Transportation Safety Document (TSD) requirements.	Ongoing

DOE ACTIONS / DECISIONS

None 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

August 2017
CHPRC-2017-08, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

M. A. Wright
Vice President for
Project Technical
Services

PROJECT SUMMARY

Receipt of increments of Sludge Transport and Storage Container (STSC) Assemblies is progressing as planned and the final STSC assemblies are forecast to be received on August 21, 2017 (PM-12-1-17).

The K Basin Pre-operational Acceptance Testing (KPAT), which commenced on April 20, 2017, continued through August. Testing fieldwork is approximately 74 percent complete and forecast to complete October 24, 2017, with turnover to operations forecast for November 1, 2017.

The 105KW Basin Final Safety Analysis Report (FSAR) and Technical Safety Requirements (TSR) revision required to support integrated KPAT testing, was approved on June 30, 2017. Implementation of the 105KW Basin FSAR and TSR revision to support integrated KPAT testing was completed on August 17, 2017.

CHPRC personnel completed incorporating all RL Safety Basis Review Team (SBRT) comments, and the final versions of the 105KW Facility Documented Safety Analysis (DSA) and TSR are forecasted to be transmitted for RL approval via letter CHPRC-1700081A R6 on August 24, 2017. The current forecast date for receiving a Safety Evaluation Report (SER) from RL is September 1, 2017. Approval of the 105KW Facility Documented Safety Analysis (DSA) and TSR precedes finalization of Sludge Removal Project (SRP) training material/procedures, and completion of readiness preparation activities prior to the Operational Readiness Reviews (ORRs) authorizing full-up Engineered Container Retrieval and Transfer System (ECRTS) Operation.

Based upon discussions between RL and CHPRC senior management, the Sludge Treatment Project (STP) team has modified the field execution schedule (FES) to implement acceleration opportunities, which could facilitate the transfer of all sludge to T Plant in fiscal year (FY) 2018. On March 27, 2017, CHPRC formally submitted letter CHPRC-1701045 R1 - *Contract Number DE-AC06-08RL14788 – Change Proposal CP 012 PRC 1646, Revision 0, Sludge Removal Project Acceleration of 105K and T Plant* for RL approval. In order to meet the accelerated schedule, support from CHPRC and RL is required for the following assumptions:

- Significant overtime/weekend work is required to reduce the schedule duration (overtime/weekend work expected to continue through ORR).
- Approval of the integrated 105KW DSA must not affect the project's critical path. This integrated DSA/TSR includes as-built information from installation activities, and therefore, a subsequent "as-built" DSA/TSR submittal is not required (DSA/TSR became project critical path on July 1, 2017, and will delay the start of implementation activities until it is approved on September 1, 2017).
- SRP CD-4 approval must occur concurrently with commencing sludge retrieval operations (this is being worked through RL).
- Approval of the T Plant safety documentation must be completed within 120 days of submittal (approved July 31, 2017).

To demonstrate the current forecast date of the Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) M-016-175, *Begin Sludge Removal From 105-KW Fuel Storage Basin*, the milestone has been disconnected from the risk analysis schedule margin. The current non-risk adjusted forecast date to begin sludge removal is March 16, 2018. However, the project is evaluating recovery methods to initiate sludge removal in February 2018.

The effort to retrieve and containerize the sludge pile in the KW Basin Center Bay discovered during debris mapping continued. Work is forecast to be completed prior to the start of sludge retrieval (Tri-Party Agreement M-016-175).

Project breakdown structure (PBS) RL-0012 scope is 93.1 percent complete, with a cumulative Schedule Performance Index (SPI) of 1.00 and a Schedule Cost Performance Index (CPI) of 1.05.

EMS OBJECTIVES AND TARGET STATUS

None currently identified.

TARGET ZERO PERFORMANCE

(Reported on a calendar month basis.)

	CM Quantity	Rolling 12 Month	Comment
Dart Injuries	0	1	N/A
Recordable Injuries	0	0	N/A
First Aids	1	16	<ul style="list-style-type: none"> Employee felt bite/sting on right wrist while watching work crew at 100K. Noticed swelling half hour later. Called and made notifications to management went to HPMC for evaluation. Returned to work without restrictions. (24599)
Near Misses	0	0	N/A

KEY ACCOMPLISHMENTS

100K Operations

- The 100K Operations group continued maintaining facilities in a safe and compliant condition. Crews continued debris dose mapping, relocation activities in 105KW Basin, and performance of several monthly and quarterly routines during the period.

KW Basin Sludge Removal Capital Asset Project

- KPAT
 - KPAT testing, which was initiated on April 20, 2017, continued as scheduled. A substantial number of component level and system leak tests were completed. As of August month end, the test is approximately 74 percent complete. The integrated test, which consists of connecting the ECRTS equipment in 105KW to the equipment in the KW Annex and running water through the system, is forecast to start on September 19, 2017.
 - The KPAT team completed ventilation system software testing following upgrades to resolve system operating anomalies.
 - Conducted a Hazard Review Board (HRB) Session for the Integrated KPAT Work Instructions and received their approval of the Work Change Notice (WCN).
- 17-NSD-0034_RL/Contract Number DE-AC06-08RL14788 - Approval of the One-Time Request for Shipment (OTRS) for Sludge Transport from K West Basin to T Plant, CHPRC-03111, Revision 0 was

approved on July 21, 2017, and was transmitted to CHPRC on July 24, 2017. CHPRC Transportation Safety personnel can now focus on finalizing the OTRS formal implementation activities.

- ECRTS Procurement: Installation of Sludge Transport & Storage Container (STSC) Instrumentation & Appurtenances continued through the fiscal month. As of August month-end, the project had received 10 of 12 STSC assemblies with the final two assemblies scheduled for receipt on August 21, 2017.
- American Boiler Works (ABW) will complete fabrication of the final 11 STSC shells by September 30, 2017. Once the final 11 STSC shells are fabricated, they will be transported to HiLine for installation of associated instrumentation and appurtenances.
- Development of the Operations and Maintenance Procedures supporting sludge removal and packaging operations continues in parallel with approval of safety documentation. As of August month end, 61 of 100 procedures were drafted.

T Plant Preparations

- Responsible managers are working to complete the Readiness Self-Assessments (RSAs). The Readiness Coordinator continues working with responsible managers on affidavits.
- Completed Operational Test Procedures.
- Training and Procedures
 - GAP training for Safety Basis has been developed and provided to T Plant personnel.
- Developing second route of entry inside T Plant Complex for STSC. Grading and graveling existing road.
- T Plant MDSA/TSR Revision 12
 - The Solid Waste Operations Complex (SWOC) MDSA/TSR SER was approved by RL on July 31, 2017. The MDSA/TSR/SER implementation activities are in progress and are forecast to complete on November 28, 2017.

MAJOR ISSUES

Sludge Removal Project

Issue:

The schedule for receipt and implementation of the integrated DSA/TSR for Sludge Removal Operations is impacting the SRP critical path.

Corrective Action:

CHPRC updated the DSA/TSR to incorporate RL comments and retransmitted the document sent to RL for approval. Approval of these documents precedes preparation of SRP training material, procedures, formal safety basis implementation, and completion of readiness preparation activities prior to the ORR authorizing full-up ECRTS operation.

Status:

CHPRC personnel updated the Integrated DSA/TSR to incorporate comments provided by the RL SBRT and re-transmittal of the updated files to RL is forecast for August 24, 2017, via CHPRC-1700081A R6 – *Resubmittal of the 105KW Facility Documented Safety Analysis, PRC-STP-00946, Revision 0 and the 105KW Facility Technical Safety Requirements, PRC-STP-00992, Revision 0*. The current forecast for RL approval is September 1, 2017.

On March 27, 2017, CHPRC formally submitted letter CHPRC-1701045 R1 - *Contract Number DE-AC06-08RL14788 – Change Proposal CP 012 PRC 1646, Revision 0, Sludge Removal Project*

Acceleration of 105KW and T Plant for RL approval. In order to meet the accelerated schedule, support from RL was required for the following assumption:

- Approval of the integrated 105KW DSA must not affect the project’s critical path.

The DSA/TSR became project critical path on July 1, 2017, and has subsequently delayed the start of DSA/TSR implementation activities. Once a Safety Evaluation Report (SER) approving the DSA/TSR is received by CHPRC, project personnel will assess the impact to the acceleration proposal and update the projected sludge removal execution schedule as appropriate.

RISK MANAGEMENT STATUS

<p>Unassigned Risk ●</p> <p>Risk Passed ●</p> <p>New Risk ●</p> <p>Change ●</p>	<p>● Opportunity currently realized, or mitigation efforts are currently working toward, or after risk trigger with no foreseeable impacts.</p> <p>● Mitigation efforts are currently working toward risk trigger with the possibility of actions not in place prior to risk occurrence. Recovery actions may be needed.</p> <p>● Risk currently realized, or risk mitigation efforts are past risk trigger date with foreseeable impacts. Recovery actions needed.</p>	<p>↑ Increased Confidence</p> <p>↔ No Change</p> <p>↓ Decreased Confidence</p>
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Unmitigated Risk Impacts	Assessment		Comments																				
	Month	Trend																					
RL-0012/WBS-012																							
Explanation of major changes to the project monthly stoplight chart: STP-072 was removed from the stoplight chart in the month of August.																							
Realized Risks (Risks that are currently impacting project cost/schedule)																							
STP-067A Safety Classification of SSCs - DSA/TSR	RL requires CHPRC to upgrade the safety classification of systems, structures, and/or components to a more conservative safety classification, requiring CHPRC to revise key safety documentation (DSA and TSR), procedures, and/or design(s). Upon submittal of revised DSA/TSR, procedures, and/or design(s), RL approval takes longer than the assumptions planned for in the baseline. Risk Handling Strategy: Accept Probability: Very Likely (>90%) Worst Case Impacts: \$300K, 120 days	●	↑																				
Risk Event: CHPRC sent the DSA and TSR to RL for review and approval on October 20, 2016, in letter CHPRC-1604692. RL rejected this submittal via correspondence 1700081A/17-NSD-0006. CHPRC resubmitted the DSA/TSR via CHPRC-1700081A R3 on April 12, 2017. The original project baseline included 120 calendar days for RL to approve the safety basis document; however, it has now been 304 days (as of August 20, 2017) since the original submittal, with formal approval forecasted for September 1, 2017.																							
<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>Solicit senior RL & CHPRC involvement in resolving deficiencies.</td> <td>1/28/17</td> <td>As Needed</td> <td>N/A</td> </tr> <tr> <td>Conduct interface meetings between RL SBRT and CHPRC Nuclear Safety personnel to negotiate a product that is acceptable to RL.</td> <td>1/28/17</td> <td>As Required</td> <td>55</td> </tr> <tr> <td>CHPRC to appoint an independent facilitator to assist in resolution of RL comments.</td> <td>1/28/17</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Prepare a change order to obtain Management Reserve for realized risk.</td> <td>1/28/17</td> <td>Complete</td> <td>100</td> </tr> </tbody> </table>				Risk recovery action(s)	Risk Date	FC Date	%	Solicit senior RL & CHPRC involvement in resolving deficiencies.	1/28/17	As Needed	N/A	Conduct interface meetings between RL SBRT and CHPRC Nuclear Safety personnel to negotiate a product that is acceptable to RL.	1/28/17	As Required	55	CHPRC to appoint an independent facilitator to assist in resolution of RL comments.	1/28/17	Complete	100	Prepare a change order to obtain Management Reserve for realized risk.	1/28/17	Complete	100
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Prepare a change order to obtain Management Reserve for realized risk.	1/28/17	Complete	100																				
Recovery Action Assessment: RL and CHPRC senior management have met multiple times in an attempt to resolve differences on the DSA/TSR submittal. All DSA/TSR comments from the initial submittal were dispositioned as of February 17, 2017. CHPRC resubmitted an updated version of the DSA/TSR incorporating RL comments on April 12, 2017. Obtaining RL concurrence on comments against the second submittal is complete and a clean copy was formally submitted on August 24, 2017. The current forecast for receiving a SER approving the DSA/TSR is September 1, 2017. Once CHPRC has received the SER and confirmed no changes to assumed safety classification is needed, this risk may be closed. This risk is now closed and will be removed from the stoplight chart in September.																							
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)																							
No critical risks identified in the month of August.																							
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)																							
FY2017 Risk Triggers (Risk could be realized in FY2017)																							

Unmitigated Risk Impacts	Assessment		Comments															
	Month	Trend																
RL-0012/WBS-012																		
<p>STP-103: K Basin Pre-Operational Acceptance Testing (KPAT) & ECRTS Startup</p> <p>The ECRTS 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 because 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%) Worst Case Impacts: \$4.5 million, 90 days</p>	●	↔	<p>Risk Trigger: 1) The ECRTS 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>Develop and refine procedures based upon feedback from testing and operations personnel.</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Develop streamline strategy (work packages and procedures) to perform in-basin/annex integrated testing and troubleshooting.</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Use 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 major changes in the month of August. KPAT Testing is in progress. No significant equipment failures as of August 20, 2017.</p>	Mitigation action(s)	FC Date	%	Develop and refine procedures based upon feedback from testing and operations personnel.	Complete	100	Develop streamline strategy (work packages and procedures) to perform in-basin/annex integrated testing and troubleshooting.	Complete	100	Use 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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Closely monitor employee satisfaction and consider employee incentive to retain key test personnel.	As Needed	N/A																
<p>STP-018-O: STP Operational Upset or Spill - During first STSC</p> <p>An operational upset or spill results in a work shutdown at K Basin, resulting in schedule delays.</p> <p>Risk Handling Strategy: Control</p> <p>Probability: Low (10% to 25 %) Worst Case Impacts: \$2 million, 48 days</p>	●	↔	<p>FY2018 Risk Triggers: 1) An operational upset or spill results in work shutdown at K Basin. This risk will commence in FY2018 and continue throughout the project lifecycle until the 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 major changes in the month of August. Forecasted mitigation dates are consistent with the 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						
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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																
<p>STP-073-C: Processing Efficiency - Retrieval & Shipping</p> <p>The realized processing efficiency associated with sludge retrieval and shipping operations does not match the baseline plan.</p> <p>Risk Handling Strategy: Accept</p> <p>Probability: Low (10% to 25%) Worst Case Impacts: \$0K, 48 days</p>	●	↔	<p>FY2018 Risk Triggers: 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 major changes in the month of August. 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 future and no alternative course of actions are 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)																		
<p>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 submitted letter CHPRC-1602146 R1 on August 30, 2016, in response to RL's rejection letter. On March 14, 2017, CHPRC received Correspondence No. 1701045 providing direction to accelerate the capital portion of the SRP. The risks listed, however, are for the non-capital scope. If contract direction is given to accommodate the acceleration opportunities to the SRP non-capital scope and the transfer of all sludge to T Plant is incorporated into FY2018, then CHPRC would re-assume ownership of these risks once change is definitized. As part of the SRP acceleration, risks were re-evaluated and used as the basis for the risk analysis.</p>																		

PROJECT BASELINE PERFORMANCE

Current Month

(\$M)

RL-0012 Spent Nuclear Fuel Stabilization and Disposition	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)
Total	5.3	5.0	4.0	(0.3)	-5.6%	1.0	19.7%

Numbers are rounded to the nearest \$0.1 million

CM Schedule Performance (-\$0.3M/-5.6%)

The variance is within reporting thresholds.

CM Cost Performance (+1.0M/+19.7%)

The current month positive cost variance is due to the completion of level-of-effort activities with fewer personnel than planned. Personnel are supporting PUREX, 300-296, and various other CHPRC projects. All work is being accomplished with available resources. In addition, accruals for contractor support to KPAT installation were overstated in prior months and adjusted in August.

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)	Estimate to Complete (ETC)	Variance at Completion (VAC)
Total	691.9	689.9	657.2	(2.0)	-0.3%	32.7	4.7%	740.7	704.5	47.3	36.3

Numbers are rounded to the nearest \$0.1 million

CTD Schedule Performance (-\$2.0M/-0.3%)

The variance is within reporting thresholds.

CTD Cost Performance (+\$32.7M/+4.7%)

The variance is within reporting thresholds.

Variance at Completion (+\$36.3M/+4.9%)

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	FY2017		Variance
	Projected Funding	Spending Forecast	
Expense - Spending Forecast	32.4	31.0	1.3
Incremental Scope Pending Change Management	0.0	0.3	(0.3)
Expense - Subtotal	32.4	31.3	1.1
Line Item (LI)	65.0	38.2	26.8
Incremental Scope Pending Change Management	0.0	0.3	(0.3)
LI -Subtotal	65.0	38.4	26.6
RL-0012 – Total	97.4	69.7	27.7

Numbers are rounded to the nearest \$0.1 million.

Funds/Variance Analysis

FY2017 projected funding for PBS RL-0012 is \$97.4 million. Positive variance of \$1.1 million in expense funding is the result of reclassification of Garnet Filter Media Removal and Sand Filter Media Removal scopes from PBS RL-0012 to PBS RL-0041, savings forecast for sample maintenance from Pacific Northwest National Laboratory (PNNL), and savings forecast for project management scope – work is being performed with reduced staff. Positive variance in LI for FY2017 is due to receipt of entire LI funding in the current year. Unused funding will be carried over to support work planned for FY2018.

Critical Path Schedule

The critical path is being driven by receipt of the SER for the integrated DSA/TSR (forecast to be received September 1, 2017), including implementation of these safety requirements into 100K operation and maintenance procedures. Following a successful Contractor and DOE ORR, RL will provide Authorization to Commence Retrieval Operations in parallel with the DOE-HQ review/approval of CD-4. Completing retrieval operations, including the filling of STSCs with sludge and transporting them to T Plant, to complete Tri-Party Agreement Milestone M-016-176, *Complete Sludge Removal from 105-KW Fuels Storage Basin*, is outside the current contract period in FY2019. However, the STP team has modified the FES to implement acceleration opportunities, which could facilitate the transfer of all sludge to T Plant in FY2018.

MILESTONE STATUS

Tri-Party Agreement milestones represent significant events in project execution. RL 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 subsequently approved Baseline Change Request (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		3/16/2018	The forecast date does not include schedule margin from the project's risk analysis. The forecast date does not reflect potential impacts from the delay in approval of safety documentation, which is forecasted to be approved in early September. The project is reviewing recovery options to initiate sludge removal by February 2018.
M-016-177	Complete installation of sludge transfer equipment in KW Reactor facilities	9/30/2017		4/20/2017(A)	Complete

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.

DOE ACTIONS / DECISIONS

Description	CHPRC Delivery Date	Expected RL Due Date
RL Review & Comment on Emergency Planning Hazard Assessment (EPHA)	5/22/17(A)	9/22/17
RL Issue SER for KW Facility DSA/TSR	4/11/17(A)	9/01/17
RL Concur on KW Facility DSA/TSR Comment Resolution	4/11/17(A)	7/26/17(A)
RL Prepare KW Facility DSA/TSR SER	4/11/17(A)	8/29/17
RL SRB Review of KW Facility DSA/TSR	4/11/17(A)	8/29/17
RL Final Approval of POA - K Basins	9/11/17	9/24/17
RL Approve OTRS	6/01/17(A)	7/24/17(A)
RL Approve IKPAT SNR	8/14/17	8/22/17

Section C

Solid Waste Stabilization and Disposition (RL-0013)



C. J. Simiele
Vice President for
Waste and Fuels
Management Project

August 2017
CHPRC-2017-08, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

M. A. Wright
Vice President for
Project Technical
Services

PROJECT SUMMARY

During the August reporting period, July 24 - August 20, 2017, Waste and Fuels Management Project (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.

This month:

- Management of Cesium and Strontium Capsule (MCSC) Project (W-135) comment dispositions were completed and are being incorporated in the Conceptual Design Report (CDR). Subcontract Task 2 has been released to NAC International for initiation of the preliminary design for the Cask Storage System. The Conceptual Safety Design Report for the Capsule Storage Area (CSA) was transmitted to DOE Richland Operations Office (RL) on August 14, 2017. Design documents were approved and transmitted to procurement supporting issuance of the request for proposal (RFP) for the CSA and Waste Encapsulation and Storage Facility (WESF) modifications.
- The project completed Operational Test Procedures (OTP) for sludge systems as well as the Automated Job Hazard Analysis (AJHA) for both sludge receipt and the new 90-day accumulation area procedures.
- The Alternative Evaluation fulfilling Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) Milestone M-091-52 is approved and currently in information clearance process.

EMS Objectives and Target Status

Objective #	Objective	Target	Due Date	Status
17-EMS-WFMP-OB1-T1	Implement the requirement to provide a “full printed name” in CHPRC Waste & Fuels controlled Resource Conservation and Recovery Act of 1976 (RCRA) inspection work packages and procedures.	<ul style="list-style-type: none"> • Review W&FMP inspection procedures, checklists, and work packages/PMs, which implement RCRA inspection criteria for direction to use the full printed name. • Initiate modifications to necessary procedures, checklists, and work packages/PMs, which implement RCRA inspection criteria to include the full printed name. 	5/31/17 9/28/17	75%
17-EMS-WFMP-OB2-T1	Implement 40 CFR 265 regulatory requirements identified by the Compliance Matrix for T Plant and Central Waste Complex at the project level.	<ul style="list-style-type: none"> • Review the applicable 40 CFR 265 requirements to verify the implementing mechanisms and methods, and to identify compliance gaps. • Resolve identified gaps by initiating modifications to procedures into the PPS system. 	5/31/17 9/30/17	92%
17-EMS-WFMP-OB3-T1	Ensure W&FMP procedure inspection forms, checklists, and work packages, which implement RCRA inspection requirements, are capturing the RCRA inspection requirements and are appropriately located in the facility operating record.	<ul style="list-style-type: none"> • Review all inspection procedures, checklists, and work packages to identify, which are used to meet RCRA inspection requirements. • Initiate updates into PPS and/or JCS systems to ensure RCRA inspection requirements are met and documentation is appropriately placed into the facility operating record. 	5/31/17 9/30/17	75%

TARGET ZERO PERFORMANCE

(Reported on a calendar month basis.)

	CM Quantity	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	3	
Total Recordable Injuries	0	2	
First Aid Cases	1	*26	8/21/2017 – Employee was walking on a sidewalk that slightly bends, and the employee’s foot stepped on the edge and their ankle rolled. Employee fell into the gravel next to the sidewalk. Employee tried to catch self, which resulted in minor scrapes to the palm of right hand, a large scrape contusion to the left knee, and cuts to the upper lip, chin, and tip of the nose. Employee was evaluated at HPMC and returned to work without restrictions. (24589) *Two First Aid cases; PTS in support of RL-0013.
Near Misses	0	0	N/A

KEY ACCOMPLISHMENTS

13.01 Project Management

- o Performed/Completed:
 - Punch list items for the detailed planning for fiscal year (FY) 2018 Estimate to Complete (ETC) as well as FY2019-FY2022 Long Range Planning (LRP).

13.02 Capsule Storage & Disposition

- o Performed/Completed:
 - Decontaminated and surveyed F Cell manipulators.
- o Surveillances/Preventive Maintenance (PM):
 - 51 PM packages.

13.03 Canister Storage Building (CSB)

- o Surveillances/PMs:
 - 22 PM packages.

13.06 Transuranic (TRU) Repackaging

- o Performed/Completed:
- o M-091-52
 - The Alternative Evaluation Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) Milestone M-091-52 approved and currently in information clearance process.
 - Proposed Tri-Party Agreement Change Control form finalized for transmittal to RL.

- o Repackaging:
 - One shipment of M-091 Legacy TRUM waste was made to Perma-Fix Northwest (PFNW) from Central Waste Complex (CWC) consisting of an 11.0 cubic meter (m³) Fiberglass Reinforced Package (FRP).
 - One return shipment of size reduced – repackaged M-091 Legacy TRUM waste was received into the CWC from PFNW contributing 54.4 m³ toward M-091-47D.

13.07 Waste Receiving and Processing (WRAP)

- o Surveillances/PMs:
 - 113 surveillances.
 - 15 PM packages.

13.08 T Plant

- o Performed/Completed:
 - Two facility tours.
- o Surveillances/PMs:
 - 391 surveillances.
 - 26 PM packages.
- o Shipments shipped:
 - One five-gallon drum from T Plant to PFNW in one shipment.

Sludge Receipt

- o Performed/Completed:
 - Approved Safety Evaluation Report from RL for Master Documented Safety Analysis Revision 12.
 - AJHAs for sludge receipt procedures.
 - AJHAs for new 90-day Pad Procedures.
 - Operational Test Procedures for sludge system.

13.09 Central Waste Complex (CWC) and Low-level burial ground (LLBG)

- o Surveillances/PMs:
 - 360 surveillances.
 - 26 PM packages.
- o Shipments received:
 - Three Standard Large Box 2 (SLB2), seven waste drums, and eight standard waste boxes (SWBs) from the Plutonium Finishing Plant to CWC in six shipments.
 - Eight SWBs from PFNW into CWC in four shipments.
 - One drum from 222S Labs into CWC in one shipment.
 - Five waste boxes from Pacific Northwest National Laboratory (PNNL) into CWC in one shipment.

13.12 Integrated Disposal Facility (IDF)

- o Performed/Completed:
 - Initiation of a mock waste acceptance process for receipt of immobilized low-activity glass waste at IDF.
 - Initiation of the Fire Hazard Analysis (FHA).

13.15 TRU Disposition

- o Performed/Completed:
 - Central Characterization Project (CCP) Interface Document approved by Carlsbad Field Office (CBFO).
 - Addressing comments on the Solid Waste Operations Complex Acceptance Criteria incorporating Waste Isolation Pilot Plant (WIPP) Waste Acceptance Criteria (WAC) Revision 8 requirements.

13.16 Offsite Spent Nuclear Fuel Disposition

- o Maintained coordination for offsite Spent Nuclear Fuel Disposition.

13.21 Mixed Waste Disposal Trenches (MWT)

- o Surveillances/PMs:
 - 134 surveillances.
- o Shipments received:
 - 12 waste boxes from PFNW to MWT in four shipments.

13.24 Management of Cesium and Strontium Capsules Project

- o Performed/Completed:
 - WESF Modifications and Capsule Storage Area Conceptual Design – Design documents were approved and transmitted to procurement in support of issuing the RFP for the detailed design for CSA and WESF modifications.
 - Project Management – The Conceptual Safety Design Report for the CSA was transmitted to RL.

13.25 Capsules Interim Storage Operations

- o Performed/Completed:
 - Cask Storage System Design – Comment dispositions were completed and are being incorporated into the CDR. Task 2 was released to NAC International to initiate the preliminary design.

Project Technical Services (PTS) Support**Project Delivery****CWC Roof Repairs**

- o Performed/Completed:
 - Roof and gutter repairs on 2403-WC.
 - Commenced repairs to 2403-WD.

MAJOR ISSUES

Issue:

The Washington Department of Ecology has requested that RL prepare an Environmental Assessment (EA) to address State Environmental Policy Act of 1971 (SEPA) requirements for W-135 (WESF facility modifications, construction of the capsule interim storage facility, and transfer of the capsules). RL believes the SEPA requirements can be addressed through a ROD amendment.

Corrective Action:

Coordinate with RL, DOE Office of River Protection, and Ecology to agree on the required document changes and schedule to provide needed SEPA coverage.

Status:

RL provided a justification to Ecology for why an EA is not needed on July 10, 2017.

Issue:

Ecology has indicated that they may require the CSA 90 percent design package prior to issuing the permit for public comment.

Corrective Action:

Work with Ecology to provide 30 percent design (as previously agreed in the permitting plan).

Status:

RL met with Ecology on June 22, 2017, and requested additional information regarding the need for the more detailed design. The project continues to await a response.

Issue:

Ecology issued findings in inspection reports for the LLBG Trenches 31-34 and CWC regarding major risk labeling. The findings direct RL and CHPRC to label the containers with the major risks of the dangerous waste contents. CHPRC uses the U.S. Department of Transportation (DOT) hazard class labeling system (which includes the use of radiological labels) to comply with the regulatory requirement.

Corrective Action:

Work with RL to obtain agreement from Ecology that CHPRC may use the DOT hazard class labeling system, as this complies with the regulatory requirement for a “system in use that performs the function in accordance with local, state, or federal regulations.”

Status:

CHPRC and RL met with Ecology inspectors regarding this item, and the parties agreed to elevate the issue to management for resolution. The project continues to await direction from RL.

Issue:

The delayed approval of Master Documented Safety Analysis (MDSA) Revision 12 has impacted T Plant’s ability to complete Readiness Assessment activities in preparation for accelerated receipt of sludge.

Corrective Action:

CHPRC reviewed the approved Safety Evaluation Report (SER) for MDSA Revision 12 on July 31, 2017. Readiness Assessment and MDSA implementation activities will be performed in parallel to attempt to mitigate schedule impacts.

Status:

Original comments were significant. Comment resolution included re-analysis of numerous accidents contained in the MDSA. Implementation is required prior to declaration of readiness at T Plant. The project received the SER on July 31, 2017, with an implementation period of 120 days, putting completion on November 28, 2017. The Readiness Assessment will then commence. This will no longer be reported as a major issue and will be removed from future reports.

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 WIPP. The 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; overpacking drums). Streamlining and consolidating existing container management procedures. RL authorized the acceleration of FY2018 TRU commercial repackaging, allowing shipments to PFNW for repackaging to resume.

Issue:

Mission Support Alliance, LLC (MSA) Cross-Connection Control Program performed a Health Hazard Level Re-Evaluation following the guidance listed in Washington Administrative Code (WAC) 246-290-490 and internal MSA Cross-Connection Control procedures. As a result, 225-B (WESF) Health Hazard Level was changed from high to severe, requiring service connections to have cross-connection installed.

Corrective Action:

The WAC requires the corrective action to be accomplished “within 90 days of the purveyor notifying the consumer ...” or, “In accordance with an alternate schedule acceptable to the purveyor.” MSA has worked with affected facilities and RL to develop corrective actions that minimize impacts to ongoing cleanup milestones.

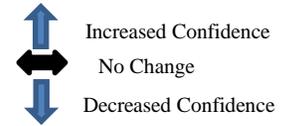
Status:

RL provided direction to MSA to remedy the majority of the issue with a modification at the source by MSA versus modifications at each facility. Description and preliminary schedule for WESF potable water facility modifications required, unless RL approves an alternate (no action) approach transmitted on July 6, 2016 (CHPRC-1602928). A meeting was held with RL on January 12, 2017, to discuss the contractual direction necessary to proceed. The project continues to await RL direction for potable water system facility modifications.

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 stoplight chart: WSD-W135-28 RCRA Permit Requires 90% Design Information for the Capsule Storage Area (CSA) was added to the stoplight chart in the month of August.																		
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 requires additional resources to respond. Risk Handling Strategy: Accept Probability: Likely (75% to 90%) Worst Case Impacts: \$5 million, 0 day	●	↔	Risk Event: In November 2011, degraded containers were discovered in CWC.														
				<table border="1"> <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="3" style="text-align: center;">11/01/11</td> <td>Ongoing</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>Ongoing</td> <td>N/A</td> </tr> <tr> <td>Process waste packages at a rate funded by RL.</td> <td>Ongoing</td> <td>N/A</td> </tr> <tr> <td>Procuring stainless steel 85 gallon over packs for alternative storage of containers showing signs of degradation.</td> <td></td> <td>9/21/17</td> <td>85</td> </tr> </tbody> </table>	Risk recovery action(s)	Risk Date	FC Date	%	Perform daily/weekly waste container surveillances to identify container abnormalities.	11/01/11	Ongoing	N/A	Manage a "watch-list" of waste containers that have shown signs of degradation or are associated with degraded containers.	Ongoing	N/A	Process waste packages at a rate funded by RL.	Ongoing	N/A
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Process waste packages at a rate funded by RL.		Ongoing	N/A															
Procuring stainless steel 85 gallon over packs for alternative storage of containers showing signs of degradation.		9/21/17	85															
Recovery Action Assessment: No significant changes in the month of August. Project continued to perform container surveillances in the month of August to identify container and container cover abnormalities. Twenty-four containers in 2404WC had signs of exterior corrosion that were placed on the watch list and are being scheduled for overpack. The delivery of the stainless steel over packs has been delayed to mid-September. The vendor is in the process of conducting the first article testing to meet DOT Type 7A requirements. Once the drums are received, the project is prepared to overpack the twenty-four containers. The project completed overpack and plans to move storage box 75DMA16F3 into 2403WD when work priorities allow. The remaining containers will continue to require surveillance and continued enhanced monitoring.																		

Risk Title	Unmitigated Risk Impacts	Assessment		Comments														
		Month	Trend															
RL-0013/WBS-013																		
WSD-143 Safety Classification of SSCs - MDSA Rev. 12	RL approval of the MDSA Revision 12 takes longer than the negotiated assumption planned in the baseline and/or the safety classification of Systems, Structures, and Components (SSCs) is more conservative than the safety analysis dictates, resulting in cost impacts and schedule delays. Risk Handling Strategy: Accept Probability: Very Likely (>90%) Worst Case Impacts: \$600K, 120 days			Risk Event: On November 28, 2016, CHPRC submitted letter CHPRC-1604566A R1 -MDSA, Revision 12, the TSR Revision 12, the <i>T PLANT FHA</i> , and the SWOC FHA, Revision 6. While the baseline plan assumed that RL would review and approve this submittal within 120 calendar days (or by March 3, 2017), RL senior management had informally agreed to accelerate review/approval of this submittal within 60 days to facilitate moving all 100K sludge from the 105KW basin to T Plant by September 8, 2018. RL transmitted letter 17-NSD-0018_RL to CHPRC on March 30, 2017, providing a 35-page Review Comment Record (RCR), with comments that must be resolved prior to resubmitting the updated MDSA & TSR. The updated MDSA/TSR was submitted to RL on May 18, 2017.														
				<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>Obtain written comments from RL Nuclear Safety Division personnel against the submittal described above.</td> <td rowspan="3" style="text-align: center;">2/19/17</td> <td style="text-align: center;">Complete</td> <td style="text-align: center;">100</td> </tr> <tr> <td>Conduct interface meetings between RL and CHPRC senior management to ensure MDSA approval challenges are discussed and resolved, if possible, prior to any action that delays approval of the MDSA.</td> <td style="text-align: center;">As Needed</td> <td style="text-align: center;">N/A</td> </tr> <tr> <td>Resolve RL NSD Comments (17-NSD-0018_RL) and solicit RL NSD concurrence.</td> <td style="text-align: center;">Complete</td> <td style="text-align: center;">100</td> </tr> </tbody> </table>	Risk recovery action(s)	Risk Date	FC Date	%	Obtain written comments from RL Nuclear Safety Division personnel against the submittal described above.	2/19/17	Complete	100	Conduct interface meetings between RL and CHPRC senior management to ensure MDSA approval challenges are discussed and resolved, if possible, prior to any action that delays approval of the MDSA.	As Needed	N/A	Resolve RL NSD Comments (17-NSD-0018_RL) and solicit RL NSD concurrence.	Complete	100
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Resolve RL NSD Comments (17-NSD-0018_RL) and solicit RL NSD concurrence.	Complete	100																
Prepare analysis on installing seismic cutoff switches in each of the SWOC facilities/buildings., and restricting drum storage to two tiers. Develop strategic plan for vehicle barrier replacement to protect high-MAR containers from vehicle impacts.	10/27/2017	0																
Recovery Action Assessment: CHPRC received the Safety Evaluation Report (SER) 17-NSD-0041_from RL on July 31, 2017, and began implementation of MDSA Revision 12. Preparation of Revision 13 requires addressing all outstanding comments from Revision 12 SER. Accident analysis may have to be revised to include additional controls or SSCs to reduce the unmitigated risk of the accident scenario. The seismic event with fire was added to Revision 12, and as a result, imposed restrictions that prohibits retrieval activities. Further analysis will be submitted to RL addressing action items from the Revision 12 SER as a result of the added seismic event with fire.																		
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)																		
Lifecycle Risk Triggers (Risk could be realized at any point of the project)																		
WSD-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: Medium (26% to 74%) Worst Case Impacts: \$3 million, 96 days			Risk Trigger Metric: During planned facility operation activities, a suspected 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) contract.														
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Mitigation action(s)	FC Date	%																
Identify and procure spare parts for T Plant crane.	Ongoing	N/A																
Mitigation Assessment: No significant changes in the month of August . The project has put into place mitigating strategies (i.e., aggressive S&M activities) to help reduce this risk. The crane is currently operational, however, an adequate spare parts inventory is needed. The project has identified spare parts for the T Plant crane with input from the manufacturer and is in the process of procuring critical spares. The first order for mechanical parts was temporarily delayed due to higher priority work and limited resources during employee absences. All input from project engineering is complete and the orders are with procurement to begin the purchasing process. The project has completed the crane bridge drive bearing repairs discovered during preventive maintenance.																		

Risk Title	Unmitigated Risk Impacts	Assessment		Comments		
		Month	Trend			
RL-0013/WBS-013						
WSD-019: MLLW & TRU Treatment Impacts	Mixed low-level waste (MLLW) and 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: Likely (75% to 90%) Worst Case Impacts: \$2.5 million, 0 day			Risk Trigger Metric: Will continue throughout contract (September 30, 2018).		
				Mitigation action(s)	FC Date	%
				Establish multiple treatment contracts, or obtain additional capability, 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).	Ongoing	N/A
				Continue to work with RL to fund the processing of TRU/M waste at PFNW at a rate that keeps them viable (i.e. keeps the doors open).	Ongoing	N/A
				Evaluate the benefit(s) associated with an increase to the PFNW plutonium (Pu) possession limit. Their current limit is 200 grams of total Pu. Increasing the limit may allow additional quantities of TRUM waste to be shipped to PFNW for processing. This evaluation took place in conjunction with the M-091-52 engineering study.	Complete	100
				Negotiations with RL are ongoing to seek authorization for additional shipments of M-91 Legacy TRUM to PFNW. The additional shipments would meet the objectives for the PFNW minimum optimal processing volume as identified in the Optimization Study provided to RL in December 2016.	Complete	100
Mitigation Assessment: 1) MLLW: Two contracts are in place for offsite commercial waste treatment, which provided sufficient capability/capacity to meet current MLLW treatment needs through the end of the CHPRC contract term. However, one of the contracts was recently restricted due to the closure of a Parma-Fix treatment facility in Tennessee (ME). Additional treatment capability will be needed to meet all anticipated MLLW treatment needs. TRU/M: Only PFNW has current capability to process TRU/M waste. This is due solely to the practical limitations imposed by the need to ship the TRU/M waste via road-closure; therefore, additional commercial providers cannot be obtained. 295 m ³ of Legacy M -91 TRUM waste was authorized by DOE during FY2017, of which 285m ³ has been shipped to date. Along with the oversized TRUM waste item shipments from PFP during FY2017, enough waste has been shipped to PFNW to meet their minimum optimal processing volumes. Additional authorizations will need to be obtained to allow shipment of legacy M-091 TRUM waste to PFNW during FY2018.						
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)						
Lifecycle Risk Triggers (Risk could be realized at any point of the project)						
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: \$55 million, 0 day			Risk Trigger Metric: Will continue throughout project lifecycle (September 30, 2018).		
				Opportunity action(s)	FC Date	%
				Plan work activities and procurements to be as efficient as possible with minimal resources.	Ongoing	N/A
Opportunity Assessment: No changes in the month of August. The project has realized efficiencies of approximately \$79.1 million to date. Future efficiencies are being offset due to discrete project overruns, increased regulatory scrutiny, maintenance lessons learned across the CHPRC DOE Complex, and heightened compliance postures. Also note that the EAC currently contains work identified as changed scope for which contract changes would be issued.						

Risk Title	Unmitigated Risk Impacts	Assessment		Comments									
		Month	Trend										
RL-0013/WBS-013													
WSD-140: As-Found-Unknown Conditions - T Plant	<p>Unknowns, as-found, or emergent conditions impact the operability of the T Plant facility.</p> <p>Risk Handling Strategy: Accept</p> <p>Probability: Very Likely (>90%)</p> <p>Worst Case Impacts: \$990K, 0 days</p>	●	↔	<p>Risk Trigger Metric: This risk has been triggered due to the current condition of 221-T Dock number 2.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Repairs to 221-T Dock number 2 in support of sludge receipt</td> <td>09/30/2017</td> <td>80</td> </tr> <tr> <td>Submittal of a BCR to break out the planning package planned for May.</td> <td>Complete</td> <td>100</td> </tr> </tbody> </table> <p>Mitigation Assessment: Deterioration of the steel decking and steel support structure for 221-T Dock number 2 has required that the dock be taken out of service. A new loading dock is necessary, as one of the Life Safety Code required emergency egress points and to support the receipt of sludge. This dock also provides storage areas for various gas bottles. T Plant completed removal of dock number 2 and poured associated concrete pads. An onsite inspection of the bottle rack and stair fabrication was performed by the project in August. No additional onsite inspections are anticipated.</p>	Mitigation action(s)	FC Date	%	Repairs to 221-T Dock number 2 in support of sludge receipt	09/30/2017	80	Submittal of a BCR to break out the planning package planned for May.	Complete	100
Mitigation action(s)	FC Date	%											
Repairs to 221-T Dock number 2 in support of sludge receipt	09/30/2017	80											
Submittal of a BCR to break out the planning package planned for May.	Complete	100											
FY2017 Risk Triggers (Risk could be realized in FY2017)													
WSD-W135-15: Utilization of 2003 Pre-Conceptual Design	<p>A pre-conceptual design for the dry storage of the capsules was completed in July 2003. If this design cannot be utilized, it will be necessary to initiate and complete a new conceptual design, including a new analysis of alternatives.</p> <p>Risk Handling Strategy: Accept</p> <p>Probability: Very Likely (>90%)</p> <p>Worst Case Impacts: \$5,100K, 0 days</p>	●	↔	<p>Risk Trigger Metric: The 2003 pre-conceptual design for the dry storage of capsules cannot be utilized.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <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 August. The 2003 pre-conceptual design is based on design criteria that is over 13 years old. Design criteria that impacts the ability to utilize the 2003 pre-conceptual design include: location of the Dry Storage Facility, duration of the storage period, Safety Basis Requirements and Environmental Permitting. Continuing to have discussions with RL can clarify impacts of the Safety Basis Requirements and environmental permitting. The risk is being captured for visibility and will remain as part of the key risks until this issue is resolved.</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-W135-16: Content and Approval of Critical Decision Packages	<p>The content of the critical decision packages required by DOE O 413.3B are more extensive than anticipated and require an extensive RL review.</p> <p>Risk Handling Strategy: Accept</p> <p>Probability: Very Likely (>90%)</p> <p>Worst Case Impacts: \$2,000K, 0 days</p>	●	↔	<p>Risk Trigger Metric: The content and review/approval process for the critical decision packages is impacted by DOE O 413.3B.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Prepare joint tailoring strategy with RL on how to meet the DOE O 413.3B requirements</td> <td>Complete</td> <td>100</td> </tr> </tbody> </table> <p>Mitigation Assessment: No changes in the month of August. The pre-conceptual design of the project was based on DOE O 413.3A; the current version is DOE O 413.3B, change 2. New requirements will impact the content of the critical decision packages or impact the duration and extent of the RL review. Working closely with RL on the tailoring strategy to meet the DOE O 413.3B requirements. The risk is being captured for visibility and will remain as part of the key risks until this issue is resolved. No further mitigation actions are necessary at this time.</p>	Mitigation action(s)	FC Date	%	Prepare joint tailoring strategy with RL on how to meet the DOE O 413.3B requirements	Complete	100			
Mitigation action(s)	FC Date	%											
Prepare joint tailoring strategy with RL on how to meet the DOE O 413.3B requirements	Complete	100											
WSD-W135-17: Modifications to WESF	<p>The transfer of the capsules to dry storage will require modifications to the WESF.</p> <p>Risk Handling Strategy: Accept</p> <p>Probability: Very Likely (>90%)</p> <p>Worst Case Impacts: \$7,300K, 0 days</p>	●	↔	<p>Risk Trigger Metric: Modifications to the WESF facility are required for transfer of capsules to dry storage.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <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 August. The approach incorporated into the pre-conceptual design for the transfer of the capsules, required minimal modifications to the WESF. New or updated requirements will require more extensive modifications to the WESF. Before submittal of CD-1, CHPRC will review 30 percent design from subcontractor, which will provide details of WESF modifications. The risk is being captured for visibility and will remain as part of the key risks until this issue is resolved.</p>	Mitigation action(s)	FC Date	%	None identified at this time.	N/A	N/A			
Mitigation action(s)	FC Date	%											
None identified at this time.	N/A	N/A											

Risk Title	Unmitigated Risk Impacts	Assessment		Comments		
		Month	Trend			
RL-0013/WBS-013						
WSD-W135-28: RCRA Permit Requires 90% Design Information for the Capsule Storage Area (CSA)	Ecology may require the 90% design package for the CSA to be completed prior to issuing the permit for public comment. Risk Handling Strategy: Accept Probability: Medium (20% to 74%) Worst Case Impacts: \$1,775K, 360 days			Risk Trigger Metric: Ecology requires the 90% design package for the CSA to be completed prior to issuing the permit for public comment.		
				<table border="1" style="width: 100%;"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>None identified at this time.</td> <td>N/A</td> <td>N/A</td> </tr> </tbody> </table>	Mitigation action(s)	FC Date
Mitigation action(s)	FC Date	%				
None identified at this time.	N/A	N/A				
Mitigation Assessment: CHPRC continues to have regular interfaces with ecology to discuss the issue and are evaluating options should the 90% be required.						
Unassigned Risks (Pending ownership of identified risks/opportunities)						
No unassigned risks identified in the month of August.						

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	9.1	9.8	7.2	0.7	7.5%	2.6	26.2%

Numbers are rounded to the nearest \$0.1 million

CM Schedule Performance (+\$0.7M/+7.5%)

The current month favorable schedule variance is primarily associated with acceleration of FY2018 work scope into FY2017 for Large Box Repackaging.

CM Cost Performance (+\$2.6M/+26.2%)

The current month favorable cost variance is due to the implementation of the M-91-05-01 Not-to-Exceed Change Order 317 into the baseline, which resulted in a point adjustment for BCWS and BCWP of \$2.0 million for work that was completed and costed in a previous period; the remaining positive cost variance is the result of under runs which are due to continued implementation of the majority planned efficiencies.

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

WBS 013/RL-0013 Waste and Fuels Management Project	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Estimate to Complete (ETC)	Variance at Completion (VAC)
Total	1,181.5	1,183.8	1,104.7	2.3	0.2%	79.1	6.7%	1,355.2	1,278.4	173.7	76.8

Numbers are rounded to the nearest \$0.1 million

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

The CTD schedule variance is within threshold.

CTD Cost Performance (+\$79.1M/+6.7%)

The contract-to-date favorable cost variance is due to the continued implementation of the majority planned efficiencies.

Variance at Completion (+\$76.8 M/+5.7%)

The Variance at Completion is associated with the continued implementation of the majority planned efficiencies.

Contract Performance Report Formats are provided in Appendix A

FUNDS vs. SPEND FORECAST (\$M)

WBS 013/RL-0013 Waste and Fuels Management Project	FY2017		Variance
	Projected Funding	Spending Forecast	
Spending Forecast	112.1	96.4	15.7
Incremental Scope Pending Change Management	0.0	0.7	(0.7)
RL-0013 – Total	112.1	97.2	15.0

Numbers are rounded to the nearest \$0.1 million.

Funds/Variance Analysis

The FY2017 projected funding for Project Breakdown Structure (PBS) RL-0013 of \$112.1 million is based on RL funding guidance. The total fiscal year spend forecast (FYSF) of \$97.2 million was decreased by approximately \$.3K from last month as a result of modifying resources during the FY2018 ETC update deliverable.

Critical Path Schedule

Critical Path Analysis can be provided upon request.

MILESTONE STATUS

Tri-Party Agreement milestones represent significant events in project execution. RL Enforceable Agreement milestones were established to provide high-level visibility to critical deliverables and specific status on the accomplishment of these key events. The performance measurement baseline (PMB) annual update, implemented in September 2013, and subsequently 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-091-53	Submit Milestone Change Request to Replace Target Dates for Capabilities to Process TRUM Waste	9/30/18		9/30/18	On schedule
M-091-52	Submit change request with target dates for new/modified capabilities to process TRUM waste.	9/30/17		8/30/17	On schedule
M-091-47D	Certify or Treat 280 Cubic Meters of TRUM/MLLW Waste	9/30/18		9/30/18	On schedule
M-091-03L	Submit Revision of TRUM Waste and MLLW PMP to Ecology.	6/30/18		6/30/18	On schedule
C-026-07L	Tritium Treatment Technology Developments to Ecology and EPA.	3/31/18		2/5/18	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-RL-0011, Plutonium Finishing Plant Closure Project PBS-RL-0013, 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 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-RL-0013, Transuranic Waste Certification	WIPP provides shipping resources and manages the schedule for transportation of these containers to WIPP. The schedule is variable and the number of shipments is controlled by DOE-HQ on a complex-wide priority. Cost for shipment of TRU waste offsite is borne by the CBFO.	No WIPP shipments are planned within the contract period of performance.

DOE ACTIONS / DECISIONS

Description	CHPRC Delivery Date	Expected RL Due Date
RL Review and Approve MDSA and Technical Safety Requirement (TSR) Revision 12 (original submittal)	11/29/16 (A)	05/01/17
RL Review and Approve MDSA and Technical Safety Requirement (TSR) Revision 12 (with RL comments incorporated)	05/18/17 (A)	07/31/17(A)

Section D

Soil and Groundwater Remediation Project (RL-0030)



J. D. Rendall
Vice President and
Project Manager for
Soil and Groundwater
Remediation Project

M. A. Wright
Vice President for
Project Technical
Services

August 2017
CHPRC-2017-08, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

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

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 the current month includes the following:

Treatment Facility	Million Gallons Treated		Chrome (kg)		Carbon Tet (kg)		Tech-99 (pCi)		Uranium (kg)	
	CM	FYTD	CM	FYTD	CM	FYTD	CM	FYTD	CM	FYTD
DX P&T	31.6	364.6	2.2	31.4						
HX P&T	20.4	351.1	1.4	23.5						
KR-4 P&T	9.4	134.9	0.1	1.3						
KW P&T	14.4	57.1	3.3	11.6						
KX P&T	14.4	360.6	0.8	20.5						
200 West P&T	61.1	851.8	5.1	76.7	117.0	1599.0	.3x10 ¹²	2.3x10 ¹²	76.0	304.5
Combined	151.4	2120.0	13.0	165.0	117	1599.0	.3x10¹²	2.3x10¹²	76.0	304.5
FY2017 KPG	--	2200.0	--	160.0	--	1700.0	--	N/A	--	45.0

Well Drilling by Area	FY2017 Planned	Current Month	FY2017 Cumulative
100-KR-4	5	1	4
100-HR-3	0	-	-
200-UP-1	11	2	10
200-ZP-1	2	1	2
M-24 Milestone	5	5	5
300 Area	67	-	67
200-DV-1	5	-	5
Total Wells	95	9	93
Site Wide Boreholes	4	-	-

EMS Objectives and Target Status

Objective #	Target	Actions	Due Date	Status
17-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.	9/30/17	75%

TARGET ZERO PERFORMANCE

(Reported on a calendar month basis.)

	CM Quantity	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	0	NA
Total Recordable Injuries	0	0	NA
First Aid Cases	5	51	<ul style="list-style-type: none"> 8/8/2017 – Employee took glove off and placed it on the ground. After putting gloves back on, the employee received a fire ant bite. The bite started to swell and the employee contacted the Buyers Technical Representative (BTR). The BTR made notifications and transported the employee to site medical for treatment. (24570) 8/8/2017 – An employee reported ongoing shoulder pain from lifting 5-gallon buckets of water and dumping into the purge water truck. Employee was taken to site medical, treated for shoulder pain and released to return to work without restriction. (24569) 8/11/2017 - Employee donned PAPR with chemical cartridges and a hood to assist the contractor in repairs and applying fiberglass chemicals on the interior walls of the FBR tank. Employee immediately told supervisor that vapors were smelled through chemical cartridges while in the tank. Employee taken for medical follow-up at HPMC for precautionary measures. (24577) 8/21/2017 – An individual lacerated approximately 1 inch of the left forearm after walking into a sign while carrying a roll of wire. The wound was evaluated, cleaned, and bandaged at HPMC. The individual was released back to work without restriction. (24590) 8/25/17 – A pump failed, causing a carbon-water mixture to spray from the pump. Nuclear Chemical Operator (NCO) responded by running to the air compressor to shut off air to the pump. While running to the pump, NCO felt a sharp pain in left hip/ thigh. NCO was helped to a chair to sit down. The fire department responded and evacuated the NCO to Kadlec hospital for treatment. (24595) <p>*4 FA cases, PTS in support of RL-0030.</p>
Near-Misses	0	0	NA

KEY ACCOMPLISHMENTS

RL-0030 Accomplishments

RL-0030.01 RL 30 Operations

River Corridor

100-BC-5 Operable Unit (OU)

- Received comments from the Environmental Protection Agency's (EPA) review of the Draft A 100-BC-5 remedial investigation/feasibility study (RI/FS) report and Proposed Plan on August 11, 2017; initiated comment disposition.

100-HR-3 OU

- Initiated drilling the second of six P&T extraction wells in the 100-H Area. Drilling during sampling of the first well, within the uppermost Ringold Upper Mud aquifer, is complete.

100-KR-4 OU

- Completed SGW-60606, 100-K and 100-D Areas Sulfate Tracer Phase 1 Study Report, on August 17, 2017. Transmittal to RL will occur the following week.

100-NR-2 OU

- Completed the high-river respirometry testing of the bioventing system on July 10, 2017. System was not restarted until July 31, 2017, because of electrical stop work and inspection for above ground Type W cable.
- Prepared a draft Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) change notice (CN) to adjust the schedule for construction of the apatite barrier in the remedial design/remedial action work plan to correspond with the expected cultural review process. RL provided the draft Tri-Party Agreement CN to Ecology on August 3, 2017.

Central Plateau

200-UP-1 OU

- Completed installation of electrical components for the new uranium plume extraction well.
- Prepared draft Tri-Party Agreement CN for the 200-UP-1 Waste Management Plan and the Drilling Sampling and Analysis Plan (SAP) to add an additional (eleventh) southeast chromium plume characterization well. RL provided the draft Tri-Party Agreement CN to EPA.
- Completed fate and transport modeling to assess optimization of 200-UP-1 P&T remedies.

200-BP-5/200-PO-1 OU

- Received comments from Ecology on the Draft A 200-BP-5 RI and 200-PO-1 RI Addendum on August 7, 2017; initiated comment disposition.
- Completed an initial comment resolution meeting with Ecology on July 31, 2017, regarding the Draft A 200-BP-5 Remedial Action Work Plan. RL received additional work plan comments from the Yakama Nation on August 15, 2017.
- Completed incorporation of RL comments on the Central Plateau Groundwater Tracer Study Work Plan.

200-EA-1 OU

- Resolved RL and Ecology informal comments on the 200-EA-1 RI/FS work plan Chapter 1 and Appendix B comments, except those related to the principles, on August 2, 2017.
- Resolved Ecology informal comments on work plan Chapter 2 during the August 16, 2017, team meeting.
- Resolved CHPRC internal review comments on the 200-EA-1 OU Scoping on August 16, 2017; a 500-page atlas compendium of all the pertinent waste site information considered in the development of the work plan and SAP.
- Received C9617/216-A-29 analytical results from depth intervals up to 215 feet below ground surface (bgs) and have initiated data evaluation.

Central Plateau Closure Plans

- Conducted 216-S-10 waste designation evaluation kick-off meeting on August 21, 2017.
- Provided RL the updated draft procedural closure letters for 216-A-29, 216-B-63, and 216-B-3 on August 13, 2017, and discussed during the RL status meeting on August 14, 2017; RL indicated that the Part A updates are being delayed due to these procedural closure letters.

200-WA-1 and 200-BC-1 OUs

- Initiated geophysical survey of the U Plant area on August 10, 2017, and completed the electro-magnetic survey of the U Plant area on August 17, 2017.
- Completed resolution of RL comments on the Revision 0 Waste Control Plan for the 200-WA-1 and 200-BC-1 Operable Units on August 10, 2017.

200-DV-1 OU

- Demobilized and relocated the soil desiccation equipment to the Uranium Reactive Gas Sequestration (URGS) Treatability Test site. Excavated the site area and spread gravel.
- Completed the engineering review of the vendor's 30 percent URGS system design on August 3, 2017.
- Initiated internal review of the draft Deep Vadose Zone Treatability Test of Soil Desiccation for the Hanford Site Central Plateau: Final Report, on August 17, 2017.
- Completed drilling and decommissioning two of the remaining four deep boreholes on August 15 and 16, 2017.

200-ZP-1 OU

- Drilling activities continue on the injection well campaign. C9561 (YJ-29) reached a total depth of 478.0 feet bgs August 18, 2017. C9565 (YJ-30) reached a total depth of 326.1 feet bgs August 17, 2017. Construction activities are nearing completion on C9563 (YJ-32) as of August 17, 2017.

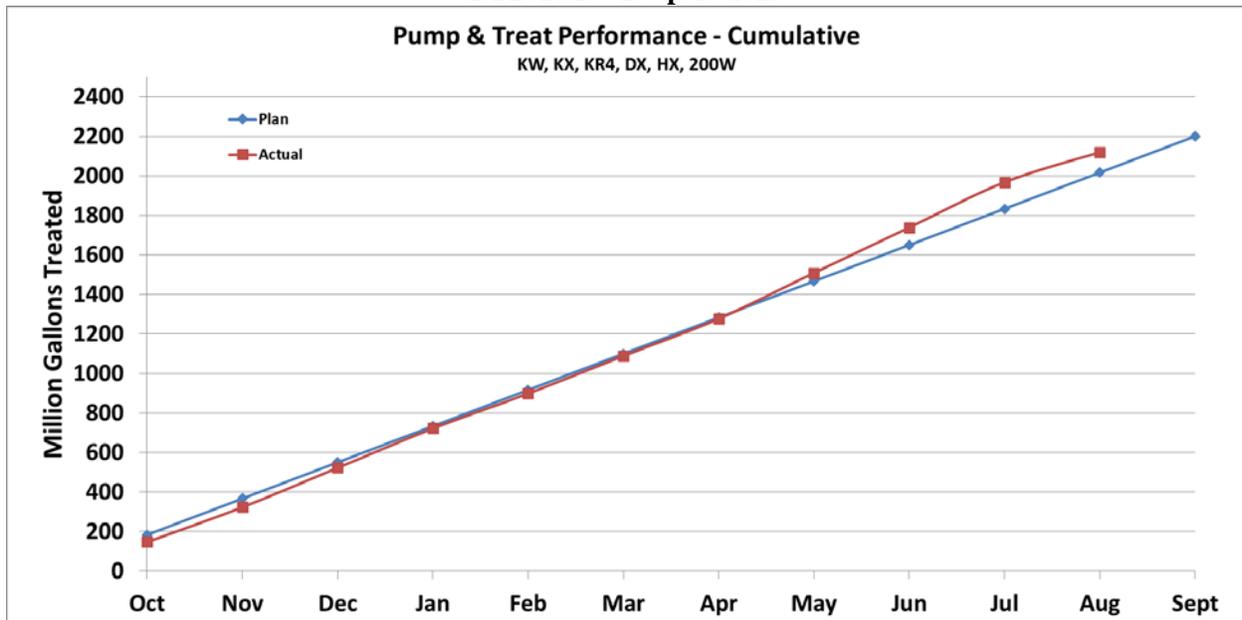
Groundwater P&T Facilities**200 West P&T**

- Operated the 200 West P&T at an average of 1,630 gallons per minute (gpm).
- Completed inspection and upgrade of Fluidized Bed Reactor B.
- Connected and placed into service new injection well YJ31.

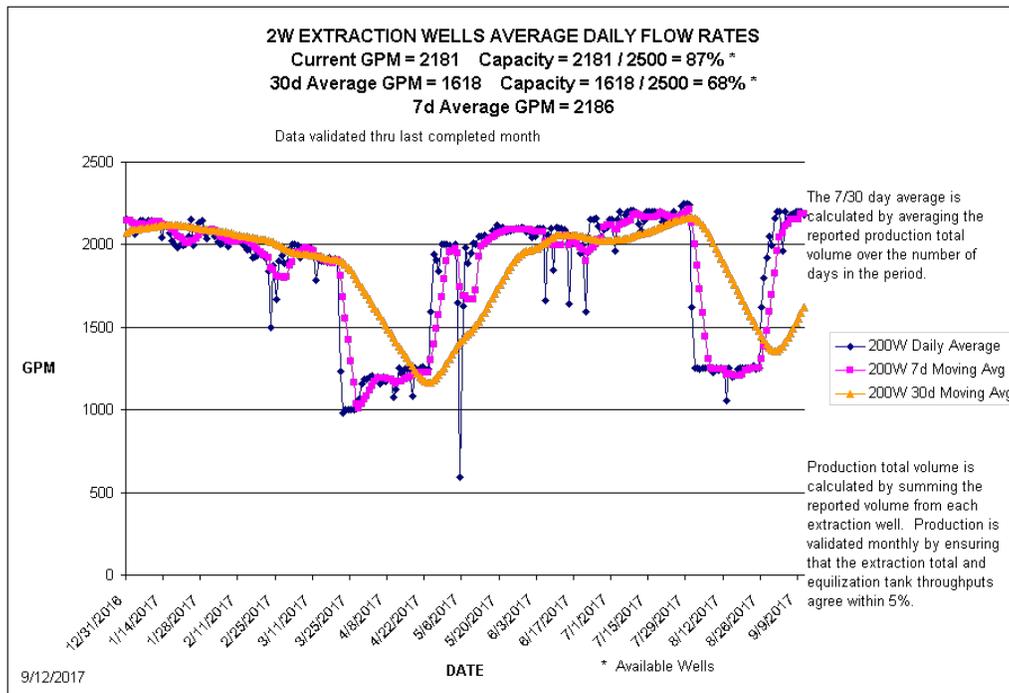
100 Area P&Ts

- Operated the DX P&T at 734 gpm, near facility capacity of 775 gpm.
- Operated the KR-4 P&T at 223 gpm, below the facility capacity of 330 gpm.
- Operated the KW P&T at 324 gpm, near facility capacity of 330 gpm.
- Operated the KX P&T at 391 gpm, below the facility capacity of 900 gpm. Operations acceptance testing is in progress for new feed pump PF-X3F. Resin carry over from the ion exchange vessels is under investigation. Two vessels have been repaired, 12 more are believed to be in need of repair. Eight of the 14 impacted vessels are still available for use.
- Operated the HX P&T at 746 gpm, below the facility capacity of 900 gpm. Began repair of equipment damaged by an August range fire.

FY2017 P&T Operations



200 West P&T



Project Technical Services (PTS) Accomplishments

- Training and Procedures
 - Developed briefing on water hammer (theory, effects, and mitigation) for S&GRP NCOs and Engineers.
- Project Delivery - S&GRP Wells
 - 100-KR-4 Operable Unit
 - Completed 90 percent at XE36, 75 percent at XE36.
 - Completed XE15 Construction Completion Documents (CCD).
 - 100-HR-3 Operable Unit
 - Continued mechanical manifolds/electrical rack fabrication.
 - Completed high-density polyethylene bonding at HE49- 3,” HE47- 3,” HE48- 3,” HE15-2,” HE14- 2,” HE12- 2.”
 - Completed DX fiber loop runs, testing and performed final walk down on M1 and MO runs.
 - Completed MO/M1 CCD.
 - 200-UP-1 Operable Unit
 - Completed YE24 and Rad Building tie in.
 - Finalized greenfield work for tie-in; work package preparation underway.
 - Continued installation of mechanical equipment in the Rad Building.
 - Performed hydro pressure test on SST manifold, filter housing, and associated piping in Rad Building.
 - Deep Vadose Zone Treatability Test
 - Set URGS trailer, completed parking lot, delivered electrical equipment to site, and installed interior, exterior fencing, and chain.
 - 200-ZP-1 Operable Unit
 - Continued with work on YJ21/YJ22.
 - Completed YJ31 and YJ32 CCD.

MAJOR ISSUES

Issue:

Experiencing regulatory agency delays in the approval of decision documents, including:

- 200-BP-5 RI/200-PO-1 RI addendum delayed due to Ecology review.
- 100-BC-5 RI/FS and proposed plan (PP) delayed due to EPA review.
- 100-DR-1, 100-DR-2, 100-HR-1, 100-HR-2, and 100-HR-3 Operable Units Record of Decision (ROD) delayed due to EPA Headquarters (HQ) signature.

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 notice of change letters to RL as contract activities are impacted.

Status:

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

- 200-BP-5/200-PO-1 RI: Ecology provided comments on August 7, 2017. (Issue Closed)
- 100-BC-5 RI/FS and PP: EPA provided comments on August 11, 2017. (Issue Closed)
- 100-DR-1, 100-DR-2, 100-HR-1, 100-HR-2, and 100-HR-3 Operable Units ROD: Final ROD was originally anticipated to be completed in September 2016. Consultation with the Yakama Nation is

scheduled for September 14, 2017, and October 3, 2017. It is expected that EPA HQ will sign the ROD in mid-October following the outcome from the consultation.

Issue:

Range fire at the 100-HR-3 Operable Unit burned approximately five acres and damaged Type W cable and high-density polyethylene pipeline. The HX P&T facility was shut down on August 12, 2017, and the facility restarted on August 16, 2017, at a significantly reduced flow rate. Repairs at HX are expected to be completed in late September and will continue to adversely affect plant flows until the repairs are complete.

Corrective Action:

Initiate repairs as soon as possible.

Status:

Piping repairs are underway and electrical (fiber, 24V cable, and 480 cable) work has commenced. The repairs are on track to finish by the end of September.

Issue:

KX and KR-4 ion exchange vessels require diffuser repair. Approximately 14 of 36 vessels are in need of repair.

Corrective Action:

Repair all vessels with damaged diffuser.

Status:

Eight of the 14 vessels in need of repair are available for use with temporary screens in place. Path for repair of vessels with bottom access has been established, and two vessels have been repaired. All bottom access vessels should be repaired by the first week in October. Top access vessel repair approach is being finalized and parts will be ordered during the first week in September. The project will perform the first top access vessel repair the first week in October and determine the schedule to complete all repairs at that time.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

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

-  Increased Confidence
-  No Change
-  Decreased Confidence

Risk Title	Unmitigated Risk Impacts	Assessment		Comments								
		Month	Trend									
RL-0030/WBS-030												
Explanation of major changes to the project monthly spotlight chart: Added realized risk SGW-135: Major Equipment Failure at a Pump & Treat Facility												
Realized Risks (Risks that are currently impacting project cost/schedule)												
SGW-135: Major Equipment Failure at a Pump & Treat Facility	A major equipment failure is experienced at one of the P&T locations during operations of the facility or at the injection and extraction well network. This includes but is not limited to failure of: rotary drum thickeners, centrifuges, lime addition conveyor, plastic pipe joint saddles, fluidized bed reactors, membrane bio-reactors, tanks, air stripper, computer system control center, extraction/injection wells, and other related equipment supporting P&T. Resulting in cost impacts, and schedule delays. Risk Handling Strategy: Accept Probability: Likely (75% to 90%) Worst Case Impacts: \$2,000K, 86 days			<p>Risk Event: Approximately 14 of 36 KX and KR-4 P&T facility ion exchange vessels require diffuser repairs.</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>Repair all vessels with damaged diffusers</td> <td>3/15/17</td> <td>TBD</td> <td>14</td> </tr> </tbody> </table> <p>Recovery Action Assessment: Eight of the 14 vessels in need of repair are available for use with temporary screens in place. Path for repair of vessels with bottom access has been established and two vessels have been repaired. All bottom access vessels should be repaired by the first week in October. Top access vessel repair approach is being finalized and parts will be ordered during the first week in September. The project will perform the first top access vessel repair the first week in October and determine the schedule to complete all repairs at that time.</p>	Risk recovery action(s)	Risk Date	FC Date	%	Repair all vessels with damaged diffusers	3/15/17	TBD	14
Risk recovery action(s)	Risk Date	FC Date	%									
Repair all vessels with damaged diffusers	3/15/17	TBD	14									
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)												
No critical risks identified in the month of August.												
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)												
No high risks identified in the month of August.												
Unassigned Risks (Pending ownership of identified risks/opportunities)												
No unassigned risks identified in the month of August.												

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	(11.7)	9.9	10.8	21.6	-184.4%	(0.9)	-9.3%

Numbers are rounded to the nearest \$0.1 million.

CM Schedule Performance (+\$21.6M/-184.4%)

The positive schedule variance resulted from the August implementation of several baseline change requests to defer unfunded work activities into planning packages. Due to a lack of funding and project priority, the following scopes of work were not initiated in fiscal year (FY) 2017 as planned. The work packages were converted into planning packages and the budgets moved from FY2017 to September 2018, causing an adjustment in the current month:

- 100-NR-2 barrier expansion and jet injection.
- Drilling campaigns for 100-KR-4, 200-ZP-1, and 100-NR-2.
- Well decommissioning activities.
- Geophysical surface surveys.
- 100-KR-4 and 100-HR-3 CERCLA 5 year reviews.
- 200-PW-1 operations and maintenance, process monitoring, and annual reporting.
- 200-IS-1 decision documents.
- B Plant decision documents.
- Outer Area decision documents.

This is offset in part by negative schedule variance resulting from agreement to delay 300-FF-5 Stage B injections for up to one year while a path forward can be agreed to. The scope of work planned to be performed during this period was delayed at the May 30, 2017, meeting between RL, EPA, and the Yakama Indian Nation. A workshop is scheduled for August 31, 2017, to address concerns and develop a path forward.

CM Cost Performance (-\$0.9M/-9.3%)

The current month cost variance was eroded by the \$2.3 million in spending incurred in support of FY2017 P&T optimization activities that are not planned in the Performance Measurement Baseline (PMB).

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)	Estimate to Complete (ETC)	Variance at Completion (VAC)
Total	1,395.5	1,379.8	1,347.3	(15.7)	-1.1%	32.6	2.4%	1,562.9	1,527.5	180.3	35.4

Numbers are rounded to the nearest \$0.1 million.

CTD Schedule Performance (-\$15.7M/-1.1%)

The variance is within reporting thresholds.

CTD Cost Performance (+\$32.6M/+2.4%)

The variance is within reporting thresholds.

Variance at Completion (+\$35.4M/+2.3%)

The variance is within reporting thresholds.

Contract Performance Report Formats are provided in Appendix A.

FUNDS vs. SPEND FORECAST (\$M)

RL-0030 Soil and Groundwater Remediation	FY2017		Variance
	Projected Funding	Spending Forecast	
Spending Forecast	126.6	119.4	7.2
Incremental Scope Pending Change Management	0.0	3.2	(3.2)
RL-0030 –Total	126.6	122.6	4.0

Numbers are rounded to the nearest \$0.1 million

Funds/Variance Analysis

The FY2017 revised budget guidance received from RL reflects expected funding of \$126.6 million for project breakdown structure (PBS) RL-0030. The fiscal year spending forecast of \$122.6 million includes actions anticipated to achieve funding targets, with an increase to fee allocation of \$2.0 million from last month.

Critical Path Schedule

Critical path analysis can be provided upon request.

MILESTONE STATUS

The following table is a one-year look ahead of PBS RL-0030 Tri-Party Agreement enforceable milestones, non-enforceable target due dates, and commitments.

Number	Title	Due Date	Actual Date	Forecast Date	Status/ Comment
Milestones on Schedule					
M-015-92A	Submit RFI/CMS & RI/FS Work Plan for 200-EA-1 OU to Ecology	7/31/18		7/8/18	On schedule.
M-024-58K	Initiate Discussions of Well Commitments	6/1/18		6/1/18	On schedule.
M-015-21A	Submit 200-BP-5 & 200-PO-1 OU FS Report and PP(s) to Ecology	6/30/18		6/22/18	At risk.
M-024-69-T01	Conclude discussions of well commitments initiated under M-024-58	8/1/18		8/1/18	On schedule.

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.

DOE ACTIONS / DECISIONS

Description	CHPRC Delivery Date	Expected RL Due Date
RL Review of Decisional Draft Version A 200-ZP-1 RD/RAWP Rev I	9/6/17	10/30/17
RL Review of Decisional Draft 200-UP-1 RD/RAWP Rev I	9/14/17	10/14/17
RL Review of Decisional Draft 100-HR-3 RD/RAWP	9/19/17	10/18/17
RL Review of Decisional Draft Biomobilization/Biointrusion SAP	9/28/17	10/27/17
Concurrent RL and CHRPC Review of Internal Draft LLBG WMA-2 Trench 94 Engineering Evaluation Report	10/2/17	10/13/17
Concurrent RL and CHRPC Review of Internal Draft SST WMA U Engineering Evaluation Report	10/9/17	10/20/17
Concurrent RL and CHRPC Review of Internal Draft SST WMA T Engineering Evaluation Report	10/16/17	10/27/17
RL Transmit Draft Rev 0 200-BP-5 RAWP for Regulator Final Check Review	10/30/17	10/31/17

Section E

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



R. M. Geimer
Vice President for
K Basin Operations and
Plateau Remediation

August 2017
CHPRC-2017-08, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

The general contractor for grouting the Plutonium Uranium Extraction Plant (PUREX) Tunnel 1 was awarded this month. The contractor has started training and mock ups for the platform/tunnel stabilization has commenced. As of August month end, grouting is anticipated to start in September 2017.

EMS Objectives and Target Status

None currently identified.

TARGET ZERO PERFORMANCE

(Reported on a calendar month basis.)

	Current Month	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	0	N/A
Total Recordable Injuries	0	0	N/A
First Aid Cases	2	15	<ul style="list-style-type: none"> 8/24/17 – Employee was startled and strained neck. After evaluation at HPMC, employee returned to work without restriction. (24596) 8/30/17 – An employee getting ready to leave for the day felt a sting, bite-like sensation on stomach. Woke in the morning to stomach a little swollen and painful. Employee was evaluated and returned to work without restriction. (24605)
Near Misses	0	0	N/A

KEY ACCOMPLISHMENTS

RL-0040 Accomplishments

Central Plateau Surveillance and Maintenance (CPS&M) Facilities

- Performed PUREX Building 217-A Electrical Panels Maintenance.
- Provided support for T Plant entry into 221-U.
- Completed Cell 10 Liquid Level Monitor System Test.
- Completed Ground Mapping of PUREX Grounds on the South Side of PUREX.

PUREX Tunnels

- Awarded contract for the general construction contract to grout PUREX Tunnel 1, and mobilized the long reach excavator and crane to the site.
- Conducted Hazard Review Board for field preparation for platform placement work package.
- Contractor commenced training.
- The MO806 office trailer was relocated from 618-10 to PUREX.
- Conducted three grout trial batch testing at American Rock Facility.
- Commenced mock-up for the platform/tunnel stabilization.



- The proposal schedule and estimate for change order (CO) 329 was submitted.
- Continued enhanced surveys on PUREX Tunnels 1 and 2.

PUREX Tank V-11-10-1

- Performed an additional radiological dose survey on one of the filled totes to support transportation/waste disposition.
- Prepared waste disposition paperwork for removing the totes from the site (scheduled for August 22, 2017).
- Transported the air filter samples collected during pumping operations to the sample shipping facility for handling and off-site shipment for analysis.

PUREX Stack Sampling System Replacement

- The construction contract requisition for the PUREX stack sampling replacement was routed, and all approvals have been received.
- Continued preparation and review/approval of additional eBOMs and associated Cat IDs to purchase the materials to support construction of the replacement PUREX stack sampling system.
- Completed an update of three construction drawings to eliminate a weld into the potentially contaminated stack return line in lieu of threaded connection with a saddle.
- Started preparation of the construction work package for demolition and installation of the replacement system

B Plant Pre-filter and HEPA Filter Change-out

- Installed a new interface cord and flow hose to the continuous air monitor inside ACT-001 containment tent.
- Prepared and de-burred shield boxes for pre-filter removal.
- Performed smoke test on the ACT-001 containment tent and certified it for use.
- Removed nine old pre-filters from the ACT-001 filter bank and inspected the interior for standing water; no water inside the filter bank was identified.
- Inserted nine new pre-filters into the ACT-001 filter bank.
- Surveyed and removed equipment from the ACT-001 containment tent.
- Fabricated an adapter to a third negative air mover unit that will be used during HEPA filter change-out.

Continued Progress on Canyon Stabilization Documents

- Completed Air Emissions Calculations: 203A, 211A, Reduction-Oxidation (REDOX) Canyon

REDOX Risk Mitigation

- REDOX steamline asbestos abatement approximately 70 percent complete.
- Completed update to Fire Marshall Permit, including code analyses that demonstrates that potentially 25 or more people, per floor, are allowed inside of the REDOX facility during entries.
- Completed South Sample Gallery measurement and inspected of sampling hoods to determine best access methods and start glove bag design and ordering process.
- Completed walk down of west loading dock with Mission Support Alliance, LLC (MSA) to determine best methods and process for cleanout of biological contaminants. Once complete, this should streamline waste egress somewhat.
- Completed draft of silo sampling work package and provided to Soil & Groundwater sampling personnel for initial review and comment.

REDOX Roof

- Completed 100 percent of roof sheeting, grid lines 9-17.
- Applied polymeric barrier system coating to the eastern side of the roof.



- Relocated crane to the west.
- Completed 50 percent of East side gutters and down spouts.
- Approved job hazard analyses and fall protection plan for the duct asbestos abatement.
- Completed draft work package for the duct asbestos abatement and routed for comment.

MAJOR ISSUES

Issue:

As a result of the PUREX Tunnel 1 collapse, CHPRC received a notification on May 9, 2017, from the Department of Ecology of an administrative order, which CHPRC must comply. As part of the administrative order, there are the following corrective actions.

Corrective Action:

- Identify and implement recovery actions associated with the collapsed PUREX Tunnel 1 – Proposal schedule and estimate to be completed August 2017.
- By July 3, 2017, submit to Ecology the Nuclear Waste Program a structural integrity evaluation for both PUREX Storage Tunnels 1 and 2. (CA#1) – Completed June 29, 2017.
- By August 1, 2017, submit a draft report detailing the corrective actions to ensure the safe storage of the waste in the PUREX Storage Tunnels 1 and 2 to the Department of Ecology, Nuclear Waste Program for comment and approval. (CA#2) – Completed July 11, 2017.
- By October 2, 2017, submit a draft permit modification to the Hanford Facility Resource Conservation and Recovery Act Permit, Dangerous Waste Portion Revision 8C to modify the permit. (CA#3) – on schedule.

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.

- Increased Confidence
- No Change
- Decreased Confidence

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 August .																					
Realized Risks (Risks that are currently impacting project cost/schedule)																					
WSR-202S-02: REDOX – Inclement Weather	Inclement weather, including moderate winds, low or high temperatures, heavy rain, or thunderstorms will impact the REDOX roof replacement. Risk Handling Strategy: Accept Probability: Likely (75% to 90%) Worst Case Impacts: \$0K, 32 day	●		Risk Event: For the duration of February through June, the REDOX roof construction activities were impacted by high wind and other weather events – four weather delays were experienced in June. No additional weather delays were experienced in August. <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>Crews working overtime to support schedule recovery.</td> <td style="text-align: center;">Multiple</td> <td style="text-align: center;">Ongoing</td> <td style="text-align: center;">N/A</td> </tr> </tbody> </table> Recovery Action Assessment: No major changes in the month of August. CHPRC has realized cost and schedule impacts resulting from inclement weather conditions through the months of February through June. Schedule and cost impacts continue to be documented and projected. CHPRC has and continues to perform all actions that may mitigate impacts, including things such as changing working hours to avoid heat delays. However, weather delays are difficult to forecast and mitigate. CHPRC plans to capture any scope and cost changes resulting from the weather delays in the TCoPD submittal for the corresponding change proposal (CP 040 311 1625).	Risk recovery action(s)	Risk Date	FC Date	%	Crews working overtime to support schedule recovery.	Multiple	Ongoing	N/A									
Risk recovery action(s)	Risk Date	FC Date	%																		
Crews working overtime to support schedule recovery.	Multiple	Ongoing	N/A																		
D4-042: Unexpected Site Conditions - D4	Unexpected site conditions are encountered during D4 activities, resulting in schedule delays. Risk Handling Strategy: Accept Probability: Medium (26% to 74%) Worst Case Impacts: \$0K, 130 day	●		Risk Event: The B Plant ventilation system was shut down due to elevated differential pressure readings in the ACT002 filter bank. Upon initial investigation, it was determined that the pre-filters were saturated with water and there was standing water within the ACT001 filter bank. The result of this unexpected occurrence is that the pre-filters and HEPA filters in the ACT002 bank and presumably the pre-filters and the HEPA filters in the ACT001 filter bank need to be replaced prior to startup of the B Plant ventilation system. Unexpected radiological contamination identified within/outside the containment tent used to initiate the pre-filter change out has resulted in further delays to the filter replacement/system startup. <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>Work Package WCNs are being prepared to perform additional investigation of the water intrusion, remove the pre-filters and HEPA filters, and restart the B Plant ventilation system.</td> <td rowspan="4" style="text-align: center; vertical-align: middle;">Aug 2016</td> <td style="text-align: center;">09/12/2017</td> <td style="text-align: center;">80%</td> </tr> <tr> <td>Recovery actions were performed in April and May 2017 to fix contamination associated with ACT002 in and around the containment tent.</td> <td style="text-align: center;">Complete</td> <td style="text-align: center;">100%</td> </tr> <tr> <td>Requests to expedite the HEPA filter order have been rejected by the manufacturer due to issues with their equipment at the production facility.</td> <td style="text-align: center;">Complete</td> <td style="text-align: center;">100%</td> </tr> <tr> <td>Execute pre-filter and HEPA filter change out.</td> <td style="text-align: center;">10/12/2017</td> <td style="text-align: center;">33%</td> </tr> </tbody> </table> Recovery Action Assessment: Engineering evaluation of the water intrusion has been completed. Condensate buildup was identified as the most likely source of water. During pre-filter removal in the ACT-002 filter bank no residual water was detected where water was previously present in large quantities; however, residual water and water damage was clearly visible on the pre-filters and the filter access hatches. Similarly, no water was detected inside ACT-001 filter bank, but the filters also showed signs of water damage; assumption is high heat inside the filter banks evaporated the water. HEPA filters will be replaced once the new filters are manufactured, tested at the off-site filter testing	Risk recovery action(s)	Risk Date	FC Date	%	Work Package WCNs are being prepared to perform additional investigation of the water intrusion, remove the pre-filters and HEPA filters, and restart the B Plant ventilation system.	Aug 2016	09/12/2017	80%	Recovery actions were performed in April and May 2017 to fix contamination associated with ACT002 in and around the containment tent.	Complete	100%	Requests to expedite the HEPA filter order have been rejected by the manufacturer due to issues with their equipment at the production facility.	Complete	100%	Execute pre-filter and HEPA filter change out.	10/12/2017	33%
Risk recovery action(s)	Risk Date	FC Date	%																		
Work Package WCNs are being prepared to perform additional investigation of the water intrusion, remove the pre-filters and HEPA filters, and restart the B Plant ventilation system.	Aug 2016	09/12/2017	80%																		
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Requests to expedite the HEPA filter order have been rejected by the manufacturer due to issues with their equipment at the production facility.		Complete	100%																		
Execute pre-filter and HEPA filter change out.		10/12/2017	33%																		

Risk Title	Unmitigated Risk Impacts	Assessment		Comments						
		Month	Trend							
RL-0040/WBS-040										
				facility and shipped to Hanford; current ETA for the new HEPA filters is late August. Further delays have been encountered from the HEPA filter manufacturer; they had to wait for additional materials to fabricate the filters and ship the filters in batches. Additional delays have been incurred at the testing facility due to testing equipment maintenance issues. In addition, all HEPA filters must be ground shipped between the manufacturer, testing facility, and CHPRC due to their large size. Once the pre-filters and HEPA filters are replaced in both ACT filter banks, the ventilation system will be restarted. The system will be monitored closely to identify any increases in differential pressure and/or elevated radiation levels that would be leading indicators that water is accumulating in the system again. Buildup of condensate after filter replacement could result in further shutdown of the system; however, it would most likely impact the pre-filters rather than the HEPA filters if differential pressure fluctuations are identified early. Pre-filters are low-cost and are changed out more frequently than the high cost HEPA filters.						
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)										
No critical risks identified in the month of August .										
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)										
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 Event: During routine surveillance activities, unforeseen events cause systems to be compromised. This risk is a lifecycle risk and will continue through the CHPRC contract period (September 30, 2018). This risk was realized in March due to increased future maintenance costs; however, a BCR was implemented to utilize MR, and the risk has since been recovered from. <table border="1" style="width: 100%;"> <thead> <tr> <th>Mitigation Action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>None identified at this time.</td> <td>N/A</td> <td>N/A</td> </tr> </tbody> </table> Recovery Assessment: No major changes in the month of August . A pre-conceptual design has been provided to RL with an estimate for a like replacement of the entire PUREX stack sample system. CHPRC was provided a not-to-exceed (NTE) to complete a detailed design package for the system and to start demolition and installation activities; however, it is expected the NTE amount will be expended early on during construction. The detailed design package for the replacement system was accepted in May 2017; and stamped/signed copies of the package were received in early June. Construction contract development and procurement of the system parts was started in July and will continue through the remainder of FY2017, with intent to award the construction contract for installation at the start of FY2018.	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 August .										

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	4.4	4.7	3.7	0.3	7.1%	1.0	21.1%

Numbers are rounded to the nearest \$0.1 million

CM Schedule Performance: (\$0.3M/+7.1%)
The cost variance is within reporting thresholds.

CM Cost Performance: (+\$1.0M/+21.1%)
The favorable cost variance is due to efficiencies experienced in the work planning for demolition of 222B, 292B, 217B, and 2716B. The work packages were combined into one versus separate work packages. Additionally, the three demolitions were estimated as stand-alone projects, thus efficiencies have been realized by mobilizing one crew to complete the demolition sequentially.

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)	Estimate to Complete (ETC)	Variance at Completion (VAC)
Total	452.7	446.9	416.6	(5.8)	-1.3%	30.3	6.8%	491.4	468.6	52.1	22.7

Numbers are rounded to the nearest \$0.1 million

Cost to date (CTD) Schedule Performance: (-\$5.8M/-1.3%)
The schedule variance is within reporting thresholds.

CTD Cost Performance: (+\$30.3M/+6.8%)
The favorable cost variance is due to prior year activity, including:

- The majority of the CTD cost variance is from legacy work dating back to the American Recovery and Reinvestment Act (ARRA) time period.
- The remaining CTD favorable cost variance base-funded work is due to efficiencies for Surveillance and Maintenance and D4 activities as a result of utilization of existing site equipment and fewer resources, and Program Management utilizing fewer resources.

Variance at Completion (+\$22.7M/+4.6%)
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	FY2017		Variance
	Projected Funding	Spending Forecast	
Spending Forecast	38.9	34.4	4.5
Incremental Scope Pending Change Management	0.0	0.6	(0.6)
RL-0040 – Total	38.9	35.0	3.9

Numbers are rounded to the nearest \$0.1 million.

Funds/Variance Analysis

FY2017 projected funding for PBS RL-0040 is \$38.9 million. The incremental scope pending includes the remaining scope for CO 311 including REDOX roof replacement; silo cleanout of levels 1-3; the north sample gallery cleanout; and balance of the CO 324 for demolition of the B Plant ancillary buildings and REDOX steam lines demobilization.

Critical Path Schedule

Critical path analysis can be provided upon request.

MILESTONE STATUS

Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) milestones represent significant events in project execution. RL Enforceable Agreement milestones were established to provide high-level visibility to critical deliverables and specific status on the accomplishment of these key events. The Performance Measurement Baseline (PMB) Annual Update, implemented in September 2013, and subsequent approved baseline change requests (BCR) 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 Ecology a three-year rolling prioritized schedule to implement waste site removal actions.	3/31/2017	3/30/2017 (A)		Complete
M-085-80A	Submit to Ecology secondary document, a data quality objective (DQO) report to access structural integrity of PUREX storage Tunnels 1 and 2.	9/30/2017		9/30/2017	On schedule

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.

DOE ACTIONS / DECISIONS

Description	CHPRC Delivery Date	Expected RL Due Date
RL Review of 202S Demo Prep / D&D / Annex Action Memo	11/21/16 (A)	11/10/17
RL Review of 202A Demo Prep / Annex / Vent Mods Action Memo	11/29/17	01/02/18
RL Review of 221B Demo Prep & Stabilization of Legacy Vent System Action Memo	03/18/18	05/01/18

Section F

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



R. M. Geimer
Vice President for
K Basin Operations and
Plateau Remediation

August 2017
CHPRC-2017-08, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

T. L. Hobbes
Vice President for 618-10 Burial Ground
and Environmental Restoration
Disposal Facility

L. M. Douglas
(Acting) Vice President
for 324 Building
Disposition Project

M. A. Wright
Vice President for
Project Technical
Services

PROJECT SUMMARY

The project continued the following progress: 100K Waste Site Area AB backfill; 100K Closure Project long-range planning; 618-10 Burial Ground, 600-63 Waste Site, and 316-4 Waste Site remediation; 300-296 Remote Soil Excavation Project.

EMS Objectives and Target Status

Objective #	Objective	Target	Due Date	Status
17-EMS-KBOPR-OB1-T1	Increase compliance at KBOPR Project.	Develop compliance matrices for 100K CERCLA documents.	9/30/17	100%
17-EMS-KBOPR-OB2-T1	Universal Waste and Recycling Compliance and Spill Prevention.	Monitor and evaluate universal waste.	9/30/17	88%
17-EMS-KBOPR-OB3-T1	Reduce Waste	Reduce plastic water bottle use at project.	9/30/17	100%

TARGET ZERO PERFORMANCE

(Reported on a calendar month basis.)

	Current Month	Rolling 12 Months	Comment
Days Away, Restricted or Transferred	0	0	N/A
Total Recordable Injuries	0	*1	*Recordable incident 24238 on November 17, 2016, was recorded under PBS RL-0013; however, the incident occurred at ERDF, which is part of PBS RL-0041.
First Aid Cases	3	34	<ul style="list-style-type: none"> 8/14/2017 – Employee stepped off a stool and missed the step. Employee fell and hit their elbow and leg, and hurt their back. Employee was taken to HPMC for evaluation and released without restrictions. (24578) 8/15/2017 – Employee slipped on a rock and twisted their ankle. Employee was taken to HPMC for evaluation and released with restrictions that were accommodated by the project. (24583) 8/31/2017 – Employee had foreign material blown into their right eye while working. Employee self-treated and was taken to HPMC for evaluation and released without restriction. (24609)
Near Misses	0	0	N/A

KEY ACCOMPLISHMENTS

RL-0041 Accomplishments

- 100K Closure Project
 - o 100K Waste Site Area AB Remediation:
 - Backfill of the 183.1 KE Head House excavation site is 90 percent complete.
 - o 100K Asbestos Waste Site Remediation:
 - Submitted waste site reclassification form to Environmental Protection Agency (EPA) for approval of the closure of the last eleven asbestos waste sites at 100K.
 - o K West Basin Deactivation & Demolition:
 - Completed garnet filter media removal system risk mitigation testing using sand and gravel simulants. The system recovered from all induced hose plug scenarios.
 - Started work on the sand filter media removal system piping mock-up. Performed early concept runs for the sand filter vessel sparge and retrieval heads, which provided information to develop the test procedure and work package for conceptual retrieval.
 - Developed a plan, schedule to build the underwater enclosure for the gamma ray spectrometer (gamma camera), and initiated investigation into acquisition of a Cs137 source. The source will be used to calibrate efficiency of the gamma camera during final testing at Maintenance and Storage Facility (MASF). Current plan is to start gamma camera surveys of the East Bay of K West Basin in early November.
 - Finalized long-range plan, which included K West Basin deactivation, demolition, and waste site remediation; K West Reactor interim safe storage (ISS); 100K waste site remediation; 100K ancillary facility demolition; K East Reactor ISS; and remaining closure operations (RCO) activities.
- Remaining Closure Operations
 - o Resource Conservation and Recovery Act of 1976 (RCRA) Permit Closure.
 - Ecology informed RL the Class 1 Permit Modification Package for removal of 1324-N/NA Liquid Waste Disposal Facility from the site-wide permit cannot progress until an informal meeting is held with the Yakama Nation.
 - RL extended the public comment review period for the Class 2 RCRA Permit Modifications for sites 1301-N and 1325-N at the request of Ecology. The extension ends September 8, 2017.
 - o MO226 Demolition
 - Began preparation of the closure letter and compiling objective evidence for Tri-Party Agreement M-94-00, *Complete Disposition of All 300 Area Surplus Facilities excluding the 324 Building*.
 - o Revegetation
 - Started collecting shrub seeds from various locations around the Hanford Site to support FY2018/2019 revegetation efforts.
 - o Interim Stabilization
 - Initiated an ecological/cultural assessment for the 400 Area interim stabilization sites.
 - o 600-393 Waste Site and 600-403 Waste Site
 - Initiated planning activities in preparation for remediation.
- 618-10 Burial Ground:
 - o 27,244 tons of contaminated soil sent to Environmental Restoration Disposal Facility (ERDF) from 618-10 Mass Excavation.
 - o Continued equipment decontamination and infrastructure demobilization activities.
 - o Project personnel supported KBO&PR in preparing for remediation of the 600-393 and 600-403 Waste Sites.

- o The Project Technical Services (PTS) operations program completed an emergency preparedness drill for building emergency director proficiency.
- 316-4 Waste Site:
 - o Backfill activities continued ahead of schedule.
- 600-63 Waste Site:
 - o Remediation of the 600-63 Waste Site completed on July 24, 2017.
 - o 15,867 tons of soil were removed.
- 324 Building Minimum Safe:
 - o Developed work package and executed the performance of the EP-975 fan motor replacement.
 - o Repaired/replaced the EPN-971 exhaust fan outlet flex material.
 - o Developed the work planning to drain the oil from the B-Cell Shield windows (windows are leaking oil).
 - o Performed the quarterly supply and exhaust fan interlock testing.
 - o Repaired last of the known steam leaks in preparation for the coming steam season.
 - o Performed 11 monthly, quarterly, or semi-annual Preventive Maintenance (PM) package activities.
 - o PTS Support:
 - Training and Procedures
 - Reviewed all training documents for Safety Class removal to Hot Cells due to BIO
 - Converted 35 of 48 of the 324 facility-specific procedures to CHPRC format.
 - Operations Program
 - Emergency Preparedness (EP)
 - Conducted 324 IEX Drill 324-EPDE-081717
 - Conducted Tabletop drill (324-EPDT-071817).
 - Completed EP Procedure transition coordination for B324.
- 300-296 Soil Remediation Project:
 - o EPA provided written concurrence supporting the soil excavation endpoint criteria proposed by the project to meet the M-016-085A Tri-Party Agreement milestone on August 17, 2017.
 - o The contract for the Water Delivery System for the mockup was awarded on July 27, 2017, and pre-fab vendor activities were initiated.
 - o Approval to start fabrication for the Cameras and Lighting System was issued on August 3, 2017.
 - o A Request for Information was issued for the Radiation Assay System/Crane Mounted Radiation Detector on August 3, 2017.
 - o Best and final offers were received for 324 Building modifications (Interference Removal, Cell Sealing, Core Drilling, and Structural Modifications) on August 19, 2017, and the source selection process was completed.
 - o The MASF test floor used for the Floor Saw Test was broken up using the Remote Excavation Arm (REA) during the week of August 7, 2017, to gather lessons for future training and proficiency development.
 - o Approval for fabrication of the REA System was issued on August 16, 2017.
 - o The test team successfully completed testing of the Seal Breaker Lifting Device and the Remotely Operated Impact Device (ROID) needed to remove the D-Cell floor plug in the 324 Building.
 - o All training and mockup activities were completed for the building trades personnel who will be conducting Radiochemical Engineering Cells (REC) debris removal.
 - o Developed work package and executed the performance of an Airlock Knaack box retrieval.
 - o In preparation for the mobilization of the Facility Modification Contractor, mechanical isolation of the Cold Process Water System was completed.

- o PTS Support:
 - Project Delivery
 - Performed Mockup Structural Modifications (MSM):
 - Completed core drilling tool holder hole.
 - Completed grouting transfer mechanism sleeves.
 - Installation of forms and rebar for transfer mechanism walls.
 - Continued installation of MSM frames.
 - Completed installation of transfer mechanism rebar dowel adhesive anchors.
 - Commenced core drilling of test holes.
 - Completed busing and drilling transfer mechanism rebar dowel adhesive anchors.
- Environmental Restoration Disposal Facility:
 - o Receipt of 32,702 tons by CHPRC for the fiscal month of August.
 - o Receipt of 244,985 tons by CHPRC fiscal year to date (FYTD).
 - o Received one LLI (Long Length Item) from Washington River Protection Solutions, LLC (WRPS) for treatment.
 - o Mobilized non-standard crane for off-load of several LLIs due in September.

MAJOR ISSUES

RL and EPA are in discussion on implementing additional cleanup requirements above ROD levels for the deep zone at the 618-10 Burial Ground to eliminate institutional controls. The decision is pending.

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 in the month of August.													
Realized Risks (Risks that are currently impacting project cost/schedule)													
No realized risks identified in the month of August.													
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)													
RCC-300-296-03: Mockup testing and qualification of remote equipment / process identifies major modification requirements.	Issues such as equipment interferences, equipment reliability, etc., arise during mockup or component testing, resulting in negative cost or schedule impacts during future production work. There is the potential for more frequent equipment repairs/full equipment change-outs than planned, which could result in cost and schedule impacts. Risk Handling Strategy: Control Probability: Low (10% to 25%) Worst Case Impacts: \$86K, 80 days	●	↔	Risk Trigger Metric: Risk could be triggered through the conduct of component testing or testing/training performed at the mockup that produced inadequate or unexpected test results. <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr style="background-color: #e0e0e0;"> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Conduct Concrete Floor Saw Test (cut rate, embedment cutting), and determine P.O.P.</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Perform Construction Acceptance Test at mockup facility – including REA System with HPUs, cameras, and lighting and transfer mechanisms.</td> <td>3/31/18</td> <td>0</td> </tr> </tbody> </table> Mitigation Assessment: The mockup will be used to validate equipment performance and to support establishing proficiency for personnel for installation, relocation, and operation of remote soil remediation equipment in the 324 Building. Remotely operated equipment (Remote Excavation Arm, transfer mechanism, cameras and lighting, and floor saw) could experience higher failure rates and/or performance issues from lack of personnel proficiency. Vendor contracts have been awarded for the REA, transfer mechanism, cameras and lighting systems, and equipment deliveries to the mockup are scheduled for December 2017/January 2018. Floor saw testing was completed in April, the Functional Requirements Document and Performance Specifications were issued in August, and the Request for Proposal to start the procurement process for the mockup floor saw is on track to be issued in early September. Mockup modifications to support equipment installations are in progress and planned to be completed by September 30 for equipment installations in late CY2017.	Mitigation action(s)	FC Date	%	Conduct Concrete Floor Saw Test (cut rate, embedment cutting), and determine P.O.P.	Complete	100	Perform Construction Acceptance Test at mockup facility – including REA System with HPUs, cameras, and lighting and transfer mechanisms.	3/31/18	0
Mitigation action(s)	FC Date	%											
Conduct Concrete Floor Saw Test (cut rate, embedment cutting), and determine P.O.P.	Complete	100											
Perform Construction Acceptance Test at mockup facility – including REA System with HPUs, cameras, and lighting and transfer mechanisms.	3/31/18	0											
RCC-300-296-11: Current REC cell seismic analysis is inadequate	Regulatory agencies require different seismic analysis criteria than the UBC 1961 methodology that was originally used, resulting in additional design and more significant structural alterations to the 324 Building, which would negatively impact project cost and schedule Risk Handling Strategy: Control Probability: Low (10% to 25%) Worst Case Impacts: \$288K, 48 days	●	↔	Risk Trigger Metric: This risk would be triggered at the same time it is realized, with regulatory agencies requiring different seismic analysis criteria than what was used in the original estimates. <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr style="background-color: #e0e0e0;"> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Engage Defense Nuclear Facility Safety Board (DNFSB) early concerning seismic design criteria.</td> <td>Ongoing</td> <td>N/A</td> </tr> </tbody> </table> Mitigation Assessment: The original design of the 324 Building is based on the 1961 Uniform Building Code (UBC). Facility structural modifications have been analyzed using the UBC 1961 methodology (Section 7.8, KUR-1782F-CALC-C001, and 324 Building REC Structural Stability Evaluation); as the most appropriate and cost effective approach given the overall intent to remediate the building following soil removal. The project conducts a bi-monthly update to DNFSB field and technical representatives, and the most recent update was provided on June 29, 2017. The update includes the status of the project overall, with specific updates on Nuclear Safety Documentation, Structural Design, and Readiness. The project issued a Request for Proposal for 324 Building modifications (Interference Removal, Cell Sealing, Core Drilling, and Structural Modifications) on June 6, 2017. Two proposals were received in July, the source selection process was completed in August, and the project is supporting the RL consent approval process to support the contract award in mid-September.	Mitigation action(s)	FC Date	%	Engage Defense Nuclear Facility Safety Board (DNFSB) early concerning seismic design criteria.	Ongoing	N/A			
Mitigation action(s)	FC Date	%											
Engage Defense Nuclear Facility Safety Board (DNFSB) early concerning seismic design criteria.	Ongoing	N/A											
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)													
Lifecycle Risk Triggers (Risk could be realized at any point of the project)													

<p>RCC-316-4-09: 316-4 Discovery of Unexpected Waste/Contamination</p>	<p>Discovery of unexpected waste/contamination, waste/contamination quantities above what is assumed, waste/contamination that is above and beyond COCs and/or waste profile, and/or waste/contamination is found in the assumed clean area of the design. Resulting in greater than planned RAD controls resulting in cost and schedule impacts.</p> <p>Risk Handling Strategy: Accept</p> <p>Probability: Very Low (<10%) Worst Case Impacts: \$240K, 48 day</p>			<p>Risk Event: On Tuesday, November 29, 2016, CHPRC discovered debris (wood, metal, etc.) in the 316-4 overburden removal, and then on Wednesday, November 30, 2016, radiological contaminated soil and contaminated debris (plastic and piping) was encountered that was buried in the top 6 feet of overburden at the 316-4 waste site. On Wednesday, January 4, 2017, and Tuesday, January 24, 2017, additional contamination was discovered. Contamination was discovered approximately 4 feet above the anticipated location on March 27, 2017.</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>Send backfill stockpile to ERDF.</td> <td rowspan="2">11/29/16</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Update TCoPD to align with found conditions.</td> <td>5/26/17</td> <td>100</td> </tr> </tbody> </table> <p>Recovery Action Assessment: The Truthful Cost or Pricing Data (TCoPD) for change proposal CP 041 304 1600 was submitted on May 26, 2017. The TCoPD captured schedule and cost changes that resulted from the contamination discoveries that occurred prior to March 2017. The excavation of the 316-4 Waste Site was completed on May 23, 2017, and backfill began on June 19, 2017. Due to the completion of the excavation, this risk is no longer a realized risk. Based on fourth quarter risk reviews with the project, this risk is completed and will be removed from the September monthly report.</p>	Risk recovery action(s)	Risk Date	FC Date	%	Send backfill stockpile to ERDF.	11/29/16	Complete	100	Update TCoPD to align with found conditions.	5/26/17	100
Risk recovery action(s)	Risk Date	FC Date	%												
Send backfill stockpile to ERDF.	11/29/16	Complete	100												
Update TCoPD to align with found conditions.		5/26/17	100												
<p>RCC-618-10-07: Contamination Event at 618-10 Waste Site</p>	<p>During fieldwork activities, a contamination event occurs or a change in cleanup conditions that requires corrective actions, resulting in schedule and cost impacts.</p> <p>Risk Handling Strategy: Accept</p> <p>Probability: Low (10% to 25%) Worst Case Impacts: \$1,288K, 64 days</p>			<p>Risk Trigger Metric: The risk could be triggered by high winds or operational upsets (i.e. spills or airborne release).</p> <table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Enhanced radiological controls implemented on project.</td> <td>Ongoing</td> <td>N/A</td> </tr> </tbody> </table> <p>Mitigation Assessment: No changes in the month of August. Much of the 618-10 work is performed in hazardous and radioactive environments. By its nature, the work can be dangerous. Although CHPRC procedures, safety programs, and training programs are designed to minimize the potential loss of control of hazardous/radioactive substances, such an occurrence could be deemed significant enough to warrant corrective actions outside the baseline (i.e., a prolonged work shutdown).</p>	Mitigation action(s)	FC Date	%	Enhanced radiological controls implemented on project.	Ongoing	N/A					
Mitigation action(s)	FC Date	%													
Enhanced radiological controls implemented on project.	Ongoing	N/A													
<p>RCC-618-10-09: Discovery of Unexpected Waste/Contamination</p>	<p>Discovery of unexpected waste/contamination, waste/contamination quantities above what is assumed, waste/contamination that is above and beyond COCs or waste profile, or waste/contamination is found in the assumed clean area of the design. Resulting in greater than planned RAD controls resulting in cost and schedule impacts.</p> <p>Risk Handling Strategy: Accept</p> <p>Probability: Very Low (<10%) Worst Case Impacts: \$1,280K, 64 days</p>			<p>Risk Trigger Metric: Baseline assumed contamination is limited to design. This risk has the potential to occur again during mass excavation if additional waste/contamination is discovered.</p> <table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Closely managing waste inventories and discoveries, and making adjustments as required.</td> <td>Ongoing</td> <td>N/A</td> </tr> </tbody> </table> <p>Mitigation Assessment: No changes in the month of August. The estimate for the remediation of the 618-10 Waste Site included an assumed amount of additional drums still to be remediated. The project identified unexpected additional drums that were not planned or estimated. The project will continue to closely monitor and manage waste inventories and any new discoveries.</p>	Mitigation action(s)	FC Date	%	Closely managing waste inventories and discoveries, and making adjustments as required.	Ongoing	N/A					
Mitigation action(s)	FC Date	%													
Closely managing waste inventories and discoveries, and making adjustments as required.	Ongoing	N/A													
<p>Unassigned Risks (Pending ownership of identified risks/opportunities)</p>															
<p>No unassigned risks identified in the month of August.</p>															

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	10.4	9.9	8.8	(0.5)	-5.2%	1.0	10.3%

Numbers are rounded to the nearest \$0.1 million

CM Schedule Performance (-\$0.5M/-5.2%)

The current month unfavorable schedule variance is partially due to soil remediation in Waste Site Area AB at 100K that was completed ahead of schedule in prior months. The 300-296 Project experienced delays fabricating the REA, resulting from design changes / shop loading of sub-vendors, core drilling activities at the mockup are taking longer than planned due tolerance deviations, and REC Airlock cleanout was impacted by training/proficiency of a new crew.

CM Cost Performance (+\$1.0M/+10.3%)

The current month favorable cost variance is partially due to the 618-10 Burial Ground project management and support accounts that experienced significant underruns due to efficient resource sharing across the complex and reduced material usage. Backfill activities at the 316-4 Waste Site experienced cost efficiencies, as the project was able to self-perform the work with existing crews instead of hiring a separate subcontractor, as well as utilize site recontouring and existing soils for backfill material. Additionally, the 600-63 Waste Site was under budget due to the optimization of resources and equipment at the 618-10 Burial Ground Complex. The positive cost performance was partially offset by the 300-296 Project's unfavorable variance of (\$-720K); largely due to schedule delays with REC Airlock cleanout during transition to the construction trades crew, some delays in mockup modifications to resolve core drilling tolerances issues on test cores, and lagging Mission Support Alliance, LLC (MSA) costs for completed work on HLAN upgrades .

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)	Estimate to Complete (ETC)	Variance at Completion (VAC)
Total	466.3	470.5	415.5	4.3	0.9%	55.1	11.7%	569.7	495.5	80.0	74.2

Numbers are rounded to the nearest \$0.1 million

CTD Schedule Performance (+\$4.3M/+0.9%)

The schedule variance is within reporting thresholds.

CTD Cost Performance (+\$55.1M/+11.7%)

The favorable cost variance is primarily due to completing Confirmatory Sampling - No Action (CSNA) waste sites early and under cost. In addition, less demolition was required for the KE Sedimentation Basin. This favorable cost variance was partially offset by the cost overruns in prior years for the utilities project. The 618-10 Burial Ground Complex also realized favorable cost variances with shared resources,

lower drum processing costs, and excavation and backfill efficiencies at the 316-4 Waste Site. The positive cost performance was partially offset by the 300-296 Project resulting from delays in mockup modifications and transitioning to a new crew for REC airlock cleanout.

Variance at Completion (+\$74.2M/+13.0%)

The Variance at Completion is primarily due to the 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	FY2017		Variance
	Projected Funding	Spending Forecast	
Spending Forecast	146.3	113.3	33.0
Incremental Scope Pending Change Management	0	0.7	(0.7)
RL-0041 - Total	146.3	114.0	32.3

Numbers are rounded to the nearest \$0.1 million.

Funds/Variance Analysis:

FY2017 projected funding for project breakdown structure (PBS) RL-0041 is \$146.3 million. The delta between the spending forecast and projected funding levels for FY2017 is partially due to work scope completing ahead of schedule, attrition and staffing ramp-downs, resource sharing amongst projects, and less material procurements at the 618-10 Burial Ground Complex. Backfill activities at the 316-4 Waste Site are experiencing cost efficiencies, as the project is able to self-perform the work with existing crews instead of hiring a separate subcontractor, as well as utilize site recontouring and existing soils for backfill material. Additionally, less waste volumes by waste generators early in the fiscal year and not hiring as many teamsters as planned has resulted in an underspending at ERDF. Also, incorporating trends for cost underruns in Small Waste Site Surveillance and Maintenance, Interim Stabilization, KW Basin Characterization, as well as Sand and Garnet Filter Media Removal activities contributed to the decrease in the spending forecast. The 300 Area Projects FY2017 forecast decreased slightly in August due to some delays in equipment fabrication, but remains slightly over funding for the year due to acceleration of work scope.

Critical Path Schedule:

Critical Path Analysis can be provided upon request.

MILESTONE STATUS

Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) milestones represent significant events in project execution. RL Enforceable Agreement milestones were established to provide high-level visibility to critical deliverables and specific status on the accomplishment of these key events. The performance measurement baseline (PMB) annual update, implemented in September 2013, and subsequently approved baseline change requests (BCR), 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	Status/ Comment
M-016-00A	Complete all response actions for 100 Areas Except GW in M-016-00 and 100 K addressed in M-016-00C	3/31/2017	3/8/2017 (A)	Completed ahead of Schedule
M-016-164	Complete 100-N Interim Response Actions & Close 100-N Ancillary Facilities Area of Contamination	3/31/2017	3/8/2017 (A)	Completed ahead of Schedule

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.

DOE ACTIONS / DECISIONS

Description	CHPRC Delivery Date	Expected RL Due Date
RL/EPA Review & Approve Interim Backfill Concurrence for 618-10 Decision Unit #8	8/17/17 (A)	8/24/17
RL/EPA Review & Approve Interim Backfill Concurrence for 618-10 Decision Unit #1	8/29/17	9/4/17
RL/EPA Review & Approve Interim Backfill Concurrence for 618-10 Decision Unit #6	8/30/17	9/5/17
RL/EPA Review & Approve Interim Backfill Concurrence for 618-10 Decision Unit #7	9/1/17	9/7/17
RL/EPA Review & Approve Interim Backfill Concurrence for 618-10 Decision Unit #2	9/6/17	9/12/17
RL and Regulator Review of CVP and Waste Site Reclassification Form for 600-63 Waste Site	8/17/17 (A)	9/30/17
RL/EPA Review & Approve Interim Backfill Concurrence for 618-10 Decision Unit #3	9/26/17	10/2/17
RL and Regulator Review of CVP and Waste Site Reclassification Form for 316-4 Waste Site	8/21/17	10/4/17
RL/EPA Review & Approve Interim Backfill Concurrence for 618-10 Decision Unit #5	9/28/17	10/4/17
RL/EPA Review & Approve Interim Backfill Concurrence for 618-10 Decision Unit #11	9/29/17	10/5/17
RL/EPA Review & Approve Interim Backfill Concurrence for 618-10 Decision Unit #4	9/29/17	10/5/17
RL/EPA Review & Approve Interim Backfill Concurrence for 618-10 Decision Unit #10	11/15/17	11/21/17
RL/EPA Review of Closure Documentation for 600-393 Waste Site	10/20/17	12/3/17
RL/EPA Review & Approve Interim Backfill Concurrence for 618-10 Decision Unit #9	11/29/17	12/5/17
RL/EPA Review of Closure Documentation for 600-403 Waste Site	10/24/17	12/7/17
RL and Regulator Review of CVP and Waste Site Reclassification Form for 618-10 Burial Ground	3/7/18	4/20/18

Section G

Fast Flux Test Facility Closure (RL-0042)



R. M. Geimer
Vice President for
K Basin Operations and
Plateau Remediation

August 2017
CHPRC-2017-08, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

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

EMS OBJECTIVES AND TARGET STATUS

None currently identified.

TARGET ZERO PERFORMANCE

(Reported on a calendar month basis.)

	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

RL-0042 Accomplishments

- Performed the P-16 pump replacement installation, final inspections, and demobilized the contractor. Submitted purchase order for a new variable frequency drive required to operate the pump.
- Submitted and received labor determination on the Plant Forces Work Review (PFWR) to replace sections of the leaking fire suppression riser in the 481 Building. Development of a new engineering change request is underway.
- Obtained engineering consensus on anchoring the new 400 Area trailer being procured to a newly poured concrete slab with drop-in Hilti anchors.

MAJOR ISSUES

None currently identified.

RISK MANAGEMENT STATUS

No key risks currently identified.

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	0.2	(0.0)	-2.6%	(0.0)	-4.2%

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: (-\$0.0M/-4.2%)

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)	Estimate to Complete (ETC)	Variance at Completion (VAC)
Total	24.0	24.0	19.9	(0.1)	-0.3%	4.1	17.0%	26.5	23.0	3.1	3.5

Numbers are rounded to the nearest \$0.1 million

CTD Schedule Performance (-\$0.1M/-0.3%)

The schedule variance is within reporting thresholds.

CTD Cost Performance (+\$4.1M/+17.0%)

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

Variance at Completion (+\$3.5M/+13.2%)

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	FY2017		Variance
	Projected Funding	Spending Forecast	
Spending Forecast	3.9	2.1	1.8
Incremental Scope Pending Change Management	0.0	0.0	0.0
RL-0042 – Total	3.9	2.1	1.8

Numbers are rounded to the nearest \$0.1 million

Funds Analysis

Fiscal year (FY) 2017 projected funding for project breakdown structure (PBS) RL-0042 is \$3.9 million. The spending forecast of \$2.1 million is in line with the FY2017 budget at completion (BAC) of \$2.1 million.

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.

MILESTONE STATUS

None currently identified.

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.

DOE ACTIONS/DECISIONS

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



August 2017
CHPRC-2017-08, 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**

FORM APPROVED
OMB No. 0704-0188

1. CONTRACTOR		2. CONTRACT		3. PROGRAM			4. REPORT PERIOD	
a. NAME CH2M HILL Plateau Remediation Company		a. NAME Plateau Remediation Contract		a. NAME Plateau Remediation Contract			a. FROM (YYYYMMDD) 2017 / 07 / 24	
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE			b. TO (YYYYMMDD)	
		c. TYPE CPAF		d. SHARE RATIO			c. EVMS ACCEPTANCE NO X YES (YYYYMMDD) 2009 / 09 / 18	

5. CONTRACT DATA								
a. QUANTITY 1	b. NEGOTIATED COST 5,584,248	c. ESTIMATED COST OF AUTHORIZED UNPRICED WORK 209,074	d. TARGET PROFIT/FEE 241,381	e. TARGET PRICE 5,825,630	f. ESTIMATED PRICE 5,893,323	g. CONTRACT CEILING 5,825,630	h. ESTIMATED CONTRACT CEILING 5,893,323	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 5,585,502						c. SIGNATURE		d. DATE SIGNED (YYYYMMDD)	
b. WORST CASE 5,753,704									
c. MOST LIKELY 5,651,942		5,793,322		141,381					

8. PERFORMANCE DATA																
Control Account.PBS																
ITEM (1)	CURRENT PERIOD					CUMULATIVE TO DATE					REPROGRAMMING ADJUSTMENTS			AT COMPLETION		
	BUDGETED COST		ACTUAL COST WORK PERFORMED (4)	VARIANCE		BUDGETED COST		ACTUAL COST WORK PERFORMED (9)	VARIANCE		COST VARIANCE (12a)	SCHEDULE VARIANCE (12b)	BUDGET (13)	BUDGETED (14)	ESTIMATED (15)	VARIANCE (16)
	WORK SCHEDULED (2)	WORK PERFORMED (3)		SCHEDULE (5)	COST (6)	WORK SCHEDULED (7)	WORK PERFORMED (8)		SCHEDULE (10)	COST (11)						
RL-0011 Nuclear Mat Stab & Disp PFP	106	2,971	9,704	2,866	-6,733	980,283	953,167	1,054,338	-27,116	-101,171	0	0	0	980,454	1,087,967	-107,513
RL-0012 SNF Stabilization & Disp	5,288	4,991	4,006	-298	985	691,905	689,898	657,176	-2,006	32,722	0	0	0	740,588	704,337	36,251
RL-0013 Solid Waste Stab & Disp	9,082	9,762	7,205	680	2,557	1,181,521	1,183,824	1,104,749	2,303	79,075	0	0	0	1,349,606	1,272,793	76,813
RL-0030 Soil & Water Rem-Grndwtr/Vadose	-11,719	9,895	10,812	21,614	-917	1,395,548	1,379,829	1,347,262	-15,718	32,567	0	0	0	1,562,576	1,527,172	35,404
RL-0040 Nuc Fac D&D - Remainder Hanfrd	4,407	4,721	3,726	313	995	452,670	446,893	416,556	-5,776	30,338	0	0	0	489,675	466,953	22,722
RL-0041 Nuc Fac D&D - RC Closure Proj	10,409	9,864	8,846	-545	1,018	466,295	470,547	415,497	4,252	55,050	0	0	0	565,983	491,814	74,169
RL-0042 Nuc Fac D&D - FFTF Proj	167	163	170	-4	-7	24,041	23,978	19,903	-63	4,075	0	0	0	26,455	22,964	3,491
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														11,502	11,502	0
e. SUBTOTAL	17,741	42,368	44,469	24,627	-2,102	5,192,263	5,148,138	5,015,480	-44,125	132,657	0	0	0	5,726,839	5,585,502	141,337
f. MANAGEMENT RESERVE														66,439		
g. TOTAL	17,741	42,368	44,469	24,627	-2,102	5,192,263	5,148,138	5,015,480	-44,125	132,657	0	0	0	5,793,278		
9. RECONCILIATION TO CONTRACT BUDGET BASELINE																
a. VARIANCE ADJUSTMENT																
b. TOTAL CONTRACT VARIANCE																
										-44,125	132,657		5,793,278	5,585,502	207,776	

* In regards to RL-0041, CHPRC has implemented the River Corridor Closure Contract (RCCC) transitioned scope into the Performance Measurement Baseline (PMB) for Earned Value Management (EVM) reporting purposes. When the change orders (CO #304, #305, #306) are definitized, BCRs will be processed to align the PMB with the definitized values.

*CPR Format 1 displays fully burdened dollars which includes indirect G&A that is distributed to each Project

CLASSIFICATION (When Filled In)

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

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

FORM APPROVED

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) 2017 / 07 / 24	
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE		b. TO (YYYYMMDD) 2017 / 08 / 20	
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 ITEM (1)	CURRENT PERIOD						CUMULATIVE TO DATE					REPROGRAMMING ADJUSTMENTS			AT COMPLETION		
	BUDGETED COST		ACTUAL COST WORK PERFORMED (4)	VARIANCE		BUDGETED COST		ACTUAL COST WORK PERFORMED (9)	VARIANCE		COST VARIANCE (12a)	SCHEDULE VARIANCE (12b)	BUDGET (13)	BUDGETED (14)	ESTIMATED (15)	VARIANCE (16)	
	WORK SCHEDULED (2)	WORK PERFORMED (3)		SCHEDULE (5)	COST (6)	WORK SCHEDULED (7)	WORK PERFORMED (8)		SCHEDULE (10)	COST (11)							
34 - Env Program & Strategic Plng	1,048	1,084	750	36	334	74,093	74,004	68,175	-88	5,830	0	0	0	83,368	79,013	4,356	
35 - Business Services	0	0	735	0	-735	472,524	472,524	449,526	0	22,998	0	0	0	472,524	456,526	15,998	
36 - Prime Contract & Proj Integr	158	158	141	0	18	6,692	6,692	3,952	0	2,740	0	0	0	8,849	6,194	2,654	
3B - PFP Closure Project	106	2,971	8,964	2,866	-5,993	893,024	865,908	973,903	-27,116	-107,995	0	0	0	893,195	1,000,526	-107,331	
3C - Waste & Fuels Management Project	9,060	9,740	7,181	680	2,559	1,072,937	1,075,240	996,325	2,303	78,915	0	0	0	1,240,761	1,163,887	76,874	
3D - Soil & Groundwater Remediation	-12,814	8,764	10,024	21,578	-1,260	1,221,318	1,205,687	1,172,811	-15,630	32,876	0	0	0	1,378,422	1,341,362	37,060	
3G - K Basin Oper & Plateau Remediation Project	11,469	11,142	9,206	-327	1,936	1,337,434	1,335,033	1,254,736	-2,401	80,297	0	0	0	1,484,239	1,387,301	96,938	
3H - 618-10 and ERDF	4,959	5,892	4,132	933	1,760	75,133	76,690	59,007	1,557	17,683	0	0	0	100,012	84,511	15,501	
3J - Building 324 Disposition Project	3,756	2,617	3,337	-1,139	-720	39,108	36,359	37,044	-2,749	-686	0	0	0	53,967	54,680	-713	
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														11,502	11,502	0	
e. SUBTOTAL (Performance Measurement Baseline)	17,741	42,368	44,469	24,627	-2,102	5,192,263	5,148,138	5,015,480	-44,125	132,657	0	0	0	5,726,839	5,585,502	141,337	
f. MANAGEMENT RESERVE														66,439			
g. TOTAL	17,741	42,368	44,469	24,627	-2,102	5,192,263	5,148,138	5,015,480	-44,125	132,657	0	0	0	5,793,278			

* In regards to RL-0041, CHPRC has implemented the River Corridor Closure Contract (RCCC) transitioned scope into the Performance Measurement Baseline (PMB) for Earned Value Management (EVM) reporting purposes. When the change orders (CO #304, #305, #306) are definitized, BCRs will be processed to align the PMB with the definitized values.

CONTRACT PERFORMANCE REPORT															Form Approved OMB No. 0704-0188																															
FORMAT 3 - BASELINE															DOLLARS IN THOUSANDS																															
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: 2017/07/24 b. TO: 2017/08/20																																					
5. CONTRACT DATA																																														
a. ORIGINAL NEGOTIATED COST 4,312,366			b. NEGOTIATED CONTRACT CHANGE \$1,271,882			c. CURRENT NEGOTIATED COST (A + B) \$5,584,248			d. ESTIMATED COST AUTH UNPRICED WORK \$209,074			e. CONTRACT BUDGET BASE (C + D) \$5,793,322			f. TOTAL ALLOCATED BUDGET \$5,793,278			g. DIFFERENCE (E - F) \$44																												
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																																														
															BUDGETED COST FOR WORK SCHEDULED (NON - CUMULATIVE)																															
															SIX MONTH FORECAST																															
															FY09-13		FY14		FY15		FY16		FY17		FY18		UNDISTRIB BUDGET		TOTAL BUDGET																	
															(10)		(11)		(12)		(13)		(14)		(15)		(16)		(17)																	
															(4)		(5)		(6)		(7)		(8)		(9)																					
a. PM BASELINE																																														
b. BASELINE CHANGES AUTH DURING REPORT PERIOD																																														
BCR-012C-17-013R0, EVM Health Corrections for RL-0012 CAP Project																																														
BCR-013-17-020R0, Incorporate CO #322 IDF Revised Operational Requirements NTE Increase																																														
BCR-013-17-021R0, Incorporate CO #327 Accelerating Shipment of Sludge to TPlant																																														
BCR-013-17-022R0, Incorporate CO #314 Increase the NTE Cost Authority for OSA Closure Plan Revisions																																														
BCR-013-17-024R0, Incorporate CO #317, TPA Change M-91-15-01 Scope																																														
BCR-013-17-025R0, Incorporate NTE Increase for CO #310, SWOC Hazards Mitigation Activities (Upgrading CWC																																														
BCR-030-17-025R0, Unitlateral Definitization of CO #312 Biomob & Biointrusion																																														
BCR-030-17-027R0, Re-Plan 100 Area P&T Report and Annual GW Report FY2018																																														
BCR-030-17-028R0, Incorporate CO#318, Re-Plan NTE for 200-WA-1 & 200-BC-1 Characterization																																														
BCR-030-17-029R0, Move Unfunded RL-0030 Work Activities to Planning Package																																														
BCR-030-17-030R0, Convert UP-1 Chrome Remedy Planning Package to Work Package																																														
BCR-030-17-031R0, Convert 100-NR-2 Barrier Work Package to Planning Package																																														
BCR-030-17-032R0, Remove TPA Milestone M-015-112 and Defer Unfunded Work Activities to PP																																														
BCR-040-17-018R0 Incorporate CO #311 Activity B - REDOX Roof																																														
BCR-040-17-019R0 Incorporate CO #329 PUREX Tunnel																																														
BCR-041-17-036R0, RL-0041 Convert 100K Project Management and Support PP to WP																																														
BCR-PRC-17-036R0, Unilateral Definitization of CO #309 Develop and Submit PUREX DQOs																																														
BCRA-PRC-17-035R0, HPIC Updates August 2017																																														
BCR-PRC-17-034R0, Undistributed Budget Adjustments August 2017																																														
c. PM BASELINE (END OF PERIOD)															5,174,522		36,382		50,597		27,227		39,801		33,762		25,423		36,282		3,391,477		391,653		471,323		504,826		502,223		445,427		12,504		5,719,433	
7. MANAGEMENT RESERVE																																														
8. TOTAL																																														

* CHPRC has implemented the River Corridor Closure Contract (RCCC) transitioned scope into the Performance Measurement Baseline (PMB) for Earned Value Management (EVM) reporting purposes. When the change orders (CO #304, #305, #306) are definitized, BCRs will be processed to align the PMB with the definitized values.

CLASSIFICATION (When Filled In)

CONTRACT PERFORMANCE REPORT FORMAT 4 - STAFFING													FORM APPROVED OMB No. 0704-0188			
1. CONTRACTOR			2. CONTRACT				3. PROGRAM			4. REPORT PERIOD			Dollars in: FTE			
a. NAME CH2M HILL Plateau Remediation Company			a. NAME Plateau Remediation Contract				a. NAME Plateau Remediation Contract			a. FROM (YYYYMMDD) 2017 / 07 / 24			b. TO (YYYYMMDD) 2017 / 08 / 20			
b. LOCATION (Address and ZIP Code) Richland, WA			b. NUMBER RL14788		b. PHASE			c. EVMS ACCEPTANCE NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> (YYYYMMDD) 2009 / 09 / 18								
c. TYPE CPAF			d. SHARE RATIO													
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 SEPT 2017 (4)	+2 OCT 2017 (5)	+3 NOV 2017 (6)	+4 DEC 2017 (7)	+5 JAN 2018 (8)	+6 FEB 2018 (9)	2nd Qtr FY18 (10)	3rd Qtr FY18 (11)	FY18 (12)	FY19-LC (13)				
300 - Office of the President	7	717	6	6	6	6	6	6	6	6	6	6	18	18	0	795
303 - Internal Audit	5	468	5	5	5	5	5	5	5	5	5	5	15	15	0	533
304 - General Counsel	4	438	5	5	5	5	5	5	5	5	5	5	15	14	0	502
31 - Communications	10	1010	9	8	8	8	8	8	8	8	8	8	25	24	0	1118
32 - Safety Health Security & Quality	49	7092	58	52	55	55	55	55	55	55	55	55	165	160	0	7803
34 - Env Program & Strategic Plng	42	4768	43	47	49	48	46	47	47	47	47	47	139	135	0	5369
35 - Business Services	67	7622	62	65	68	68	68	68	68	68	68	68	205	200	0	8497
36 - Prime Contract & Proj Integr	70	4962	66	65	68	68	68	68	68	68	68	68	204	198	0	5834
38 - Project Technical Services	34	5540	40	33	35	35	35	35	35	35	35	35	105	102	0	5996
3B - PFP Closure Project	265	48986	249	261	90	51	20	20	17	0	0	0	0	0	0	49695
3C - Waste & Fuels Management Project	363	49322	342	301	303	304	304	301	300	903	893	366	903	893	366	53639
3D - Soil & Groundwater Remediation	313	35834	263	253	251	250	246	251	260	785	804	1375	785	804	1375	40574
3G - K Basin Oper & Plateau Remediation Project	388	46883	388	346	368	338	349	338	299	748	748	738	748	672	738	51467
3H - 618-10 and ERDF	125	1709	137	65	65	59	48	44	44	119	119	0	119	0	0	2290
3J - Building 324 Disposition Project	129	1454	121	87	62	52	46	39	38	111	108	0	111	108	0	2118
g. TOTAL DIRECT	1871	216808	1794	1600	1439	1353	1310	1291	1255	1255	3557	3342	2478	2478	0	236230

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) 2017/07/24		
b. LOCATION (Address and ZIP Code) Richland, WA 99354		b. NUMBER DE-AC06-08RL14788		b. PHASE Base		b. TO (YYYY/MM/DD) 2017/08/20			
		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:	17,741	42,368	44,469	24,627	138.8%	(2,102)	-5.0%	2.39	0.95
Cumulative:	5,192,263	5,148,138	5,015,480	(44,125)	-0.8%	132,657	2.6%	0.99	1.03
	BAC	EAC	VAC in \$	VAC in %	TCPI				
At Complete:	5,726,839	5,585,503	141,337	2.5%	1.02				
Explanation of Variance/Description of Problem:									
<p>Current Period Schedule Variance: The current month positive schedule variance is primarily due to project breakdown structure (PBS) RL-0030 August implementation of several baseline change requests (BCRs) to defer unfunded work activities into planning packages. Due to a lack of funding and project priority, scopes of work were not initiated in fiscal year FY2017 as planned. The work packages were converted into planning packages and the budgets moved from FY2017 to September 2018, causing an adjustment in the current month.</p> <p>Also contributing to the positive schedule variance is PBS RL-0011 working historical budgeted cost of work scheduled (BCWS) on discrete demolition activities (apportioned). The majority of the scope was originally planned to begin during the third quarter of 2016. However, delays in getting 236-Z ready for demolition negatively impacted the start of 236-Z demolition.</p> <p>The positive schedule variance is partially offset by PBS RL-0041 soil remediation in Waste Site Area AB at 100K that was completed ahead of schedule in prior months. In addition the 300-296 Project experienced delays fabricating the Remote Excavator Arm (REA) resulting from design changes, core drilling activities at the mockup are taking longer than planned due tolerance deviations and REC Airlock cleanout was impacted by training/proficiency of a new crew.</p> <p>Current Period Cost Variance: The current month negative cost variance is primarily due to PBS RL-0011 delay in completion of the PFP Project to achieve slab on grade. The delay is causing needed extensions of hotel load resources, without BCWS, to support the remaining D&D work scope until the facility becomes ready for demolition. Further, working historical BCWS for removal of focus decontamination, hazmat removal, and fixative applications requiring more effort than expected (apportioned). The variance is also attributed to additional insulators brought onto the project to support unplanned asbestos abatement. As delays in ready-for-demo activities have been recognized, continued waste support resources are required to support waste load-out and shipping efforts. The resources are expected to be needed through completion of demolition activities. Unplanned shipments to Perma-Fix Northwest (PFNW) for the size reduction of gloveboxes and E4 in 234-5Z caused additional costs to support ready-for-demo activities. Shipping the waste to PFWN helped realize schedule and safety improvements but has resulted in increased size reduction costs. Additional unplanned shipping materials (Waste shipping containers such as TL-1800s, SLB2s, IP-1 bags, etc.) were required to support waste loadout activities. In addition, recovery from contamination events during demolition of 236-Z contributed to this variance. Resources supported implementation of corrective actions, including expanding the demo boundary and relocation of equipment. Due to contamination found on trailers and vehicles (i.e., trucks, van, JLG Lift Equipment, generators, etc.) within the new demo boundary, the project unexpectedly had to purchase the previously leased facilities and vehicles.</p> <p>The current month negative cost variance is partially offset by PBS RL-0013 implementation of the M-91-05-01 Not-to-Exceed (NTE) Change Order 317 into the baseline, which resulted in a point adjustment for BCWS and BCWP of \$2.0 million for work that was completed and costed in a previous period; the remaining positive cost variance is the result of under runs, which are due to continued implementation of planned efficiencies.</p> <p>Cumulative Schedule Variance: The variance is within reporting thresholds.</p> <p>Cumulative Cost Variance: The variance is within reporting thresholds.</p>									
Impact:									
Current Period Schedule: The current month schedule variance is within reporting thresholds.									
Current Period Cost: Delays in achieving slab-on-grade for PBS RL-0011 is requiring both Minimum Safe, and D&D Project Management resources to remain on project without BCWS.									
Cumulative Schedule: N/A									
Cumulative Cost: N/A									

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

Corrective Action:

Current Period Schedule: The current month schedule variance is within reporting thresholds.

Current Period Cost: PBS-RL-0011 implemented tropical working shifts to mitigate future weather impacts. Projects will continue to utilize O.T. when appropriate to attempt schedule recovery.

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 the contract scope within budget and is currently projecting a Variance at Completion of \$141.3 million, with \$66.4 million of Management Reserve (MR), for a total positive variance of \$207.7 million. For August, the project was 138.8 percent ahead of schedule and 5.0 percent over planned cost. Contract to Date (CTD), the project was 0.8 percent behind schedule and 2.6 percent under planned cost.

There were 11 of the 19 BCRs in the period that impacted the PMB; BCR-013-17-020R0, Incorporate CO #322 IDF Revised Operational Requirements NTE Increase, BCR-013-17-021R0, Incorporate CO #327 Accelerating Shipment of Sludge to TPlant, BCR-013-17-022R0, Incorporate CO #314 Increase the NTE Cost Authority for OSA Closure Plan Revisions, BCR-013-17-024R0, Incorporate CO #317, TPA Change M-91-15-01 Scope, BCR-013-17-025R0, Incorporate NTE Increase for CO #310, SWOC Hazards Mitigation Activities (Upgrading CWC Lighting), BCR-030-17-025R0, Unilateral Definitization of CO #312 Biomob & Biointrusion, BCR-030-17-028R0, Incorporate CO#318, Re-Plan NTE for 200-WA-1 & 200-BC-1 Characterization, BCR-040-17-018R0 Incorporate CO #311 Activity B - REDOX Roof, BCR-040-17-019R0 Incorporate CO #329 PUREX Tunnel, BCR-PRC-17-036R0, Unilateral Definitization of CO #309 Develop and Submit PUREX DQOs, and BCR-PRC-17-034R0, Undistributed Budget Adjustments August 2017.

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 + \$141.3 million, +2.5% and is within reporting thresholds.

Format 1 and 3 Contract Data:

Contract Price Adjustments

CPS - In Process		
	Total Authorized Unpriced Work	\$209,074
Approved Adjustments to Contract Price (not reflected in B.4-1 Table)		
	Total Negotiated Cost Changes	-
	Grand Total Adjustments	\$209,074

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

Undistributed Budget Activity

BCR Number	Title	PBS	Fiscal Year	UB
BCR-PRC-17-032R0	<i>Undistributed Budget Adjustments July 2017</i>	RL-0012, RL-0013, RL-0040, RL-0041	2017-2018	\$2,124K

The Undistributed Budget increased by \$2,124K.

Management Reserve Activity

BCR Number	Title	PBS	Fiscal Year	MR
BCR-030-17-025R0	<i>Unilateral Definitization of CO #312 Biomobilization and Biointrusion Evaluation Sampling and Analysis Plan</i>	RL-0030	2017 – 2018	-\$288K
BCR-PRC-17-036R0	<i>Unilateral Definitization of CO #309 Develop and Submit to RL DQOs for Assessing Structural Integrity for PUREX Tunnels</i>	RL-0040	2017 – 2018	-\$64K

Overall, there was a decrease in Management Reserve (MR) of \$352K during August.

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

Fee Activity				
BCR Number	Title	PBS	Fiscal Year	Fee
BCR-030-17-025R0	<i>Unilateral Definitization of CO #312 Biomobilization and Biointrusion Evaluation Sampling and Analysis Plan</i>	RL-0030	2017 – 2018	\$23K
BCR-PRC-17-036R0	<i>Unilateral Definitization of CO #309 Develop and Submit to RL DQOs for Assessing Structural Integrity for PUREX Tunnels</i>	RL-0040	2017 – 2018	\$1K
Overall, there was an increase to the fee of \$24K during August.				
<p>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.</p>				
Prepared by: Project Control Staff		Date: 9/18/2017	Approved by:	Date:

** In regards to RL-0041, CHPRC has implemented the River Corridor Closure Contract (RCCC) transitioned scope into the Performance Measurement Baseline (PMB) for Earned Value Management (EVM) reporting purposes. When the change orders (CO #304, #305, #306) are definitized, BCRs will be processed to align the PMB with the definitized values.*

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

August 2017
CHPRC-2017-08, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

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

S. E. Johnson
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
17-EMS-ADMIN-OB1-T1	Reduce energy intensity.	Increase facility occupancy rates to greater than 83 percent by compressing occupancy and vacating underutilized facilities. Vacated/unoccupied facilities declared unusable and designated inactive; placed in Care Taker system.	9/30/17	20%
17-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 website.	10/9/17	48%
17-EMS-PTS-OB1-T1	Universal Waste, Recycling Compliance, Spill Prevention, and Satellite Accumulation Area Inspections.	Monitor and evaluate universal waste, other recycling, and satellite accumulation areas for compliance with CHPRC procedures and WAC 173-303 regulations.	9/30/17	88%
17-EMS-PTS-OB2-T1	Monthly chemical management inspection.	Ensure chemical products are accurately tracked, maintained, and excessed/disposed. Perform quarterly assessment on chemical inventory locations.	9/30/17	88%

TARGET ZERO PERFORMANCE

(Reported on a calendar month basis.)

	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	1	11	<ul style="list-style-type: none"> Employee exited a vehicle, stepped on a rock, and stumbled forward, striking forearm on mirror, resulting in contusion of right arm. (24582)
Near-Misses	0	0	N/A

KEY ACCOMPLISHMENTS

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

- There was one reported First Aid case during the month of August in the functional groups.
 - o Occupational Safety and Industrial Hygiene (OS&IH) accomplishments:
 - Supported development of an Industrial Hygiene Technician Fundamentals training program to be provided by HAMMER.
 - Provided technical support and management oversight to reduction and oxidation (REDOX) roof repair project.
 - Continued the Driver Awareness safety campaign.
 - Presented at the New Manager Overview course, reviewing relevant OS&IH topical areas.
 - Issued Special Safety Bulletin pertaining to adjustable height desks.
 - Performed technical reviews of Project Drill Packages.
 - o Radiological Control accomplishments:
 - Continued to provide Health Physicist support to the Waste Encapsulation and Storage Facility and Central Plateau Surveillance and Maintenance.
 - Completed reviews and approved Technical Evaluations (TEs) for:
 - Sludge Treatment Project and 100-K Closure Project Radiological Characterization Supporting Radiological Controls, Clearance and Workplace Air Monitoring.
 - Waste Encapsulation and Storage Facility Characterization, Dosimetry and Workplace Air Monitoring Sampling.
 - Plutonium Finishing Plant (PFP) Dosimetry Technical Basis Document.
 - T Plant Characterization Dosimetry and Workplace Air Monitoring.
 - Provided procedure transition and Project Point of Contact (PPOC) qualifications support to the Environmental Restoration Disposal Facility (ERDF) and 300 Area Projects.
 - Developed and presented River Corridor Closure Contract Transition strategy briefing to 324 Building management.
 - Provided drill package review support to Emergency Preparedness (EP) for 324 Building, Plutonium Extraction Facility (PUREX) and Solid Waste Operations Complex (SWOC).

- o Nuclear Operations Support & Compliance accomplishments:
 - Correspondence transmitted to Department of Energy Richland Operations Office (RL):
 - CHPRC-1701172.2, dated August 3, 2017, *Resubmittal of the 2017 Annual Update to the Plutonium Uranium Extraction Facility Documented Safety Analysis, CP-14977, Revision 10.*
 - Letter, CHPRC-1703049, dated August 9, 2017, *Transmittal of the Conceptual Safety Design Report for the Capsule Storage Area, CHPRC-03293, Revision 0, to RL for Review and Approval.*
 - Letter, CHPRC-1700081A R6, dated August 24, 2017, *Resubmittal of the 105KW Facility Documented Safety Analysis, PRC-STP-00946, Revision 0 and the 105KW Facility Technical Safety Requirements, PRC-STP-00992, Revision 0.*
 - Letters received from RL:
 - Letter, 17-NSD-0043_RL, dated August 14, 2017, *Approval of the 2017 Annual Update to the Plutonium Uranium Extraction (PUREX) Facility Documented Safety Analysis (DSA), CP-14977, Revision 10, the Unreviewed Safety Question Determination Summary, and the Fire Hazards Analysis for the PUREX Facility, CP-41822, Revision 2.*
 - Letter, 17-NSD-0040_RL, dated August 14, 2017, *Approval of the Hanford Sitewide Transportation Safety Document, DOE/RL-36-2001, Revision 2.*
 - Letter, 17-NSD-0039_RL, dated August 25, 2017, *Approval of the Annual Update to the “Documented Safety Analysis for the Fast Flux Test Facility,” FFTF-36419, Revision 4; the Unreviewed Safety Question Determination Summary for the Fast Flux Test Facility (FFTF); and the “Fast Flux Test Facility Complex Facility Fire Protection Assessment”.*
 - Letter, 17-NSD-0042_RL, dated August 25, 2017, *Approval of the Corrective Action Plan (CAP) to Improve CH2M HILL Plateau Remediation Company (CHPRC) Nuclear Safety Documented Safety Analyses and Technical Safety Requirements.*
 - Letter, 17-NSD-0045_RL, dated August 25, 2017, *Approval of the 2017 Annual Update of the Tank 241-Z-361 Safety Basis and Unreviewed Safety Question Determination (USQD) Summary.*
 - Other:
 - Declared PFP criticality incredible per CSER 15-002, Revision 4, on August 22, 2017.
 - Completed CSER 17-002: Criticality Safety Evaluation Report for Grouting PUREX Tunnel 1, CHPRC-03416, Revision 0.
 - Completed transition of 234-5Z into DSA demolition phase.
- o Contractor Assurance Regulatory Reporting (CARR) accomplishments:
 - 203 Condition Reports (CRs) were screened:
 - One significant issue identified.
 - Two adverse issues identified.
 - 92 Track Until Fixed issues identified.
 - 41 Trend Only items identified.
 - 58 Opportunity for Improvement (OFI) items identified.
 - Nine Screened Out.
 - 265 CRs administratively closed.
 - 423 CRs actions administratively closed.
 - Providing full time support to PFP Issues Management and Occurrence Reporting activities.
 - Completed Apparent Cause Evaluation for and transmitted Final Occurrence Reporting and Processing System (ORPS) report EM-RL--CPRC-ERDF-2017-0004, *Discovery of Radiologically Contaminated Plastic.*
 - Transmitted Notification ORPS reports: EM-RL--CPRC-PFP-2017-0014, *Vehicle Strike During Flood Response*; EM-RL--CPRC-ERDF-2017-0005, *Occupational Injury.*
 - Provided course 600082, *Responsible Manager, Issues Manager*, to eleven employees.

- Provided support for the upcoming Defense Nuclear Facility Safety Board (DNFSB) review of the 300-296 Soil Removal Project and DNFSB Structural Engineers review of the PUREX Tunnels path forward.
- Eighteen documents were provided in response to DNFSB requests for information.
- Provided support to the DNFSB Hanford Site representatives.
- Two external Lessons Learned were submitted to OPEXShare in August 2017: 2017-RL-HNF-0019, *Lessons learned from W-130 Project Radiological Planning*; 2017-RL-HNF-0020, *Testing of Membrane Equipped Filters to Reduce Corrosion in Stored Drums*.
- Two internal Lessons Learned were submitted to OPEXShare: 2017-W&FMP-0008, *Consolidated Lessons Learned for the W-130 Waste Encapsulation Storage Facility Stabilization and Ventilation Project*; 2017-RL-HNF-0021, *Premature Resumption of Work Can Place Health and Safety of Personnel at Risk*.
- o Performance Oversight, Assessment, and Quality Assurance accomplishments:
 - Issued assessment plan and performed in-field activities for the 10 CFR 835 Subpart L “Radioactive Contamination Control,” surveillance scheduled for August through September.
 - Initiated surveillance SHS&Q-2017-SURV-16460, “Assessment of the Adequacy, Effectiveness, and Implementation of NQA-1, Requirement 2.14 – Quality Assurance Requirements for Commercial Grade Items and Services.”
 - SHS&Q-2017-WSA-18846, “Delegation of Authority, completed/approved addressing for closure, CR-2016-1373, F05 - Delegations of Authority are Not Classified as QA Documents.”
 - Provided coaching/mentoring of Project Assessment Coordinators for FY2018 assessment planning.
 - Provided specific mentoring and feedback to assessors and responsible managers that conducted management assessments.
 - Facilitated Assessment Planning Workshop for the 324 Building, ERDF, and 618-10 Project Assessment Coordinator.
 - Completed SHS&Q-2017-SURV-17848, “Review and closure of ‘old’ (greater than 4 years) of Non-Compliance Reports (NCRs).”
 - Issued updated Quality Assurance Engineer Qualification Card.
 - SHS&Q-2017-WSA-19495, “Subcontractor Surveillances and Communication, field work complete, final report in progress.”
 - PRC-PRO-QA-301, *Control of Suspect/Counterfeit and Defective Items*, Revision 1-0 issued.
 - PRC-PRO-QA-283, *Control of Inspections*, minor change in progress.
 - Improvements to Electronic NCR in progress, first improvement is pending testing.
 - PRC-PRO-QA-298, *Nonconforming Items*, Revision 3-0 issued.
- o Fire Protection (FP) accomplishments:
 - Provided support for PFP emergency response for a water leak.
 - The FP procedure roll-out is still in progress, and Project Reviews of the procedures are being addressed through PPS.
 - The following Technical Safety Requirement (TSR) activities were completed:
 - SWOC:
 - o 2X-17-03437 - CWC quarterly combustible surveillance.
 - PFP:
 - 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 These inspections were the last performances of PFP TSRs.

- Facility Hazards Analysis (FHA):
 - The SWOC and T Plant FHAs are in a minor revision based on comments by RL.
 - 324 Building FHA is under review by the Hanford Fire Marshal's Office.
 - There were 12 Facility Fire Protection Assessments completed in August.
- SHS&Q Focus Areas:
 - **Issue:** Beryllium program assessment findings from Department of Energy (DOE-HQ), Office of Safety, Health and Security Independent Oversight Inspection report.
 - **Status:** Revision 4 continues to be developed by the Hanford Beryllium Committee; Revision 3 has been pulled back by RL.
 - **Action:** Beryllium facility assessments and characterization remain on schedule. Beryllium facility assessments have been completed on 1,476 CHPRC facilities.
 - **Issue:** Accident & Injury Reduction.
 - **Status:** Continue investigating recordable, days away, restricted, or transferred (DART), and first aid injuries to determine cause, prevention, and reduction to prevent recurrence. Project safety campaigns are being effective.
 - **Action:** Injury trends continue to improve across the PRC.
 - **Issue:** PFP support.
 - **Status:** Supporting PFP and other projects with dedicated OS&IH personnel and Radiological Control personnel, from the SHS&Q Central group for Senior Supervisory Watch of high-risk work activities and other project work activities.
 - **Action:** Continuing senior supervisory watch for PFP demolition activities based on specific hazard activities in coordination with PFP management.
 - **Issue:** Fire Protection program improvements.
 - **Status:** CHPRC Fire Protection personnel are actively interfacing with Hanford Fire Department (HFD) and RL regarding Fire Protection program improvements related to fire hazard analyses.
 - **Action:** Weekly fire protection program status and initiatives presented each week to the SHS&Q Vice President continue to show improvement.

Environmental Program and Strategic Planning (EP&SP)

- **Environmental Protection**
 - **Compliance Status**
 - CHPRC and RL received an Administrative Order (AO) from the Washington Department of Ecology on May 10, 2017, (17-NWP-053; Order Docket 14156) in response to the PUREX Tunnel partial collapse discovered on May 9, 2017. CHPRC is leading the corrective action response team and working collaboratively with RL to develop and deliver the three corrective actions required by the AO. The first corrective action (structural integrity evaluations for PUREX Tunnels 1 and 2) was submitted to Ecology on June 29, 2017, to meet the AO requirement. The second corrective action (actions to ensure safe storage of waste in PUREX Tunnels 1 and 2) was submitted to Ecology on August 1, 2017, to meet the AO requirement. The third corrective action (draft updates to RCRA permit sections) is on schedule for delivery by the October 2, 2017, due date.

Business Services

- **Supply Chain:**
 - Outreach with a local small business to discuss upcoming environmental management/engineering opportunities for fiscal year (FY) 2018.
 - Performed product search for a particular high-efficiency particulate air (HEPA) filter that will be used as part of the PUREX Tunnel 1 work during placement of the engineered grout. Coordinated the transfer of three HEPA filters identified from Washington River Protection Solutions LLC (WRPS) to CHPRC.

- o Assisted in the development of the acquisition plan for the PUREX Tunnel 1 investigations, support, and construction work.
- o Identified the WRPS point of contact for the PUREX Tunnel Stabilization Project to acquire needed air sample analysis services during project performance.
- o Worked with personnel from the Waste and Fuels Management Project on extending a subcontract due to delayed schedule to commence with the T Plant readiness assessment.
- o Revised the Subcontractor Oversight Procedure forms to strengthen project involvement in the oversight process.
- o Held a teleconference with members of US Bank to discuss their purchasing card program. The program is being considered for use. It provides larger rebates and is a recognized form of strategic sourcing and transactional savings.
- **Facilities & Property Management (F&PM):**
 - o The FY2017 Inventory campaign continues – 90.21 percent complete to date.
 - o Move planning/execution for RL and CHPRC between the Federal Building and 2420 Stevens Center Place is nearing completion. All CHPRC moves to the Federal Building were completed in July 2017. Some CHPRC personnel remain in temporary offices. Approximately 15 environmental team members will move to final permanent offices in September. Approximately 15 to 20 CHPRC finance and S&GW project support members will move to final permanent offices in October. Federal Building configuration is anticipated to be complete in October 2017.
 - o Support to new shower trailer for S&GRP Drilling and Sampling Operations at Waste Sampling and Characterization Facility (WSCF) continues. Electrical hookup planned for the first week of September.
 - o New five-wide trailer at WESF (MO-199) has been completed and turned over to Waste and Fuels. Occupancy is approved, and the trailer is now operational.
 - o MO-885 from 618 Project will be demobilized and returned to vendor. PTS is currently proceeding with request for trailer return.
 - o MO-806 moved and set-up at PUREX facility. Occupancy is approved, furniture is installed, and the trailer is operational.
 - o Continued initial planning to relocate seven mobile trailers from PFP to be setup at REDOX.
 - o Continued planning/purchasing requirements with D&D on setup of two double-wide job trailers and one shower/restroom/change trailer that will support demolition of RTL labs.
 - o Transferred plastic shop space in Building 2101M from PFP to Central Plateau Surveillance and Maintenance (rooms 211G/211M) for use as a maintenance shop.
- **Finance:**
 - o August month-end completed with no cost suspensions.
 - o Construction Work in Progress (CWIP) reconciliation is continuing.
 - o Submitted the FY2017 Management Representation letter on August 2, 2017. Submitted the final version of FY2018 rates on August 3, 2017.
 - o Provided relevant backup for all samples for the Cohn Reznick audits of Change Proposals 304, 305, and 306.
- **Human Resources (HR):**
 - o Workforce Restructuring:
 - Opened and conducted a self-select program for employees in specific classifications.
 - Conducted three self-select information sessions.
 - o The Intern Day led by HR staff members on July 25, 2017, was a great success. About 25 interns and 5 co-op students from various backgrounds and schools across Washington, Idaho, Oregon and Montana gathered to participate in a morning meet-and-greet session that included discussions by Ty Blackford, Ray Geimer, and Peter Diaz. Interns later had an opportunity to tour the historic Hanford B Reactor, where they grew an appreciation for the history of the site and the influences of our cleanup missions today.

- o August marked the CHPRC JuMP Network's one-year anniversary, which was celebrated by JuMPers at a celebration event. In one year alone, JuMP has inspired 158 employees to attend their 10 events. JuMP has achieved their goals of attracting a wide range of employees by targeting motivated individuals with interests in several different areas such as development, networking, community service, and health and wellness. In the years to come, they hope to continue bringing participants on board, gain additional supporters, and make an even greater impact within the company, individuals, and the community.
- **Labor Relations (LR):**
 - o The following is the current status of grievances in the Arbitration Process:
 - RC-015-011 – union claiming misassignment of work in regard to respirator maintenance. Status: Arbitration scheduled for October 11, 2016, was postponed by mutual agreement as parties work to reach settlement in the matter. CHPRC continues to await a response from the Union on the company's settlement proposal.
 - PRC-016-044, 049, and 050 – termination. Status: Arbitration scheduled for April 25 and 26, 2018.
 - PRC-016-059 – failure to meet CHPRC pre-employment screening. Status: Arbitration scheduled for November 1, 2017.
 - PRC-017-010 – union claiming employee should have been paid between when he was ready to return to work and when he started with Mission Support Alliance, LLC (MSA), as CHPRC did not have an open position when he returned. Status: Arbitration scheduled for February 28 and March 1, 2018.
 - o Labor Relations continues to support Work Force Restructuring activities for affected bargaining unit employees working with all of the CHPRC projects and the other Hanford contractors to coordinate staffing needs and skills mix issues, and provide opportunities for affected employees.
- **Procurement:**
 - o Awarded/amended 155 contracts with a total value of \$9.29 million. Additionally, awarded 226 new material purchase orders (PO) valued at \$1.4 million to support ongoing project objectives.
 - o At the end of the first 107 months of the CHPRC project, procurement volume has been significant; \$2.57 billion in contract activity has been recorded with approximately 55.17 percent, or \$1.42 billion, in awards to small businesses. These awards include 7,843 contract releases, 23,662 POs, and 281,883 PCard transactions.
 - o Major contract awards:

Contract/Release	Award Date	Awarded To	Title	Contract Type	Value
44438-59	8/7/2017	DGR Grant Construction Inc.	PUREX Engineered Grout Test Flume/Grout Test	FFP	\$ 22,981.00
63814	7/27/2017	Columbia Energy & Environmental Services Inc.	Water Delivery System For The 300-296 Remote Soil Excavation Project	T&M	\$ 66,717.00
63837	8/31/2017	Contech Engineered Solutions LLC	Engineered Grout Access Platform	FFP	\$ 117,850.00
44438-58	7/24/2017	DGR Grant Construction Inc.	Relocate MO-806	FFP	\$ 249,578.00
61180-2	7/25/2017	Nac International Inc.	Task 2 - Preliminary Design Of CSS For MCSC Project	T&M	\$ 1,840,563.11
55705-5	8/8/2017	Intermech Inc.	PUREX Tunnel Investigation, Support, and Construction	FFU	\$ 2,803,151.77

FFP – Firm Fixed Price

FFU - Firm Fixed Unit Price

T&M - Time and Materials

Prime Contract and Project Integration (PC&PI)

- **Prime Contract Compliance (PCC):**
 - In August, PCC received and processed five contract modifications (616-618, 620, 621) from RL.
 - The Correspondence Review Team received and determined the distribution for 59 incoming letters/documents. The PCC Manager reviewed 40 outgoing correspondence packages.
 - Issued CHPRC-1703021AR1 – *Impact Analysis for Contract Requirements Document 232.2A (Supplemented Revision 0), “Occurrence Reporting and Processing of Operations Information.”*
 - Issued CHPRC-1703855 – *“Request for Excusable Delay Due to Fire.”*
 - Issued CHPRC-1703828 – *“Notification of Potential Change and Impact to Completion of Hanford Federal Facility Agreement and Consent Order Milestone M-015-093C.”*
 - Issued CHPRC-1704144 – *“Notification of Differing Site Condition at the Plutonium Finishing Plant – Failure of Aging Water Line.”*
- **Integrated Services**
 - **Estimating & Program Support**
 - Four Change Proposals/Request for Equitable Adjustments (CPs/REAs) were submitted to RL in August 2017:
 - CP 040 329 1657 - PUREX Tunnel Recovery and Stabilization, submitted August 24, 2017.
 - CP 040 PRC 1660 - Hanford Site Resource Conservation and Recovery Act (RCRA) Revision 9, submitted August 14, 2017.
 - CP 013 PRC 1663 - Central Waste Complex and Waste Receiving and Processing Facility Roof Integrity, submitted August 29, 2017.
 - CP 013 PRC 1664 – Management of the Plutonium Finishing Plant (PFP) Waste, submitted August 30, 2017.
 - Twenty-seven CPs/REAs have been submitted in FY2017 to-date, 25 on or ahead of schedule, with two CPs/REAs submitted late.
 - Began/continued development of five CPs/REAs:
 - CP 040 PRC 1658 - U Plant Demolition Deductive Proposal.
 - CP 041 PRC 1662 - 100K FY2018 Waste Site Remediation Activities.
 - REA 011 PRC 1661 - Plutonium Finishing Plant Cost and Schedule Impacts as a Result of 242Z Criticality Alarm.
 - REA 011 PRC 1665 - Plutonium Finishing Plant Cost and Schedule Impacts from Unusually Severe Winter Weather.
 - REA 011 PRC 1666 - Plutonium Finishing Plant Cost and Schedule Impacts Associated with Additional Asbestos Abatement.
 - Supported five Truthful Cost or Pricing Data (TCoPD) evaluations/updates for CPs/REAs:
 - CP 041 306 1615 – Surveillance & Maintenance Sites River Corridor Closure Contract (RCCC) Transition Add-Ons, determined to be “no update required” on August 2, 2017.
 - CP 040 313 1611 - Removal of Building Slabs for the 236-Z and 242-Z Facilities (characterization only), submitted to RL on August 14, 2017.
 - CP 013 317 1631 - Compliance with Tri-Party Agreement Milestone Change Control Form M-91-15-01, update to include RL-030 deduct in September.
 - CP 041 319 1640 - Garnet Filter Media Removal, to be provided to Contracts in September.
 - CP 040 324 1641 - Miscellaneous Project Breakdown Structure (PBS) RL-040 Work Scope, to be provided to Contracts in September.
 - Supported RL requests for information (RFIs) for five CPs/REAs:
 - CP 041 305 1616 - 300-296 Waste Site Design Change, Initiate Procurements, Initiate Testing, and Initiate Removal of Debris.

- CP 040 306 1596 - 618-10 Burial Ground.
- CP 041 307 1621 - 100K Additional Tons FY2016 and FY2017, submitted August 2, 2017.
- CP 041 319 1640 - Garnet Filter Media Removal, all responses submitted August 3, 2017.
- CP 041 328 1656 - 300-296 Waste Site Additional Scope, submitted August 10, 2017.
- Miscellaneous estimating support:
 - Continued to support the RL directed audit of the CHPRC Change Proposals associated with the former RCCC scope transitioned to CHPRC, being performed by Cohn Reznick. The change orders (COs) associated with CHPRC's RCCC replaced Change Proposals include CO 304, *Initiate Transition of River Corridor Contract (RCC) Scope Activities into the Plateau Remediation Contract (PRC)*, CO 305, *300-296 Waste Site Design Change, Initiate Procurements, Initiate Testing, and Initiate Removal of Debris*, and CO 306, *Remainder of RCC Project Transition Activities*.
- o **Interface Management:**
 - Interfaces (Technical, Administrative, and Regulatory):
 - Communications between WRPS at 222-S and CHPRC's efforts at REDOX included communications related to the second application of polymeric barrier system, and asbestos abatement completion on the REDOX silo. CHPRC attends bi-weekly interface/communication meetings with WRPS at 222-S.
 - Continued coordinating multi-contractor responses and impacts related to the PUREX Tunnel recovery actions. August actions included coordinating the use of the regulated "guzzler" truck to assist in precision excavation.
 - Attended the Management debrief on the HANDI Procurement and Usage Based Services Reporting Workshop. Provided information and support to a follow-on action from the workshop related to improving HANDI labor reporting capabilities for crane and rigging and motor carrier.
 - Presented a clarified MSA/CHPRC Issue Resolution Process to the primary MSA/CHPRC service interfaces to help elevate/resolve issues to Senior Management, as necessary.
 - Participated in a Quality Assurance discussion related to establishing a process to return Green Tagged products/equipment to the warehouse for redistribution. A path forward was reached after realization of a similar process internal to MSA that CHPRC will use as a template for an internal CHPRC procedure/desk instruction.
 - Working on a request from MSA Infrastructure representatives to borrow a CHPRC regulated excavator for use on a MSA Sewer System Upgrade project that will traverse several waste sites on its proposed cross site route.
 - Received the annual MSA Snow Removal Plan for review. Coordinating CHPRC Project reviews and comments to provide feedback to MSA in September.
 - Annual Forecast of Services:
 - Supported CHPRC Projects to finalize the FY2018 service forecast; a final forecast is planned for submittal to MSA in September.
 - Continued flow of communication/requests for MSA resources, as required by emerging project needs. During August, PFP's schedule changes required increased communication with MSA service managers.
 - Inter-Contractor Issue Resolution:
 - Incorporated final, internal comments for the Administrative Interface Agreement (AIA) developed to capture concerns related to new MSA infrastructure crossing over, under,

- and through waste management units/sites slated for near-term remediation and the MSA actions required to cross through these sites.
- Requested and received confirmation from MSA Hanford Fire Department (HFD) regarding replacement costs of equipment lost during event responses at PFP.
 - Temporarily resolved fire watch support for CHPRC facilities south of the Wye Barricade during the MSA Radio Fire Alarm Reporter (RFAR) outage. Since the outage need is based on the MSA HFD-owned RFAR unit, the fire watch will be handled as a base service by MSA HFD.
- Controlling and Service Agreements:
- Published HNF-48239, Revision 6, *Roles and Responsibilities for the Safeguards and Security Program, Administrative Interface Agreement between CHPRC and MSA for Safeguards and Security Services*.
 - Consolidated CHPRC comments related to the revision of HNF-47924, Revision 0, *Administrative Interface Agreement for Hanford Site Electrical Utilities Operations and Maintenance Interface with Soil and Groundwater Remediation Project Pump and Treat Process Lines*, and sent back to MSA for review and disposition.
 - Sent nine Service Delivery Documents (SDDs) out for review and comment during the month of August.
 - Completed a CHPRC review of two SDDs and provided a response to MSA.
- J.3 Table Maintenance:
- No performance level actions occurred within the month of August 2017.
- J.13 and J.14 Tables Maintenance:
- Provided MSA with a proposal to transfer 200 East Area water distribution supply components (2902HV80 Tank and 2902HV Pump) to MSA Water Utilities for future operation and maintenance, as needed by the site. MSA responded in August that their Water Utilities organization does not have a current or future mission for these systems in providing 200 Area water distribution for the Other Hanford Contractors. CHPRC has notified WRPS of the MSA response in order to confirm no current or future need is required.
 - Confirmed with Prime Contracts that the Horn Rapids Landfill waste site has been transitioned to MSA Long Term Stewardship. The site is being tracked for update in the next J.14 revision.
- Internal Operations:
- Two document revisions remaining related to the RCCC scope transfer to CHPRC. Involved parties include Pacific Northwest National Laboratory (PNNL), and MSA. One revision (300 Area Utilities) was finalized and is waiting for MSA to route for signature. The other is a major revision (environmental data integration) that is about 50 percent complete – no progress was made due to emerging work and competing priorities.
 - Prepared a proposed strategy for CHPRC craft supporting training development on the Comprehensive Beryllium Disease Prevention Program.
 - Closed out 300-296 project team concerns with an MSA Information Technology project cost over runs. Negotiated a cost credit with the MSA Information Technology Vice President regarding a lapse in all of the project costs being estimated and communicated to the 300-296 team. CHPRC appreciated the response and recognizes this as a good leadership example by the MSA Vice President.
 - Participated in an ERDF operations and maintenance tour.
 - Facilitated transfer of the Plastic Shop space from PFP to CPS&M. Space to be re-utilized to improve CPS&M maintenance/shop working conditions.

- Provided PRC Contract interpretation to project staff regarding Underground Injection Control (UIC) Wells ownership. No specific contract language exists, however, MSA does coordinate all of the site regulatory reporting.
 - **Information Management:**
 - Processed 31,213 Electronic Records into the Integrated Document Management System (IDMS).
 - Completed testing of Document Review and Concurrence (DRC) workflow. The DRC will be used for routing and approval of outgoing correspondence beginning in September 2017.
- **Project Integration**
 - During August, Project Integration facilitated and supported the processing of 19 baseline change requests (BCRs).
 - Co-Hosted a joint Energy Facility Contractors Group (EFCOG)/U. S. Department of Energy (DOE) Office of Project Management Oversight and Assessments (PM-30) Workshop to support development of PARSIIe Flat Files currently under development. Flat Files will be used to support Earned Value Management System (EVMS) automated data compliance testing for contractors implementing self-governance.
 - Provided review and comment to the DOE PM-30 EVMS and Change Control Management Handbooks.
 - Implemented a new report developed to monitor consistency between the Performance Measurement Baseline (PMB) Integrated Master Schedule (IMS) and the cost system (Cobra).
- **Program Integration**
 - **000 Project EVM Support:**
 - Prepared and finalized General & Administrative Rate (G&A) cost and base, and submitted to Finance Forward Pricing Rate letter sent August 3, 2017, to RL.
 - Finalized indirect FY2018 funding scenarios and potential impacts.
 - Finalized BCR-041-17-036R0, *Convert 100K Project Management and Support Planning Package to Work Package* to draw BCWS from RL-0041 planning package to fund Strategic Management activities.
 - Finalized BCR-013-17-026R0, *RL-0013 Revise EVM Type for Be Program Support* to change Earned Value Management type for beryllium activity in RL-0013; will process in September.
 - Prepared and submitted July Indirect Project Review.
 - **Risk Management and Reporting:**
 - Issued the CHPRC July Monthly Performance Report to RL.
 - Conducted Internal Project Team package for July performance data.
 - Conducted Project Reviews for July performance data.
 - Provided PC&PI input into Contractor Assurance System (CAS) July Report.
 - Issued CHPRC July Corporate Program Performance report.
 - Supported development of the CHPRC July Monthly Highlights to the Nuclear Business Group.
 - Supported risk/uncertainty analysis for PUREX Tunnel recovery actions and RCRA Revision 9 Change Proposal.
 - Supported schedule health checks to support the FY2018 Annual Risk Analysis.
 - **Strategic Management:**
 - In August, Strategic Management conducted a second partnering workshop with RL focusing on risk and strategy from aging infrastructure. As part of this workshop, an overall strategy was developed and proposed, along with various products such as detailed area maps with

- risks identified. The workshop and follow-on discussions focused on workscope to avoid future risks from collapses such as the PUREX tunnels. Strategic management took the lead in preparing for a workshop on aging infrastructure and near-term/long-term priorities.
- Produced a joint RL-CHPRC Integrated Priority List (IPL) that will outline the FY2018 priorities. As part of this effort, extensive work was done to detail estimated work costs based on the PMB submittal, as well as FY2019 costs. In addition, several meetings were held with RL to discuss work categories and priorities.
 - Continued the Long Range Plan (LRP) effort as part of the PMB deliverable for this year. During August, strategic management supported RL review comments, as well as resolving additional items. The LRP includes detailed scope through FY2020 and a higher-level scope through FY2022. Strategic management supported various projects in this effort and provided resources to track changes to the LRP to ensure accurate accounting as FY2018 begins.
 - Held a Productivity Tracking Log meeting with the projects in August. Discussed company-level metrics, and the projects briefed their metrics of productivity delays and efficiencies. Continued an improvement initiative to ensure the process provides key data and decision making information back to project stakeholders, including meetings with KBO&PR and W&FM.
 - Updated CHPRC project 2-5-10 year goals to support ongoing priority discussions between CHPRC and RL.
 - Compiled information for an upcoming Pilot Test on the Extent of Conditions of Excess Hazard Category I and II Facilities. As part of the support to RL on this upcoming visit in September, a background information packet was assembled for the Headquarters Review Team, and presentations drafted for this two-day visit.

PTS

- Engineering Services
 - o Participated in the preparation of a charter for the Hanford Workplace Electrical Safety Board.
 - o Facilitated the evaluation of fuses in facility transmission and distribution power lines with regard to the impacts on released arc flash analyses.
- Operations Program
 - o ConOps/Work Control/Conduct of Work
 - Conducted Work Control managers quarterly meeting.
 - Conducted Doing Work Safely class.
 - Obtained approval on the revised General Industrial Hazards Analysis and all Craft Specific Hazards Analysis.
- Emergency Preparedness (EP)
 - o Revised four Building Emergency Plans (BEP)/Facility Response Plans (FRP) to the new Template format and placed DRAFT format per RL contract direction. This is in support of the renewal of the Hanford Site Dangerous Waste Permit.
 - o Emergency Preparedness (EP) Coordinator qualification card review and EP Training validation published.
 - o Updating BEP/FRPs for RL directed Resource Conservation and Recovery Act of 1976 (RCRA) Permit change. Transmittal letter issued September 5, 2017, for initial four BEPs, remaining to be transmitted October 5, 2017.
 - o Completed Training Revision of Facility Emergency Response Organization refresher course (600230).

Communications

- Communications supported RL in developing presentations for the Oregon Hanford Cleanup Board. Presentations included PUREX, PFP, and Hanford Cleanup Priorities. Communications supported RL in the development of several social media posts, including:
 - o K Basin Operations and Plateau Remediation Project.
 - o Sludge Treatment Project is more than 50 percent complete toward acceptance testing.
 - o Updates on demolition activities at PFP.

PROJECT BASELINE PERFORMANCE

Current Month

(\$M)

WBS 000 Project Services and Support	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)
Office of the President	0.1	0.1	0.2	0.0	0.0%	0.0	-9.1%
Internal Audit	0.1	0.1	0.1	0.0	0.0%	0.0	-3.1%
General Counsel	0.1	0.1	0.1	0.0	0.0%	0.0	36.2%
Communications	0.1	0.1	0.1	0.0	0.0%	0.0	-35.9%
Safety, Health, Security, and Quality	1.2	1.2	1.0	0.0	0.0%	0.2	16.9%
Environmental Program and Strategic Planning	0.5	0.5	0.3	0.0	0.0%	0.1	30.6%
Business Services	1.9	1.9	2.0	0.0	0.0%	(0.1)	-3.8%
Prime Contract and Project Integration	1.9	1.9	1.7	0.0	0.0%	0.2	11.4%
Project Technical Services	0.6	0.6	0.6	0.0	-0.2%	0.0	-2.6%
Indirect WBS 000 Total	6.6	6.6	6.1	0.0	0.0%	0.5	7.3%

Numbers are rounded to the nearest \$0.1 million.

Indirect WBS 000

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

The variance is within reporting thresholds.

CM Cost Performance: (+\$0.5M/+7.3%)

The CM positive cost variance is primarily due to lower-than-planned on-demand services for information resource, technology management support, and document control support. Also contributing to the positive cost variance is open vacancies in the PC&PI, SHS&Q, and Environmental Program & Strategic Planning organizations.

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	1.6	1.6	1.7	0.0	0.0%	(0.1)	-6.0%	1.8
Internal Audit	10	1.0	0.8	0.0	0.0%	0.3	26.6%	1.2
General Counsel	1.3	1.3	1.1	0.0	0.0%	0.3	20.4%	1.5
Communications	0.9	0.9	1.1	0.0	0.0%	(0.2)	-18.7%	1.1
Safety, Health, Security and Quality	13.9	13.9	11.6	0.0	0.0%	2.3	16.5%	15.7
Environmental Program and Strategic Planning	5.2	5.2	4.1	0.0	0.0%	1.1	21.6%	5.9
Business Services	21.4	21.4	21.8	0.0	0.0%	(0.4)	-2.1%	24.1
Prime Contract and Project Integration	21.8	21.8	19.3	0.0	0.0%	2.4	11.2%	24.5
Project Technical Services	6.7	6.7	6.4	0.0	0.3%	0.3	4.5%	7.5
Indirect WBS 000 Total	73.9	73.9	67.9	0.0	0.0%	6.0	8.1%	83.4

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: (+\$6.0M/+8.1%)

The FYTD positive cost variance is primarily due to continued lower-than-planned on-demand services for information resource and technology management support, as well as lower-than-planned subcontractor cost for document control support. Also contributing to the positive cost variance is open vacancies in the SHS&Q and Environmental Program & Strategic Planning organizations. Additionally, the National Beryllium Program has experienced a decrease in activity as the Beryllium Corrective Action Plan has concluded and the Awareness Group meetings are required less frequently.

FY2017 G&A Analysis (\$M)

WBS 000 Project Services and Support	FY 2017					
	FYTD	FYTD	FYTD	FY2017	FY2017	FY2017
	BCWS	Actual	Variance (O)/U	BCWS	Forecast	Variance (O)/U
General & Administrative (G&A)	73.9	67.9	6.0	83.4	77.7	5.6
Office of the President	1.6	1.7	(0.1)	1.8	2.0	(0.1)
Internal Audit	1.0	0.8	0.3	1.2	0.9	0.3
General Counsel	1.3	1.1	0.3	1.5	1.2	0.3
Communications	0.9	1.1	(0.2)	1.1	1.3	(0.2)
Safety, Health, Security and Quality	13.9	11.6	2.3	15.7	13.4	2.3
Env. Program & Strategic Planning	5.2	4.1	1.1	5.9	4.6	1.2
Business Services	21.4	21.8	(0.4)	24.1	24.6	(0.4)
Prime Contract and Project Integration	21.8	19.3	2.4	24.5	22.2	2.3
Project Technical Services	6.7	6.4	0.3	7.5	7.6	(0.0)

FY2017		
G&A Distribution	(71.3)	(83.4)
G&A Liquidation (Over)/Under	(3.4)	(5.6)

Liquidation Analysis

As of August, the application of the G&A rate over liquidated total-to-date G&A cost by \$11.4 million. In June, an over liquidation passback was processed for \$8.0 million, which leaves the FY to date balance at \$3.4 million. The FY2017 year-end projected over-liquidation balance of \$5.6 million, reflected in the fiscal year spend forecast, reflects a projected decrease in G&A costs as well as an increase to the G&A base.

Consistent with CHPRC prospective Cost Accounting Disclosure Statement, under liquidations would be distributed to users at a minimum, when the combined projected year-end under liquidation is equal to or greater than \$4 million. Over liquidations would be distributed to users at a minimum, when the combined projected year-end over liquidation is equal to or greater than \$6 million. Variances may be liquidated to users at lower thresholds if variances are determined to be significant to cost control. All remaining variances will be distributed at fiscal year-end.

MAJOR ISSUES

None currently identified.

RISK MANAGEMENT STATUS

No key risks currently identified.

MILESTONE STATUS

None currently identified.

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.

Appendix C Capital Asset Projects



August 2017
CHPRC-2017-08, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

Appendix C.1
Capital Asset Project
RL-0011.C1 - PFP D&D
(Removal of 174 Gloveboxes from 234-5Z)



T. E. Bratvold
Vice President for
Plutonium Finishing
Plant Closure
Project

August 2017
CHPRC-2017-08, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

Progress continued to work toward critical decision (CD)-4 closure as teams completed preparation of the glovebox/hoods for extraction during demolition. Remaining gloveboxes (6 each) have been staged until the area of the 234-5Z facility is demolished where they currently reside. The total number of gloveboxes removed to date is 97 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	-	-	174	168
COMPLETE KPP Rooms/Areas Ready for Demo	-	-	60	60 rooms/areas

KEY ACCOMPLISHMENTS

RL-0011_C1 Accomplishments

- HC-7C and 227T gloveboxes were shipped to Perma-Fix Northwest (PFNW) for final disposition. Six gloveboxes remain in the 234-5Z facility to meet the Key Performance Parameter associated with the RL-011.C1 project.

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 August .						
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 August .						
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)						
FY2017 Risk Triggers (Risk could be realized in FY2017)						
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 Plutonium Finishing Plant (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 FY2017.		
				Mitigation action(s)	FC Date	%
				None identified at this time.	N/A	N/A
Mitigation Assessment: The mitigation strategies have been put in place; as a result, the risk strategy is to accept with no further mitigation actions identified at this time. PFP will continue to adhere to the CHPRC Integrated Safety Management System (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 are needed. This risk will be closed in September, as the facility was readied for demolition early in the month.						
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 August .						
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 August .						

CRITICAL PATH SCHEDULE

The PFP Critical Path schedule begins with the continuation of demolition on the 234-5ZA facility. Once demolition of 234-5ZA is complete, A-Labs is the first section of 234-5Z to be demolished. After A-Labs is complete, demolition of backside rooms/Plutonium Process Support Laboratories (PPSL) will begin, which then moves to front side demolition. The demolition of A-Labs also drives demolition of the 236-Z canyon. 236-Z Canyon demolition will run in parallel with the remainder of 234-5Z demolition. After completion of the front side of 234-5Z, the Remote Mechanical A (RMA) Process Line and RMC Process Line will be demolished. Finally, the demolition of the Radioactive Acid Digestion Test Unit (RADTU) (when the last gloveboxes will be removed from 234-5Z) and basement areas completes the 234-5Z facility. Completion of the removal of the final gloveboxes is followed by performing CD-4 closeout activities.

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	12/31/2017	Progress continued to work toward CD-4 closure as teams continued to prep glovebox/hoods for extraction during demolition. Final preparations for the removal have been completed. Remaining gloveboxes have been staged until demolition of 234-5Z commences and completion of CAP.1 discrete scope will be completed. There was a 29 day loss, since July month end as a result of impacts from a stop work associated with recovery actions on the June Plutonium Reclamation Facility (PRF) contamination event. As the PFP Project continues to make progress on the behind schedule critical path work scope being performed, it is expected that efficiencies will be recognized, evaluated, and as appropriate, implemented to help recover some of the schedule delays. The total gloveboxes removed to date is at 97 percent complete. Completion of CD-4 closure by November 30, 2017, is at risk of being met.

*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.

DOE ACTIONS / DECISIONS

Working with RL on CD-4 closure actions. CD-4 is at risk of being met.

Appendix C.1

RL-0011.C1 – PFP D&D

(Removal of 174 Gloveboxes from 234-5Z)

Contract Performance Reports

Format 1 - Work Breakdown Structure

Format 2 - Organizational Categories

Format 3 - Baseline

Format 4 - Staffing

Format 5 - Explanation and Problem Analysis



August 2017
CHPRC-2017-08, 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													FORM APPROVED OMB No. 0704-0188								
1. CONTRACTOR			2. CONTRACT				3. PROGRAM			4. REPORT PERIOD			DOLLARS IN Thousands of \$								
a. NAME CH2M HILL Plateau Remediation Company			a. NAME Plateau Remediation Contract				a. NAME RL_0011_C1 - PFP D&D (ARRA/Base)			a. FROM (YYYYMMDD) 2017 / 07 / 24											
b. LOCATION (Address and ZIP Code) Richland, WA			b. NUMBER RL14788		b. PHASE		c. EVMS ACCEPTANCE NO <input type="checkbox"/> X YES (YYYYMMDD) 2009 / 09 / 18			b. TO (YYYYMMDD) 2017 / 08 / 20											
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 344,953		g. CONTRACT CEILING 327,423		h. ESTIMATED CONTRACT CEILING 344,953		i. DATE OF OTB/OTS (YYYYMMDD)		
6. ESTIMATED COST AT COMPLETION										7. AUTHORIZED CONTRACTOR REPRESENTATIVE											
										a. NAME (Last, First, Middle Initial) Dickerson, Kala K					b. TITLE Prime Contract Compliance Manager						
a. BEST CASE 332,683										c. SIGNATURE					d. DATE SIGNED (YYYYMMDD)						
b. WORST CASE 335,210																					
c. MOST LIKELY 335,076										317,545					-17,531						
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		ESTIMATED		VARIANCE
ITEM (1)		WORK SCHEDULED (2)	WORK PERFORMED (3)	(4)	SCHEDULE (5)	COST (6)	(7)	(8)	(9)	SCHEDULE (10)	COST (11)	(12a)	(12b)	(13)	(14)	(15)	(16)				
RL-0011 Nuclear Mat Stab & Disp PFP		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
RL_0011_C1.02 Maintain Safe & Compliant PFP		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
RL_0011_C1.05 Disposition PFP Facility		0	89	166	89	-77	235,514	235,225	259,740	-290	-24,515	0	0	0	235,514	259,895	-24,381				
RL_0011_C1.06 Project Management & Support		0	0	0	0	0	11,990	12,477	12,477	0	-487	0	0	0	11,990	12,477	-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	0	0	0	7,221	7,731	-510				
RL_0011_C1.98 Ramp-up and transition		0	0	0	0	0	19,399	19,399	19,253	0	147	0	0	0	19,399	19,253	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	0	0	0	41,028	33,328	7,700				
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	0	0	0	0	0	0	0	0	0	0	0	0	0				
e. SUBTOTAL		0	89	166	89	-77	315,152	314,862	332,527	-290	-17,665	0	0	0	315,152	332,683	-17,531				
f. MANAGEMENT RESERVE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
g. TOTAL		0	89	166	89	-77	315,152	314,862	332,527	-290	-17,665	0	0	0	317,545	332,683	-15,138				
9. RECONCILIATION TO CONTRACT BUDGET BASELINE																					
a. VARIANCE ADJUSTMENT																					
b. TOTAL CONTRACT VARIANCE																					
													-290		-17,665		317,545		332,683		-15,138

*CPR Format 1 displays fully burdened dollars which includes indirect G&A that is distributed to each Project

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_C1 - PFP D&D (ARRA/Base)		a. FROM (YYYYMMDD) 2017 / 07 / 24	
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE		b. TO (YYYYMMDD) 2017 / 08 / 20	
c. TYPE CPAF		d. SHARE RATIO		c. EVMS ACCEPTANCE NO <input type="checkbox"/> X <input checked="" type="checkbox"/> YES (YYYYMMDD) 2009 / 09 / 18			

WBS.Resp Org Group ITEM (1)	CURRENT PERIOD						CUMULATIVE TO DATE						REPROGRAMMING ADJUSTMENTS			AT COMPLETION		
	BUDGETED COST		ACTUAL COST WORK PERFORMED (4)	VARIANCE		BUDGETED COST		ACTUAL COST WORK PERFORMED (9)	VARIANCE		COST VARIANCE (12a)	SCHEDULE VARIANCE (12b)	BUDGET (13)	BUDGETED (14)	ESTIMATED (15)	VARIANCE (16)		
	WORK SCHEDULED (2)	WORK PERFORMED (3)		SCHEDULE (5)	COST (6)	WORK SCHEDULED (7)	WORK PERFORMED (8)		SCHEDULE (10)	COST (11)								
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	89	166	89	-77	254,725	254,435	279,947	-290	-25,511	0	0	0	254,725	280,102	-25,377		
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)	0	89	166	89	-77	315,152	314,862	332,527	-290	-17,665	0	0	0	315,152	332,683	-17,531		
f. MANAGEMENT RESERVE														2,393				
g. TOTAL	0	89	166	89	-77	315,152	314,862	332,527	-290	-17,665	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 RL_0011_C1 - PFP D&D (ARRA/Base)		a. FROM (YYYYMMDD) 2017 / 07 / 24	
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE		b. TO (YYYYMMDD) 2017 / 08 / 20	
		c. TYPE CPAF	d. SHARE RATIO	c. EVMS ACCEPTANCE NO <input type="checkbox"/> YES <input checked="" 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)											AT COMPLETION (15)
			SIX MONTH FORECAST BY MONTH (Enter names of months)						ENTER SPECIFIED PERIODS					
			+1 SEPT 2017 (4)	+2 OCT 2017 (5)	+3 NOV 2017 (6)	+4 DEC 2017 (7)	+5 JAN 2018 (8)	+6 FEB 2018 (9)	2nd Qtr FY18 (10)	3rd Qtr FY18 (11)	FY18 (12)	FY19-LC (13)		
35 - Business Services	0	17	0	0	0	0	0	0	0	0	0	0	0	17
3B - PFP Closure Project	11	15440	2	12	0	0	0	0	0	0	0	0	0	15454
g. TOTAL DIRECT	11	15457	2	12	0	0	0	0	0	0	0	0	0	15470

CLASSIFICATION (When Filled In)

Appendix C.2

Capital Asset Project

RL-0011.C2 - Demolition of PFP Facilities



T. E. Bratvold
Vice President for
Plutonium Finishing
Plant Closure
Project

August 2017
CHPRC-2017-08, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

Progress continued to work toward critical decision (CD)-4 closure as teams continued to ready the Plutonium Finishing Plant (PFP) facilities for demolition. Demolition on the Plutonium Reclamation Facility (PRF) began on November 8, 2016. Demolition of 291-Z commenced on June 30, 2017. The 291-Z stack was demolished on July 15, 2017, and loadout has been completed. Demolition of the 234-5ZA facility was initiated on July 27, 2017. Completion of all demolition activities are scheduled to occur in early November 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	1
COMPLETE Cold and Dark/Demo Ready activities for 242-Z	-	-	1	1
COMPLETE Cold and Dark/Demo Ready activities for 291-Z	-	-	1	1
Complete Cold and Dark/Demo Ready activities for PFP Ancillary Facilities	-	-	15	3
Complete Demolition of 234-5Z	-	-	1	-
Complete Demolition of 236-Z	-	-	1	-
COMPLETE Demolition of 242-Z	-	-	1	1
Complete Demolition of 291-Z	-	-	1	-
Complete Demolition of PFP Ancillary Facilities	-	-	15	3
Turnover Facility to Long Term Surveillance & Maintenance	-	-	-	-

KEY ACCOMPLISHMENTS

RL-0011_C2 Accomplishments

- Completed waste loadout of 291-Z stack.
- Continued 291-Z demolition and waste loadout.
- Initiated demolition of the 234-5ZA facility.

MAJOR ISSUES

Nothing to report at this time.

CORRECTIVE ACTION LOG

Reference Appendix C.2 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 stoplight chart: No major changes to the monthly stoplight chart in the month of August.												
Realized Risks (Risks that are currently impacting project cost/schedule)												
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 Event: This risk was realized during the month of May due to high winds and lightening, limiting demolition activities. <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Risk Recovery Action(s)</th> <th style="text-align: center;">FC Date</th> <th style="text-align: center;">%</th> </tr> </thead> <tbody> <tr> <td>Implement "tropical" shift and overtime (OT) shifts as necessary to mitigate further impacts associated with weather.</td> <td style="text-align: center;">Ongoing</td> <td style="text-align: center;">100%</td> </tr> </tbody> </table> Recovery Assessment: During the month of August, no impacts have occurred as a result of weather. However, the risk remains critical due to upcoming high-wind and projected winter conditions, which have the ability to impact the planned demolition. The PFP project will continue to adjust the daily work scope to plan for projected weather impacts.	Risk Recovery Action(s)	FC Date	%	Implement "tropical" shift and overtime (OT) shifts as necessary to mitigate further impacts associated with weather.	Ongoing	100%		
Risk Recovery Action(s)	FC Date	%										
Implement "tropical" shift and overtime (OT) shifts as necessary to mitigate further impacts associated with weather.	Ongoing	100%										
PFP-DEMO-16: Contamination Spread Beyond Established Boundaries	Unplanned transport of contamination from posted areas due to dust suppression liquid flow, natural events, or wildlife result in cost impacts and schedule delays. Risk Handling Strategy: Accept Probability: Medium (26% to 74%) Worst Case Impacts: \$3 million, 30 days	●	↑	Risk Event: A Continuous Air Monitoring (CAM) alarm sounded while crews were removing and packaging the third section of GB3 at the PRF on Thursday, June 8, 2017. Demolition activities were stopped, and RCTs began surveys in preparation to egress personnel. <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Risk Recovery action(s)</th> <th style="text-align: center;">Risk Date</th> <th style="text-align: center;">FC Date</th> <th style="text-align: center;">%</th> </tr> </thead> <tbody> <tr> <td> 1. Add caution to work package direction to not apply a focused beam of water to high materials at risk (MAR) components that have been breached. 2. Evaluate the use of the foggers. 3. Revise or incorporate additional controls into the work package as appropriate. 4. Evaluate the boundaries to incorporate available radiological data. 5. Evaluate the fixative concentration. 6. Incorporate case-by-case consideration when handling items of accessible gram values during adverse weather conditions into the work package. 7. Evaluate the method for determining acceptable wind speed. 8. PFP provides real-time data from the event to Dr. Napier (PNNL) for consideration with future models. </td> <td style="text-align: center; vertical-align: middle;">6/8/17</td> <td style="text-align: center; vertical-align: middle;">11/2/17</td> <td style="text-align: center; vertical-align: middle;">0</td> </tr> </tbody> </table> Recovery Actions Assessment: No change in the month of August. The work package for the remaining activities for the 236-Z demolition work will be revised to incorporate all corrective actions. Corrective actions continue to be evaluated, with implementation forthcoming.	Risk Recovery action(s)	Risk Date	FC Date	%	1. Add caution to work package direction to not apply a focused beam of water to high materials at risk (MAR) components that have been breached. 2. Evaluate the use of the foggers. 3. Revise or incorporate additional controls into the work package as appropriate. 4. Evaluate the boundaries to incorporate available radiological data. 5. Evaluate the fixative concentration. 6. Incorporate case-by-case consideration when handling items of accessible gram values during adverse weather conditions into the work package. 7. Evaluate the method for determining acceptable wind speed. 8. PFP provides real-time data from the event to Dr. Napier (PNNL) for consideration with future models.	6/8/17	11/2/17	0
Risk Recovery action(s)	Risk Date	FC Date	%									
1. Add caution to work package direction to not apply a focused beam of water to high materials at risk (MAR) components that have been breached. 2. Evaluate the use of the foggers. 3. Revise or incorporate additional controls into the work package as appropriate. 4. Evaluate the boundaries to incorporate available radiological data. 5. Evaluate the fixative concentration. 6. Incorporate case-by-case consideration when handling items of accessible gram values during adverse weather conditions into the work package. 7. Evaluate the method for determining acceptable wind speed. 8. PFP provides real-time data from the event to Dr. Napier (PNNL) for consideration with future models.	6/8/17	11/2/17	0									
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)												
No critical risks identified in the month of August.												

Risk Title Risk Owner	Unmitigated Risk Impacts	Assessment		Comments					
		Month	Trend						
RL-0011/WBS-011.05.C3 (CAP.2)									
FY2017 Risk Triggers (Risk could be realized in FY2017)									
PFP-DEMO-21: Glovebox/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 FY2017.					
				<table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>None identified at this time.</td> <td>N/A</td> <td>N/A</td> </tr> </tbody> </table> <p>Mitigation Assessment: The mitigation strategies have been put in place; as a result, the risk strategy is to accept with no further mitigation actions identified at this time. PFP will continue to adhere to the CHPRC Integrated Safety Management System (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 are needed. This risk will be closed in September, as the facility was readied for demolition in early in the month.</p>	Mitigation action(s)	FC Date	%	None identified at this time.	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 crosscutting 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: \$3 million, 60 days	●	↔	Risk Trigger: During pre-demolition/demolition activities in FY2017. Dates tracked in the field execution schedule (FES).					
				<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>Complete</td> <td>100</td> </tr> <tr> <td>Initiate discussions early in the demo planning of the equipment being left in place for removal during demolish.</td> <td>Complete</td> <td>100</td> </tr> </tbody> </table> <p>Mitigation Assessment: Efforts have been completed to create a removal path for several of the gloveboxes to meet Criticality Incredibility. The HC-7C and 227T glovebox was slated for removal during demolition but has been removed during pre-demolition as risk mitigation strategy. At this time, no alternative course of actions are needed. This risk will be closed in September, as the facility was readied for demolition in early in the month.</p>	Mitigation action(s)	FC Date	%	Identify and pre-rig equipment with lifting slings.	Complete
Mitigation action(s)	FC Date	%							
Identify and pre-rig equipment with lifting slings.	Complete	100							
Initiate discussions early in the demo planning of the equipment being left in place for removal during demolish.	Complete	100							
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)									
PFP-DEMO-12: PFP/PRF Demolition Contamination Levels	Contamination levels on the canyon walls, floors, ventilation ducts, and the remaining areas of PFP will be higher than expected, thus requiring more stringent controls than expected or larger than expected waste volumes, resulting in cost impacts and schedule delays. Risk Handling Strategy: Accept Probability: Medium (26% to 74%) Worst Case Impacts: \$1.5 million, 22 days	●	↔	Risk Trigger: During pre-demolition/demolition activities in FY2017. 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 major changes in the month of August. At the end of January 2017, contamination was discovered outside the HCA/ARA/RA Zone established for demolition of the Plutonium Reclamation Facility (PRF) after a CAM alarm sounded just outside the HCA/ARA/RA during relocation of the debris pile. The alarm resulted in the evaluation of employees from the zone and could have resulted in contamination of PFP personnel. As a result of this event, lessons learned have been incorporated in the future demolition work packages to ensure the suppression of misting instructions are stated clearly with no subjective verbiage. In addition, in-process monitoring of the pile/bucket has been incorporated during movement of the debris pile.</p>	Mitigation action(s)	FC Date	%	None identified at this time.	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 August.									

CRITICAL PATH SCHEDULE

The PFP Critical Path schedule begins with the continuation of demolition on the 234-5ZA facility. Once demolition of 234-5ZA is complete, A-Labs is the first section of 234-5Z to be demolished. After A-labs is complete, demolition of backside rooms/Plutonium Process Support Laboratories (PPSL) will begin, which then moves to front side demolition. The demolition of A-Labs also drives demolition of the 236-Z canyon. 236-Z Canyon demolition will run in parallel with the remainder of 234-5Z demolition. The 236-Z canyon demolition completes on November 11, 2017, meeting the requirements for the Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) Milestone – M-083-00A – PFP Facility Transition and Selection Disposition Activities. After demolition is complete, site stabilization and demobilization and CD-4 closeout activities are completed.

SCHEDULE MARGIN/MANAGEMENT RESERVE

Reference Appendix C.2 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	3/15/18	Progress continued to work toward CD-4 closure as teams continued to ready the PFP facilities for demolition. The PRF facility initiated demolition on November 8, 2016, and completion of demolition activities will occur in November 2017. Demolition on the 291-Z facility commenced on June 30, 2017, and the 291-Z stack was demolished on July 15, 2017. The 234-5ZA facility was demolished in the month of August with loadout of waste to follow in the month of September. There was 36 days of schedule loss for the month of August primarily as a result of impacts from a stop work associated with recovery actions on the June PRF contamination event (15 days specifically associated with RL-0011.C2 - Demolition of PFP Facilities). As the PFP Project continues to make progress on the behind schedule critical path work scope being performed, it is expected that efficiencies will be recognized, evaluated, and as appropriate, implemented to help recover some of the schedule delays.

*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.

DOE ACTIONS / DECISIONS

Working with RL on CD-4 closure actions.

Appendix C.2

RL-0011.C2 - Demolition of PFP Facilities

Contract Performance Reports

Format 1 - Work Breakdown Structure

Format 2 - Organizational Categories

Format 3 - Baseline

Format 4 - Staffing

Format 5 - Explanation and Problem Analysis



August 2017
CHPRC-2017-08, Rev. 0
Contract DE-AC07-08RL14788
Deliverable C.3.1.3.1 - 1

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

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

FORM APPROVED

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) 2017 / 07 / 24	
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE		b. TO (YYYYMMDD) 2017 / 08 / 20	
		c. TYPE CPAF		d. SHARE RATIO		c. EVMS ACCEPTANCE <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES (YYYYMMDD) 2009 / 09 / 18	

WBS.Resp Org Group	CURRENT PERIOD						CUMULATIVE TO DATE					REPROGRAMMING			AT COMPLETION		
	BUDGETED COST		ACTUAL	VARIANCE		BUDGETED COST		ACTUAL	VARIANCE		ADJUSTMENTS			BUDGETED	ESTIMATED	VARIANCE	
	WORK SCHEDULED (2)	WORK PERFORMED (3)	COST WORK PERFORMED (4)	SCHEDULE (5)	COST (6)	WORK SCHEDULED (7)	WORK PERFORMED (8)	COST WORK PERFORMED (9)	SCHEDULE (10)	COST (11)	COST VARIANCE (12a)	SCHEDULE VARIANCE (12b)	BUDGET (13)	(14)	(15)	(16)	
3B - PFP Closure Project	0	1,608	2,662	1,608	-1,053	48,712	25,663	31,787	-23,049	-6,124	0	0	0	48,712	45,426	3,286	
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)	0	1,608	2,662	1,608	-1,053	48,712	25,663	31,787	-23,049	-6,124	0	0	0	48,712	45,426	3,286	
f. MANAGEMENT RESERVE														2,971			
g. TOTAL	0	1,608	2,662	1,608	-1,053	48,712	25,663	31,787	-23,049	-6,124	0	0	0	51,683			

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) 2017 / 07 / 24	
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE		b. TO (YYYYMMDD) 2017 / 08 / 20	
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 SEPT 2017 (4)	+2 OCT 2017 (5)	+3 NOV 2017 (6)	+4 DEC 2017 (7)	+5 JAN 2018 (8)	+6 FEB 2018 (9)	2nd Qtr FY18 (10)	3rd Qtr FY18 (11)	FY18 (12)	FY19-LC (13)		
BB - PFP Closure Project	43	529	131	189	67	44	6	6	4	0	0	0	0	977
g. TOTAL DIRECT	43	529	131	189	67	44	6	6	4	0	0	0	0	977

CLASSIFICATION (When Filled In)										
CONTRACT PERFORMANCE REPORT										
FORMAT 5 - Explanations and Problem Analysis										
FORM APPROVED OMB No. 0704-0188										
1. CONTRACTOR		2. CONTRACT			3. PROGRAM			4. REPORT PERIOD		
a. NAME CH2M HILL Plateau Remediation Company		a. NAME Plateau Remediation Contract			a. NAME RL_0011_C2 PFP Demolition Capital Asset Project			a. FROM (YYYYMMDD) 2017/07/24		
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788			b. PHASE			b. TO (YYYYMMDD) 2017/08/20		
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:		0.0	1,608.2	2,661.6	1,608.2	-	-1,053.4	-65.5%	-	0.60
Cumulative:		48,711.9	25,663.0	31,786.9	-23,048.8	-47.3%	-6,123.9	-23.9%	0.53	0.81
		BAC	EAC	VAC in \$	VAC in %	TCPI to BAC	TCPI to EAC			
At Complete:		48,711.9	45,426.0	3,285.8	6.7%	1.36	1.69			
Explanation of Variance/Description of Problem:										
Current Month:										
Schedule Variance: The schedule variance for the current month is due to working historical BCWS on discrete demolition activities (apportioned). Completion of waste loadout of the 291-Z stack, and removal of filter boxes in 234-5Z resulted in significant performance claimed for this month. Because all work is historical, the current schedule variance will be favorable going forward. This is partially offset by impacts associated with the Stop Work that was initiated by the Hanford Atomic Metals Trade Council (HAMTC) union leadership on August 11, 2017 "due to concerns over events both inside and outside of the facility." Primarily, the main issue involved employee proximity to demolition radiological boundary areas in place at that time. Radiological boundary areas are being reconfigured, and any impacted employees are being relocated. Demolition of 234-5Z and 236-Z is currently scheduled to complete in November 2017.										
Cost Variance: The cost variance relates to the progress on discrete demolition work scope (apportioned) (see the schedule variance explanation), while a constant staff provides D&D support services.										
Cumulative to Date:										
Schedule Variance: The cumulative unfavorable 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 ready for demo activities associated with impacts from 236-Z Canyon Crane failure, contamination impacts from an unplanned criticality alarm failure, contamination recovery in the duct level of 234-5Z (two week delay in July 2016), increased characterization efforts, weather delays (snow and wind), recovery from demolition contamination events, and greater efforts to complete 242-Z demolition than originally planned. In addition, the PUREX Tunnel collapse caused a four day delay due to closure of the Hanford site restricting access to PFP and a contamination event associated with removal of PRF gallery gloveboxes causing a 20 day delay of demolition activities on the 236-Z facility. Further, impacts associated with the Stop Work that was initiated by the Hanford Atomic Metals Trade Council (HAMTC) union leadership on August 11, 2017 "associated with concerns over events both inside and outside of the facility;" primarily, the main issue involved employee proximity to demolition radiological boundary areas in place at that time are also contributing to this variance. Radiological boundary areas are being reconfigured, and any impacted employees are being relocated. Finally, As a result of delays in the ready for demolition activities, the C2 CD-4 has been delayed but not in jeopardy of being met. However, the TPA milestone M-083-00A was re-negotiated to a due date of 9/30/2017 and is at risk. This is partially offset by the completion of demolition of the 2729-Z, and 2727-Z facilities, removal of gloveboxes, the completion of demolition activities for the 2nd, 3rd, 4th, 5th, and 6th floors, South Canyon Airlock of 236-Z, removal of three sections of gallery gloveboxes from 236-Z, demolition of 242-ZA, completion of demolition activities in the 242-Z facility, progress on the 291-Z demolition, completion of demolition activities associated with the 291-Z stack, demolition of the 234-5ZA and 2735Z facilities.										
Cost Variance: The cumulative negative cost variance is associated with MSA subcontracted resources arriving to support PFP demolition that were planned as P/Q shift support with a baseline start date of February 2016. Because the project is behind schedule in initiating demolition activities, and because the decision was made not to execute demolition activities for the 236-Z/242-Z facilities on P/Q shift, 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 continue 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 lagged due to a delay in the start of 236-Z Demolition and increased requirements to show readiness resulting in increased costs due to additional time and effort required from subcontracted and direct labor resources. In addition, 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 minimal apportioned BCWP. Further, demolition mobilization activities took longer than originally assumed because of recommendations made during the readiness assessment and purchasing unplanned PBS fixative to support 236-Z demolition. In addition, significant winter weather impacts (i.e., snow, wind, freezing rain, etc.) have been recognized on the Hanford Site. Site closures, freezing temperatures and significant snowfall that required clearing of the demolition zone rather than performing physical demolition on the facilities while a constant staff provides demolition support services is the contributing factor, as a result of the weather impacts and an unexpected contamination events in the PRF demolition zone. In addition unplanned Management Assessment efforts for the 234-5Z and 291-Z facilities took longer than originally assumed. Finally, impacts associated with the Stop Work that was initiated by the Hanford Atomic Metals Trade Council (HAMTC) union leadership on August 11, 2017 "associated with concerns over events both inside and outside of the facility;" primarily, the main issue involved employee proximity to demolition radiological boundary areas in place at that time are also contributing to this variance. Radiological boundary areas are being reconfigured, and any impacted employees are being relocated. As the project gets further into the demolition phase of the PRF Canyon, increased utilization of Personnel Protective Equipment to align with the original plan as well as increased material procurements to align with the scope being performed (i.e., P-100 filters, Labounty Shear, additional fixative, etc.) are also contributing to this variance. This is partially offset by recognized efficiencies associated with the demolition of the 2727-Z										
Impact:										
Schedule Impact: Work efforts in getting 234-5Z ready for Cold & Dark resulted in a loss of 23 days for the month of August. As the PFP Project continues to make progress on the behind schedule critical path work scope being performed, it is expected that continued efficiencies will be recognized, evaluated, and implemented as schedule delays occur. The baseline completion date is not considered recoverable. The TPA Milestone TPA-083-00A, complete PFP facility transition and selected disposition activities of September 30, 2017 will not be met.										
Cost Impact: Stop Works, Safety Pauses, weather impacts (i.e., unusual winter, heat, wind, etc.) 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. In addition, readiness activities took longer than originally assumed as a result of increased requirements required by the Readiness Assessment team to demonstrate readiness for demolition of the PRF facility and efforts to mobilize took longer than originally assumed as a result of implemented recommendations from the readiness assessment team. An unplanned Management Assessment for the 234-5Z and 291-Z facilities to incorporate lessons learned from the demolition of the 236-Z and 242-Z facilities are also contributing to the cost impacts. Finally, in the early stages of this project subcontracted MSA resources specializing in facility demolition charged the project until the ready for demo status was achieved. Unexpected contamination events that occurred during demolition of the PRF facility in January and June 2017, and delays with the 242-Z demolition has contributed to the cost impacts on this project. This is partially offset by recognized efficiencies during the 291-Z demolition and 291-Z stack implosion as well as the 234-5ZA and 2735Z facilities.										
The positive VAC is reflective of working one shift during demolition of 236-Z, 242-Z and 291-Z building and stack 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.										

Corrective Action:

The PFP Project will utilize overtime when appropriate to attempt schedule recovery. Action: Chris Pearson 8/31/17

NOTE: Corrective actions associated with stop works/safety pauses, contamination events, and 236-Z Canyon Crane failure, and additional asbestos removal activities 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: In the EAC there is currently no remaining schedule margin in this capital asset account. Schedule margin was lost in August 2016 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 and a requirement for removing additional asbestos in the 234-5Z facility prior to demolition activities commencing.
2. IMS Data dictionary Changes: No change in the month of August
3. Forecast Schedule with No Baseline: No change in the month of August
4. UB Balance: No change in the month of August
5. Negative ACWP: No change in the month of August
6. EAC Analysis: Best Case = \$45,426; Most Likely = \$48,397; Worst Case = \$59,160
7. Negative CV > VAC: No change in the month of August
8. MR Transactions: No change in the month of August
10. Retroactive Changes: No change in the month of August
11. EVT Changes: No change in the month of August

*During the Month of April CHPRC kicked off the FY2018 comprehensive EAC process (ZZCSMILE1117A, Kickoff FY18 Annual Comprehensive EAC), and is expected to finish mid-September (ZZCSMILE1117B, Submit Final FY18 Annual Comprehensive EAC).

Prepared by:

Date:

Approved by:

Date:

Appendix C.3
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

August 2017
CHPRC-2017-08, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

M. A. Wright
Vice President for
Project Technical
Services

PROJECT SUMMARY

Receipt of increments of Sludge Transport and Storage Container (STSC) Assemblies is progressing as planned, and the final STSC assemblies are forecast to be received on August 21, 2017 (PM-12-1-17).

The K Basin Pre-operational Acceptance Testing (KPAT), which commenced on April 20, 2017, continued through August. Testing fieldwork is approximately 74 percent complete and forecast to complete October 24, 2017, with turnover to operations forecast for November 1, 2017.

The 105KW Basin Final Safety Analysis Report (FSAR) and Technical Safety Requirements (TSR) revision required to support integrated KPAT testing was approved on June 30, 2017. Implementation of the 105KW Basin FSAR and TSR revision to support integrated KPAT testing was completed on August 17, 2017.

CHPRC personnel completed incorporating all RL Safety Basis Review Team (SBRT) comments, and the final versions of the 105KW Facility Documented Safety Analysis (DSA) and TSR are forecasted to be transmitted for RL approval via letter CHPRC-1700081A R6 on August 24, 2017. The current forecast date for receiving a Safety Evaluation Report (SER) from RL is September 1, 2017. Approval of the 105KW Facility Documented Safety Analysis (DSA) and TSR precedes finalization of Sludge Removal Project (SRP) training material/procedures and completion of readiness preparation activities prior to the Operational Readiness Reviews (ORRs) authorizing full-up Engineered Container Retrieval and Transfer System (ECRTS) Operation.

Based on discussions between RL and CHPRC senior management, the Sludge Treatment Project (STP) team has modified the field execution schedule (FES) to implement acceleration opportunities, which could facilitate the transfer of all sludge to T Plant in fiscal year (FY) 2018. On March 27, 2017, CHPRC formally submitted letter CHPRC-1701045 R1 - *Contract Number DE-AC06-08RL14788 – Change Proposal CP 012 PRC 1646, Revision 0, Sludge Removal Project Acceleration of 105K and T Plant* for RL approval. In order to meet the accelerated schedule, support from CHPRC and RL is required for the following assumptions:

- Significant overtime/weekend work is required to reduce the schedule duration (overtime/weekend work expected to continue through ORR).
- Approval of the integrated 105KW DSA must not affect the project's critical path. This integrated DSA/TSR includes as-built information from installation activities, and therefore, a subsequent "as-built" DSA/TSR submittal is not required (DSA/TSR became project critical path on July 1, 2017, and will delay the start of implementation activities until it is approved on September 1, 2017).
- SRP CD-4 approval must occur concurrently with commencing sludge retrieval operations (this is being worked through RL).
- Approval of the T Plant safety documentation must be completed within 120 days of submittal (approved July 31, 2017).

To demonstrate the current forecast date of the Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) M-016-175, *Begin Sludge Removal From 105-KW Fuel Storage Basin*, the milestone has been disconnected from the risk analysis schedule margin. The current non-risk adjusted forecast date to begin sludge removal is March 16, 2018. However, the project is evaluating recovery methods to initiate sludge removal in February 2018.

The effort to retrieve and containerize the sludge pile in the KW Basin Center Bay discovered during debris mapping continued. Work is forecast to be completed prior to the start of sludge retrieval (Tri-Party Agreement M-016-175).

Project breakdown structure (PBS) RL-0012 scope is 93.1 percent complete, with a cumulative Schedule Performance Index (SPI) of 1.00 and a Schedule Cost Performance Index (CPI) of 1.05.

KEY ACCOMPLISHMENTS

RL-0012 C1 1 Accomplishments

KW Basin Sludge Removal Capital Asset Project

- **KPAT**
 - KPAT testing, which was initiated on April 20, 2017, continued as scheduled. A substantial number of component level and system leak tests were completed. As of August month-end, the test is approximately 74 percent complete. The integrated test, which consists of connecting the ECRTS equipment in 105KW to the equipment in the KW Annex and running water through the system, is forecast to start on September 19, 2017.
 - The KPAT Team completed Ventilation System software testing following upgrades to resolve system operating anomalies.
 - Conducted a Hazard Review Board (HRB) session for the Integrated KPAT Work Instructions and received their approval of the Work Change Notice (WCN).
- 17-NSD-0034_RL/Contract Number DE-AC06-08RL14788 - Approval of the One-Time Request for Shipment (OTRS) for Sludge Transport from K West Basin to T Plant, CHPRC-03111, Revision 0 was approved on July 21, 2017, and was transmitted to CHPRC on July 24, 2017. CHPRC Transportation Safety personnel can now focus on finalizing the OTRS formal implementation activities.
- ECRTS Procurement: Installation of Sludge Transport & Storage Container (STSC) Instrumentation & Appurtenances continued through the fiscal month. As of August month-end, the project had received 10 of 12 STSC assemblies, with the final two assemblies scheduled for receipt on August 21, 2017.
- American Boiler Works (ABW) will complete fabrication of the final 11 STSC shells by September 30, 2017. Once the final 11 STSC shells are fabricated, they will be transported to HiLine for installation of associated instrumentation and appurtenances.
- Development of the Operations and Maintenance Procedures supporting sludge removal and packaging operations continues in parallel with approval of safety documentation. As of August month-end, 61 of 100 procedures were drafted.

MAJOR ISSUES

Sludge Removal Project

Issue:

The schedule for receipt and implementation of the integrated DSA/TSR for Sludge Removal Operations is impacting the SRP critical path.

Corrective Action:

CHPRC updated the DSA/TSR to incorporate RL comments and retransmitted the document sent to RL for approval. Approval of these documents precedes preparation of SRP training material, procedures, formal safety basis implementation, and completion of readiness preparation activities prior to the ORR authorizing full-up ECRTS Operation.

Status:

CHPRC personnel updated the Integrated DSA/TSR to incorporate comments provided by the RL SBRT and re-transmittal of the updated files to RL is forecast for August 24, 2017, via CHPRC-1700081A R6 – *Resubmittal of the 105KW Facility Documented Safety Analysis, PRC-STP-00946, Revision 0 and the 105KW Facility Technical Safety Requirements, PRC-STP-00992, Revision 0*. The current forecast for RL approval is September 1, 2017.

On March 27, 2017, CHPRC formally submitted letter CHPRC-1701045 R1 - *Contract Number DE-AC06-08RL14788 – Change Proposal CP 012 PRC 1646, Revision 0, Sludge Removal Project Acceleration of 105KW and T Plant* for RL approval. In order to meet the accelerated schedule, support from RL was required for the following assumption:

- Approval of the integrated 105KW DSA must not affect the project's critical path.

The DSA/TSR became project critical path on July 7, 2017, and has subsequently delayed the start of DSA/TSR implementation activities. Once a Safety Evaluation Report (SER) approving the DSA/TSR is received by CHPRC, project personnel will assess the impact to the acceleration proposal and update the projected sludge removal execution schedule as appropriate.

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: STP-072 was removed from the spotlight chart in the month of August.																								
Realized Risks (Risks that are currently impacting project cost/schedule)																								
STP-067A Safety Classification of SSCs - DSA/TSR	RL requires CHPRC to upgrade the safety classification of systems, structures, and/or components to a more conservative safety classification, requiring CHPRC to revise key safety documentation (DSA and TSR), procedures and/or design(s). Upon submittal of revised Documented Safety Analysis (DSA)/Technical Safety Requirements (TSR), procedures and/or design(s), RL approval takes longer than the assumptions planned for in the baseline. Risk Handling Strategy: Accept Probability: Very Likely (>90%) Worst Case Impacts: \$300K, 120 days	●	↑	<p>Risk Event: CHPRC sent the DSA and TSR to RL for review and approval on October 20, 2016, in letter CHPRC-1604692. RL rejected this submittal via correspondence 1700081A/17-NSD-0006. CHPRC resubmitted the DSA/TSR via CHPRC-1700081A R3 on April 12, 2017. The original project baseline included 120 calendar days for RL to approve the safety basis document; however, it has now been 304 days (as of August 20, 2017) since the original submittal, with formal approval forecasted for September 1, 2017.</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>Solicit Senior RL & CHPRC involvement in resolving deficiencies.</td> <td>1/28/17</td> <td>As Needed</td> <td>N/A</td> </tr> <tr> <td>Conduct interface meetings between RL Safety Basis Review Team (SBRT) & CHPRC Nuclear Safety personnel to negotiate a product that is acceptable to RL.</td> <td>1/28/17</td> <td>As Required</td> <td>55</td> </tr> <tr> <td>CHPRC to appoint an independent facilitator to assist in resolution of RL comments.</td> <td>1/28/17</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Prepare a change order to obtain Management Reserve for realized risk.</td> <td>1/28/17</td> <td>Complete</td> <td>100</td> </tr> </tbody> </table> <p>Recovery Action Assessment: RL and CHPRC Senior Management have met multiple times in an attempt to resolve differences on the DSA/TSR submittal. All DSA/TSR comments from the initial submittal were dispositioned as of February 17, 2017, CHPRC resubmitted an updated version of the DSA/TSR incorporating RL comments on April 12, 2017. Obtaining RL concurrence on comments against the second submittal is complete and a clean copy was formally submitted on August 24, 2017. The current forecast for receiving a SER approving the DSA/TSR is September 1, 2017. Once CHPRC has received the SER and confirmed no changes to assume safety classification is needed, this risk may be closed. This risk is now closed and will be removed from the spotlight chart in September.</p>	Risk recovery action(s)	Risk Date	FC Date	%	Solicit Senior RL & CHPRC involvement in resolving deficiencies.	1/28/17	As Needed	N/A	Conduct interface meetings between RL Safety Basis Review Team (SBRT) & CHPRC Nuclear Safety personnel to negotiate a product that is acceptable to RL.	1/28/17	As Required	55	CHPRC to appoint an independent facilitator to assist in resolution of RL comments.	1/28/17	Complete	100	Prepare a change order to obtain Management Reserve for realized risk.	1/28/17	Complete	100
Risk recovery action(s)	Risk Date	FC Date	%																					
Solicit Senior RL & CHPRC involvement in resolving deficiencies.	1/28/17	As Needed	N/A																					
Conduct interface meetings between RL Safety Basis Review Team (SBRT) & CHPRC Nuclear Safety personnel to negotiate a product that is acceptable to RL.	1/28/17	As Required	55																					
CHPRC to appoint an independent facilitator to assist in resolution of RL comments.	1/28/17	Complete	100																					
Prepare a change order to obtain Management Reserve for realized risk.	1/28/17	Complete	100																					
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)																								
No critical risks identified in the month of August.																								
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) & ECRTS Startup	The ECRTS 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 because of construction testing and/or Lines of Inquiry for Readiness Review resulting in cost impacts and schedule delays. Risk Handling Strategy: Control Probability: Medium (26% to 74%) Worst Case Impacts: \$4.5 million, 90 days			<p>Risk Trigger: 1) The ECRTS 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>Develop and refine procedures based on feedback from testing and operations personnel.</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Develop streamline strategy (work packages and procedures) to perform in-basin/annex integrated testing and troubleshooting.</td> <td>Complete</td> <td>100</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 major changes in the month of August. KPAT Testing is in progress. No significant equipment failures as of August 20, 2017.</p>	Mitigation action(s)	FC Date	%	Develop and refine procedures based on feedback from testing and operations personnel.	Complete	100	Develop streamline strategy (work packages and procedures) to perform in-basin/annex integrated testing and troubleshooting.	Complete	100	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	%																	
Develop and refine procedures based on feedback from testing and operations personnel.	Complete	100																	
Develop streamline strategy (work packages and procedures) to perform in-basin/annex integrated testing and troubleshooting.	Complete	100																	
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																	
Unassigned Risks (Pending ownership of identified threats/opportunities)																			
No unassigned risks identified in the month of August .																			

CRITICAL PATH SCHEDULE

The critical path is being driven by receipt of the SER for the integrated DSA/TSR (forecast to be received September 1, 2017), including implementation of these safety requirements into 100K operation and maintenance procedures. Following a successful Contractor and DOE ORR, RL will provide Authorization to Commence Retrieval Operations in parallel with the DOE-HQ review/approval of CD-4. Completing retrieval operations, including the filling of STSCs with sludge and transporting them to T Plant, to complete Tri-Party Agreement Milestone M-016-176, Complete Sludge Removal from 105-KW Fuels Storage Basin, is outside the current contract period in FY2019. However, the STP team has modified the FES to implement acceleration opportunities, which could facilitate the transfer of all sludge to T Plant in FY2018.

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	5/18/2018	The forecast date includes schedule margin from the project's risk analysis. Project schedule margin is 123 days. The current forecast date before schedule margin and allowance for CD-4 is March 16, 2018.

*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.

DOE ACTIONS / DECISIONS

Description	CHPRC Delivery Date	Expected RL Due Date
RL Review & Comment on Emergency Planning Hazard Assessment (EPHA)	5/22/17(A)	9/22/17
RL Issue SER for KW Facility DSA/TSR	4/11/17(A)	9/01/17
RL Concur on KW Facility DSA/TSR Comment Resolution	4/11/17(A)	7/26/17(A)
RL Prepare KW Facility DSA/TSR SER	4/11/17(A)	8/29/17
RL SRB Review of KW Facility DSA/TSR	4/11/17(A)	8/29/17
RL Final Approval of POA - K Basins	9/11/17	9/24/17
RL Approve OTRS	6/01/17(A)	7/24/17(A)
RL Approve IKPAT SNR	8/14/17	8/22/17

Appendix C.3

RL-0012_C1_1 – Sludge Retrieval Project 15-D-401

Contract Performance Reports

Format 1 - Work Breakdown Structure

Format 2 - Organizational Categories

Format 3 - Baseline

Format 4 - Staffing

Format 5 - Explanation and Problem Analysis



August 2017
CHPRC-2017-08, 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													FORM APPROVED OMB No. 0704-0188				
1. CONTRACTOR				2. CONTRACT				3. PROGRAM			DOLLARS IN Thousands of \$		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) 2017 / 07 / 24				
b. LOCATION (Address and ZIP Code) Richland, WA				b. NUMBER RL14788				b. PHASE					b. TO (YYYYMMDD) 2017 / 08 / 20				
				c. TYPE CPAF				d. SHARE RATIO					c. EVMS ACCEPTANCE NO <input type="checkbox"/> X YES (YYYYMMDD) 2009 / 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 7,950	e. TARGET PRICE 303,823	f. ESTIMATED PRICE 294,632	g. CONTRACT CEILING 303,823	h. ESTIMATED CONTRACT CEILING 294,632						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			281,158					c. SIGNATURE			d. DATE SIGNED (YYYYMMDD)						
b. WORST CASE			288,482														
c. MOST LIKELY			286,682	295,873	9,191												
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 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-0012 SNF Stabilization & Disp																	
RL_0012_C1_1.16 Sludge Treatment Project		0	0	0	0	0	156,861	156,861	156,786	0	75	0	0	0	156,861	156,786	75
RL_0012_C1_1.17 D-401 KW Basin Sludge Removal Project		2,642	2,400	1,595	-242	806	120,798	118,837	108,840	-1,961	9,997	0	0	0	133,318	124,372	8,946
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		2,642	2,400	1,595	-242	806	277,659	275,698	265,626	-1,961	10,072	0	0	0	290,179	281,158	9,021
f. MANAGEMENT RESERVE															5,524		9,021
g. TOTAL		2,642	2,400	1,595	-242	806	277,659	275,698	265,626	-1,961	10,072	0	0	0	295,703		
9. RECONCILIATION TO CONTRACT BUDGET BASELINE																	
a. VARIANCE ADJUSTMENT																	
b. TOTAL CONTRACT VARIANCE																	
										-1,961	10,072			295,703	281,158	14,545	

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) 2017 / 07 / 24	
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE		b. TO (YYYYMMDD) 2017 / 08 / 20	
c. TYPE CPAF		d. SHARE RATIO		c. EVMS ACCEPTANCE NO <input type="checkbox"/> X YES (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)								
3G - K Basin Oper & Plateau Remediation Project	2,642	2,400	1,595	-242	806	277,659	275,698	265,626	-1,961	10,072	0	0	0	290,179	281,158	9,021		
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)	2,642	2,400	1,595	-242	806	277,659	275,698	265,626	-1,961	10,072	0	0	0	290,179	281,158	9,021		
f. MANAGEMENT RESERVE														5,524				
g. TOTAL	2,642	2,400	1,595	-242	806	277,659	275,698	265,626	-1,961	10,072	0	0	0	295,703				

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 15_D_401 KW Basin Sludge Removal Project		a. FROM (YYYYMMDD) 2017 / 07 / 24	
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE		b. TO (YYYYMMDD) 2017 / 08 / 20	
		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 SEPT 2017 (4)	+2 OCT 2017 (5)	+3 NOV 2017 (6)	+4 DEC 2017 (7)	+5 JAN 2018 (8)	+6 FEB 2018 (9)	2nd Qtr FY18 (10)	3rd Qtr FY18 (11)	FY18 (12)	FY19-LC (13)			
3G - K Basin Oper & Plateau Remediation Project	66	7042	91	66	91	63	73	61	73	61	41	0	0	0	7529
g. TOTAL DIRECT	66	7042	91	66	91	63	73	61	73	61	41	0	0	0	7529

Appendix C.4
Capital Asset Project
RL-0041_C1 – Project 618-10, 316-4 and
600-63 Waste Sites



T. L. Hobbes
Vice President for
618-10 Burial Ground

August 2017
CHPRC-2017-08, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

Workers at the 618-10 Burial Ground Complex continued successful remediation activities in the month of August. The 618-10 Burial Ground Complex downgraded to a non-Beryllium facility and submitted a letter to RL to re-categorize the facility to a less than hazard category 3 nuclear facility. Backfill at the 316-4 Waste Site continued ahead of schedule and under budget. Mass excavation efforts at the 618-10 Burial Ground continued to make significant progress. Remediation of the 600-63 Waste Site finished ahead of schedule on July 24, 2017. The project continued to consolidate excess materials and supplies for disposition and disposal.

KEY ACCOMPLISHMENTS

618-10 Burial Ground Mass Excavation (80 percent complete - baseline)

- 27,244 tons of contaminated soil sent to the Environmental Restoration Disposal Facility (ERDF); 138,553 total tons sent to ERDF to date.

316-4 Waste Site Backfill (50 percent complete - baseline)

- Backfill activities continued at the 316-4 Waste Site ahead of schedule.

600-63 Waste Site (100 percent complete)

- Excavation of the contaminated soil at the 600-63 Waste Site completed on July 24, 2017.
- 15,867 total tons excavated.

618-10 Burial Ground Complex Demobilization

- Crews continued consolidating and dispositioning miscellaneous materials/supplies to send off-site.

MAJOR ISSUES

RL and the Environmental Protection Agency (EPA) are in discussions on implementing additional cleanup requirements above Record of Decision (ROD) levels for the deep zone at the 618-10 Burial Ground to eliminate institutional controls. Decision pending.

CORRECTIVE ACTION LOG

Reference Appendix C.4 Format 5 for specific corrective actions for this Cap Asset Project (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

	Unmitigated Risk Impacts	Assessment		Comments											
		Month	Trend												
RL-0041/WBS-041															
Explanation of major changes to the project monthly spotlight chart: No major changes in the month of August.															
Realized Risks (Risks that are currently impacting project cost/schedule)															
No realized risks identified in the month of August.															
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)															
No critical risks identified in the month of August.															
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)															
Lifecycle Risk Triggers (Risk could be realized at any point of the project)															
RCC-316-4-09: 316-4 Discovery of Unexpected Waste/Contamination	Discovery of unexpected waste/contamination, waste/contamination quantities above what is assumed, waste/contamination that is above and beyond COCs and/or waste profile, and/or waste/contamination is found in the assumed clean area of the design. Resulting in greater than planned RAD controls, resulting in cost and schedule impacts. Risk Handling Strategy: Accept Probability: Very Low (<10%) Worst Case Impacts: \$240K, 48 day	●	↔	Risk Event: On Tuesday, November 29, 2016, CHPRC discovered debris (wood, metal, etc.) in the 316-4 overburden removal, and on Wednesday, November 30, 2016, radiologically contaminated soil and contaminated debris (plastic and piping) was encountered that was buried in the top 6 feet of overburden at the 316-4 waste site. On Wednesday, January 4, 2017, and Tuesday, January 24, 2017, additional contamination was discovered. Contamination was discovered approximately 4 feet above the anticipated location on March 27, 2017. <table border="1" style="width: 100%; border-collapse: collapse; font-size: 0.8em;"> <thead> <tr> <th style="width: 70%;">Risk recovery action(s)</th> <th style="width: 10%;">Risk Date</th> <th style="width: 10%;">FC Date</th> <th style="width: 10%;">%</th> </tr> </thead> <tbody> <tr> <td>Send backfill stockpile to ERDF.</td> <td rowspan="2" style="text-align: center;">11/29/16</td> <td style="text-align: center;">Complete</td> <td style="text-align: center;">100</td> </tr> <tr> <td>Update TCoPD to align with found conditions.</td> <td style="text-align: center;">5/26/17</td> <td style="text-align: center;">100</td> </tr> </tbody> </table> Recovery Action Assessment: The TCoPD for change proposal CP 041 304 1600 was submitted on May 26, 2017. The TCoPD captured schedule and cost changes that resulted from the contamination discoveries that occurred prior to March 2017. The excavation of the 316-4 Waste Site was completed on May 23, 2017, and backfill began on June 19, 2017. Due to the completion of the excavation, this risk is no longer a realized risk. Based on fourth quarter risk reviews with the project, this risk is completed and will be removed from the September Monthly Report.	Risk recovery action(s)	Risk Date	FC Date	%	Send backfill stockpile to ERDF.	11/29/16	Complete	100	Update TCoPD to align with found conditions.	5/26/17	100
Risk recovery action(s)	Risk Date	FC Date	%												
Send backfill stockpile to ERDF.	11/29/16	Complete	100												
Update TCoPD to align with found conditions.		5/26/17	100												
RCC-618-10-07: Contamination Event at 618-10 Waste Site	During fieldwork activities, a contamination event occurs that requires corrective actions, resulting in schedule and cost impacts. Risk Handling Strategy: Accept Probability: Low (10% to 25%) Worst Case Impacts: \$1,288K, 64 days	●	↔	Risk Trigger Metric: The risk could be triggered by high winds or operational upsets (i.e. spills or airborne release). <table border="1" style="width: 100%; border-collapse: collapse; font-size: 0.8em;"> <thead> <tr> <th style="width: 70%;">Mitigation action(s)</th> <th style="width: 10%;">FC Date</th> <th style="width: 20%;">%</th> </tr> </thead> <tbody> <tr> <td>Enhanced radiological controls implemented on project.</td> <td style="text-align: center;">Ongoing</td> <td style="text-align: center;">N/A</td> </tr> </tbody> </table> Mitigation Assessment: No changes in the month of August. Much of the 618-10 work is performed in hazardous and radioactive environments. By its nature, the work can be dangerous. Although CHPRC procedures, safety programs, and training programs are designed to minimize the potential loss of control of hazardous/radioactive substances, such an occurrence could be deemed to be significant enough to warrant corrective actions outside of the baseline (i.e. a prolonged work shutdown).	Mitigation action(s)	FC Date	%	Enhanced radiological controls implemented on project.	Ongoing	N/A					
Mitigation action(s)	FC Date	%													
Enhanced radiological controls implemented on project.	Ongoing	N/A													

Unmitigated Risk Impacts	Assessment		Comments						
	Month	Trend							
RL-0041/WBS-041									
RCC-618-10-09: Discovery of Unexpected Waste/Contamination Discovery of waste/contamination quantities above what is assumed, waste/contamination that is above and beyond COCs or waste profile, or waste/contamination is found in the assumed clean area of the design. Resulting in greater than planned RAD controls resulting in cost and schedule impacts. Risk Handling Strategy: Accept Probability: Very Low (<10%) Worst Case Impacts: \$1,280K, 64 days			Risk Trigger Metric: Baseline assumed contamination are is limited to design. This risk has the potential to occur again during mass excavation if additional waste/contamination is discovered.						
			<table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Closely managing waste inventories and discoveries, and making adjustments as required.</td> <td>Ongoing</td> <td>N/A</td> </tr> </tbody> </table>	Mitigation action(s)	FC Date	%	Closely managing waste inventories and discoveries, and making adjustments as required.	Ongoing	N/A
			Mitigation action(s)	FC Date	%				
Closely managing waste inventories and discoveries, and making adjustments as required.	Ongoing	N/A							
Mitigation Assessment: No changes in the month of August. The estimate for the remediation of the 618-10 Waste Site included an assumed amount of additional drums still to be remediated. The project identified unexpected additional drums that were not planned or estimated. The project will continue to closely monitor and manage waste inventories and any new discoveries.									
Unassigned Risks (Pending ownership of identified threats/opportunities)									
No unassigned risks identified in the month of August.									

CRITICAL PATH SCHEDULE

The critical path flows through 618-10 Burial Ground closeout sampling and analysis to support preparing calculations for backfill concurrence. Following receipt of backfill concurrence from RL/EPA, the project will begin backfill fieldwork activities. After successful completion of backfill, the project will finish infrastructure demobilization.

SCHEDULE MARGIN/MANAGEMENT RESERVE

Reference Appendix C.4 Formats 1, 2, 3, and 5 for specific schedule margin/management reserve utilization for this CAP.

CRITICAL DECISION MILESTONE STATUS

Number	Title	Due Date	Forecast Date	Status/ Comment
KPG #1	Complete 618-10 Trench remediation and retrieval of remaining 94 vertical pipe units	9/30/2017	9/18/2017	Completion Criteria: Complete trench remediation and waste disposition; retrieve and dispose of VPU waste and remove overcasings.
KPG #2	Complete 316-4 Waste Site and lysimeter facility remediation	9/30/2017	7/24/2017 (A)	Completion Criteria: Complete remediation and remove waste from 316-4 Waste Site and 600-63 Lysimeter Waste Site.
KPP #1	Complete the 618-10 Burial Ground Remediation	1/31/2020	5/17/2018	Completion Criteria: Complete remediation, closeout sampling, and backfill of the 618-10 Burial Ground.
KPP #2	Complete the Remediation of the 316-4 and 600-63 Waste Sites	1/31/2020	11/21/2017	Completion Criteria: Complete remediation, closeout sampling, and backfill of the 316-4 Waste Site and 600-63 Lysimeter Waste Site.
	CD-4 Closeout	1/31/2020	TBD	CD-4 closeout pending contract definitization.



GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None to report at this time.

DOE ACTIONS / DECISIONS

Description	CHPRC Delivery Date	Expected RL Due Date
RL/EPA Review & Approve Interim Backfill Concurrence for 618-10 Decision Unit #8	8/17/17 (A)	8/24/17
RL/EPA Review & Approve Interim Backfill Concurrence for 618-10 Decision Unit #1	8/29/17	9/4/17
RL/EPA Review & Approve Interim Backfill Concurrence for 618-10 Decision Unit #6	8/30/17	9/5/17
RL/EPA Review & Approve Interim Backfill Concurrence for 618-10 Decision Unit #7	9/1/17	9/7/17
RL/EPA Review & Approve Interim Backfill Concurrence for 618-10 Decision Unit #2	9/6/17	9/12/17
RL and Regulator Review of CVP and Waste Site Reclassification Form for 600-63 Waste Site	8/17/17 (A)	9/30/17
RL/EPA Review & Approve Interim Backfill Concurrence for 618-10 Decision Unit #3	9/26/17	10/2/17
RL and Regulator Review of CVP and Waste Site Reclassification Form for 316-4 Waste Site	8/21/17	10/4/17
RL/EPA Review & Approve Interim Backfill Concurrence for 618-10 Decision Unit #5	9/28/17	10/4/17
RL/EPA Review & Approve Interim Backfill Concurrence for 618-10 Decision Unit #11	9/29/17	10/5/17
RL/EPA Review & Approve Interim Backfill Concurrence for 618-10 Decision Unit #4	9/29/17	10/5/17
RL/EPA Review & Approve Interim Backfill Concurrence for 618-10 Decision Unit #10	11/15/17	11/21/17
RL/EPA Review & Approve Interim Backfill Concurrence for 618-10 Decision Unit #9	11/29/17	12/5/17
RL and Regulator Review of CVP and Waste Site Reclassification Form for 618-10 Burial Ground	3/7/18	4/20/18

Appendix C.4

RL-0041_C1 – Project 618-10, 316-4 and 600-63 Waste Sites

Contract Performance Reports

Format 1 - Work Breakdown Structure

Format 2 - Organizational Categories

Format 3 - Baseline

Format 4 - Staffing

Format 5 - Explanation and Problem Analysis



August 2017
CHPRC-2017-08, 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 PARS II - RL-0041.C1 Base Funded Nuc Fac D&D River Corr				a. NAME PARS II - RL-0041.C1 Base Funded Nuc Fac D&D River Corr				a. FROM (YYYYMMDD) 2017 / 07 / 24							
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE		c. EVMS ACCEPTANCE NO X YES (YYYYMMDD) 2009 / 09 / 18				b. TO (YYYYMMDD) 2017 / 08 / 20							
c. TYPE CPAF		d. SHARE RATIO															
5. CONTRACT DATA																	
a. QUANTITY 1	b. NEGOTIATED COST 0	c. ESTIMATED COST OF AUTHORIZED UNPRICED WORK 70,486	d. TARGET PROFIT/FEE 0	e. TARGET PRICE 0	f. ESTIMATED PRICE 56,199	g. CONTRACT CEILING 0	h. ESTIMATED CONTRACT CEILING 56,199	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 56,199						c. SIGNATURE			d. DATE SIGNED (YYYYMMDD)								
b. WORST CASE 56,400																	
c. MOST LIKELY 56,199		70,486		14,287													
8. PERFORMANCE DATA																	
CAPN.PBS Control Account.PARS 2 WBS (3)		CURRENT PERIOD				CUMULATIVE TO DATE				REPROGRAMMING ADJUSTMENTS			AT COMPLETION				
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-0041 Nuc Fac D&D - RC Closure Proj																	
RL_0041_C1.05.02 618-10 Burial Ground	2,254	2,408	1,481	153	927	41,773	40,779	29,703	-994	11,076	0	0	0	57,427	50,042	7,385	
RL_0041_C1.05.03 316-4 Waste Site	582	1,076	234	494	842	6,653	8,446	3,920	1,793	4,526	0	0	0	11,434	5,522	5,913	
RL_0041_C1.05.04 600-63 Waste Site	45	327	70	282	257	45	939	396	895	543	0	0	0	1,624	635	989	
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	2,881	3,811	1,785	930	2,026	48,471	50,164	34,020	1,693	16,145	0	0	0	70,486	56,199	14,287	
f. MANAGEMENT RESERVE														0			
g. TOTAL	2,881	3,811	1,785	930	2,026	48,471	50,164	34,020	1,693	16,145	0	0	0	70,486			
9. RECONCILIATION TO CONTRACT BUDGET BASELINE																	
a. VARIANCE ADJUSTMENT																	
b. TOTAL CONTRACT VARIANCE													1,693	16,145	70,486	56,199	14,287

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 PARS II - RL-0041.C1 Base Funded Nuc Fac D&D River Corr		a. NAME PARS II - RL-0041.C1 Base Funded Nuc Fact D&D River Corr		a. FROM (YYYYMMDD) 2017 / 07 / 24	
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE		b. TO (YYYYMMDD) 2017 / 08 / 20	
		c. TYPE CPAF	d. SHARE RATIO	c. EVMS ACCEPTANCE NO <input type="checkbox"/> X <input checked="" type="checkbox"/> YES (YYYYMMDD) 2009 / 09 / 18			

WBS FOC Control Account.PARS 2 WBS (3) ITEM (1)	CURRENT PERIOD					CUMULATIVE TO DATE					REPROGRAMMING ADJUSTMENTS			AT COMPLETION		
	BUDGETED COST		ACTUAL COST WORK PERFORMED (4)	VARIANCE		BUDGETED COST		ACTUAL COST WORK PERFORMED (9)	VARIANCE		COST VARIANCE (12a)	SCHEDULE VARIANCE (12b)	BUDGET (13)	BUDGETED (14)	ESTIMATED (15)	VARIANCE (16)
	WORK SCHEDULED (2)	WORK PERFORMED (3)		SCHEDULE (5)	COST (6)	WORK SCHEDULED (7)	WORK PERFORMED (8)		SCHEDULE (10)	COST (11)						
041.6 - 618 10 Projects																
RL_0041_C1.05.02 618-10 Burial Ground	2,254	2,408	1,481	153	927	41,773	40,779	29,703	-994	11,076	0	0	0	57,427	50,042	7,385
RL_0041_C1.05.03 316-4 Waste Site	582	1,076	234	494	842	6,653	8,446	3,920	1,793	4,526	0	0	0	11,434	5,522	5,913
RL_0041_C1.05.04 600-63 Waste Site	45	327	70	282	257	45	939	396	895	543	0	0	0	1,624	635	989
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)	2,881	3,811	1,785	930	2,026	48,471	50,164	34,020	1,693	16,145	0	0	0	70,486	56,199	14,287
f. MANAGEMENT RESERVE														0		
g. TOTAL	2,881	3,811	1,785	930	2,026	48,471	50,164	34,020	1,693	16,145	0	0	0	70,486		

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 PARS II - RL-0041.C1 Base Funded Nuc Fact D&D River Corr a. NAME: Plateau Remediation Contract b. PHASE c. EVMS ACCEPTANCE NO YES X 9/18/2009				4. REPORT PERIOD a. FROM: 2017/07/24 b. TO: 2017/08/20					
5. CONTRACT DATA																
a. ORIGINAL NEGOTIATED COST 0			b. NEGOTIATED CONTRACT CHANGE \$0		c. CURRENT NEGOTIATED COST (A + B) \$0		d. ESTIMATED COST AUTH UNPRICED WORK 70,486		e. CONTRACT BUDGET BASE (C + D) \$70,486		f. TOTAL ALLOCATED BUDGET \$70,486		g. DIFFERENCE (E - F) \$0			
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 Sep-17 (4)	+2 Oct-17 (5)	+3 Nov-17 (6)	+4 Dec-17 (7)	+5 Jan-18 (8)	+6 Feb-18 (9)	FY09-13 (10)	FY14 (11)	FY15 (12)	FY16 (13)	FY17 (14)	FY18 (15)		
a. PM BASELINE (BEGIN OF PERIOD)	45,590	2,881	4,182	1,457	1,742	1,741	1,413	1,868	0	0	0	3,497	49,156	17,833	0	70,486
b. BASELINE CHANGES AUTH DURING REPORT PERIOD																
RL_0041_C1.05.02 618-10 Burial Ground																
None at this time.													0	0	0	0
RL_0041_C1.05.03 316-4 Waste Site																
None at this time.													0	0	0	0
RL_0041_C1.05.04 600-63 Waste Site																
None at this time.													0	0	0	0
c. PM BASELINE (END OF PERIOD)	48,471	2,881	4,182	1,457	1,742	1,741	1,413	1,868	0	0	0	3,497	49,156	17,833	0	70,486

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 PARS II - RL-0041.C1 Base Funded Nuc Fac D&D River Corr		a. NAME PARS II - RL-0041.C1 Base Funded Nuc Fact D&D River Corr		a. FROM (YYYYMMDD) 2017 / 07 / 24	
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE		b. TO (YYYYMMDD) 2017 / 08 / 20	
		c. TYPE CPAF	d. SHARE RATIO	c. EVMS ACCEPTANCE <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES (YYYYMMDD) 2009 / 09 / 18			

WBS.FOC Control Account.PARS 2 WBS (3) 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 SEPT 2017 (4)	+2 OCT 2017 (5)	+3 NOV 2017 (6)	+4 DEC 2017 (7)	+5 JAN 2018 (8)	+6 FEB 2018 (9)	2nd Qtr FY18 (10)	3rd Qtr FY18 (11)	FY18 (12)	FY19-LC (13)		
041.6 - 618 10 Projects														
RL_0041_C1.05.02 618-10 Burial Ground	57	940	58	55	56	58	48	44	44	44	119	0	0	1422
RL_0041_C1.05.03 316-4 Waste Site	3	67	7	7	7	1	0	0	0	0	0	0	0	88
RL_0041_C1.05.04 600-63 Waste Site	3	13	3	4	3	0	0	0	0	0	0	0	0	22
g. TOTAL DIRECT	63	1020	68	65	65	59	48	44	44	44	119	0	0	1533

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 041 - RL-41 Nuclear Facility D&D - River Corridor		a. FROM (YYYYMMDD) 2017 / 07 / 24	
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE		b. TO (YYYYMMDD) 2017 / 08 / 20	
c. TYPE CPAF		d. SHARE RATIO		c. EVMS ACCEPTANCE No X Yes (YYYYMMDI 2009 / 09 / 18)			

5. Evaluation

Direct Projects

	Budget	Earned	Actuals	SV in \$	SV in %	CV in \$	CV in %	SPI	CPI
Current:	2,881.0	3,810.9	1,784.9	929.9	32.3%	2,026.0	53.2%	1.32	2.14
Cumulative:	48,471.0	50,164.2	34,019.6	1,693.2	3.5%	16,144.6	32.2%	1.03	1.47
	BAC	EAC	VAC in \$	VAC in %	TCPI to BAC	TCPI to EAC			
At Complete:	70,485.7	56,198.6	14,287.1	20.3%	0.56	0.92			

Explanation of Variance/Description of Problem:

CURRENT MONTH

The current month favorable schedule variance is primarily due to backfill activities at the 316-4 Waste Site and excavation at the 600-63 Waste Site being worked ahead of schedule.

The current month favorable cost variance is partially due to the 618-10 Burial Ground project management and support accounts that experienced significant underruns due to efficient use of resource sharing across the complex and reduced material usage. Backfill activities at the 316-4 Waste Site experienced cost efficiencies as the project was able to utilize existing crews and equipment to self-perform the work scope instead of hiring a separate subcontractor. Additionally, the 600-63 Waste Site was under budget due to the optimization of resources and equipment at the 618-10 Burial Ground Complex.

CONTRACT TO DATE

The cumulative favorable schedule variance is within threshold.

The cumulative favorable cost variance is partially due to the sharing of resources and materials among the projects, which has resulted in fewer purchased materials and lower labor costs. Attrition has led to a reduction in staffing and in cost with work still being completed on time with the resources left. Additionally, excavation efficiencies at the 316-4 Waste Site reduced the total volume of soil to be removed, and the availability of crews to self-perform backfill scope instead of hiring a separate subcontractor resulted in fewer costs than anticipated.

VARIANCE AT COMPLETION

The favorable variance at completion reflects the efficient practice of sharing resources and materials amongst the 618-10 Complex projects. Attrition has also led to a reduction in staffing and in cost with work still being completed on time with the resources left. Excavation efficiencies and self-performing backfill instead of hiring a separate subcontractor at the 316-4 Waste Site reduced the total cost to complete the project, and the optimization of resources and equipment at the 618-10 Burial Ground Complex reduced the total cost to complete excavation at the 600-63 Waste Site.

IMPACTS

There are no current impacts to the project schedule or cost.

Corrective Action:

Corrective Action:

None.

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

- Schedule Margin Analysis: N/A, pending definitization of the scope.
- IMS Data dictionary Changes: None in the month of August.
- Forecast Schedule with No Baseline: None in the month of August.
- UB Balance: N/A
- Negative ACWP: There was negative ACWP in the 316-4 Waste Site Closeout Sampling and Documentation account during this period due to the reversal of an overstated subcontract accrual from the prior period.
- EAC Analysis: Best Case: \$56,199; Most Likely: \$56,199; Worst Case: \$56,400
- Negative CV > VAC: N/A
- MR Transactions: None in the month of August.
- Freeze Period Changes: None in the month of August.
- Retroactive Changes: None in the month of August.
- EVT Changes: None in the month of August.

*During the Month of April CHPRC kicked off the FY2018 comprehensive EAC process (ZZCSMILE1117A, Kickoff FY18 Annual Comprehensive EAC), and is expected to finish mid-September (ZZCSMILE1117B, Submit Final FY18 Annual Comprehensive EAC).