

Monthly Performance Report

February 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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L. Ty Blackford
President and Chief
Executive Officer

Monthly Performance Report

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February 2017
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CONTENTS

EXECUTIVE SUMMARY	2
TARGET ZERO PERFORMANCE	4
KEY ACCOMPLISHMENTS	6
MAJOR ISSUES.....	6
EARNED VALUE MANAGEMENT	8
FUNDING ANALYSIS	10
BASELINE CHANGE REQUESTS	11
SELF-PERFORMED WORK.....	15
GOVERNMENT FURNISHED SERVICES AND INFORMATION.....	16
DOE ACTIONS / DECISIONS	16

PROJECT BASELINE SUMMARY SECTIONS

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

APPENDICES

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

EXECUTIVE SUMMARY

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

- At the Plutonium Finishing Plant (PFP), crews began to relocate demolition debris that was involved in the January 27, 2017, continuous air monitor alarm. The debris required special handling and will be loaded into containers for disposal at the Environmental Restoration Disposal Facility (ERDF). Workers also moved the dress/undress area out of 234-5Z in advance of isolating power to the building.
- At the Waste Encapsulation and Storage Facility (WESF), after conducting mock-ups/training exercises, workers performed entries into the WESF canyon to begin mitigating a hot spot in temporary ventilation. Mitigating the hot spot was necessary before hot cell grouting (stabilization) could resume and finish.
- At the Soil and Groundwater Remediation Project workers completed construction of SE chromium plume well 699-32-64. The following two chromium plume wells remain: well 699-30-63 is under construction and well 699-32-59 has been drilled.
- K Basins Operations and Remediation Project crews completed the installation of sludge removal hardware and equipment in the 100K Basin and in the Annex.
- The 324 Building Remediation Project poured a concrete test pad at the Maintenance and Storage Facility for eventual use in testing a mock-up floor saw. The floor saw will be used to provide proof-of-concept information for the equipment to cut through the stainless steel lined and concrete floor of B-Cell inside the 324 Building.
- Crews at the 618-10 Burial Ground completed the waste retrieval from the last of the 80 low-level vertical pipe units (VPUs). Remediation of the remaining 14 steel VPUs is moving forward.

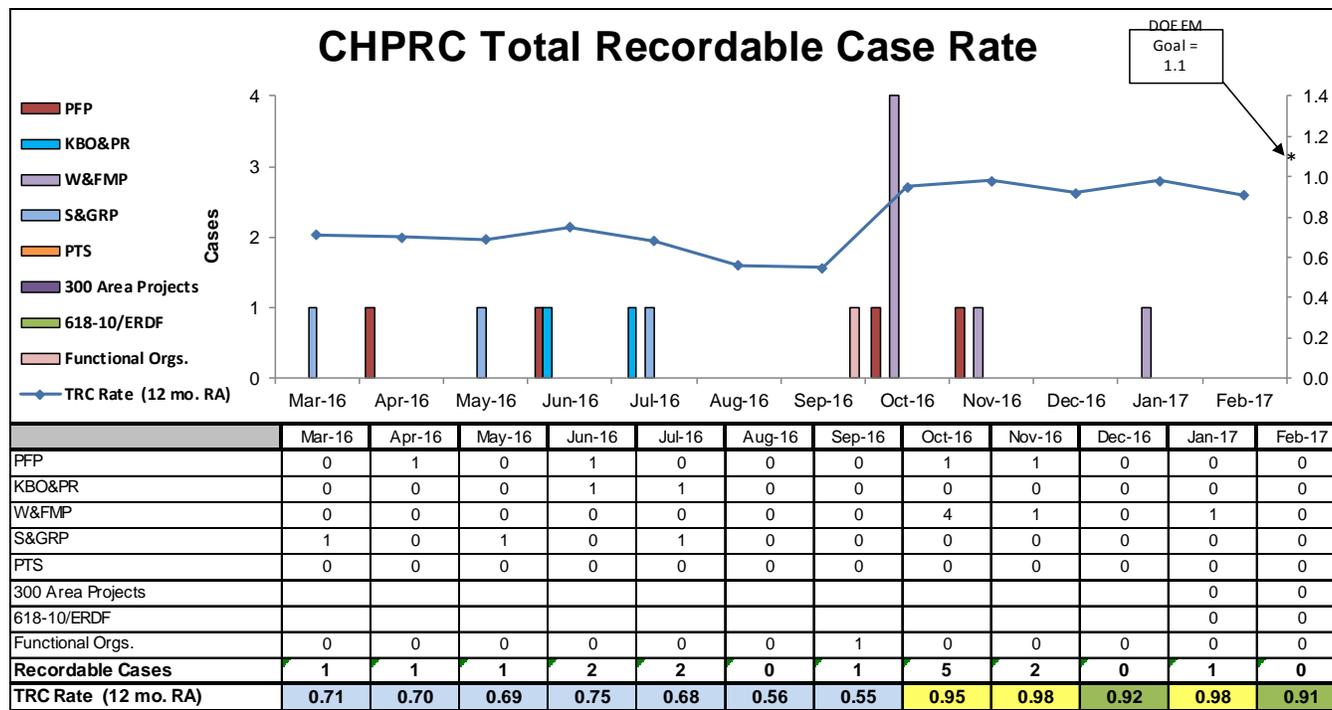


Sludge Storage Transfer Containers arrive at 100K for use at the Annex for testing purposes.

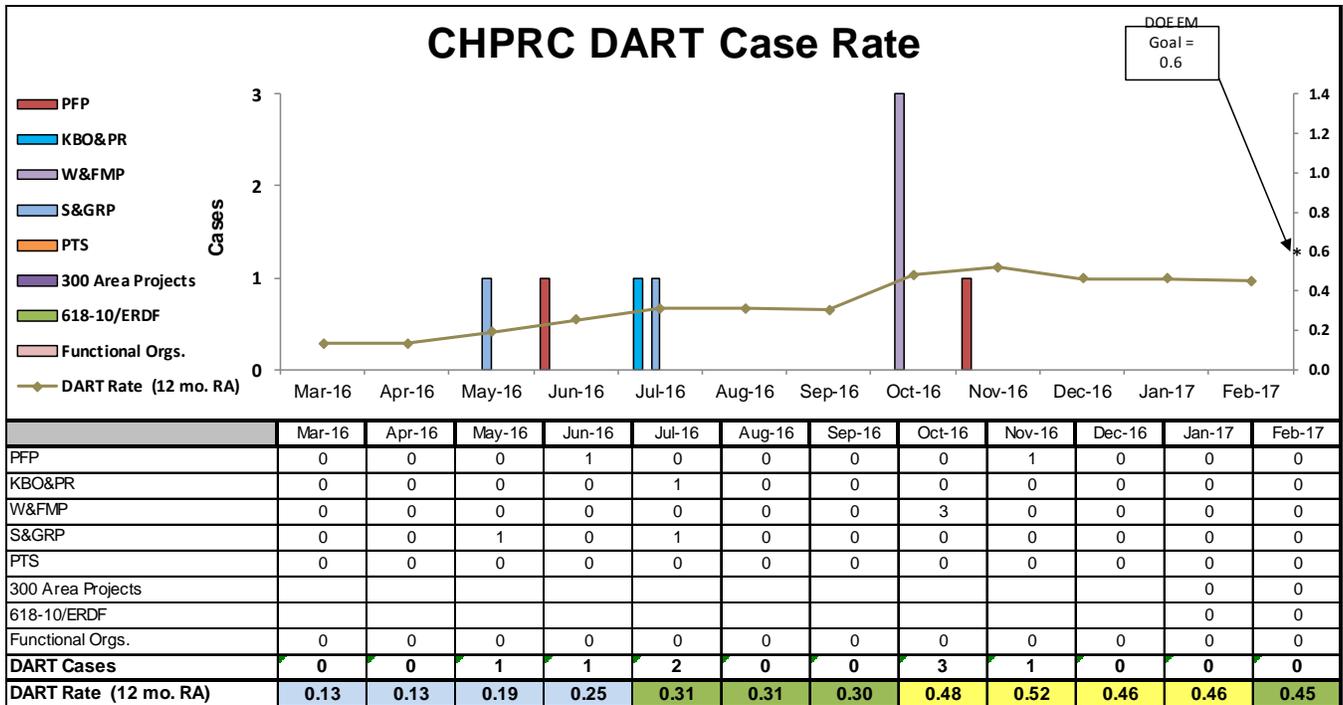
- The President’s Zero Accident Council (PZAC) meeting held in February was hosted by Waste & Fuels Management Program. The three main themes were:
 - Communication is Key – Calling a “recess” and having a discussion is critical to ensure accurate information is provided.
 - Proper Planning – Not all hazards are obvious until a proper walk down of the work location has been conducted.
 - Physical and Emotional Effects of Stress – Every system of the body responds to stress in varying ways that influence how people feel and behave.
- Four “*Thinking Target Zero*” (TTZ) bulletins were published to convey important occupational, safety, health, and environmental messages:
 - Voluntary Protection Program (VPP) – Where do we go from here.
 - Healthy Heart.
 - Exposure Assessments.
 - Rest for Safety.
- Two Special Safety Bulletins were delivered in February:
 - Dosimeter Handling - Through Federal Building Security.
 - Common tools – Uncommon Injuries.
- *Weekly Safety Tailgate* briefing packages communicated relevant topics and safety information to the workforce:
 - Four Lessons Learned:
 - National Security Technologies – Developing lines of inquiry for assessment checklists.
 - U.S. Department of Labor, Mine Safety and Health Administration (MSHA) – Fatal Accidents Alert.
 - Additional care should be taken while using power tools in areas with limited fields of view.
 - Pacific Northwest National Laboratory (PNNL) – Worker breaks foot after heavy item falls out of box stored on shelf.
 - Weekly Ethics Moments.
 - Medical Identification phone application.
 - Globally Harmonized System labels.
 - Safety Re-focus.
 - Vehicle Events.
 - When to call 911.
- The *Kudos Corner* recognized individuals and teams who made a significant contribution to safety at work, home or play:
 - Kudos to PFP workforce who safely responded to the continuous air monitor alarm during demolition activities last week.
 - Kudos to all of the PFP workforce for participating and contributing to discussions at the PFP project step back and refresh on February 6, 2017.
 - Kudos to the PFP and contractor electricians who stopped what they were doing when they noticed a service panel was not configured as expected when they were working on it, allowing them to re-plan the work to ensure it was done safely.
 - Kudos to a 100K worker for practicing Safety 24/7 on the way to work when he helped out two cars involved in a collision on Highway 240. After checking on the passengers in both cars, he stayed at the scene until the police and paramedics arrived. His actions demonstrate his concern for the well-being and safety of others coming onto the crash scene.

TARGET ZERO PERFORMANCE

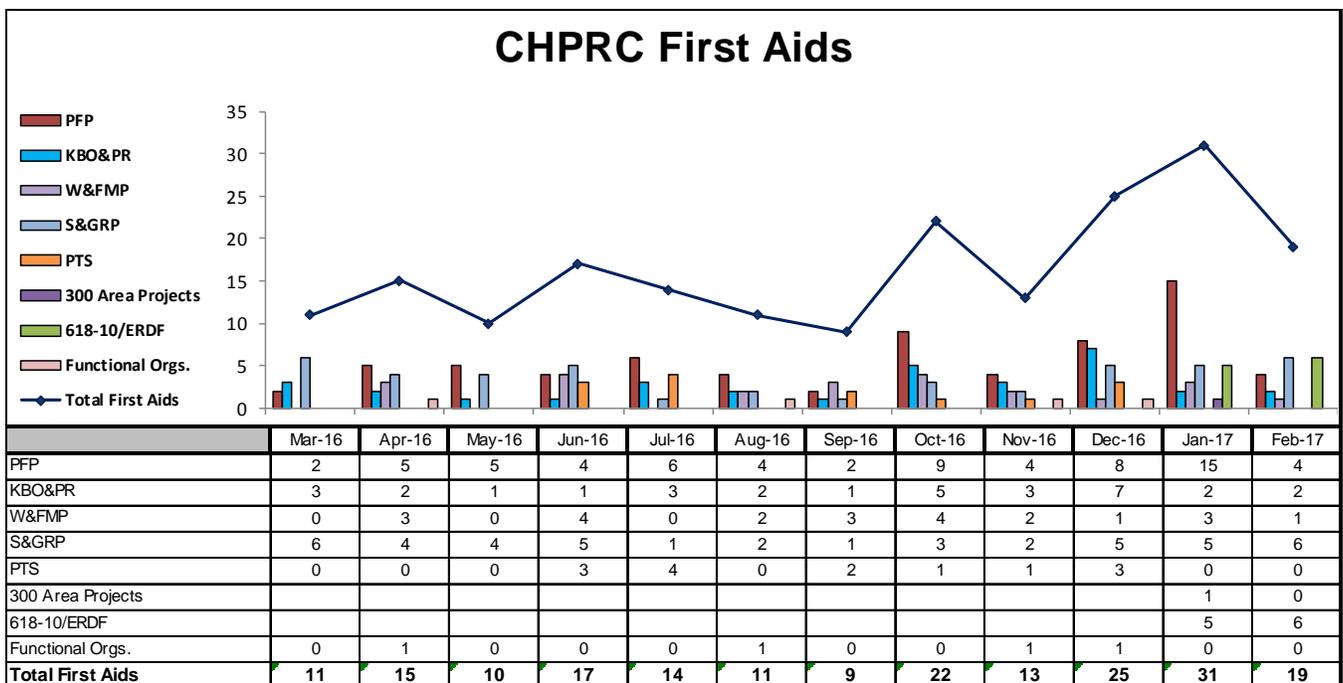
CHPRC continued focusing on integrating and implementing safety programs in all program and project areas.



Total Recordable Injury Case (TRC) Rate: The 12-month rolling average TRC rate of 0.91 is based on a total of 16 Recordable injuries. There was no Recordable cases for February.



Days Away, Restricted or Transferred (DART) Workdays Case Rate: The 12-month rolling average DART rate of 0.45 is based upon a total of eight Days Away cases. There were no DART cases in February.



First Aid Case Summary: CHPRC reported 19 first aid cases in February. The contributors were ten sprains/strains/pains, eight abrasions/bruises/contusions and one cuts/lacerations/punctures injury.

KEY ACCOMPLISHMENTS

Projects

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

Project Services and Support (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:

Unusually severe weather has continued to cause negative schedule impacts to programmatic and performance measure due dates and increased costs.

Corrective Action:

- Evaluate potential work arounds to mitigate impacts.
- Submit notice to DOE Richland Operations Office (RL) for excusable delays related to unusually severe weather conditions.
- Assess current and future impacts of these disruptions to schedule and cost and submit Request for Equitable Adjustment (REA) to RL.

Status:

- Continued severe winter weather has limited ability to recover delays.
- Submitted REA to RL on January 24, 2017 (CHPRC-1700206 – *Request for Excusable Delay Due to Unusually Severe Weather*).
- Efforts to quantify schedule and cost impacts are continuing.

Issue:

Work authorization has not been provided by RL for scope associated with one FY2017 Performance Measure, potentially putting CHPRC's ability to complete it in FY2017 at risk.

Corrective Action:

- Obtain RL authorization to proceed on scope associated with:
 - PM-13-2-17, Repackage 280m3 of TRUM or MLLW - authorization needed to accelerate FY2018 scope in order to complete the Performance Measure.

Status:

- CHPRC is working with Federal Project Director (FPD) and RL Contracting Officer (CO) to facilitate RL issuing required acceleration authorization and Notice to Proceed.

Issue:

Significant Contract Change Management is ongoing and will be required to be resolved to retain Plateau Remediation Contract (PRC) alignment for FY2017/FY2018.

- Backlog of undefinitized Change Proposals (CP) - ~35 CPs totaling \$241 million in net value (RCCC scope, WA-1 Characterization, and other Change Orders valued at ~\$287 million offset by Management of Cesium and Strontium Capsules Capital Asset Project deduct proposal valued at ~\$46 million for work to be completed outside CHPRC period of performance).

- Effort is continuing to require significant RL and CHPRC resources. CHPRC is being challenged to keep up with RL requests for CP, Request for Information, and Truthful Cost or Pricing Data submittal requests due to finite number of SMEs and Estimators.
- CP definitization is required to reach agreement on firm FY2017/FY2018 performance expectations.

Corrective Action:

- Work with RL to reach agreement on PRC FY2017/2018 alignment and support RL evaluation and determination of the disposition of undefinitized CHPRC CPs.

Status:

- Two additional CPs were submitted to RL in February, increasing backlog.
- CHPRC continues to discuss proposed alignment strategy with RL.
- CHPRC is making it a priority to respond to RL Requests for Information and Truthful Cost or Pricing Data submittal requests in a timely manner to provide RL with current information to enable them to negotiate and definitize open changes.

Issue:

Resource Availability/Staffing Needs – Schedule delays and emerging issues at PFP has resulted in the need for unplanned resources and delayed planned roll-off of PFP staff. Delay has impacted workforce restructuring planning and may impact other projects ability to perform other activities as planned due to unavailability of staff assumed to be released by PFP.

Corrective Action:

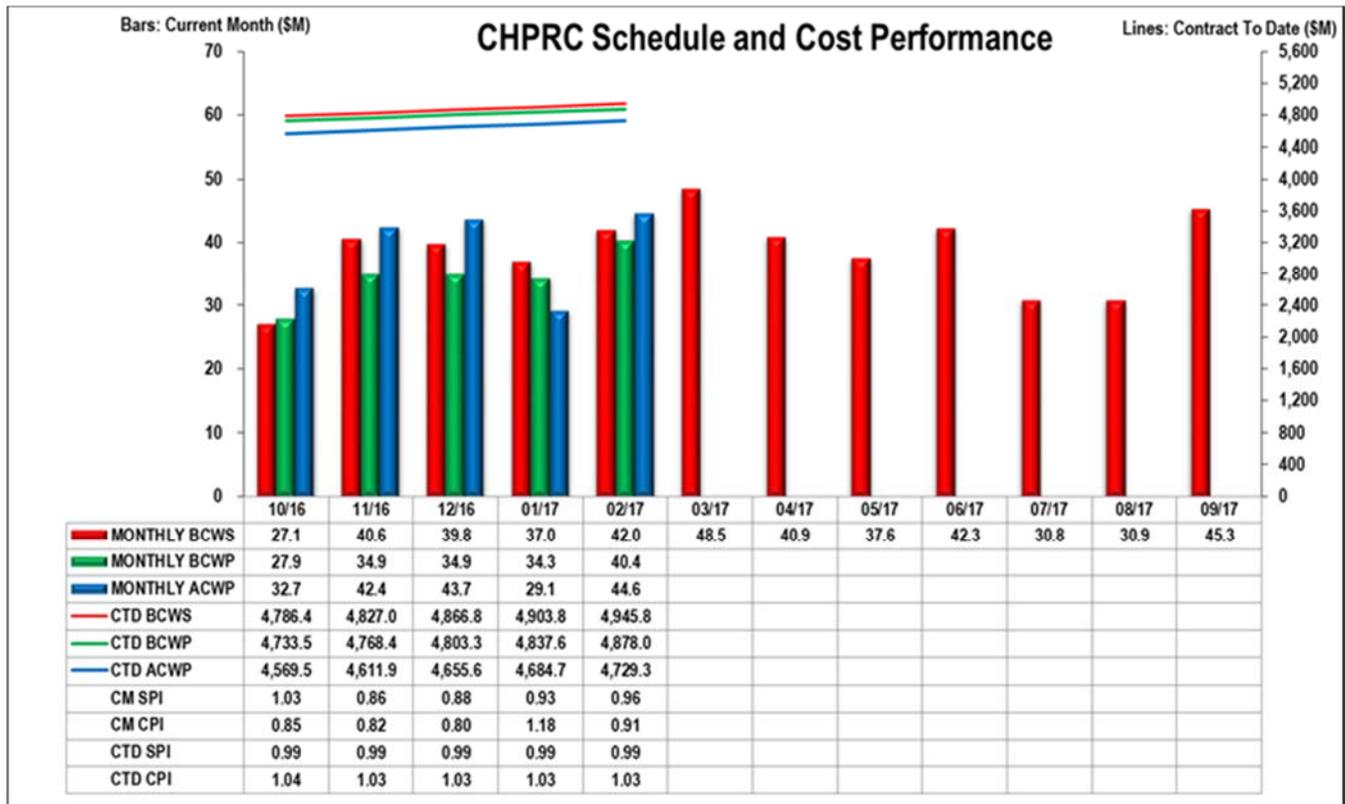
- Update staffing analysis to evaluate options to support work priorities and workforce restructuring.
- Hire short-term craft personnel to support PFP and other project needs.

Status:

- Updated staffing analysis addressing the delay in the PFP planned roll-off and other project staffing needs has been addressed.
- Short-term craft personnel continue to be hired to support PFP as well as other project needs prior to PFP roll-off.

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 to Date			Contract Period				
	Budgeted Cost	Actual Cost	Variance	Budgeted Cost	Actual Cost	Variance	Budgeted Cost	Actual Cost	Variance	BAC	EAC	Variance	
	BCWS	BCWP	ACWP	Schedule	Cost	BCWS	BCWP	ACWP	Schedule	Cost			
RL-0011 - Nuclear Materials Stab & Disp PFP	0.9	4.9	9.9	4.0	(5.0)	978.8	927.7	988.8	(51.1)	(61.1)	980.3	1,054.3	(74.0)
RL-0012 - SNF Stabilization & Disposition	6.6	6.1	6.3	(0.5)	(0.1)	653.3	656.7	626.1	3.3	30.5	740.2	710.7	29.4
RL-0013 - Solid Waste Stab & Disposition	9.4	8.7	7.4	(0.7)	1.3	1129.3	1129.1	1056.0	(0.3)	73.0	1,345.4	1,290.6	54.8
RL-0030 - Soil & Water Rem-Grndwtr/Vadose	12.7	9.4	9.3	(3.3)	0.1	1336.2	1315.8	1282.0	(20.4)	33.8	1,566.5	1,496.2	70.3
RL-0040 - Nuc Fac D&D - Remainder	1.2	1.2	2.0	(0.0)	(0.8)	432.3	427.9	398.3	(4.4)	29.6	477.5	454.2	23.3
RL-0041 - Nuc Fac D&D - RC Closure Project	11.0	9.9	9.6	(1.1)	0.3	392.9	398.0	359.3	5.1	38.7	535.4	486.3	49.2
RL-0042 - Nuc Fac D&D - FFTF Project	0.2	0.2	0.2	(0.0)	(0.0)	23.0	22.9	18.8	(0.0)	4.2	26.5	23.5	3.0
Total	42.0	40.4	44.6	(1.6)	(4.2)	4,945.8	4,878.0	4,729.4	(67.8)	148.7	5,671.8	5,515.7	156.1

(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 contract scope within budget and is currently projecting a Variance at Completion of \$156.1 million with \$66.6 million of Management Reserve (MR) for a total positive variance of \$222.7 million. For February, the project was 3.8 percent behind schedule and 10.4 percent over planned cost. Contract to Date (CTD), the project was 1.4 percent behind schedule and 3.0 percent under planned cost.

The current month schedule variance is within reporting thresholds.

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 both Minimum Safe, Maintenance, and D&D project management resources. In addition; asbestos abatement, E4 duct removal, and process vacuum removal are all requiring more time and additional resources to complete work. Additional resources (i.e., pipefitters, electricians, insulators, Rad Con Technicians) have also been hired temporarily to attempt to recover schedule. Additional activities have been identified that require removal of an additional ~10,000 feet of asbestos that was not visible on any plant drawings when the baseline was developed further delaying the demolition ready activities. Due to delays in ready-for-demo activities, resources supporting waste processing activities that were planned to be completed in FY16 are continuing to charge for support of waste loadout, processing, and shipping. Additional unplanned shipping materials (Waste shipping containers (TL-1800s, SLB2s, IP-1 bags, etc.) were also required to support waste loadout activities. Continuation of quarterly stipend certification payments is also contributing to this variance. In addition, due to the historical (December, 2015) radiological issues resulting in compensatory measures that have been implemented at PFP, additional radiological and industrial hygiene resources have been assigned to support the PFP Project until the slab on grade milestone is met. This is partially offset by PBS RL-0013 W-130 WESF Ventilation and Stabilization Project (~\$1.0 million). Recovery work was performed more efficiently than planned (~\$300K). In addition, receipt of contractor costs (~\$600K) were delayed due to ongoing negotiations and change orders.

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	104.9	111.9	(7.0)
RL-0012	Spent Nuclear Fuel Stabilization and Disposition	36.6	31.7	4.9
RL-0012	15-D-401 Sludge Retrieval Project	57.8	48.9	8.9
RL-0013	Waste and Fuels Management Project	103.3	92.6	10.7
RL-0030	Soil, Groundwater and Vadose Zone Remediation	130.7	106.0	24.6
RL-0040	Nuclear Facility D&D, Remainder of Hanford	36.1	22.1	14.0
RL-0041	Nuclear Facility D&D, River Corridor	139.4	108.0	31.4
RL-0042	Fast Flux Test Facility Closure	3.9	2.1	1.7
Total Estimate at Complete		612.6	523.4	89.2
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	0.0	(0.0)
RL-0012	15-D-401 Sludge Retrieval Project	0.0	0.0	(0.0)
RL-0013	Waste and Fuels Management Project	0.0	5.0	(5.0)
RL-0030	Soil, Groundwater and Vadose Zone Remediation	0.0	18.7	(18.7)
RL-0040	Nuclear Facility D&D, Remainder of Hanford	0.0	10.4	(10.4)
RL-0041	Nuclear Facility D&D, River Corridor	0.0	19.5	(19.5)
RL-0042	Fast Flux Test Facility Closure	0.0	0.0	0.0
Total Incremental Work Scope		0.0	53.6	(53.6)
Total Fiscal Year Spend Forecast				
RL-0011	Nuclear Materials Stabilization and Disposition	104.9	111.9	(7.0)
RL-0012	Spent Nuclear Fuel Stabilization and Disposition	36.6	31.7	4.9
RL-0012	15-D-401 Sludge Retrieval Project	57.8	49.0	8.9
RL-0013	Waste and Fuels Management Project	103.3	97.6	5.7
RL-0030	Soil, Groundwater and Vadose Zone Remediation	130.7	124.7	5.9
RL-0040	Nuclear Facility D&D, Remainder of Hanford	36.1	32.5	3.6
RL-0041	Nuclear Facility D&D, River Corridor	139.4	127.5	11.9
RL-0042	Fast Flux Test Facility Closure	3.9	2.1	1.7
Total		612.6	577.1	35.6

Funds/Variance Analysis

FY2017 expected funding did not change during the month of February and remains at \$612.6 million. The total Spending Forecast increased by \$2.2 million from last month primarily in PBS RL-0041. The increase reflects a continued ramp-up in staffing based on analysis of staff on board and acceleration of construction scope in the 300-296 project.

BASELINE CHANGE REQUESTS

In February 2017, CHPRC approved and implemented 14 Baseline Change Requests (BCRs) into the Performance Measurement Baseline (PMB). Each change request is identified in the table below:

Change Request #	Title	PBS	Summary of Change
BCR-000-17-001R0	<i>Incorporate Beryllium Exposure Medical Removal Costs</i>	000's	This BCR incorporated the impact of the site Operational Medical Director placing a Subcontract employee on permanent medical removal from beryllium exposure. This BCR does not change the PMB value.
BCR-011C-17-007R0	<i>RL-011 Correct Schedule Constraint on Milestone – PFP CAP 1</i>	RL-0011	This BCR corrected schedule constraint on milestone activity ZZ11.06.01.01.0020 – RL-0011.C1 CD-4 Closeout Complete. This BCR does not change the PMB value.
BCR-013-17-005R0	<i>W-135 Additional Schedule Details and Deliverables (Non-CAP)</i>	RL-0013	This BCR planned the existing scope of the W-135 Capsule Extended Storage Project (Non-CAP) in additional detail to better define the scope planned to be executed and more accurately measure the performance of that scope. This BCR does not change the PMB value.
BCR-013C-17-006R0	<i>W-135 Additional Schedule Details and Deliverables (CAP)</i>	RL-0013	This BCR planned the existing scope of the W-135 Capsule Extended Storage Project (CAP) in additional detail to better define the scope planned to be executed and more accurately measure the performance of that scope. This BCR does not change the PMB value.
BCR-013-17-009R0	<i>W-130 WESF Ventilation and Stabilization Project, MR Draw for Contamination Events</i>	RL-0013	This BCR drew down Management Reserve (MR) for the change in execution strategy due to the realization of risk id WSD-W130-22 – Loss of contamination control due to invasive activities, resulting in contamination of the temporary ventilation system and a concrete pumper truck. This BCR increased the PMB value by \$3,279K.
BCRA-013-17-010R0	<i>RL-013 EVM Coding Correction</i>	RL-0013	This BCR corrected the EVM coding for activities CWEL1000 and CWEL1010 to a 0-100 method, aligning with the historical EVM for these activities. This BCR does not change the PMB value.
BCRA-030-17-009R0	<i>Revise RL-0030 Risk ID Activity Coding</i>	RL-0030	This BCR updated the risk ID coding for RL-030. This BCR does not change the PMB value.
BCR-030-17-010R0	<i>Align 200-UP-1 Well Drilling Campaign to Execution Plan</i>	RL-0030	This BCR aligned the wells within 200-UP-1 with the drilling campaigns where they will be performed. This BCR does not change the PMB value.
BCR-040-17-007R0	<i>Defer Outer Area Waste Site Remediation Planning Package</i>	RL-0040	This BCR deferred the start of the Outer Area Waste Sites Remediation Planning Package. This BCR does not change the PMB value.
BCR-040-17-008R0	<i>Incorporate CO #321, RCRA Part B Permit Modification</i>	RL-0040	This BCR incorporated the scope associated with the Not-to-Exceed (NTE) value for Change Order (CO) #321. The change order directs CHPRC to assume the responsibilities for managing reissuance of the Resource Conservation and Recovery Act (RCRA) Part B Permit Modification for the Hanford Site. This BCR increased the PMB value by \$50K.
BCR-041-17-009R0	<i>Incorporate CO #305, Mockup Equipment Purchases</i>	RL-0041	This BCR incorporated scope associated with the additional \$7.5 million NTE value for Change Order (CO) #305, 300-296 Waste Site Design Revision, as authorized by Contract Modification 563. This BCR increased the PMB value by \$5,281K.

BCR-PRC-17-015R0	<i>Definitization of CO #289, Transfer of RCCC work scope</i>	RL-0011, RL-0012, RL-0013, RL-0040, RL-0041, 000's	This BCR incorporated the definitization of CO #289 for the Transfer of River Corridor Closure Contract (RCCC) work scope to PRC under Contract Modification 559. This BCR decreased the PMB value by \$24K.
BCRA-PRC-17-017R0	<i>HPIC Updates February 2017</i>	RL-0011, RL-0012, RL-0013, RL-0030, RL-0040, RL-0041, 000's	This BCR incorporated February FY2017 Hanford Programs Integrated Control Module (HPIC) updates. This BCR does not change the PMB value.

The Allocated (Distributed) Budget increased by \$8,586K.

Undistributed Budget Activity

BCR Number	Title	PBS	Fiscal Year	UB
BCR-PRC-17-016R0	<i>Undistributed Budget Adjustments February 2017</i>	RL-0013 RL-0030, RL-0040, RL-0041	2017-2018	\$-2,595K

The Undistributed Budget decreased by \$2,595K.

Management Reserve Activity

BCR Number	Title	PBS	Fiscal Year	MR
BCR-013-17-009R0	<i>W-130 WESF Ventilation and Stabilization Project, MR Draw for Contamination Events</i>	RL-0013	2017 - 2018	\$-3,279K
BCR-PRC-17-015R0	<i>Definitization of CO #289, Transfer of RCCC work scope</i>	000's, RL-0011, RL-0012, RL-0013, RL-0040, RL-0041	2017 - 2018	\$1,047K

Overall, there was a decrease in Management Reserve (MR) of \$2,232K during February.

Fee Activity

BCR Number	Title	PBS	Fiscal Year	Fee
BCR-PRC-17-015R0	<i>Definitization of CO #289, Transfer of RCCC work scope</i>	000's, RL-0011, RL-0012, RL-0013, RL-0040, RL-0041	2017 - 2018	\$85K

Overall, there was an increase to Fee of \$85K during February.

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

February 2017 Summary of Changes

	FY 2009-2013	FY2014	FY2015	FY2016	FY2017	FY2018	FYs 2014-2018	Contract Period Total	Total PMB
January 2017 Estimate									
PMB	3,391,477	391,653	471,323	504,826	456,588	449,911	2,274,300	5,665,777	5,665,777
MR	0	0	0	0	36,583	32,237	68,821	68,821	68,821
Fee	155,504	14,325	14,501	27,804	10,461	18,636	85,726	241,230	241,230
Total	3,546,981	405,978	485,824	532,630	503,632	500,784	2,428,847	5,975,828	5,975,828
February 2017 Change									
PMB									
Change to PMB	0	0	0	0	6,228	-237	5,992	5,992	5,992
MR									
Change to MR	0	0	0	0	-2,232	0	-2,232	-2,232	-2,232
Fee									
Change to Fee	0	0	0	0	85	0	85	85	85
Total Change	0	0	0	0	4,081	-237	3,845	3,845	3,845
February 2017 Estimate									
PMB	3,391,477	391,653	471,323	504,826	462,816	449,674	2,280,291	5,671,768	5,671,768
MR	0	0	0	0	34,351	32,237	66,589	66,589	66,589
Fee	155,504	14,325	14,501	27,804	10,546	18,636	85,811	241,315	241,315
Total	3,546,981	405,978	485,824	532,630	507,713	500,547	2,432,692	5,979,672	5,979,672

Changes to/Utilization of Management Reserve in February 2017

	FY2009-2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2014-2018	Total
January 2017 MR Totals								
RL-0011	0	0	0	0	6,811	0	6,811	6,811
RL-0012	0	0	0	0	6,567	3,262	9,829	9,829
RL-0013	0	0	0	0	4,249	7,208	11,456	11,456
RL-0030	0	0	0	0	8,883	10,380	19,263	19,263
RL-0040	0	0	0	0	1,941	439	2,380	2,380
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	36,584	32,237	68,821	68,821
February 2017 MR Changes/Utilization								
RL-0011	0	0	0	0	189	0	189	189
RL-0012	0	0	0	0	216	0	216	216
RL-0013	0	0	0	0	(2,827)	0	-2,827	-2,827
RL-0030	0	0	0	0	0	0	0	0
RL-0040	0	0	0	0	190	0	190	190
RL-0041	0	0	0	0	0	0	0	0
RL-0042	0	0	0	0	0	0	0	0
Total	0	0	0	0	-2,232	0	-2,232	-2,232
February 2017 MR Totals								
RL-0011	0	0	0	0	7,000	0	7,000	7,000
RL-0012	0	0	0	0	6,783	3,262	10,045	10,045
RL-0013	0	0	0	0	1,422	7,208	8,629	8,629
RL-0030	0	0	0	0	8,883	10,380	19,263	19,263
RL-0040	0	0	0	0	2,131	439	2,570	2,570
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	34,352	32,237	66,589	66,589

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 - 2/28/2017				Planned Subcontracting:	\$2,720,084,369
Reporting Category				Contract-to-date awards:	\$2,493,379,935
				Bal remaining to award:	\$226,704,434
	\$ Value	%	Goal %	Goal award\$	Bal to Goal
SB	\$1,357,699,706	54.45%	49.3%	\$1,341,001,594	-\$16,698,112
SDB	\$236,779,318	9.50%	8.2%	\$223,046,918	-\$13,732,399
SWOB	\$265,467,326	10.65%	7.5%	\$204,006,328	-\$61,460,998
HUB	\$57,413,098	2.30%	2.2%	\$59,841,856	\$2,428,758
VOSB	\$190,153,773	7.63%	3.5%	\$95,202,953	-\$94,950,820
SDVO	\$110,540,283	4.43%	1.3%	\$35,361,097	-\$75,179,187
NAB	\$51,629,517	2.07%	N/A		
Large	\$645,727,624	25.90%	N/A	PRC clause H.20 small business requirement ≥ 17% of CHPRC Contract Price performed by SB.	
GOVT	\$2,782,185	0.11%	N/A		
GOVT CONT	\$482,866,522	19.37%	N/A		
EDUCATION	\$109,239	0.00%	N/A	CHPRC Contract Value:	\$5,732,255,464
NONPROFIT_	\$3,769,797	0.15%	N/A	17% rqmt:	\$974,483,429
FOREIGN	\$424,861	0.02%	N/A	SB actual:	\$1,357,699,706
Total	\$2,493,379,935	100.00%	N/A	Bal to rqmt	-\$383,216,277

Notes:

1. Since the CHPRC contract award in October 2008, CHPRC has subcontracted \$2.5 billion in goods and services with over 54 percent going to small businesses. Nearly all subcontracting goals have been exceeded.
2. Approximately 91 percent of the total dollars arise from service and staffing contracts and contract amendments with 6 percent of the remaining expenditures arising from P-Card purchases and 3 percent from the balance in purchase orders for materials and equipment.
3. Data is summarized by business categories (Women Owned Minority Business Enterprise codes) in accordance with socioeconomic reporting requirements. Small business categories overlap and should not be added together.

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

Contract Section	Project	GFS/I	Status
CONTRACT			
J.12/C.2.2, C.2.3	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	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

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

February 2017
CHPRC-2017-02, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

The removal of plutonium-contaminated process equipment continued with a particular focus on removing gloveboxes, associated piping, and ductwork. All gloveboxes have been removed from E4 ventilation and all preparations for demolition starting in Plutonium Reclamation Facility (PRF) are complete. Initiation of demolition on the PRF started early November 2016. Initiation of demolition on the 242-Z Facility started in early January 2017.

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

Significant accomplishments in February included:

- Continued demolition of Building 242-Z.
- Continued preparations for removal of HA-7A, HC-7C, and HC-18M gloveboxes from 234-5Z.
- Grouting of the 234-5Z pipe trenches is 86 percent complete.
- Continued preparations for the draining, venting, isolating, drying, and epoxy filling of Transuranic (TRU) drain lines in the 234-5Z below-grade tunnels.
- Continued demolition activities on 236-Z Facility.
- Continued cold and dark activities to support disconnect of the 13.8 Power Supply to PFP.
- Abated 783 feet of asbestos.
- Removed or dispositioned in place 251 feet of process vacuum piping.
- Shipped 57 m³ TRU Waste.
- Shipped 210 m³ Low Level Waste/Mixed Low Level Waste (LLW/MLLW).

Key Metrics

<i>Key Performance Indicators</i>	<i>Current Month</i>	<i>Contract To Date</i>
COMPLETE Glovebox/ Hood Removed or Dispositioned in Place	-	232 gloveboxes/hoods
COMPLETE KPP Rooms/Areas Ready for Demo	-	60 rooms/areas
Asbestos/ Asbestos Containing Material (ACM) Removed	783	30,173
Process Vacuum Piping Dispositioned	251	6,114 feet
COMPLETE Process Transfer Line Dispositioned	-	1,525 feet
COMPLETE Pencil Tank Units Removed (Shipped)	-	196 pencil tank units
Buildings Ready for Demo	-	50 structures
Buildings Demolished or Removed	-	48 structures
Non-radioactive Waste Shipped	-	76 m ³
Transuranic /Transuranic Mixed (TRU/TRU-M) Shipped	57 m ³	2,391m ³
LLW/MLLW Shipped	210 m ³	8,374 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.	1. Issue report documenting thorough inspection of 236-Z	08/16/16	100%
			2. Issue report documenting thorough inspection of 242-Z	05/26/16	100%
			3. Issue report documenting thorough inspection of 234-5Z	04/30/17	90%
			4. Issue report documenting thorough inspection of 291-Z	05/30/17	70%
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 242Z, 234-5Z, and 291Z. Thereby reducing the overall impacts from PFP's significant aspects.	1. Create ready for demolition checklist for 242Z/ZA	11/30/16	100%
			2. Review 242Z/ZA demolition work package against environmental requirements	12/29/16	100%
			3. Create ready for demolition checklist for 291Z	02/28/17	100%
			4. Review 291Z demolition work package against environmental requirements	03/30/17	0%
			5. Create ready for demolition checklist for 234-5Z	03/30/17	0%
			6. Review 234-5Z demolition work package against environmental requirements	04/27/17	0%

TARGET ZERO PERFORMANCE

	Current Month	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	2	N/A
Total Recordable Injuries	0	2	N/A
First Aid Cases	4	68	<ul style="list-style-type: none"> • 2/2/2017 – Employee reported sharp pain in left arm while cutting a stainless steel pipe. Employee was taken to HPMC, examined and diagnosed with a sprain/strain. No-prescription medication was given and employee was released to return to work with restrictions of no lifting, carrying, pushing, or pulling over 20 pounds, avoid repetitive use of left arm, and no work with left arm outstretched. (24345) • 2/8/2017 – Employee slipped on ice, falling and landing on right hand and forearm and then on right hip and backside. Employee was taken to HPMC, examined and diagnosed as having a strain and sprain to upper arm. Employee will need follow-up with primary care provider/L&I provider if symptoms worsen or do not get resolved. Cold pack was administered and individual was released to return to work with restrictions. From 2/8/17 to 2/27/17 no lifting over 5 lbs. along with no work above shoulder height with right hand or arm. (24357) • 2/16/2017 – Employee reported right elbow popped and a sharp pain was felt when assisting another employee lifting a roll of plastic onto a rack. Employee reported to HPMC, was examined and diagnosed as having sprain/strain of right elbow/forearm. A cold pack was administered and employee was released to return to work without any restriction from this injury. HPMC instructed employee to see a private medical provider to further evaluate this injury. (24371) • 2/25/2017 – Employee slipped on uneven icy surface, rolling left ankle and falling on gloved hands. Employee was taken to HPMC, was diagnosed as having a sprain/ strain to left ankle. Non-prescription meds were given. Employee was released to return to work with a restriction of limit use of left leg. (24379)
Near Misses	0	0	N/A

KEY ACCOMPLISHMENTS

RL-0011 Accomplishments

234-5Z

- Abated 783 feet of asbestos.
- Removed or dispositioned in place 251 feet of process vacuum piping.
- Grouting of the 234-5Z pipe trenches is 86 percent complete.
- Continued preparations for the draining, venting, isolating, drying, and epoxy filling of TRU drain lines in the 234-5Z below-grade tunnels.
- Continued preparations for removal of HA-7A, HC-7C, and HC-18M gloveboxes from 234-5Z.

PFP Waste Operations

- Shipped 57 m³ TRU/TRU-M waste.
- Shipped 210 m³ LLW/MLLW.

Demolition Activities

- Continued demolition activities on 236-Z Facility.
- Continued demolition of Building 242-Z.

PTS

- **Training and Procedures**
 - Completed procedure changes in support of 234-5Z electrical isolation.
 - Developed training solutions for decontamination and decommissioning (D&D) drivers and workers to support control of fueled vehicles inside the PFP fence.
- **Operations Program**
 - Worked with Imaging Operations, Job Control System Programmers, contacted various individuals on and offsite to assist PFP to locate historical work packages from Plutonium Uranium Extraction Plant (PUREX) that might be useful at PFP in planning for future D&D activities (foam in ducting).

MAJOR ISSUES

- None currently identified.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

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

-  Increased Confidence
-  No Change
-  Decreased Confidence

Risk Title	Unmitigated Risk Impacts	Assessment		Comments								
		Month	Trend									
RL-0011/WBS-011.OA												
Explanation of major changes to the project monthly spotlight chart: No major changes to the monthly spotlight chart in the month of February .												
Realized Risks (Risks that are currently impacting project cost/schedule)												
PFP-096: PPE availability or failed respirator equipment impacts planned D&D work	Due to old generation PPE, respirator equipment fails planned D&D work and impacts project with cost and schedule delays. Risk Handling Strategy: Accept Probability: Likely (75% to 90%) Worst Case Impacts: \$1,000K, 24 days			Risk Event: The project is currently experiencing respirator equipment failing due to old generation respirators.								
				<table border="1"> <thead> <tr> <th>Risk Recovery action(s)</th> <th>Risk Date</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Procure additional PPE with new generation respirator equipment.</td> <td>04/15/16</td> <td>Ongoing</td> <td>Ongoing</td> </tr> </tbody> </table>	Risk Recovery action(s)	Risk Date	FC Date	%	Procure additional PPE with new generation respirator equipment.	04/15/16	Ongoing	Ongoing
				Risk Recovery action(s)	Risk Date	FC Date	%					
Procure additional PPE with new generation respirator equipment.	04/15/16	Ongoing	Ongoing									
Recovery Assessment: No changes in the month of February . This risk was designated to be realized based on several events related to failed PPE. Discussion will be held with CHPRC's Change Control Coordinator concerning the usage of management reserve to procure additional PPE to avoid future field work impacts. The mitigation strategies have been put in place, as a result, the risk strategy is to accept with no further mitigation actions.												

Risk Title	Unmitigated Risk Impacts	Assessment		Comments																
		Month	Trend																	
RL-0011/WBS-011.OA																				
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: \$300K, 16 days			<p>Risk Event: Based on characterization data, the amount of asbestos insulated piping to be removed had been estimated since FY2013 to be approximately 24,000 linear feet. In January, an additional ~10,000 feet of asbestos was discovered taking the total of asbestos to be removed to ~35,612 feet. With February 2017 progress, the PFP project has actually removed over 30,100 linear feet to date with additional asbestos still remaining to be removed.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Risk Recovery action(s)</th> <th>Risk Date</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Collaborate with Safeguards to develop and approve Safeguards termination criteria for remnant piping and duct work.</td> <td>01/09/17</td> <td>03/17/17</td> <td>90</td> </tr> <tr> <td>Collaborate with Criticality Safety to recognize the reduced removal action necessary for Safeguards termination and as feasibly warranted, revise CSER requirements to achieve a criticality incredible state</td> <td>01/09/17</td> <td>03/30/17</td> <td>90</td> </tr> <tr> <td>Work with DOE to utilize contingency for additional ~10,000 feet of asbestos identified during walkdowns and inspections</td> <td>01/09/17</td> <td>Ongoing</td> <td>N/A</td> </tr> </tbody> </table> <p>Recovery Assessment: Based on completed inspections, this risk has been triggered by additional TSI identified that was not part of the original engineering estimate that was used to develop the RL-011 baseline. Mitigating action cited focuses on managing the need for added asbestos abatement work. Discussions 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, proposed Safeguards termination limits are in the process of final approval by RL. When approved, a majority of existing NDA data can be used for termination purposes, without need for added in-situ assays. Criticality Engineering is in the process of revising criticality incredibility requirements that enable recognition of the termination limits. Any added characterization of remnant piping is thereby reduced and only pursued when the total MAR in a given demolition zone (Crit Safety Value g-Pu) exceeds specified limits, which are not considered restrictive. 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. The programmatic mitigating actions, expected to be complete before the end of March 2017, enables the opportunity to achieve the reduced scope of remaining ongoing facility deactivation work. Given the potential impact to the 234-5Z demolition schedule, however, per PRC-MP-PC-40167, this risk remains critical.</p>	Risk Recovery action(s)	Risk Date	FC Date	%	Collaborate with Safeguards to develop and approve Safeguards termination criteria for remnant piping and duct work.	01/09/17	03/17/17	90	Collaborate with Criticality Safety to recognize the reduced removal action necessary for Safeguards termination and as feasibly warranted, revise CSER requirements to achieve a criticality incredible state	01/09/17	03/30/17	90	Work with DOE to utilize contingency for additional ~10,000 feet of asbestos identified during walkdowns and inspections	01/09/17	Ongoing	N/A
Risk Recovery action(s)	Risk Date	FC Date	%																	
Collaborate with Safeguards to develop and approve Safeguards termination criteria for remnant piping and duct work.	01/09/17	03/17/17	90																	
Collaborate with Criticality Safety to recognize the reduced removal action necessary for Safeguards termination and as feasibly warranted, revise CSER requirements to achieve a criticality incredible state	01/09/17	03/30/17	90																	
Work with DOE to utilize contingency for additional ~10,000 feet of asbestos identified during walkdowns and inspections	01/09/17	Ongoing	N/A																	
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)																				
No critical risks identified in the month of February.																				
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)																				
PFP-DEMO-24: Stop work from concerned workers	Concerned workers results in a stop work to address an off-normal or safety issue. The work cannot be restarted until the implementation of corrective actions is completed. Risk Handling Strategy: Accept Probability: Likely (75% to 90%) Worst Case Impacts: \$0K, 24 days			<p>Risk Trigger: The project has experienced stop works from concerned workers due to SCBA cylinders, failed respirator equipment, chemical concerns, contamination events, and jurisdictional issues.</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 major changes in the month of February. The mitigation strategies have been put in place, as a result, the risk strategy is to accept with no further mitigation actions.</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 February.																				

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	0.9	4.9	9.9	4.0	435.6%	(5.0)	-100.9%

Numbers are rounded to the nearest \$0.1 million.

CM Schedule Variance: (+\$4.0M/+435.6%)

The current month positive schedule variance is primarily due to completion of historical BCWS associated with the 26 inch process vacuum removal, characterization, asbestos, drain lines, E3/E4 duct scope, trench grouting and drain line remediation in 234-5Z as well as sample and process vacuum system removal in 291-Z. Because all work is historical, the current schedule variance will be favorable going forward. Additionally, performance of behind schedule demolition work scope associated with the demolition of 236-Z and 242-ZA also contributes to this positive variance. This scope was to be performed in the 3rd quarter of 2016, however, delays in getting 236-Z ready for demolition negatively impacted the start of both 236-Z and 242-Z demolition. Demolition of 236-Z is currently scheduled to complete on June 6, 2017, while 242-Z demolition is scheduled to complete on March 27, 2017. The positive schedule variance is partially offset by additional scope that has been identified that requires removal of an additional ~10,000 feet of asbestos that was not visible on any plant drawings when the baseline was developed further delaying the demolition ready activities; recovery efforts from the contamination event associated with the PRF demolition activities, and the delay in the demobilization and installation of the cover cap following demolition of PFP. The demobilization work has been significantly impacted due to the delays in getting 236-Z, 242-Z, 291-Z, and 234-5Z ready for demolition and cannot occur until all buildings are demolished.

CM Cost Variance: (-\$5.0M/-100.9%)

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 both Minimum Safe, Maintenance, and D&D project management resources, without BCWS, to support the remaining D&D work scope until the facility becomes ready for demolition. In addition; asbestos abatement, E4 duct removal, and process vacuum removal are all requiring more time and additional resources to complete work. Additional resources (i.e., pipefitters, electricians, insulators, Radiological Control Technicians) have also been hired temporarily to attempt to recover schedule. Additional activities have been identified that require removal of an additional ~10,000 feet of asbestos that was not visible on any plant drawings when the baseline was developed further delaying the demolition ready activities. Due to delays in ready-for-demo activities, resources supporting waste processing activities that were planned to be completed in FY2016 are continuing to charge for support of waste loadout, processing, and shipping. Additional unplanned shipping materials (Waste shipping containers (TL-1800s, SLB2s, IP-1 bags, etc.)) were also required to support waste loadout activities. Continuation of quarterly stipend certification payments is also contributing to this variance. In addition, due to the historical (December 2015) radiological issues resulting in compensatory measures that have been implemented at PFP, additional radiological and industrial hygiene resources have been assigned to support the PFP Project until the slab on grade milestone is met.

Contract-to-Date (\$M)

WBS 011/ RL-0011 Nuclear Matl Stab & Disp PFP	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)
Total	978.8	927.7	988.8	(51.1)	-5.2%	(61.1)	-6.6%	980.3	1,054.3	(74.0)

Numbers are rounded to the nearest \$0.1 million

Contract-to-Date (CTD) Schedule Variance (-\$51.1M/-5.2%)

The CTD unfavorable schedule variance relates to re-sequencing of D&D discrete work to align with availability of D&D workers causing a delay in start of work on 242-Z activities. Also contributing to the variance, the 234-5Z Backside Rooms team was assigned to higher priority work scope associated with unplanned door modifications, which supported the in-situ size reduction efforts on the HC-9B and HA-9A Gloveboxes located in 234-5Z. Delays have been caused by Stop Works on discrete D&D work associated with Beryllium, tight fitting masks, demister, weather (heat), PremAire breathing air systems and suits, chemical smells, contamination cleanup efforts as a result of a malfunctioning criticality alarm system, and radiological events. Also, duct level characterization, process vacuum, transfer and drain line teams were previously assigned to perform other critical path work in the 236-Z PRF, 242-Z Americium Facility, and Remote Mechanical A (RMA)/ Remote Mechanical C (RMC) key performance parameters (KPP) glovebox removal work efforts. As a result of this realignment of plant priorities and changing approach (area vs. system) to performing work within the balance of 234-5Z, characterization, and process equipment (e.g., ducting, piping, filter box etc.) removal is lagging. In addition, progress on the D&D project management Work Breakdown Structure (WBS) element is apportioned to the discrete D&D work scope and contributes to this variance. Impacts have also been recognized, resulting from a chemical reaction when working on the PRF canyon floor cleanup efforts, failure of the PRF Canyon Crane, increased characterization efforts for safeguards termination issues, impacts from a contamination event resulting from a false criticality alarm during preventive maintenance activities, cleanup of a contamination event in 234-5Z, Room 264, delays in electrical isolations in PRF, and greater than anticipated efforts to prepare the PRF canyon for demolition. Delays in asbestos are a result of the unplanned removal of a wall in 234-5Z Aces 2. Electrical isolations are required for each section of wall and has caused considerably more time than planned further delaying asbestos abatement activities. As a result of the wall removal and electrical isolations, it was discovered that ~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 CHPRC is working with RL to utilize contingency for the additional ~10,000 feet of asbestos identified during walkdowns and inspections. Delay of demolition and installation of the cover cap following demolition of the 234-5Z and 291-Z facilities and the apportioned control accounts (i.e., 011.05.C3.01, 011.05.C3.03, and 011.05.C3.04) are also contributing to the variance. The demolition of 234-5Z and 291-Z has been delayed due to resources being redirected to support ready for demolition activities associated with 234-5Z, 242-Z, and 236-Z (other project critical path work). In addition, demolition experienced additional delays as a result of inclement weather, equipment failures, and clean-up efforts from the contamination event associated with the PRF Demolition. This is partially offset by completion of E4 characterization and scope avoidance as a result of favorable results from room characterization, removal of gloveboxes, demolition of the sixth floor, fifth floor, fourth floor, and South Canyon Airlock on 236-Z in PRF, and demolition of 2727-Z and 2729-Z facilities.

CTD Cost Variance (-\$61.1M/-6.6%)

The negative CTD cost variance is primarily a result of prior year unrecoverable costs as well impacts to D&D work scope and extending Level-of-Effort and support services, consistent with delayed activities, in support of completing 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 (HAMTC) 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 (~10,000 feet). This is partially offset by utilization of fewer breathing air suits and hoses being used than originally planned for 242-Z entries as a result of fewer field work 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).

Variance at Completion (-\$74.0M/-7.5%)

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 recognized efficiencies are continuing to be recognized with more time on mask and implementation of the value engineering initiatives associated with high mass gloveboxes and grouting. 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 the wall removal and electrical isolations, it was discovered that ~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. This 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. The variance at completion is reflective of PFP's current projected date to reach slab on grade no later than September 30, 2017.

Contract Performance Report Formats are provided in Appendix A.

FUNDS vs. SPEND FORECAST (\$M)

WBS 011/RL-0011 Nuclear Matl Stab & Disp PFP	FY2017		Variance
	Projected Funding	Spending Forecast	
Spending Forecast	104.9	111.9	(7.0)
Incremental Scope Pending Change Management	0.0	0.0	0.0
RL-0011 - Total	104.9	111.9	(7.0)

Numbers are rounded to the nearest \$0.1 million

Funds/Variance Analysis

FY2017 expected funding for PBS RL-0011 remains at \$104.9 million. The Fiscal Year Spend Forecast (FYSF) for February increased slightly to \$111.9 million. The funds in this control point for estimate to complete (ETC) for regular scope are adequate to support current work. Continuing to recognize 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 is a resource-driven float path in which the critical path starts with isolation of the 234-5Z basement drain lines and ventilation paths, followed by filling the drain lines with epoxy. Once completed, this allows for shutting down the critical alarm system and declaring 234-5Z Cold & Dark and Ready for Demolition. Demolition of 234-5Z will occur in the following sequence: 234-5ZA, Frontside, A-Labs, Backside Rooms/Plutonium Process Support Laboratories (PPSL), RMA Process Lines, RMC Process Lines, and the RADTU & Basement areas. Once the 234-5Z and 291-Z facilities have been demolished, the Tri-Party Agreement Milestone – M-083-00A - *PFP Facility Transition and Selection Disposition Activities* will have been met.

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 subsequent 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		8/30/17	During the month of February, the PFP project lost 14 days on the schedule from the January month end forecast completion date of the Tri-Party Agreement milestone for the PFP Project to reach slab on grade. This is as a result of impacts from inclement weather and resource availability due to training cancellations related to the weather impacts. As the PFP Project continues to make progress on the behind schedule critical path work scope being performed, it is expected 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-11, 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 Perma-Fix Northwest (PFNW) locations. RL is the authorized shipper and acts as signatory on the shipping papers, and ensures DOE Manual 460.2-1 is complied with. RL arranges for Commercial Motor Vehicle Safety Alliance (CVSA) level VI vehicle inspections and verifies that the government drivers meet the applicable Department of Transportation (DOT) Federal Motor Carrier Safety Regulations (49 CFR 382 and 383). RL also inspects the load securement to ensure compliance with DOT regulations and/or Transportation Safety Document (TSD) requirements.	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

February 2017
CHPRC-2017-02, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

M. A. Wright
Vice President for
Project Technical
Services

PROJECT SUMMARY

Based upon discussions between RL and CHPRC Senior Management, the Sludge Treatment Plant (STP) Team has modified the field execution schedule (FES) to implement acceleration opportunities that could potentially facilitate the transfer of all sludge to T Plant in fiscal year (FY) 2018. 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 schedule duration.
- Approval of T Plant safety documentation must be completed within 120 days of submittal.
- CD-4 approval must occur concurrently with commencing sludge retrieval operations.
- Approval of the integrated 105K West Documented Safety Analysis (DSA) must not impact project critical path.
- An “as-built” DSA/technical safety requirement (TSR) revision will not be required following K Basin Preoperational Acceptance Testing (KPAT).
- To properly present the current forecast date of Tri-Party Agreement M-016-175, *Begin sludge removal from 105-KW Fuel Storage Basin*, the milestone has been disconnected from the schedule margin. The current, non-risk adjusted forecast date to begin sludge removal is January 31, 2018.

Installation of process hardware is progressing well and is forecast to complete in March 2017, with KPAT scheduled to begin in early April 2017.

PBS RL-0012 scope is over 85 percent complete and performance to date is positive with a cumulative Schedule Performance Index (SPI) of 1.00 and a cumulative Cost Performance Index (CPI) of 1.06.

EMS OBJECTIVES AND TARGET STATUS

None currently identified.

TARGET ZERO PERFORMANCE

	CM Quantity	Rolling 12 Month	Comment
Dart Injuries	0	1	N/A
Recordable Injuries	0	1	N/A
First Aids	2	16	<ul style="list-style-type: none"> • 2/06/17: While ascending stairs, employee slipped falling against handrail injuring wrist. Body part affected: wrist (24346) • 2/08/17: While walking between trailers, employee slipped on ice and fell. Body part affected: wrist and ankle (24364)
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, performance of several monthly and quarterly routines during the period. In addition, support was provided to Sludge Removal Project (SRP) for Annex/ In-Basin equipment installation and facility modifications.
- The effort to retrieve and containerize the sludge pile in the KW Basin Center Bay discovered during debris mapping continued as resources allow. No progress was made during February due to the Ion Exchange Module (IXM) being out of service. Work is expected to resume in March.

KW Basin Sludge Retrieval Capital Assesst Project

- KW Annex Construction (Project Technical Services)
 - Completed air dryer exhaust modification and continued installation of supplemental cooling system in the mechanical room.
 - Completed installation of ledger plates in Truck Scale pit.
 - Completed electrical outage to facilitate final tie-ins and Engineered Container Retrieval and Transfer System (ECRTS) electrical panel power-up.
 - Completed trailer bumper pad installation along with shielded cave on bumper and Mezzanine grating.
 - Completed survey on Truck Scale and re-mobilized the Sludge Transport & Storage Container (STSC) trailer and staged in the loading bay.
 - Completed connection of ECRTS process hoses to STSC.
 - Completed albi clad and touch-up painting in loading bay.
 - Completed mechanical room door louver installation.

- KW Basin In Basin Construction (Project Technical Services)
 - Completed final terminations of RAD monitoring power and communication cabling.
 - Completed relocation of ECRT-PNL-107, Sludge Layering Panel.
 - Completed continuity and megger testing to support Construction Acceptance Tests (CATs.)
 - Completed installing new labels on XAGO Pump Skid.
- The RL Safety Basis Review Team (SBRT) has concurred with the proposed disposition on 49 of 225 comment dispositions. Approval and implementation of the integrated 105K West Facility DSA and TSR is nearing project critical path. The DSA/TSR must be approved and implemented prior to integrated KPAT activities that transfer 105K West Basin water into the 105K West Annex.
- The final draft of the One-Time Request for Shipment (OTRS) has been submitted to RL for review and approval. The Maintenance and Storage Facility (MASF) Pre-operational Acceptance Test (MPAT) Test Report was approved by the STP, Joint Test Group on January 31, 2017, however, comment incorporation and issuance has been given a lower priority than development and approval of KPAT Specifications/Procedures. The MPAT Test Report is forecast to complete in April 2017.
- KPAT specification development, review, and approval efforts continued. There will be a total of 14 specifications and one procedure required. The status is as follows:
 - Seven specifications have been developed, reviewed, and approved by the STP Engineering Manager and/or Joint Test Group, as required.
 - Seven specifications are in the process of being developed, reviewed, or approved by the STP Engineering Manager and/or Joint Test Group as required.
 - The Test Procedure is in the development process.
 - All specifications and the procedure are forecast to be completed by March 31, 2017.
- ECRTS Procurement: STSC Vessels and Installation of STSC Instrumentation/Appurtenances continued through the fiscal month. The project is on track to complete the first 12 STSC Assemblies by June 30, 2017. American Boiler Works (ABW) will also complete fabrication of the final 11 STSC Shells by July 31, 2017. Once the final 11 STSC shells are fabricated, they will be transported to HiLine for installation of associated instrumentation and appurtenances.
- Significant progress was made in developing Operations and Maintenance Procedures supporting sludge removal and packaging operations. Additionally, efforts to develop training material and prepare for Nuclear Chemical Operator (NCO), Subject Mater Expert (SME) qualifications next month continued.
- Readiness documentation development continued as planned.

T Plant Preparations

- Facility Modifications/Construction (Project Technical Services (PTS))
 - Completed Engineering Change Request (ECR) walk-downs and Facility Modification Package (FMP) work complete on the Water Addition System, Leak Detection System, and Force Measurement Device scopes.
 - Delivered full nitrogen cylinders to support CATs.
 - Developed work change notice (WCN)-3 based on design changes to the nitrogen system.
- T Plant Master Documented Safety Analysis (MDSA): MDSA Rev. 12 was submitted to RL for review/approval on December 1, 2016. RL is scheduled to provide a Safety Evaluation Report to CHPRC on March 30, 2017.
- The T-Plant Crane Operators participated in a familiarization session on the STSC lifting hardware at MASF. The Crane Operators practiced hooking the STSC lift fixture on to the STSC and performed minor maneuvering of the STSC.

Other Support from Project Technical Services

- Assisted in a Management Assessment determining remaining engineering actions necessary to prepare for an Operational Readiness Review and for Operations turnover.
- Worked with Facility Management identifying path forward for qualification of ECRTS SME.
- Updated all Mode procedures for ECRTS SME training at Maintenance and Storage Facility.
- Conducted Emergency Preparedness (EP) drills at 100K.

MAJOR ISSUES

T Plant**Issue:**

T Plant Construction is experiencing an approximate 5.5-month field execution schedule delay with the completion of the Nitrogen Purge System (no impact to STP critical path) installation and testing. Discovery of as-found nitrogen manifold maintenance issues have resulted in nitrogen manifold design changes.

Corrective Action:

T-Plant Design Authority (DA) prepare/issue design changes. PTS to provide General Contractor with change order to procure and expedite safety significant material to the extent possible.

Status:

ECR issued (February 23, 2017) and placed safety significant material order. Based on typical delivery time frame for similar material, anticipate delivery by mid-April. Installation, CAT testing and Acceptance Test Procedure (ATP) to follow. ATP completion is now forecast for early/mid May.

Sludge Removal Project**Issue:**

Iron contamination was discovered in STSCs that had previously been accepted by Mission Support Alliance (MSA) Acquisition Verification Services (AVS) final inspections.

Corrective Action:

A causal analysis and corrective action plan were completed to ensure all STSCs are tested, cleaned as necessary, and declared free of iron contamination.

Status:

1. STSC 410-413 were cleaned, retested, and accepted by CHPRC - Complete.
2. STSC 402-403 remain at HiLine (with instrumentation/appurtenances installed) and will be tested, cleaned, and retested by HiLine personnel, due to the difficulty and expense of returning these vessels to Arlington, WA, with instrumentation and appurtenance installed. This work will commence in fiscal month March and is scheduled to complete prior to the end of the fiscal month.
3. STSC 404-409 have been shipped back to Arlington, WA, for testing, cleaning, and retesting, as appropriate. STSC 405 and 406 were completed February 23, 2017, and STSC 404, and 407-409 will be completed before the end of calendar month March.
4. STSC 414-424 will be tested for free-iron, cleaned, and retested, as appropriate – forecasted delivery June 2017.

Issue:

The schedule for resolving RL Safety Basis Review Team (SBRT) comments on the 105K West Basin/Annex DSA/TSR is slipping putting the activity in jeopardy of negatively impacting the KPAT Integrated Test and SRP critical path.

Corrective Action:

Continue working closely with the RL SBRT to resolve comments as expeditiously as possible. Expedite comment incorporation, CHPRC internal approval of the update DSA/TSR Package, and RL approval of that package.

Status:

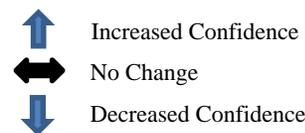
CHPRC is forecasting a completion date for having all RL SBRT comments incorporated and the document ready to be retransmitted to RL by March 27, 2017. Additional time has been required to resolve comments.

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.



Unmitigated Risk Impacts	Assessment		Comments																				
	Month	Trend																					
RL-0012/WBS-012																							
Explanation of major changes to the project monthly stoplight chart: No major changes to the monthly stoplight chart in the month of February.																							
Realized Risks (Risks that are currently impacting project cost/schedule)																							
STP-072: Delayed STSC/ECRTS Procurement & Delivery	Material delivery and fabrication issues at ECRTS vendor facilities delay the delivery of the components to the Sludge Treatment Plant (STP) resulting in cost impacts and schedule delays. Additionally, discovery of additional components requiring fabrication result in deliveries that challenge project baseline schedules. Risk Handling Strategy: Control Probability: Medium (26% to 74%) Worst Case Impacts: \$3,000K 120 days																						
		Risk Event: Event 1: Rust was discovered in STSCs. As a result, additional testing and cleaning is required to correct this condition. Event 2: In order to establish a reliable Sludge Transportation System Cask configuration capable of meeting the project's needs, several ports must be reconfigured to ensure reliable leak-tight integrity. This discovery was outside of baseline material procurement plans.																					
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		Recovery Action Assessment: Event 1: STSC Free Iron Testing and Cleaning Strategy established and is being executed. This issue will be removed from this risk register next month. Event 2: A change order was provided to HiLine to procure new seals and bolts to facilitate establishing a STS Cask with leak tight integrity. New seal system should increase reliability of system and facilitate minimal corrective maintenance during shipping campaign. HiLine was authorized to proceed with fabrication and delivery of this hardware. No foreseeable impacts to CAP Asset project in the near future.																					

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RL-0012/WBS-012																											
<p>STP-067A Safety Classification of SSCs - DSA/TSR</p> <p>DOE approval of the Documented Safety Analysis (DSA)/Technical Safety Requirements (TSR) takes longer than the assumptions planned for in the baseline.</p> <p>Risk Handling Strategy: Control</p> <p>Probability: Medium (26% to 74%) Worst Case Impacts: \$3,00K 120 days</p>			<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. The Original project baseline included 120 calendar days for RL to approve the safety basis document; however, it has now been 142 days (as of 2/19/17) with formal approval still not imminent.</p>																								
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<p>Recovery Action Assessment: RL & CHPRC Senior Management have met multiple times in an attempt to resolve differences on the DSA/TSR Submittal. All DSA/TSR comments have been dispositioned as of 2/17/17. Obtaining RL concurrence on comment resolution continues to slip and is now forecasted to complete 3/30/17. CHPRC and RL agreed to have an independent facilitator assist in resolving RL comments against the DSA/TSR Submittal. The facilitator was appointed and is anticipated to begin their function on 3/9/17.</p>																											
<p>Risk Event: On 11/28/16, CHPRC submitted letter CHPRC-1604566AR1 - MDSA, REV 12, the TSR REV12, the <i>T PLANT FHA</i>, and the SWOC FHA, Rev 6. While the baseline plan assumed that RL would review and approve this submittal within 120 calendar days (or by 3/30/17), 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 9/30/18. RL recently “informally communicated” that not only would RL not approve MDSA Rev. 12 on or before 3/30/17, significant comments would be provided that may take a significant period of time to resolve.</p>																											
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Unmitigated Risk Impacts		Assessment		Comments															
		Month	Trend																
RL-0012/WBS-012																			
STP-125-B: Inclement Weather - ECRS Annex/In-Basin Equip.	<p>Inclement weather and site closure days will have a day-for-day impact on construction execution and contractor performance with ECRS equipment delivery and placement in the Annex or Basin.</p> <p>Risk Handling Strategy: Accept</p> <p>Probability: Likely (75% to 90%)</p> <p>Worst Case Impacts: \$50K, 12 days</p>	●	↔	<p>Risk Event: The project has incurred lost time delays in February as a result of inclement weather. The project incurred a site closure day on February 9, 2017. There were also delays or early releases on February 8 and 15, 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>Obtain weather conditions for the area and adjust daily work scope/schedule accordingly</td> <td>12/15/16</td> <td>Ongoing</td> <td>N/A</td> </tr> </tbody> </table> <p>Recovery Action Assessment: Project estimates, per RL, allow only fair weather estimating practices and do not consider the impacts associated with normal local weather conditions. The implication is that planned time in the Annex and Basin will be reduced during both warm and cold weather. Common weather conditions such as high winds, ice storms, snow storms, and lightning will cause work scope delays potentially extending the project schedule duration and increasing costs. Work/Rest regiments can consume 2-4 hours each day and ice, snow, and wind closures have a day-to-day impact on the project schedule. No additional mitigation actions have been identified at this time. No foreseeable impacts in the near future, and no alternative course of actions needed at this time.</p>	Risk recovery action(s)	Risk Date	FC Date	%	Obtain weather conditions for the area and adjust daily work scope/schedule accordingly	12/15/16	Ongoing	N/A							
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Obtain weather conditions for the area and adjust daily work scope/schedule accordingly	12/15/16	Ongoing	N/A																
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)																			
No critical risks identified in the month of February.																			
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)																			
FY2017 Risk Triggers (Risk could be realized in FY2017)																			
STP-103: K Basin Pre-Operational Acceptance Testing (KPAT) & ECRS Startup	<p>The ECRS equipment does not operate as expected requiring increased engineering, startup, operations, and construction Firm Fixed Price contractor support; as well as equipment replacement, procurement, and retesting. Realization of this risk would also require additional training, procedure revision, and design modifications as a result of construction testing and/or Lines of Inquiry for Readiness Review resulting in cost impacts and schedule delays.</p> <p>Risk Handling Strategy: Control</p> <p>Probability: Medium (26% to 74%)</p> <p>Worst Case Impacts: \$4.5 million, 90 days</p>	●	↔	<p>Risk Trigger: 1) The ECRS equipment does not operate as expected. 2) Unexpected attrition of critical testing personnel.</p> <table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Develop and refine procedures based upon feedback from testing and operations personnel.</td> <td>3/30/17</td> <td>45</td> </tr> <tr> <td>Develop streamline strategy (work packages and procedures) to perform in-basin/annex integrated testing and troubleshooting.</td> <td>3/30/17</td> <td>35</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: Forecasted mitigation dates slipped two weeks as scope was found to be more extensive than planned. Dates are consistent with overall STP critical path schedule.</p>	Mitigation action(s)	FC Date	%	Develop and refine procedures based upon feedback from testing and operations personnel.	3/30/17	45	Develop streamline strategy (work packages and procedures) to perform in-basin/annex integrated testing and troubleshooting.	3/30/17	35	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 upon feedback from testing and operations personnel.	3/30/17	45																	
Develop streamline strategy (work packages and procedures) to perform in-basin/annex integrated testing and troubleshooting.	3/30/17	35																	
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																	
STP-018-O: STP Operational Upset or Spill - During 1st STSC	<p>An operational upset or spill results in a work shutdown at K Basins, resulting in schedule delays.</p> <p>Risk Handling Strategy: Control</p> <p>Probability: Medium (26% to 74%)</p> <p>Worst Case Impacts: \$1.3 million, 96 days</p>	●	↔	<p>Risk Trigger: 1) An operational upset or spill results in work shutdown at K Basin. This risk will commence in FY2018 and continue throughout project lifecycle until sludge is removed from 105KW Basin.</p> <table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Conduct rigorous startup testing following system installation at the 105KW Basin and Annex.</td> <td>10/11/17</td> <td>0</td> </tr> <tr> <td>Conduct testing and training at MASF and develop procedures that use the information and knowledge gained during the activity for use at the KW Basin.</td> <td>Ongoing</td> <td>N/A</td> </tr> </tbody> </table> <p>Mitigation Assessment: No major changes in the month of February. Forecasted mitigation dates are consistent with overall STP critical path schedule. Training and procedure development will continue into FY2018. It will complete prior to completion of management self-assessment affidavits in December 2017.</p>	Mitigation action(s)	FC Date	%	Conduct rigorous startup testing following system installation at the 105KW Basin and Annex.	10/11/17	0	Conduct testing and training at MASF and develop procedures that use the information and knowledge gained during the activity for use at the KW Basin.	Ongoing	N/A						
Mitigation action(s)	FC Date	%																	
Conduct rigorous startup testing following system installation at the 105KW Basin and Annex.	10/11/17	0																	
Conduct testing and training at MASF and develop procedures that use the information and knowledge gained during the activity for use at the KW Basin.	Ongoing	N/A																	

Unmitigated Risk Impacts	Assessment		Comments						
	Month	Trend							
RL-0012/WBS-012									
STP-073-C: Processing Efficiency - Retrieval & Shipping, During 1st STSC	The realized processing efficiency associated with sludge retrieval and shipping operations does not match baseline plan. Risk Handling Strategy: Accept Probability: Low (10% to 25%) Worst Case Impacts: \$0K, 8 days	● ↔	<p>Risk Trigger: 1) Actual processing efficiency associated with sludge retrieval and shipping operations does not match baseline assumptions. This risk will commence in FY2018 beginning with operations campaign.</p> <table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>None identified at this time.</td> <td>N/A</td> <td>N/A</td> </tr> </tbody> </table> <p>Mitigation Assessment: No major changes in the month of February. Operations personnel were given training on the process system equipment and will continue to participate in training activities through production system installation at 100K. No foreseeable impacts in the near future, and no alternative course of actions needed at this time.</p>	Mitigation action(s)	FC Date	%	None identified at this time.	N/A	N/A
Mitigation action(s)	FC Date	%							
None identified at this time.	N/A	N/A							
Unassigned Risks (Pending ownership of identified threats/opportunities)									
CHPRC proposed five risks that are outside of CHPRC's ability to manage and, as such, should be re-assigned to RL (STP-011D, STP-018, STP-073, STP-073-A, and STP-073-B). The proposal was not accepted by RL, stating, "...the opportunities and threats appear to be under the control of CHPRC to manage." CHPRC submitted letter CHPRC-1602146 R1 on August 30, 2016, in response to RL's rejection letter. If contract direction is given to accommodate the acceleration opportunities to the SRP project and the transfer of all sludge to T Plant is incorporated into FY2018, then CHPRC would re-assume ownership of these risks.									

PROJECT BASELINE PERFORMANCE

Current Month

(\$M)

RL-0012 Spent Nuclear Fuel Stabilization and Disposition	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)
Total	6.6	6.1	6.3	(0.5)	-7.2%	(0.1)	-2.1%

Numbers are rounded to the nearest \$0.1 million

CM Schedule Performance (-\$0.5M/-7.2%)

The variance is within reporting thresholds.

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

The variance is within reporting thresholds.

Contract-to-Date

(\$M)

RL-0012 Spent Nuclear Fuel Stabilization and Disposition	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Varianc e (\$)	Cost Variance (%)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)
Total	653.3	656.7	626.1	3.3	0.5%	30.5	4.6%	740.2	710.7	29.4

Numbers are rounded to the nearest \$0.1 million

CTD Schedule Performance (+\$3.3M/+0.5%)

The variance is within reporting thresholds.

CTD Cost Performance (+\$30.5M/+4.6%)

The variance is within reporting thresholds.

Variance at Completion (+\$29.4M/+4.0%)

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	36.6	31.7	4.9
Incremental Scope Pending Change Management	0.0	0.0	(0.0)
Expense - Subtotal	36.6	31.7	4.9
Line Item (LI)	57.8	48.9	8.9
Incremental Scope Pending Change Management	0.0	0.0	0.0
LI -Subtotal	57.8	49.0	8.9
RL-0012 – Total	94.4	80.7	13.8

Numbers are rounded to the nearest \$0.1 million.

Funds/Variance Analysis

FY2017 projected funding for project breakdown structure (PBS) RL-0012 is \$94.4 million. Positive variance of \$4.9 million in expense funding is the result of reclassification of Garnet Filter Media Removal and Sand Filter Media Removal scopes being transferred from PBS RL-0012 to PBS RL-0041, savings forecast for sample maintenance from PNNL, and savings forecast for project management scope – work is being performed with reduced staff. Positive variance in line item (LI) for FY2017 is due to receipt of entire LI funding in current year. Unused funding will be carried over to support work planned for FY2018.

Critical Path Schedule

The critical path flows through preparation for and performance of the KPAT. Following a successful Operational Readiness Review, RL will provide Authorization to Commence Retrieval Operations in parallel with the DOE HQ review/approval of critical decision (CD)-4. Completing retrieval operations, including the filling of STSCs with sludge and transferring 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 Project is implementing acceleration strategies to complete sludge retrieval by September 30, 2018.

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 subsequent 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		1/31/2018	The forecast date does not include schedule margin from the project's risk analysis.
M-016-177	Complete installation of sludge transfer equipment in K West Reactor facilities	9/30/2017		3/16/2017	

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.

DOE ACTIONS / DECISIONS

Description	CHPRC Delivery Date	RL Due Date
RL Review & Comment on Emergency Planning Hazard Assessment (EPHA)	4/25/17	5/02/17
RL Issue SER for Integrated KW Basin DSA/TSR	3/21/17	4/04/17
Informal RL Scenario Review of Emergency Planning Hazard Assessment (EPHA)	2/15/17 (A)	2/21/17
RL Concur on Integrated DSA/TSR Comment Resolution	2/17/17 (A)	2/27/17
RL Prepare Integrated DSA/TSR SER	2/28/17	3/11/17
RL SRB Review of Integrated DSA/TSR	3/14/17	3/20/17
RL Review of OTRS	1/17/17 (A)	5/16/17
RL Approve / Comment Plan of Action (POA) - K-Basins	3/23/17	4/21/17
RL Final Approval of POA - K-Basins	5/04/17	5/10/17
WAC HNF-EP-0063 RL Review/Approval of Request for Exception	3/24/17	3/30/17
RL Review and Approve MDSA and TSR Rev.12	12/01/16 (A)	3/30/17

Section C

Solid Waste Stabilization and Disposition (RL-0013)



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

February 2017
CHPRC-2017-02, 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 February reporting period, January 23 – February 19, 2017, Waste and Fuels Management Project (W&FMP) maintained facilities in a safe and compliant condition. The project experienced a significant number of work delays, early releases, and cancellations due to adverse weather conditions on the Hanford Site and surrounding communities, where non-essential personnel were advised not to report to work. This resulted in an impact on performance and accomplishments.

This month:

- Management of Cesium and Strontium Capsule (MCSC) Project (W-135) completed a draft of the Safety Design Strategy, M-092-05 milestone completion letter, assessment and Tri-Party Agreement change package and revised Capsule Storage System (CSS) contract to clarify Professional Engineering Stamp requirement and incorporate new Work Breakdown Structure.
- Completed a draft of M-091-52 estimates for Trench Retrieval options.

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 full printed name. • Initiate modifications to necessary procedures, checklists, and work packages/PMs, which implement RCRA inspection criteria to include the full printed name. 	5/12/17 9/28/17	45%
17-EMS-WFMP-OB1-T2	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	50%
17-EMS-WFMP-OB1-T3	Ensure W&FMP procedures 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	45%

TARGET ZERO PERFORMANCE

	CM Quantity	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	3	
Total Recordable Injuries	0	*6	*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	1	**24	<ul style="list-style-type: none"> • 2/14/17: Employee slipped on black ice straining right knee. (24368) <p>**2 First Aid case, PTS in support of RL-0013.</p>
Near Misses	0	0	N/A

KEY ACCOMPLISHMENTS

13.01 Project Management

- o Performed/Completed:
 - Central Waste Complex (CWC) Temporary Authorization: Closure Plans for Outdoor Storage Area (OSA) A, OSA B, and D-10 OSA; revised to incorporate comments received from Ecology to date, and redistributed for joint CHPRC and RL review.

13.02 Capsule Storage & Disposition

- o Surveillances/ Preventive Maintenance (PMs):
 - 30 PM work packages.

a. Waste Encapsulation and Storage Facility (WESF) Stabilization and Ventilation Project (W-130):

- o Performed/Completed:
 - Manipulation of the C-Cell temporary vent riser and application of fixative.
 - Removal of contaminated C-Cell temporary ventilation duct.

13.03 Canister Storage Building (CSB)

- o Surveillances/PMs:
 - 31 PM packages.

13.06 Transuranic (TRU) Repackaging

- o Performed/Completed:
 - o M-091-52 draft estimates for Trench Retrieval options.
 - o TRUM waste completed and returned fiscal year to date – 121m³
 - o Shipped:
 - One TRUM waste box from Central Waste Complex (CWC) to Perma-Fix Northwest (PFNW).
- o Shipments Received:
 - Six Solid Waste Boxes from PFWN to CWC.

13.07 Waste Receiving and Processing (WRAP)

- o Surveillances/PMs:
 - 106 Surveillances.
 - 11 PM packages.

13.08 T Plant

- o Performed/Completed:
 - Tunnel Lighting Upgrades.
- o Surveillances/PMs:
 - 382 Surveillances.
 - 30 PM packages.

13.09 CWC and Low-level burial ground (LLBG)

- o Surveillances/PMs:
 - 285 Surveillances.
 - 24 PM packages.
- o Shipments Received:
 - Nine waste drums, six Standard Large Boxes, five Standard Waste Boxes (SWBs) from Plutonium Finishing Plant to CWC in six shipments.

13.12 Integrated Disposal Facility (IDF)

- o Performed/Completed:
 - Initiation of the change proposal addressing Fiscal Year (FY) 2017 and FY2018 IDF scope.
 - Participation in One System Quarterly Direct Feed Low Activity Waste Program review.

13.15 TRU Disposition

- o Reviewed draft Basis of Knowledge for Evaluating Oxidizing Chemical in TRU waste that was received from Carlsbad Field Office.

13.16 Off Site Spent Nuclear Fuel Disposition

- o Maintained coordination for offsite Spent Nuclear Fuel Disposition.

13.21 Mixed Waste Disposal Trenches (MWT)

- o Shipments Received:
 - 11 waste boxes from PFNW to MWT in two shipments.
- o Surveillances/Preventive Maintenance:
 - 148 Surveillances.

13.24 Management of Cesium and Strontium Capsules Project

- o Performed/Completed:
 - Safety Design Strategy for the Capsules Storage Area and Major Modification Determination for the WESF modifications.
 - Tri-Party Agreement M-092-05, Capsule Disposition Path milestone drafted a completion letter and a Tri-Party Agreement change package.
 - Revision of CSS contract to clarify Professional Engineering Stamp requirement and incorporate new Work Breakdown Structure.

13.25 Capsules Interim Storage Operations

- o Performed/Completed:
 - The draft Project Execution Plan (PEP). PEP provided to RL to assist in integration with the preparation of the RL Project Management Plan.

PTS Support

- o Supported corrective action plan development for vehicle accident analysis.
- o Updated WESF crane procedures to incorporate new radiation controls.

MAJOR ISSUES

Issue:

Contract authorization needed to accelerate FY2018 contract scope for the repackaging of TRU waste in order to meet PM-13-2-17 – Repackage 280 m3 of TRU Mixed (TRUM) waste or Mixed Low Level Waste (MLLW) during FY2017.

Corrective Action:

Work with RL to secure authorization within projected funding limitations.

Status:

Request submitted informally to RL in December 2016; awaiting authorization.

Issue:

Potential delayed approval of Master Documented Safety Analysis (MDSA) Revision 12. This delay will impact T Plant's ability to complete Readiness Assessment activities in preparation to receive sludge.

Corrective Action:

Based upon informal comments and discussions with RL, CHPRC declared a potential inadequacy in the safety analysis (PISA) on February 22, 2017. Specifically regarding a fire analysis based on a seismic event. Preparing unreviewed safety question (USQ) and evaluation of the safety of situation (ESS) with justification for continue operation (JCO) for submittal to RL.

Status:

Received draft comments on Revision 12. Extent of comment resolution will have a significant impact on the MDSA/TSR, including a total revision of the Chapter 3 accident analysis. Continue to work with RL to resolve comments.

Issue:

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

Corrective Action:

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

Status:

Continuing to use the best demonstrated available technology to provide adequate configuration and minimize the potential for contamination spread during the long-term storage (i.e., protecting boxes with tarps or protective shoring, over packing drums, repacking containers, etc.). Working to streamline and consolidate existing container management procedures and shipping to PFNW for repackaging when weather and RL authorizations permit.

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, the 225-B (WESF) Health Hazard Level was changed from High to Severe in alignment with WAC 246-290-490 Section 4,

requiring service connections to premises posing a severe health hazard to have cross-connection installed.

Corrective Action:

The WAC requires 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.” RL has reportedly identified corrective actions and communicated those to Department of Health (DOH).

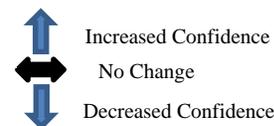
Status:

CHPRC submitted a pre-existing condition notification to RL. Seven locations within the facility would require modification. RL has provided direction to MSA that will remedy the majority of the issue with a modification at the source. A description and preliminary schedule for WESF potable water facility modifications were transmitted to RL on July 6, 2016 (CHPRC-1602928). A meeting was held with RL on January 12, 2017, to discuss the contractual direction that is needed to proceed, awaiting RL authorization 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: No major changes to the monthly stoplight chart in the month of February .																		
Realized Risks (Risks that are currently impacting project cost/schedule)																		
WSD-W130-17: Changes in the final design are needed after the design is issued. Changes are driven by unexpected conditions, additional reviews of the design media, or field conditions. Design changes result in cost impacts and schedule delays.	Changes in the final design are needed after the design is issued. Changes are driven by unexpected conditions, additional reviews of the design media, or field conditions. Design changes result in cost impacts and schedule delays. Risk Handling Strategy: Control Probability: Low (10% to 25%) Worst Case Impacts: \$512K, 64 days			<p>Risk Event: Risk was realized when additional reviews of design media and K3N ventilation skid as-built conditions were analyzed during writing of test and operating procedures, as well as during stabilization activities in the canyon.</p> <ol style="list-style-type: none"> Changes in fire suppression system design are necessary to allow leak testing of the full system due to limitations in the existing skid design. K3N skid requires modifications to ensure proper operation at WESF. Hot cell penetration sealing requires more work than planned. Communication between hot pipe trench in WESF and B Plant causes grout to flow into B Plant during trench grouting. Extensive contamination and high dose rates were found at the hot cell cover blocks during grouting preparations, causing a change to the design to prevent grout leaking into the Canyon during grouting of the hot cells. <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>Seal seams at hot cell cover blocks and provide a controlled vent path for grouting of the hot cells</td> <td>10/17/16</td> <td>3/24/17</td> <td>80</td> </tr> </tbody> </table> <p>Recovery Action Assessment: A controlled HEPA-ventilation vent path will be provided in the hot cell cover block seams prior to placement of the last lift of grout to prevent over-pressurizing the hot cells during grouting. Risk evaluations for a positive transient pressure event during grout conveyance line cleanout and implementation of mitigating actions, as well as the high dose field in the canyon, have caused an overall slip of two months to the forecasted completion date of the recovery action. However in February the project was able to accelerate the recovery action identified for this risk by two weeks.</p>	Risk recovery action(s)	Risk Date	FC Date	%	Seal seams at hot cell cover blocks and provide a controlled vent path for grouting of the hot cells	10/17/16	3/24/17	80						
Risk recovery action(s)	Risk Date	FC Date	%															
Seal seams at hot cell cover blocks and provide a controlled vent path for grouting of the hot cells	10/17/16	3/24/17	80															
WSD-125: Multi-Year Pause in Waste Processing Results in Unexpected Container Integrity Issues	A pause in waste processing results in an unexpected container degradation within SWOC (excluding TRU Retrieval activities) and require additional resources to respond. Risk Handling Strategy: Accept Probability: Likely (75% to 90%) Worst Case Impacts: \$5 million, 0 day			<p>Risk Event: In November 2011, degraded containers were discovered in CWC.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>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> </tbody> </table> <p>Recovery Action Assessment: Project continued to perform container surveillances in the month of February to identify container and container cover abnormalities. The project will perform the overpack for Storage box 75DMA16F3, with a subsequent move into 2403WD. The work package is under development and work will be scheduled based on priorities. The remaining containers will continue to require surveillance and continued enhanced monitoring.</p>	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
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															

Risk Title	Unmitigated Risk Impacts	Assessment		Comments											
		Month	Trend												
RL-0013/WBS-013															
WSD-W130-22: Loss of contamination control due to invasive activities	<p>There is a risk that during grout fill of the hot cells/duct that grout may leak from the cells/duct, through the wall and leak into the operating gallery or service gallery or truckport space. There is a risk that during operations, containment barriers are lost and the operating gallery, service gallery, filter pit area or truck port space is contaminated.</p> <p>Risk Handling Strategy: Accept</p> <p>Probability: Medium (26% to 74%) Worst Case Impacts: \$408K, 48 days</p>	●	↓	<p>Risk Event: During cleanout of the grout lines to C Cell, radioactive material collected in the temporary ventilation system, causing a high dose field in the canyon.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Risk recovery action(s)</th> <th>Risk Date</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Develop and implement a recovery plan to address the high dose field in the canyon</td> <td rowspan="2" style="text-align: center;">12/19/16</td> <td style="text-align: center;">3/20/17</td> <td style="text-align: center;">75</td> </tr> <tr> <td>Implement BCR to utilize MR for change in baseline assumption and unplanned in-scope work to recover from contamination events experienced.</td> <td style="text-align: center;">Complete</td> <td style="text-align: center;">100</td> </tr> </tbody> </table> <p>Recovery Action Assessment: On-going risk evaluations revealed a risk that during cleaning of the grout lines that the hot cells and ventilation ducting may experience a transient positive pressure event. Calculations were performed to estimate magnitude of the pressure event and to plan mitigation actions. The ventilation ducting was reinforced and a buffer volume was provided to accommodate a transient pressure spike via installation of a collapsed plastic bag at the end of the temporary ventilation line. A recovery plan has been developed to safely mitigate the high dose field in the canyon. The grouting sequence will be modified for the remainder of grouting to further mitigate the risk of radioactive material leaving the hot cells (re-sequencing of the grouting to eliminate 1 lift into each hot cell, elimination of cleanout of the grout lines into the hot cells, gravity feed of the last lift into each hot cell). Implementation of the recovery action identified for this risk are forecasted to complete in March.</p>	Risk recovery action(s)	Risk Date	FC Date	%	Develop and implement a recovery plan to address the high dose field in the canyon	12/19/16	3/20/17	75	Implement BCR to utilize MR for change in baseline assumption and unplanned in-scope work to recover from contamination events experienced.	Complete	100
Risk recovery action(s)	Risk Date	FC Date	%												
Develop and implement a recovery plan to address the high dose field in the canyon	12/19/16	3/20/17	75												
Implement BCR to utilize MR for change in baseline assumption and unplanned in-scope work to recover from contamination events experienced.		Complete	100												
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	<p>T Plant suffers a major equipment failure (crane, primary power supply, etc.), resulting in cost impacts, and schedule delays.</p> <p>Risk Handling Strategy: Control</p> <p>Probability: Medium (26% to 74%) Worst Case Impacts: \$750K, 96 days</p>	●	↔	<p>Risk Trigger Metric: During planned facility operations activities a suspect system component is discovered that requires attention, or an unexpected malfunction results in this risk being realized. This risk will continue throughout the CHPRC (September 30, 2018).</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Identify and procure spare parts for T Plant Crane</td> <td style="text-align: center;">Ongoing</td> <td style="text-align: center;">N/A</td> </tr> </tbody> </table> <p>Mitigation Assessment: No changes in the month of February. The project has put into place mitigating strategies (i.e., aggressive S&M activities) to help reduce this risk. The project is also working toward identifying and procuring spare parts for the T Plant Crane to further reduce the risk. The crane is currently operational. The project has completed the crane bridge drive bearing repairs discovered during preventative maintenance.</p>	Mitigation action(s)	FC Date	%	Identify and procure spare parts for T Plant Crane	Ongoing	N/A					
Mitigation action(s)	FC Date	%													
Identify and procure spare parts for T Plant Crane	Ongoing	N/A													

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: Medium (26% to 74%) Worst Case Impacts: \$2.5 million, 0 day			Risk Trigger Metric: Will continue throughout contract (September 30, 2018).												
				<table border="1" style="width: 100%;"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>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).</td> <td>Ongoing</td> <td>N/A</td> </tr> <tr> <td>Continue to work with RL to fund the processing of TRU/M waste at PFNW at a rate in which keeps them viable (i.e., keeps the doors open).</td> <td>Ongoing</td> <td>N/A</td> </tr> <tr> <td>Evaluate the benefit(s) associated with an increase to the PFNW 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 will take place in conjunction with the M-091-52 engineering study.</td> <td>09/30/17</td> <td>10</td> </tr> </tbody> </table>	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 in which keeps them viable (i.e., keeps the doors open).	Ongoing	N/A	Evaluate the benefit(s) associated with an increase to the PFNW 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 will take place in conjunction with the M-091-52 engineering study.	09/30/17	10
				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 in which keeps them viable (i.e., keeps the doors open).	Ongoing	N/A										
Evaluate the benefit(s) associated with an increase to the PFNW 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 will take place in conjunction with the M-091-52 engineering study.	09/30/17	10														
Mitigation Assessment: No changes in the month of February.																
1) MLLW: Two contracts in place with offsite commercial waste treatment which provides 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 Perma-Fix treatment facility in Tennessee (M&EC). Additional capability will need to be obtained to meet regulatory requirements. 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. Two shipments (TC155 & TC156) with a total volume of ~25m3 are scheduled to be shipped to PFNW during 2nd quarter FY2017 to support PFNW's optimal processing levels through the end of the calendar year. Additionally, PFP has shipped TRU and LLW to PFNW during the first quarter of FY2017. These shipments should provide adequate waste volumes to support PFNW's optimal processing levels for all of FY2017 and possibly FY2018.																
2) RL's action to authorize and/or fund this action. If the TRU/M waste generated from the PRF Canyon floor cleanout (J-Pan waste) requires treatment, it would significantly impact the projects ability to have sufficient treatment capability/capability at PFNW for the processing of Legacy TRU/M waste to meet M-091-47C and -47D objectives for FY2017 and 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: \$32 million, 0 day			Risk Trigger Metric: Will continue throughout project lifecycle (September 30, 2018).												
				<table border="1" style="width: 100%;"> <thead> <tr> <th>Opportunity action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Plan work activities and procurements to be as efficient as possible with minimal resources.</td> <td>Ongoing</td> <td>N/A</td> </tr> </tbody> </table>	Opportunity action(s)	FC Date	%	Plan work activities and procurements to be as efficient as possible with minimal resources.	Ongoing	N/A						
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 February. The project has realized efficiencies of approximately \$49 million to date. Future efficiencies are being offset due to discrete project overruns, increased regulatory scrutiny, maintenance lessons learned across CHPRC DOE Complex, and heightened compliance postures. Also note that the EAC currently contains work identified as changed scope in 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: \$1,040K, 0 days</p>	●	↔	<p>Risk Trigger Metric: This risk has been triggered due to current condition of 221-T Dock #2.</p> <table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Repairs to 221-T Dock #2 are needed in support of sludge receipt</td> <td>04/30/17</td> <td>0</td> </tr> </tbody> </table> <p>Mitigation Assessment: No changes in the month of February. Deterioration of the steel decking and steel support structure for 221-T Dock #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. 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	%	Repairs to 221-T Dock #2 are needed in support of sludge receipt	04/30/17	0
Mitigation action(s)	FC Date	%								
Repairs to 221-T Dock #2 are needed in support of sludge receipt	04/30/17	0								
FY2017 Risk Triggers (Risk could be realized in FY2017)										
WSD-W130-18: Failure of WESF Hot Cell during Grouting	<p>There is a risk that the capacity of the floor or walls of the hot cells cannot sustain the applied loads from grout and fails. In addition, a failure to the cover blocks and or the canyon floor result in cost impacts, and schedule delays.</p> <p>Risk Handling Strategy: Control</p> <p>Probability: Medium (26% to 74%)</p> <p>Worst Case Impacts: \$768K, 96 days</p>	●	↔	<p>Risk Trigger Metric: Initiation of hot cell grouting.</p> <table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Fill hot cells in 3 foot lifts to minimize sudden stress by allowing partial curing between lifts, as well as early detection of hot cell floor failure.</td> <td>3/24/17</td> <td>77</td> </tr> </tbody> </table> <p>Mitigation Assessment: Structural evaluations and calculations have been completed and identified controls necessary during grouting (limit lifts of grout placement to three feet, compare actual grout volume placed to calculate estimated volume). No alternative course of actions needed at this time. Risk evaluations for a positive transient pressure event during grout conveyance line cleanout and implementation of mitigating actions, as well as the high dose field in the canyon, have caused an overall slip of two months to the forecasted completion date of the mitigation action. However in February the project was able to accelerate the recovery action identified for this risk by two weeks.</p>	Mitigation action(s)	FC Date	%	Fill hot cells in 3 foot lifts to minimize sudden stress by allowing partial curing between lifts, as well as early detection of hot cell floor failure.	3/24/17	77
Mitigation action(s)	FC Date	%								
Fill hot cells in 3 foot lifts to minimize sudden stress by allowing partial curing between lifts, as well as early detection of hot cell floor failure.	3/24/17	77								
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"> <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 February. 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"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Preparing strategy on how to meet the DOE O 413.3B requirements</td> <td>On going</td> <td>N/A</td> </tr> </tbody> </table> <p>Mitigation Assessment: 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 DOE 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. RL will be sending the tailoring strategy to HQ on March 30, 2017.</p>	Mitigation action(s)	FC Date	%	Preparing strategy on how to meet the DOE O 413.3B requirements	On going	N/A
Mitigation action(s)	FC Date	%								
Preparing strategy on how to meet the DOE O 413.3B requirements	On going	N/A								

Risk Title	Unmitigated Risk Impacts	Assessment		Comments						
		Month	Trend							
RL-0013/WBS-013										
WSD-W135-17: Modifications to WESF	The transfer of the capsules to a dry storage will require modifications to the WESF. Risk Handling Strategy: Accept Probability: Very Likely (>90%) Worst Case Impacts: \$7,300K, 0 days			Risk Trigger Metric: Modification to the WESF facility are required for transfer of capsules to dry storage.						
				<table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Conducted a walkdown with subcontract NAC International, Inc., CHPRC, and WESF Operations personnel to help address this risk.</td> <td>Complete</td> <td>100</td> </tr> </tbody> </table>	Mitigation action(s)	FC Date	%	Conducted a walkdown with subcontract NAC International, Inc., CHPRC, and WESF Operations personnel to help address this risk.	Complete	100
				Mitigation action(s)	FC Date	%				
Conducted a walkdown with subcontract NAC International, Inc., CHPRC, and WESF Operations personnel to help address this risk.	Complete	100								
Mitigation Assessment: No changes in the month of February. 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.										
Unassigned Risks (Pending ownership of identified risks/opportunities)										
No unassigned risks identified in the month of February.										

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	9.4	8.7	7.4	(0.7)	-7.4%	1.3	15.1%

Numbers are rounded to the nearest \$0.1 million

CM Schedule Performance (-0.7M/-7.4%)

The current month negative schedule variance is associated with 013.06.01.08 – RH/Large Box Repack. This work was completed ahead of schedule in a prior period (TC141). It was partially off-set by the early performance of work related to TC152 & TC153.

CM Cost Performance (+1.3M/+15.1%)

The current month favorable cost variance is primarily attributed to W-130 WESF Ventilation and Stabilization Project (~\$1.0 million). Recovery work was performed more efficiently than planned (~\$300K). In addition, receipt of contractor costs (~\$600K) were delayed due to ongoing negotiations and change orders.

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

WBS 013/RL-0013 Waste and Fuels Management Project	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)
Total	1,129.3	1,129.0	1,056.0	(0.3)	-0.0%	73.0	6.5%	1,345.4	1,290.6	54.8

Numbers are rounded to the nearest \$0.1 million

CTD Schedule Performance (-0.3M/-0.0%)

The contract-to-date schedule variance is within threshold.

CTD Cost Performance (+\$73.0M/+6.5%)

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

Variance at Completion (+\$54.8M/+4.1%)

The Variance at Completion is within threshold.

Contract Performance Report Formats are provided in Appendix A.

FUNDS vs. SPEND FORECAST (\$M)

WBS 013/RL-0013 Waste and Fuels Management Project	FY2017		Variance
	Projected Funding	Spending Forecast	
Spending Forecast	103.3	92.6	10.7
Incremental Scope Pending Change Management	0.0	5.0	(5.0)
RL-0013 – Total	103.3	97.6	5.7

Numbers are rounded to the nearest \$0.1 million.

Funds/Variance Analysis

The FY2017 projected funding for PBS RL-0013 of \$103.3 million remained unchanged this month. The total fiscal year spend forecast (FYSF) of \$97.6 million remained unchanged and includes scope awaiting authorization such as accelerated TRU Repackaging. In this month, the incremental scope was reduced and the EAC increased by approximately \$500K. This is due to incremental scope, primarily related to RH/ Large Package Capability, incurring costs, which are recorded in the EAC, and reducing the incremental scope forecast.

Critical Path Schedule

WESF Ventilation & Stabilization Project, W-130, critical path showed a completion date at February month end for Performance Measure, PM-13-5-16, on April 8, 2017. During cleanout of the grout lines to C Cell, radioactive material collected in the temporary ventilation system, causing a high dose field in the canyon. A recovery plan has been developed to safely mitigate the high dose field. The grouting sequence will be modified for the remainder of grouting to further mitigate the risk of radioactive material leaving the hot cells (re-sequencing of the grouting to eliminate 1 lift into each hot cell, elimination of cleanout of the grout lines into the hot cells, gravity feed of the last lift into each hot cell).

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 subsequent approved BCRs define CHPRC planning with respect to Tri-Party Agreement milestones. The following table is a one-year look ahead of commitments and Tri-Party Agreement enforceable milestones and non-enforceable target due dates.

Number	Title	Due Date	Actual Date	Forecast Date	Status/ Comment
C-026-07K	Tritium Treatment Technology Developments to Ecology and EPA	3/31/17		3/30/17	On Schedule
M-091-03K	Submit Revision of TRUM Waste and MLLW PMP to Ecology	6/30/17		6/30/17	On Schedule
M-092-05	Determine Disposition Path and Establish Cs/Sr Interim Milestones.	6/30/17		6/19/17	On Schedule
M-091-52	Submit change request with target dates for new/modified capabilities to process TRUM waste.	9/30/17		9/30/17	On Schedule
C-026-07L	Tritium Treatment Technology Developments to Ecology and EPA	3/31/18		3/29/18	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-11, Plutonium Finishing Plant Closure Project PBS-13, Solid and Liquid Waste Treatment and Disposal	Offsite Transportation of Radioactive Material: RL provides equipment and government drivers to transport TRU materials outbound/inbound between the Hanford Site and PFNW locations. RL is the authorized shipper and acts as signatory on the shipping papers, and ensures DOE Manual 460.2-1 is complied with. RL arranges for Commercial Motor Vehicle Safety Alliance (CVSA) level VI vehicle inspections and verifies that the government drivers meet	Ongoing

Contract Section	Project	GFS/I	Status
		the applicable Department of Transportation (DOT) Federal Motor Carrier Safety Regulations (49 CFR 382 and 383). RL also inspects the load securement to ensure compliance with DOT regulations and/or TSD requirements.	
J.12/C.2.3.6	PBS-13, Transuranic Waste Certification	WIPP provides shipping resources and manages the schedule for transportation of these containers to WIPP. The schedule is variable and the number of shipments is controlled by DOE-HQ on a complex-wide priority. Cost for shipment of TRU waste offsite is borne by the CBFO.	No WIPP shipments are planned within the Contract period of performance.

DOE ACTIONS / DECISIONS

Description	CHPRC Delivery Date	RL Due Date
RL Review and Approve Master Documented Safety Analysis (MDSA) and Technical Safety Requirement (TSR) Rev. 12	11/29/16 (A)	02/26/17
RL provide contract authorization to accelerate FY2018 contract scope for the repackaging of TRU waste in order to meet PM-13-2-17.	N/A	04/20/17

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

February 2017
CHPRC-2017-02, 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)		Nitrate as N (kg)		Tech-99 (pCi)		Uranium (kg)	
	CM	FYTD	CM	FYTD	CM	FYTD	CM	FYTD	CM	FYTD	CM	FYTD
DX P&T	29.5	155.8	2.7	15.5								
HX P&T	23.5	120.8	1.7	10.6								
KR-4 P&T	12.4	61.2	0.1	0.6								
KW P&T	0.0	0.0	0.0	0.0								
KX P&T	33.4	175.2	1.9	10.0								
200 West P&T	78.5	386.9	6.8	34.2	161	801	5582	27302	.14x10 ¹²	.65x10 ¹²	1.8	5.1
Combined	177.3	899.8	13.1	71.0	161	801	5582	27302	.14x10¹²	.65x10¹²	1.8	5.1
FY2017 KPG	--	2200	--	160	--	1700	--	80000	--	N/A	--	45

Well Drilling by Area	FY2017 Planned	Current Month	FY2017 Cumulative
100-KR-4	5	-	1
100-HR-3	6	-	-
200-UP-1	10	2	5
200-ZP-1	5	-	-
M-24 Milestone	5	-	-
300 Area	67	-	-
200-DV-1	5	-	-
Total Wells	103	2	6
Site Wide Boreholes	34	-	-

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	25%

TARGET ZERO PERFORMANCE

	CM Quantity	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	2	NA
Total Recordable Injuries	0	1	NA
First Aid Cases	6	*53	<ul style="list-style-type: none"> • 2/1/2017 – Employee arrived at well site and entered controlled drill zone area and slipped on snow covered ice and fell to ground. The individual was taken to HPMC for evaluation, provided OTC medication, and returned to work with no restrictions. (24344) • 2/8/2017 – Employee slipped on snow and ice while walking from vehicle to work location and fell to ground. The individual was taken to HPMC for evaluation and returned to work with no restrictions. (24351) • 2/13/2017 – Employee completed 360 degree inspection and slipped on a patch of ice in front of vehicle door and fell to ground. The employee was taken to HPMC for evaluation and returned to work with no restrictions. (24365) • 2/13/2017 – While removing ice from outside mobile office, employee reported broken shovel handle had cut finger. The employee was taken to HPMC for evaluation and referred to off-site provider for additional treatment. The offsite provider treated the employee and the individual returned to work without restriction. (24367) • 2/14/2017 – Employee was exiting sample van and fell to ground. The individual was taken to HPMC for evaluation, was treated for contusion to elbow, and provided with OTC medication if needed, and returned to work with no restrictions. (24369) • 2/16/2017 – Employee was walking in parking lot and slipped on ice covered by water. Individual was taken to HPMC for evaluation and returned to work without restriction. (24373) <p style="text-align: center;">*9 FA cases, PTS in support of RL-0030.</p>
Near-Misses	0	1	NA

KEY ACCOMPLISHMENTS

RL-0030 Accomplishments

RL-0030.01 RL 30 Operations

Environmental Integration

- Transmitted the Low Level Disposal Facility Federal Review Group reviews of the Fiscal Year (FY) 2015 annual status reports for Hanford Site performance assessments and composite analysis to RL on January 27, 2017. The letter concluded that the disposal authorization statements remain valid for the 200 West and 200 East Burial Grounds and the Environmental Restoration Disposal Facility.

- EPA approved the 200-WA-1 Remedial Investigation/Feasibility Study (RI/FS) work plan which included the Central Plateau Inner Area Principles and Parameters. The principles and parameters set the framework for how cleanup decisions will be structured.

River Corridor

- Reached agreement with RL on the adjusted scope for the FY2017 Plume Containment and Remediation Utilization Plan and initiated preparation of Revision 1, which will be transmitted to RL in early March.

100-BC-5 Operable Unit

- Provided briefing to RL on February 16, 2017, summarizing the results of an assessment that evaluated the potential habitat for, or documented presence of White Bluffs bladderpod and Umtnaum desert buckwheat within the 100-BC Area. These particular plant species are listed as threatened under the Endangered Species Act. The assessment concluded that activities, processes, and operations conducted at 100-BC had no effect to these two plant species or their potential habitat.

100-KR-4 Operable Unit

- Provided KW rebound status update and discussed restart recommendations with RL on February 22, 2017. Initiated the design and physical preparations necessary to restart the system in April.
- Completed resin addition to the inactive vessels which will increase KR-4 P&T throughput by an additional ~50 gpm.

100-HR-3 Operable Unit

- Continued comment resolution on the draft 100-D/H Record of Decision via meetings with RL, EPA and Ecology on February 13 and 15, 2017.

Central Plateau

200-UP-1 Operable Unit

- Completed the uranium plume capture zone evaluation for transmittal to RL. The evaluation recommends that the extraction system be extended to well 299-W19-125 (currently being drilled) to improve plume capture.
- Completed construction of SE chromium plume well 699-32-64. The following two chromium plume wells remain: well 699-30-63 which is under construction and well 699-32-59 which has been drilled.

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

- Completed additional fate and transport modeling performed in support of the 200 BP-5 removal action work plan. This modeling identifies the optimum well configuration for the proposed extraction wells at various flows rates.

200-EA-1 Operable Unit

- Completed and delivered 145 waste site scoping summaries to Ecology. Two summaries are pending due to ongoing discussions with RL and Ecology.
- Conducted five RL and Ecology workshops to address waste site data needs.
- Initiated preparation of change package C-17-02, which moves waste sites to/from 200-EA-1 based on workshop discussions. The change package will be submitted to RL late-March.

Central Plateau Closure Plans

- Completed four calculations evaluating the dangerous waste designations for the 216-A-29 ditch, 216-A-36B crib, 216-A-37-1 crib, and 216-B-63 ditch. Conclusions indicate that 216-A-37-1 should

remain designated as a treatment, storage, and disposal (TSD) and 216-A-29 ditch, 216-A-36B crib, and 216-B-63 ditch should not be designated as TSD units.

200-DV-1 Operable Unit

- Completed the Pacific Northwest National Laboratory (PNNL) laboratory analyses on the soil core samples collected from the first 22 of 26 boreholes. Initiated internal review of Contaminant Attenuation and Transport Characterization for S-and T-Complex and Geochemical, Microbial, and Physical Characterization at B-Complex reports.
- Awarded the drilling contract for the remaining four deep boreholes identified in sampling and analysis plan.

200-ZP-1 Operable Unit

- Completed review of the Baseline Pump and Treat Extraction/Injection Well Database for 200 Area wells (uber table).
- Revised and received RL and EPA approval on TPA-CN-0776. This change notice added four new injection wells and three new monitoring wells to the 200 West P&T Operations and Maintenance Plan.
- Completed a groundwater monitoring redundancy analysis on the 200-ZP-1 groundwater monitoring network.

Groundwater P&T Facilities

200 West P&T

- Operated the 200 West P&T at an average of 1,946 gpm.

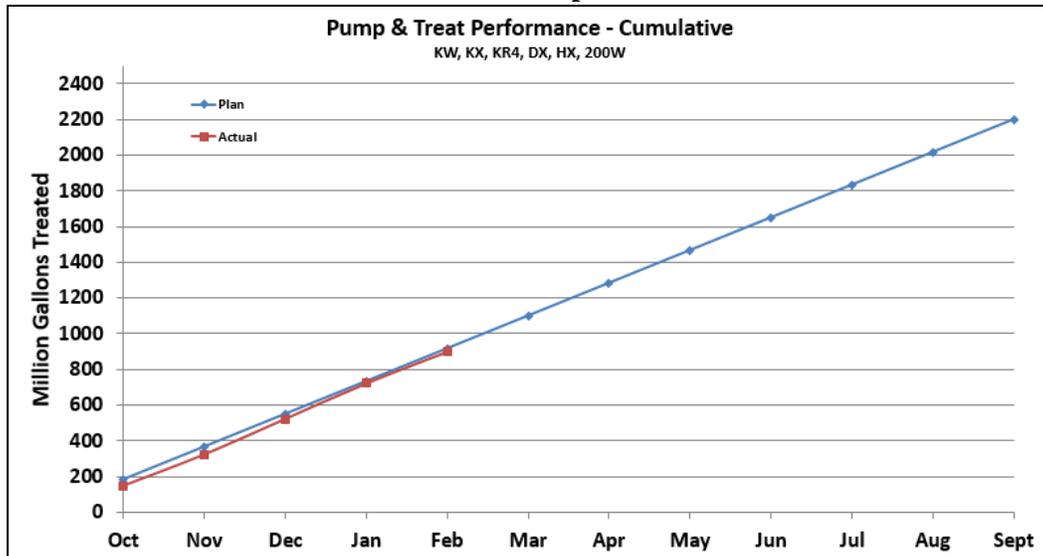
100 Area P&Ts

- Operated the DX P&T at 732 gpm, below the facility capacity of 775 gpm.
- Operated the KR-4 P&T at 307 gpm, below the facility capacity of 330 gpm.
- The KW P&T remains turned off to perform rebound study.
- Operated the KX P&T at 828 gpm, below the facility capacity of 900 gpm.
- Operated the HX P&T at maximum extraction well capacity. Monthly average at 584 gpm.
- Several low flow wells are frozen during sustained subfreezing weather.

PTS Accomplishments

- **Engineering Services**
 - Supported the project in the preparation of the functional design criteria for the ammonia/nitrogen injection for Uranium Reactive Gas Sequestration (URGS) treatability test.
- **Operations Program**
 - Emergency Preparedness (EP)
 - Conducted EP drills.

FY2017 P&T Operations



200 West P&T

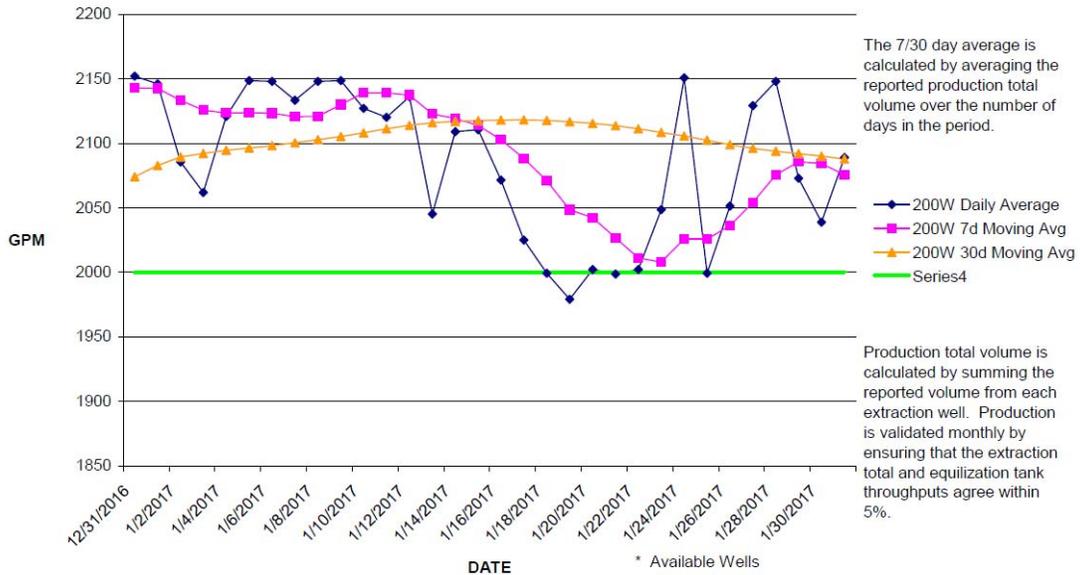
2W EXTRACTION WELLS AVERAGE DAILY FLOW RATES

Current GPM = 2089 Capacity = 2089 / 2450 = 85% *

30d Average GPM = 2088 Capacity = 2088 / 2450 = 85% *

7d Average GPM = 2075

Data validated thru last completed month



MAJOR ISSUES

Issue:

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

- Delay in Ecology review of the 200-BP-5 RI/200-PO-1 RI Addendum.
- Delay in Ecology approval of the 200-IS-1 Tri-Party Agreement change package C-013-01, which affects the 200-IS-1 RI/FS Work Plan (DOE/RL-2010-114) scope definition.
- Delays in Ecology review of the 100-N Revised RI.

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 suspended review of the 200-BP-5 RI report and the 200-PO-1 RI report addendum on October 23, 2015, (15-NWP-189), pending resolution of the Central Plateau modeling approach. Received Ecology letter (16-NWP-220) on December 28, 2016, notifying RL that Ecology is accepting the use of the Central Plateau model for the 200-BP-5 and 200-PO-1 Operable Units (OU). Ecology has not provided a schedule for completion of their review.
- 200-IS-1 RI/FS Work Plan: Ecology has stopped review of change package C-13-01 due to disagreement regarding TSD determinations and associated criteria.

On October 20, 2016, RL provided the updated Change Package C-13-01 and four other change packages, to better align the waste sites within the 200-IS-1 OU and several other OUs, to Ecology for review/approval. This topic was discussed during the January 4, 2017, Senior Executive Council meeting; RL and Ecology attorneys continue working to reach agreement with an anticipated resolution of June 30, 2017, discussed. The current dispute resolution period is planned to be extended to June 30, 2017.

- 100-NR-2 RI: Ecology has not begun review of the revised RI, which was provided on November 23, 2016. Ecology indicated that they would begin the review next month, which may take up to three months to complete.

Issue:

Based on groundwater samples taken during drilling of the first set of three wells, the 200-UP-1 southeast chromium plume extends further to the southeast than previously mapped, and will likely require additional characterization wells (beyond the six wells planned) to define the southern plume boundary. This additional characterization will impact completion of Tri-Party Agreement Milestone M-016-193 to complete the remedial design investigation of the southeast chromium plume by September 30, 2017.

Corrective Action:

Two corrective actions have been identified:

1. Implement actions to define the southeast chromium plume. The two southern-most characterization wells drilled to date will be prioritized and resampled to confirm chromium concentrations. Six

existing groundwater monitoring wells to the south of the plume will be sampled to help establish extent of the plume and locate additional characterization wells. Cultural reviews for six potential well locations will be prepared to help define the southern extent of the plume. The results from these additional samples will be used to define the need for additional characterization wells.

2. Meet with EPA and adjust the due date for Tri-Party Agreement Milestone M-016-193.

Status:

Corrective Action #1: Complete.

Corrective Action #2: On-going, the Tri-Party Agreement change package to move the milestone M-016-193 is expected to be signed next month.

Issue:

The significant snow accumulations have delayed archeological field surveys, which will then delay completion of the following CRRs:

- 100-HR-3 wells/conveyance lines delayed since December 14, 2016.
- 200-UP-1 monitoring well delayed since December 20, 2016.

Corrective Action:

Conduct the archeological field survey as soon as snow conditions allow and then expedite actions to prepare draft CRRs. Closely monitor Mission Support Alliance, LLC (MSA)'s progress on these tasks.

Status:

Archeological field surveys for 200-UP-1 and 100-HR-3 CRR's are expected to be initiated by MSA on February 27, 2017. The schedule for completion of these CRR's is now mid-May, which impacts our ability to complete the 100-HR-3 well drilling and alignment scope during this fiscal year. This scope is included under PM-30-1-17 Maximize plume containment and remediation utilization. RL has been notified of this issue.

Issue:

A small water leak near the base of fluidized bed reactor (FBR) A was discovered on January 30, 2017. Exact location/cause of the leak cannot be determined without tank entry.

Corrective Action:

Identify leak location and cause and correct.

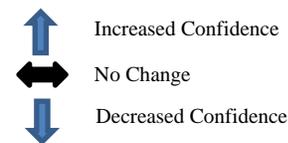
Status:

Contracts are in place with Augusta Fiberglass and Envirogen. Carbon removal work package is approved and ready to work. The inspection/repair work package is in approval. Mock-up of the placement of the Wear Plates is scheduled. Expect to start the inspection/repair of the tank on March 21, 2017.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

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



Risk Title	Unmitigated Risk Impacts	Assessment		Comments						
		Month	Trend							
RL-0030/WBS-030										
Explanation of major changes to the project monthly spotlight chart: No major changes to the risk spotlight chart in the month of February .										
Realized Risks (Risks that are currently impacting project cost/schedule)										
OPPORTUNITY: SGW-007A: Sampling Requirement Reduction	Reduction in field sampling (locations, frequency, or total number of samples collected) has the opportunity to reduce long-term groundwater monitoring cost. Risk Handling Strategy: Exploit Probability: Very Likely (>90%) Worst Case Impacts: \$1 million, 0 day			<p>Opportunity Event: The <i>Optimization Plan to Revise the Groundwater Sampling Plan</i> is final and provides the roadmap to revise the groundwater monitoring SAPs over the next two years.</p> <table border="1"> <thead> <tr> <th>Opportunity action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Obtain Agency approval of the revised SAPs.</td> <td>TBD</td> <td>86</td> </tr> </tbody> </table> <p>Note: 30 of the planned 35 SAP revisions have been completed (86%).</p> <p>Opportunity Assessment: All 10 CERCLA groundwater monitoring SAPs have been revised and transmitted to RL and the regulators. Eight of the SAPs are approved and implemented. Two CERCLA SAPs (200-BP-5 and 200-PO-1) are impacted by the Central Plateau modeling issue. Use of the Central Plateau model was approved by Ecology on December 28, 2016, which will help facilitate completion of these SAPs. <i>The project is currently working with Ecology on comment resolution, however the forecasted completion date for the remaining SAPs is uncertain at this time.</i></p> <p>All 25 RCRA monitoring plans have been reviewed and of these, 13 plans required no changes. The remaining 12 monitoring plans were revised and transmitted to Ecology for review. Comments have been received from Ecology and nine monitoring plans have been revised and implemented. The remaining three monitoring plans <i>have complete comment disposition and are being finalized for publication in March.</i></p> <p>No alternative course of actions are needed at this time.</p>	Opportunity action(s)	FC Date	%	Obtain Agency approval of the revised SAPs.	TBD	86
Opportunity action(s)	FC Date	%								
Obtain Agency approval of the revised SAPs.	TBD	86								
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)										
No critical risks identified in the month of February .										
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)										
No high risks identified in the month of February .										
Unassigned Risks (Pending ownership of identified risks/opportunities)										
No unassigned risks identified in the month of February .										

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	12.7	9.4	9.3	(3.3)	-26.2%	0.1	0.7%

Numbers are rounded to the nearest \$0.1 million.

CM Schedule Performance (-\$3.3M/-26.2%)

The negative schedule variance resulted from the following:

- Delay of the 100-NR-2 Barrier maintenance and expansion activities, which were scheduled to start in FY2016 but were deferred due to funding limitations and pending resolution of cultural clearance items. Some cultural clearance and other planning activities are forecast to complete in FY2017, with field work initiating in FY2018.
- Similarly, purchased on a purge water truck planned in FY2017 has been deferred to FY2018 to align with the priority list and available funding.

CM Cost Performance (+\$0.1M/+0.7%)

The current month cost variance is within reporting thresholds.

Contract-to-Date

(\$M)

RL-0030 Soil and Groundwater Remediation	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)
Total	1,336.2	1,315.8	1,282.0	(20.4)	-1.5%	33.8	2.6%	1,566.5	1,496.2	70.3

Numbers are rounded to the nearest \$0.1 million.

CTD Schedule Performance (-\$20.4M/-1.5%)

The variance is within reporting thresholds.

CTD Cost Performance (+\$33.8M/+2.6%)

The variance is within reporting thresholds.

Variance at Completion (+\$70.3M/+4.5%)

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	130.7	106.0	24.6
Incremental Scope Pending Change Management	0.0	18.7	(18.7)
RL-0030 –Total	130.7	124.7	5.9

Numbers are rounded to the nearest \$0.1 million

Funds/Variance Analysis

FY2017 initial budget guidance received from RL reflects expected funding of \$130.7 million for PBS RL-0030. The fiscal-year spending forecast (FYSF) of \$124.7 million includes actions anticipated to achieve funding targets.

Critical Path Schedule

Critical path analysis can be provided upon request.

MILESTONE STATUS

Tri-Party Agreement milestones represent significant achievements in project execution. Enforceable Tri-Party Agreement milestones were established to provide high-level visibility to critical deliverables and specific status on the accomplishment of these key activities. The PMB Annual Update, implemented in September 2013, and subsequent approved baseline change requests (BCR) define CHPRC planning with respect to Tri-Party Agreement milestones. A Tentative Agreement for Tri-Party Agreement milestone series M-015, M-016, M-037, M-085 and M-094 was signed on October 26, 2015, and the final approval package was signed on May 25, 2016. The following table is a one-year look ahead of 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 in Dispute					
M-015-112	Submit Draft B, 200-IS-1 Operable Unit Pipeline System Waste Sites RFI/CMS/RI/FS Work Plan to Ecology	2/28/14		TBD	Dispute resolution extended to March 16, 2017. If a resolution is not agreed upon by March 16, 2017, dispute will be extended to June 2017.
Milestones on Schedule or at Risk					
M-024-58J	Initiate Discussions of Well Commitments	6/1/17		6/1/17	On schedule

Number	Title	Due Date	Actual Date	Forecast Date	Status/ Comment
M-024-68-T01	Conclude Discussions of Well Commitments	8/1/17		8/1/17	On schedule
M-015-92A	Submit RFI/CMS & RI/FS Work Plan for 200-EA-1 OU to Ecology	9/30/17		9/27/17	On schedule
M-016-193	Complete the remedial design investigation of the SE chromium plume, including the installation of new wells and evaluation of the GW monitoring data and install monitoring wells needed for remedy performance monitoring as defined in the UP-1 RD/RA WP.	9/30/17		8/30/18	At risk, schedule extension discussion underway. Draft Tri-Party Agreement change control form transmitted from RL to EPA that provides justification to extend Tri-Party Agreement Milestone M-016-193 by one year to September 30, 2018.

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.

DOE ACTIONS / DECISIONS

Description	CHPRC Delivery Date	RL Due Date
RL and Regulator Review of Draft Rev 0 100-NR-2 RI Report	11/17/16 (A)	3/30/17
RL Review of Decisional Draft 200-BP-5 Removal Action Work Plan	3/23/17	4/22/17
RL Transmit Draft A 200-BP-5 Removal Action Work Plan to Regulators for Review	5/18/17	5/28/17
RL Review Decisional Draft Central Plateau Tracer Study Sampling and Analysis Plan	5/16/17	6/13/17
RL Review Decisional Draft 100-HR-3 Remedial Design/Remedial Action Work plan	5/17/17	6/16/17
Concurrent CHPRC/RL Review of LLBG WMA-2 – Trench 94 Engineering Evaluation Report	5/9/17	5/22/17
Concurrent CHPRC/RL Review of SST WMA U Engineering Evaluation Report	5/30/17	6/12/17

Section E

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



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

February 2017
CHPRC-2017-02, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

The REDOX roof replacement is gearing up to begin construction activities with release of the work package to remove the roof ballast. Start of construction activities was delayed due to icy conditions on the roof. The B-Plant pre-filter removal activities were initiated until water was found in the pre-filter and filter bags. Work is currently on hold until further evaluation is conducted and work packages are updated.

EMS Objectives and Target Status

None currently identified.

TARGET ZERO PERFORMANCE

	Current Month	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	0	N/A
Total Recordable Injuries	0	0	N/A
First Aid Cases	0	8	N/A
Near Misses	0	0	N/A

KEY ACCOMPLISHMENTS

RL-0040 Accomplishments

Operations/Maintenance:

- Completed setup at B Plant in preparation for change out of the ACT 002 pre-filter (e.g., pre-assembly of ducting, cave setup, snow removal).
- Contractor completed development of the 60 percent detailed design package for the replacement PUREX stack sampling system, and CHPRC has initiated the review.
- Initiated pre-filter removal activities until encountering unexpected water within the pre-filter and filter bags.
- Completed surveys of B Plant Ancillary Buildings 217-B, 2716-B, 222-B and 292-B in preparation for demolition.

Continued Progress on Canyon Stabilization Documents:

- Routed REDOX SAP to RL for review; Removal Action Work Plan (RAWP) for internal review.
- Completed Tier 2 Miscellaneous Facilities RAWP Decisional Draft.
- Air Emissions calculation completed for 2716B.

REDOX Risk Mitigation

- Initiated REDOX Configuration Field Verification Walk downs in the REDOX Silo.

REDOX Roof:

- Released REDOX Roof Ballast Removal Work Package.
- Approved Critical Lift Plan for Roof Hopper Loading.

MAJOR ISSUES

None currently identified.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

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

-  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 stoplight chart: No major changes to the monthly stoplight chart in the month of February .										
Realized Risks (Risks that are currently impacting project cost/schedule)										
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			<p>Risk Trigger Metric: During routine surveillance activities, unforeseen events cause systems to be compromised. This is a lifecycle risk and will continue through the CHPRC (September 30, 2018).</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: This risk was realized in February to address the higher than planned maintenance cost being experienced by the project due to aging facilities. Due to the magnitude of the conditions being experienced, a BCR will be implemented in March that will utilize MR for the increased future maintenance for these facilities. 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 contract for the replacement system is projected to finish in May 2017. The project has also received change orders to complete roof replacement of the REDOX facility and to also initiate REDOX Silo and North Sample Gallery cleanup.</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								
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)										
No critical risks identified in the month of February .										
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)										
Lifecycle Risk Triggers (Risk could be realized at any point of the project)										
No high threat value risks identified in the month of February .										
Unassigned Risks (Pending ownership of identified risks/opportunities)										
No unassigned risks identified in the month of February .										

PROJECT BASELINE PERFORMANCE

Current Month

(\$M)

WBS 040/ RL-0040 Nuclear Facility D&D	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)
Total	1.2	1.2	2.0	(0.0)	-0.7%	(0.8)	-67.9%

Numbers are rounded to the nearest \$0.1 million

CM Schedule Performance: (-\$0.0M/-0.7%)

The schedule variance is within the reporting threshold.

CM Cost Performance: (-\$0.8M/-67.9%)

The unfavorable cost variance in the current month is due to:

- Collecting costs for the Resource Conservation and Recovery Act of 1976 Permit Rev 9 Management while developing the baseline change request to add the scope under a NTE. It was later determined this scope will fall under an indirect account and the costs will be transferred appropriately.
- Incurring costs for the REDOX Roof Replacement Firm Fixed Price (FFP) contract negotiated change orders. Additionally, overruns in the month are associated with carrying costs for management and oversight while only being able to claim minimal performance for the roof construction due to inclement weather.
- Increase in Min Safe labor due to the degradation of facilities which has led to increased durations of annual surveillances. More corrective maintenance has also been required to maintain facilities. The frequency of regulatory inspections has increased from previous years. Also, the increase in the radiological survey requirements from 60 to 90% confidence level has required more labor hours.

Contract-To-Date

(\$M)

WBS 040/ RL-0040 Nuclear Facility D&D	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)
Total	432.3	427.9	398.3	(4.4)	-1.0%	29.6	6.9%	477.5	454.2	23.3

Numbers are rounded to the nearest \$0.1 million

Cost to date (CTD) Schedule Performance: (-\$4.4M/-1.0%)

The schedule variance is within reporting thresholds.

CTD Cost Performance: (+\$29.6M/+6.9%)

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 (+\$23.3M/+4.9%)

The favorable Variance at Completion is due to under runs in the Waste Identification Form (WIF) Development, Cold and Dark, and Demolish 212N, 212P, and 212R Projects during the ARRA Project. Efficiencies were gained by combining these activities into the D4 activities, thus reducing overall resource requirements.

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	36.1	22.1	14.0
Incremental Scope Pending Change Management	0.0	10.4	(10.4)
RL-0040 – Total	36.1	32.5	3.6

Numbers are rounded to the nearest \$0.1 million.

Funds/Variance Analysis

Fiscal year (FY) 2017 projected funding for PBS RL-0040 is \$36.1 million. The incremental scope pending includes remaining scope for Redox roof replacement, silo cleanout of level 1-3, the north sample gallery cleanout, PUREX stack sampling repair, PUREX AMs and RAWPS, DQO for PUREX Tunnels, and maintenance for B Plant and REDOX.

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 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		3/31/2017	On Schedule
M-085-80A	Submit to Ecology secondary document, a DQO report to access structural integrity of PUREX storage tunnels 1 and 2.	9/30/2017		7/19/2017	On Schedule

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.

DOE ACTIONS / DECISIONS

Description	CHPRC Delivery Date	RL Due Date
RL Review of 202S Demo Prep / D&D / Annex Action Memo	11/21/16 (A)	03/27/17
RL Review of 202S Demo Prep / D&D / Annex SAP	03/09/17	03/30/17
RL Review of 202A Demo Prep / Annex / Vent Mods Action Memo	03/29/17	07/26/17
RL Review of 221B Demo Prep & Stabilization of Legacy Vent System Action Memo	05/31/17	06/28/17

Section F

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



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

February 2017
CHPRC-2017-02, 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

W. E. Kirby
Vice President for 324
Building Disposition
Project

M. A. Wright
Vice President for
Project Technical
Services

PROJECT SUMMARY

Support of Truthful Cost or Pricing Data (TCoPD) deliverables for change order definitization of River Corridor Closure Contract (RCCC) scope and 100K waste site remediation continued in February. In addition, the project continued the following progress: 100K waste site remediation, 105-K West Fuel Storage Basin deactivation and demolition long range planning, 618-10 Burial Ground and 316-4 Waste Site remediation, 300-296 design for the 324 Building structural modifications and Mockup, and equipment procurements.

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	50%
17-EMS-KBOPR-OB2-T1	Universal Waste and Recycling Compliance and Spill Prevention.	Monitor and evaluate universal waste.	9/30/17	40%

TARGET ZERO PERFORMANCE

	Current Month	Rolling 12 Months	Comment
Days Away, Restricted or Transferred	0	0	N/A
Total Recordable Injuries	0	*0	*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	6	22	<ul style="list-style-type: none"> 2/7/2017 – Employee was walking between vehicles and slipped and fell, hitting lower left hip and back and right shoulder. Employee was evaluated at HPMC and released to work without restrictions. (24349) 2/7/2017 – While walking, an employee slipped fell onto their right knee and wrist. Employee was taken to HPMC for evaluation and released to work without any new restrictions. (24350) 2/8/2017 – Employee slipped and fell onto their knees while walking across parking lot. Employee was taken to HPMC for evaluation and released to work without restrictions. (24355) 2/10/2017 – Employee slipped and fell on an icy surface while working in a container transfer area. Employee was evaluated at HPMC and returned to work without restrictions. (24359) 2/14/2017 – While walking across the work area, an employee stepped into a hole and fell. The employee was taken to HPMC for evaluation and released to work without restrictions. (24370)

			<ul style="list-style-type: none"> 2/28/2017 – An employee exiting an excavator misjudged the distance to the first step and injured a foot. The employee was taken to HMPC and released to work without restrictions. (24385)
Near Misses	0	0	N/A

KEY ACCOMPLISHMENTS

RL-0041 Accomplishments

- 100K AB Waste Site Area Remediation:
 - Provided Remaining Sites Verification Package (RSVP) for the closure of waste sites 126-KE-2, 100-K-14 & 50 and 1607-K2 to EPA for approval.
 - Completed preparation for verification sampling of waste sites 100-K-25, 27, 35, 79, 98, & 101; and 120-KE-1, 2, 3, 4, 5, 6 & 9. Sampling and data validation will take place in March.
 - Continued work on TCoPD, 100-K Additional Tons FY2016 and FY2017, for Change Proposal 307. Will submit to RL in March.
- 100K AF Waste Site Area Remediation:
 - Completed excavation of the 100-K-103 waste site and conducted in-process sampling upon completion of excavation.
 - Awarded 100K excavation contract to a new contractor. The current contractor will complete demobilization on March 10, 2017, and the new contractor will begin mobilization on March 13, 2017.
- 105-K West Fuel Storage Basin Deactivation
 - A Change Proposal for sand filter media removal design has been submitted to RL for review and an NTE is anticipated to be received in March.
 - A Change Proposal for garnet filter equipment procurement and installation, and media removal operation has been submitted to RL for review and an NTE is anticipated to be received in March.
 - CHPRC has received a letter from the RL Contracting Officer regarding found fuel piece removal and a response is being prepared.
 - Development of the Basis of Estimate (BOE) for the draft 105-K West Fuel Storage Basin deactivation and demolition long-range plan continues. When complete the project will upload the BOE, work breakdown structure dictionary, and project schedule to the CHPRC Long Range Plan (LRP) file (Tri-Party Agreement M-16-178 and Tri-Party Agreement M-16-181).
- Remaining Closure Operations (RCO):
 - Resource Conservation and Recovery Act of 1976 (RCRA) Closure – CHPRC has prepared for submittal to RL, Co-Operator Certification for 1324-N and 1324-NA Liquid Waste Disposal Facilities Supplemental Information. The submitted documents provides RL with information for consideration in clean closure of the 1324-N and 1324-NA Treatment Storage and Disposal sites.
 - CHPRC and RL have prepared a draft white paper for dangerous waste management unit's 1301-N and 1325-N and have provided the draft to Ecology for review. CHPRC is addressing Ecology and RL comments.

- Revegetation – Schedule to complete revegetation of areas 100-N-CTA and 100-N-83 on February 28, 2017. A walkdown of the sites with RL and Ecology is scheduled for March 8, 2017.
- MO226 Demolition – CHPRC and PNNL have executed an administrative interface agreement. Work planning continues.
- 618-10 Burial Ground:
 - 102 drums shipped to Perma-Fix for offsite processing.
 - Began Mass Excavation and sent 7,043 tons of soil to ERDF.
 - Completed Low Level Waste (LLW) Vertical Pipe Unit (VPU) retrieval on February 17, 2017; 80 of 80 LLW VPU retrievals complete.
 - Initiated field work on Steel VPU retrieval; 4 of 54 retrieval segments complete.
 - 33 drums retrieved; 2,199 drums have been retrieved to date.
 - Conducted an Emergency Preparedness (EP) drill with the support of Project Technical Services (PTS).
- 316-4 Waste Site:
 - Excavated 65,410 tons of soil; 103,926 tons excavated to date.
 - Shipped two empty shielded bull run boxes to the 324 Building in support of the 300-296 Soil Remediation Project.
- 600-63 Waste Site:
 - Continued planning and design activities for engineering design and remaining engineering checklist items.
- 324 Building Min Safe:
 - Issued two new procedures: A-04 REC Airlock Shielding Door Controls, and PWR-022 – Operate 324D Building Stack Vacuum and P-10 Gas Systems.
 - Finalizing new procedure A-05 Airlock/C-Cell Access.
 - Continue to develop procedure A-06 - Waste Packaging from Zone I to Zone II Confinement.
 - Continue to develop procedure W-07 – 324 Building Radioactive Waste Packaging.
 - Finalized the NCO training manual allowing for the formal training of NCOs in preparation for airlock entry and cleanout activities planned in late March/early April.
 - Rectified an abnormality noted during a Fire System engineer walkdown (Equipment Access Door EDL-102).
 - Completed corrective maintenance of the REC Airlock door solenoid valves in support of numerous planned operations in the coming months.
 - Completed conversion of WCH Engineering procedures into the CHPRC Engineering programs/procedures. This work was completed well ahead of schedule and under budget.
 - 18 PMs completed.
- 300-296 Soil Remediation Project:
 - An Integrated Project Team (IPT) Meeting for 300-296 Waste Site Remediation was completed on February 14, 2017. Agenda items for that meeting included Dose Management – Airlock and Cell Cleanout, Structural Support Strategy Update, Project Schedule Update, and the project's update to the Sub-Contracting Plan.
 - CHPRC issued the Annual Update to the 324 Building Safety Basis to RL on February 15, 2017.

- The projects hazard evaluation meeting was held on February 16, 2017, and the preliminary hazard and accident analysis is being finalized to support the soil removal addendum planned for submission in August 2017.
- A Bi-Monthly Project Update to DNFSB Field and Technical Representatives is scheduled for February 23, 2017 to introduce the Structural Support Strategy (focusing on the Jet Grouting approach) and provide an update on the project's safety documentation.
- The MSA Cultural/Ecological Review for the mockup site remains on track with its anticipated completion by March 9, 2017.
- A City of Richland Permit Application was approved for modifications required to support the mounting of Master Slave Manipulators and the floor modifications to support the installation of the Transfer Mechanism.
- CHPRC issued Requests for Proposal (RFPs) for the three main soil removal systems: Remote Excavation Arm (REA), Lights and Cameras, and Transfer Mechanism on February 16 and 17, 2017. A Bidder's Conference is scheduled for March 1, 2017, to ensure prospective bidders have a sound understanding of the performance requirements of the three systems.
- As previously reported, the contract to fabricate twelve prototype soil waste bins and two below the hook lifting devices was awarded to support mockup proof of concept.
- Construction of the floor saw test pad continues with the first concrete pour expected to be completed on February 23, 2017, to support floor saw testing by late March or early April.
- Mock-up training for airlock and cell entry for new staff has continues to progress and preparations for the first airlock entry remain on track for March.
- The contract for the fabrication of six moveable shield blocks for airlock dose management / reduction is expected to be awarded February 23, 2017.
- Fabrication of the Airlock Track and Cart system to support Airlock and Cell cleanout activities continues to progress as planned.
- PTS Support
 - Completed tie down and skirting of six trailers (two at 325 Building and four at 324 Building) in support of project ramp up. Commenced electrical installation for all trailers at the 324 site.
 - Performed scope reviews of work for the Remote Actuator Arm, Transfer System, and Shield Assembly for the 324 Building.
- Environmental Restoration Disposal Facility (ERDF):
 - Receipt of 54,566 tons by CHPRC fiscal year to date (FYTD).
 - Transported 10 special packaging authorization (SPA) shipments from the 618-10 Burial Ground Complex.
 - Reached 100,000 safely driven transportation miles since beginning of contract.

MAJOR ISSUES

Issue:

On November 29, 2016, unexpected debris / contamination was discovered at the 316-4 Waste Site while crews were performing overburden removal. Additional contamination was discovered on January 4, 2017, and January 24, 2017.

Corrective Action:

- Evaluate impacts and implement mitigating actions.
- Assess current and future impacts of this discovery to schedule and cost and incorporate those impacts in Change Proposal TCoPD.

Status:

- Investigation of extent of unforeseen contamination continues.
- Efforts are underway to quantify schedule and cost impacts.
- A baseline change request is in process to incorporate contamination impacts and is expected to be implemented in March.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

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

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

Risk Title	Unmitigated Risk Impacts	Assessment		Comments											
		Month	Trend												
RL-0041/WBS-041															
Explanation of major changes to the project monthly spotlight chart: No major changes to the monthly spotlight chart in the month of February .															
Realized Risks (Risks that are currently impacting project cost/schedule)															
RCC-316-4-09: 316-4 Discovery of Unexpected Waste	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	●	↔	<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 six feet of overburden at the 316-4 waste site. On Wednesday January 4, 2017 and Tuesday January 24, 2017, additional contamination was discovered.</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>03/31/17</td> <td>60</td> </tr> <tr> <td>Update TCoPD to align with found conditions</td> <td>TBD</td> <td>0</td> </tr> </tbody> </table> <p>Recovery Action Assessment: CHPRC has realized cost and schedule impacts, resulting from this change in conditions. The impacts cannot be quantified until the extent of conditions and corrective actions are determined. CHPRC has and continues to perform all actions that may mitigate impacts; however, CHPRC reserves its right to an equitable adjustment. CHPRC plans to capture any scope and cost changes due to this discovery in the final TCoPD for the corresponding change proposal (CP 041 304 1600).</p>	Risk recovery action(s)	Risk Date	FC Date	%	Send backfill stockpile to ERDF	11/29/16	03/31/17	60	Update TCoPD to align with found conditions	TBD	0
Risk recovery action(s)	Risk Date	FC Date	%												
Send backfill stockpile to ERDF	11/29/16	03/31/17	60												
Update TCoPD to align with found conditions		TBD	0												
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	●	↔	<p>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.</p> <table border="1"> <thead> <tr> <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>04/13/17</td> <td>0</td> </tr> <tr> <td>Perform Construction Acceptance Test at Mockup Facility</td> <td>10/31/17</td> <td>0</td> </tr> </tbody> </table> <p>Mitigation Assessment: No changes in the month of February. The Mockup is used primarily for training personnel for installation, removal, and operation of soil remediation equipment in the 324 Building. Remotely operated equipment (e.g. floor saw and REAs) could experience higher failure rates and/or performance issues from lack of thorough demonstration testing. Requests for Information resulted in numerous responses for each system which have been used to support development of the associated Request for Proposal (RFP) packages. RFPs for the Remote Excavation Arm, Transfer Mechanism, and Lights and Cameras systems are on track for release in mid-February to support the acceleration of installation and testing at the mockup for early risk identification. The start of floor saw testing has also been accelerated to start in April 2017 to provide inputs to the Floor Saw System RFP that will be issued in Q3 FY17.</p>	Mitigation action(s)	FC Date	%	Conduct Concrete Floor Saw Test (cut rate, embedment cutting) and determine P.O.P.	04/13/17	0	Perform Construction Acceptance Test at Mockup Facility	10/31/17	0		
Mitigation action(s)	FC Date	%													
Conduct Concrete Floor Saw Test (cut rate, embedment cutting) and determine P.O.P.	04/13/17	0													
Perform Construction Acceptance Test at Mockup Facility	10/31/17	0													

<p>RCC-300-296-11: Current REC cell seismic analysis is inadequate</p>	<p>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 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</p>			<p>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.</p> <table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Engage DNFSB early concerning seismic design criteria</td> <td>Ongoing</td> <td>N/A</td> </tr> </tbody> </table> <p>Mitigation Assessment: The original design of the 324 Building was 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, 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. A recurring update process, on a bi-monthly basis, was proposed and accepted by the DNFSB representatives. The first update is planned for February 23, 2017, to introduce the DNFSB Field and technical representative to the intended approach of utilizing Jet Grouting to provide structural support during excavation. An update on the progress of the design will be provided at the following bi-monthly update expected in late April.</p>	Mitigation action(s)	FC Date	%	Engage DNFSB early concerning seismic design criteria	Ongoing	N/A
Mitigation action(s)	FC Date	%								
Engage 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-618-10-07: Contamination Event at 618-10 Waste Site</p>	<p>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</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 February. 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 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</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. Risk Handling Strategy: Accept Probability: Very Low (<10%) Worst Case Impacts: \$640K, 64 days</p>			<p>Risk Trigger Metric: Risk has been triggered by discovery of more drums than planned. Indicators show that the Mass Excavation volume will be higher than planned and therefore this risk has been revised to show decreased confidence that it will not impact the project.</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: The estimate for the remediation of the 618-10 waste site included an assumed amount of additional drums still to be remediated. The project has 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. The project plans to implement a scope adjustment BCR in March that will incorporate the increased mass excavation volume and ensure accurate performance measurement.</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								
Unassigned Risks (Pending ownership of identified risks/opportunities)										
No unassigned risks identified in the month of February.										

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	11.0	9.9	9.6	(1.1)	-10.1%	0.3	3.5%

Numbers are rounded to the nearest \$0.1 million

CM Schedule Performance (-\$1.1M/-10.1%)

The current month unfavorable schedule variance is primarily due to adverse weather conditions that resulted in site closures and cleanup activities across projects in RL-0041.

CM Cost Performance (\$0.3M/3.5%)

The current month cost variance is within reporting thresholds.

Contract-to-Date

(\$M)

WBS 041/ RL-0041 Nuclear Facility D&D – River Corridor	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)
Total	392.9	398.0	359.3	5.1	1.3%	38.7	9.7	535.4	486.3	49.2

Numbers are rounded to the nearest \$0.1 million

CTD Schedule Performance (+\$5.1M/+1.3%)

The schedule variance is within reporting thresholds.

CTD Cost Performance (+\$38.7M/+9.7%)

The favorable cost variance is partially due to an unusual abundance of site closures and delays due to adverse weather conditions, resulting in less resources charging as usual. It is also 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 and there were underruns in G&A and Direct Distributable costs. This was partially offset by the cost overruns in prior years for the Utilities Project. Low waste volumes at ERDF have created efficiencies in labor and materials, which also contributes to the favorable cost variance.

Variance at Completion (+\$49.2M/+9.2%)

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

Contract Performance Report Formats are provided in Appendix A.

FUNDS vs. SPEND FORECAST (\$M)

WBS 041/RL-0041 Nuclear Facility D&D – River Corridor	FY2017		Variance
	Projected Funding	Spending Forecast	
Spending Forecast	139.4	108.0	31.4
Incremental Scope Pending Change Management	0	19.5	(19.5)
RL-0041 - Total	139.4	127.5	11.9

Numbers are rounded to the nearest \$0.1 million.

Funds/Variance Analysis:

Fiscal year (FY) 2017 projected funding for PBS-0041 is \$139.4 million. The \$19.5 million of incremental scope reflects 300-296 Project scope not yet authorized via an increase to the existing NTE (Change Order 305) or via a new change order.

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 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-016-00A	Complete all response actions for 100 Areas Except GW in M-016-00 and 100 K addressed in M-016-00C	3/31/2017		3/1/2017	Ahead of Schedule
M-016-164	Complete 100-N Interim Response Actions & Close 100-N Ancillary Facilities Area of Contamination	3/31/2017		3/1/2017	Ahead of Schedule

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.

DOE ACTIONS / DECISIONS

None currently identified.

Section G

Fast Flux Test Facility Closure (RL-0042)



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

February 2017
CHPRC-2017-02, 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

	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

- Developed request for proposal (RFP) for purchase of a new 400 area Stationary Operating Engineer trailer.
- Develop RFP for contractor installation for replacement of the P-16 pump.
- Identified additional parts required to repair T-58 and T-87 tank heaters and issued an electronic bill of material for purchase.
- Started development of work package to replace FFTF contractor that is required to resolve maintenance issues with the 481 Building motor control centers.

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)	-3.5%	(0.0)	-0.8%

Numbers are rounded to the nearest \$0.1M

CM Schedule Performance: (-\$0.0M/-3.5%)

The schedule variance is within reporting thresholds.

CM Cost Performance: (\$0.0M/-0.8%)

The cost variance is within reporting thresholds.

Contract-to-Date

(\$M)

RL-0042 FFTF Closure	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)
Total	23.0	22.9	18.8	(0.0)	-0.1%	4.2	18.2%	26.5	23.5	3.0

Numbers are rounded to the nearest \$0.1 million

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

The schedule variance is within reporting thresholds.

CTD Cost Performance (+\$4.2M/+18.2%)

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

Variance at Completion (+\$3.0M/+11.3%)

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	1.7
Incremental Scope Pending Change Management	0.0	0.0	0.0
RL-0042 – Total	3.9	2.1	1.7

Numbers are rounded to the nearest \$0.1 million

Funds Analysis

Fiscal year (FY) 2017 projected funding for PBS RL-0042 is \$3.9 million. The EAC of \$2.1 million is in line with the FY2017 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



February 2017
CHPRC-2017-02, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

CLASSIFICATION (When Filled In)

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

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

1. CONTRACTOR		2. CONTRACT		3. PROGRAM		4. REPORT PERIOD											
a. NAME CH2M HILL Plateau Remediation Company		a. NAME Plateau Remediation Contract		a. NAME Plateau Remediation Contract		a. FROM (YYYYMMDD) 2017 / 01 / 23											
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE		b. TO (YYYYMMDD) 2017 / 02 / 19											
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 5,582,630	c. ESTIMATED COST OF AUTHORIZED UNPRICED WORK 155,772	d. TARGET PROFIT/FEE 241,315	e. TARGET PRICE 5,823,945	f. ESTIMATED PRICE 5,823,601	g. CONTRACT CEILING 5,823,945	h. ESTIMATED CONTRACT CEILING 5,823,601										
6. ESTIMATED COST AT COMPLETION				7. AUTHORIZED CONTRACTOR REPRESENTATIVE													
MANAGEMENT ESTIMATE AT COMPLETION (1)		CONTRACT BUDGET BASE (2)		VARIANCE (3)		a. NAME (Last, First, Middle Initial) Dickerson, Kala K											
a. BEST CASE 5,515,696						b. TITLE Prime Contract Compliance Manager											
b. WORST CASE 5,620,508						c. SIGNATURE											
c. MOST LIKELY 5,582,286		5,738,402		156,116		d. DATE SIGNED (YYYYMMDD)											
8. PERFORMANCE DATA																	
Control Account.PBS	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-0011 Nuclear Mat Stab & Disp PFP	924	4,947	9,941	4,024	-4,994	978,786	927,734	988,845	-51,052	-61,111	0	0	0	980,328	1,054,294	-73,966	
RL-0012 SNF Stabilization & Disp	6,609	6,130	6,257	-479	-127	653,340	656,659	626,135	3,319	30,524	0	0	0	740,046	710,605	29,441	
RL-0013 Solid Waste Stab & Disp	9,363	8,674	7,366	-689	1,309	1,129,348	1,129,066	1,056,023	-282	73,043	0	0	0	1,344,419	1,289,625	54,794	
RL-0030 Soil & Water Rem-Grndwtr/Vadose	12,689	9,370	9,301	-3,319	69	1,336,186	1,315,794	1,282,019	-20,392	33,775	0	0	0	1,565,252	1,494,933	70,319	
RL-0040 Nuc Fac D&D - Remainder Hanfrd	1,199	1,190	1,998	-9	-808	432,299	427,864	398,311	-4,435	29,553	0	0	0	473,959	450,664	23,295	
RL-0041 Nuc Fac D&D - RC Closure Proj	11,027	9,915	9,568	-1,113	346	392,919	397,978	359,270	5,059	38,708	0	0	0	535,442	486,254	49,188	
RL-0042 Nuc Fac D&D - FTF Proj	177	170	172	-6	-1	22,957	22,931	18,757	-26	4,174	0	0	0	26,455	23,454	3,001	
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														5,868	5,868	0	
e. SUBTOTAL	41,988	40,397	44,603	-1,591	-4,206	4,945,835	4,878,027	4,729,360	-67,808	148,667	0	0	0	5,671,768	5,515,696	156,072	
f. MANAGEMENT RESERVE														66,589			
g. TOTAL	41,988	40,397	44,603	-1,591	-4,206	4,945,835	4,878,027	4,729,360	-67,808	148,667	0	0	0	5,738,358			
9. RECONCILIATION TO CONTRACT BUDGET BASELINE																	
a. VARIANCE ADJUSTMENT																	
b. TOTAL CONTRACT VARIANCE															5,738,358	5,515,696	222,661

* 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 \$

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 / 01 / 23	
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE		b. TO (YYYYMMDD) 2017 / 02 / 19	
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	VARIANCE		BUDGETED COST		ACTUAL COST WORK PERFORMED	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	929	886	635	-44	251	68,621	68,299	63,240	-322	5,059	0	0	0	82,893	80,696	2,197		
35 - Business Services	0	0	0	0	0	472,524	472,524	448,542	0	23,982	0	0	0	472,524	448,542	23,982		
36 - Prime Contract & Proj Integr	148	148	130	0	18	5,767	5,767	3,192	0	2,575	0	0	0	8,414	5,682	2,733		
3B - PFP Closure Project	924	4,947	9,932	4,024	-4,985	891,527	840,475	909,425	-51,052	-68,950	0	0	0	893,069	974,786	-81,716		
3C - Waste & Fuels Management Project	9,339	8,650	7,334	-689	1,316	1,020,910	1,020,628	947,756	-282	72,873	0	0	0	1,235,573	1,180,898	54,675		
3D - Soil & Groundwater Remediation	11,715	8,440	8,617	-3,275	-177	1,167,741	1,147,671	1,112,763	-20,070	34,907	0	0	0	1,381,624	1,307,676	73,948		
3G - K Basin Oper & Plateau Remediation Project	10,102	8,182	9,405	-1,920	-1,223	1,266,662	1,273,489	1,197,909	6,827	75,580	0	0	0	1,463,981	1,388,276	75,704		
3H - 618-10 and ERDF	6,029	5,354	5,316	-675	39	33,826	31,589	29,844	-2,238	1,745	0	0	0	90,603	88,684	1,919		
3J - Building 324 Disposition Project	2,802	3,789	3,234	988	555	18,257	17,586	16,690	-672	896	0	0	0	37,219	34,589	2,630		
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														5,868	5,868	0		
e. SUBTOTAL (Performance Measurement Baseline)	41,988	40,397	44,603	-1,591	-4,206	4,945,835	4,878,027	4,729,360	-67,808	148,667	0	0	0	5,671,768	5,515,696	156,072		
f. MANAGEMENT RESERVE														66,589				
g. TOTAL	41,988	40,397	44,603	-1,591	-4,206	4,945,835	4,878,027	4,729,360	-67,808	148,667	0	0	0	5,738,358				

* 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: 2017/01/23 b. TO: 2017/02/19																		
5. CONTRACT DATA																														
a. ORIGINAL NEGOTIATED COST 4,312,366				b. NEGOTIATED CONTRACT CHANGE \$1,270,263		c. CURRENT NEGOTIATED COST (A + B) \$5,582,630		d. ESTIMATED COST AUTH UNPRICED WORK \$155,772		e. CONTRACT BUDGET BASE (C + D) \$5,738,402		f. TOTAL ALLOCATED BUDGET \$5,738,357		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																														
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 Mar-17 (4)	+2 Apr-17 (5)	+3 May-17 (6)	+4 Jun-17 (7)	+5 Jul-17 (8)	+6 Aug-17 (9)	FY09-13 (10)	FY14 (11)	FY15 (12)	FY16 (13)	FY17 (14)	FY18 (15)																
a. PM BASELINE (BEGIN OF PERIOD)														4,903,847	40,444	45,618	39,066	37,149	42,308	30,728	31,062	3,391,477	391,653	471,323	504,826	456,588	441,448	8,463	5,665,776	
b. BASELINE CHANGES AUTH DURING REPORT PERIOD																														
BCR-011C-17-007R0, RL-011 Correct Schedule Constraint on Milestone - PFP CAP 1																												0		
BCR-013-17-005R0, W-135 Additional Schedule Details and Deliverables (Non-CAP)																													0	
BCR-013-17-009R0, W-130 WESF Ventilation and Stabilization Project, MR Draw for Contamination Events																													3,279	
BCR-013C-17-006R0, W-135 Additional Schedule Details and Deliverables (CAP)																													0	
BCRA-013-17-010R0, RL-013 EVM Coding Correction																														0
BCR-030-17-010R0, Align 200-UP-1 Well Drilling Campaign to Execution Plan																														0
BCRA-030-17-009R0, Revise RL-0030 Risk ID Activity Coding																														0
BCR-040-17-007R0, Defer Outer Area Waste Site Remediation Planning Package																														0
BCR-040-17-008R0, Incorporate CO #321 RCRA Part B Permit Modification																														50
BCR-041-17-009R0, Incorporate CO #305, Mockup Equipment Purchases																														5,281
BCRA-041-17-005R0, Alignment of Basis of Estimate Documentation																														0
BCR-PRC-17-015R0, Definitization of CO #289, Transfer of RCCC work scope																														(24)
BCRA-PRC-17-017R0, HPIC Updates February 2017																														0
BCR-PRC-17-016R0, Undistributed Budget Adjustments February 2017																														(2,595)
c. PM BASELINE (END OF PERIOD)														4,945,835	41,988	48,530	40,870	37,600	42,283	30,818	30,873	3,391,477	391,653	471,323	504,826	462,816	443,806	5,868	5,671,768	
7. MANAGEMENT RESERVE																														66,589
8. TOTAL																														5,738,357

* 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.

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	
a. NAME CH2M HILL Plateau Remediation Company			a. NAME Plateau Remediation Contract				a. NAME Plateau Remediation Contract			a. FROM (YYYYMMDD) 2017 / 01 / 23	
b. LOCATION (Address and ZIP Code) Richland, WA			b. NUMBER RL14788				b. PHASE			b. TO (YYYYMMDD) 2017 / 02 / 19	
			c. TYPE CPAF		d. SHARE RATIO		c. EVMS ACCEPTANCE NO <input type="checkbox"/> X 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)						ENTER SPECIFIED PERIODS				AT COMPLETION (15)	
			SIX MONTH FORECAST BY MONTH (Enter names of months)						REMAIN FY17 (10)	FY18 (11)	FY19-LC (12)	ATCOMPLETE (13)		
			+1 MAR 2017 (4)	+2 APR 2017 (5)	+3 MAY 2017 (6)	+4 JUN 2017 (7)	+5 JULY 2017 (8)	+6 AUG 2017 (9)						
300 - Office of the President	5	679	6	6	6	6	6	6	6	6	63	0	0	784
303 - Internal Audit	3	437	5	5	5	5	5	5	5	5	60	0	0	532
304 - General Counsel	4	412	5	5	5	5	5	5	5	5	60	0	0	506
31 - Communications	9	957	9	9	9	9	9	9	9	8	108	0	0	1126
32 - Safety Health Security & Quality	50	6780	65	67	67	67	67	67	67	64	785	0	0	8028
34 - Env Program & Strategic Plng	35	4513	48	53	50	49	48	48	47	46	603	0	0	5457
35 - Business Services	58	7217	73	75	75	75	75	75	75	71	772	0	0	8506
36 - Prime Contract & Proj Integr	55	4566	65	67	67	67	67	67	67	63	701	0	0	5732
38 - Project Technical Services	30	5339	39	41	41	41	41	41	40	38	426	0	0	6044
3B - PFP Closure Project	329	47048	375	380	327	206	165	172	109	131	0	0	0	48913
3C - Waste & Fuels Management Project	296	47223	306	323	306	308	311	299	274	3788	694	0	0	53832
3D - Soil & Groundwater Remediation	268	34011	271	283	282	276	268	269	260	3456	785	0	0	40160
3G - K Basin Oper & Plateau Remediation Project	285	44692	355	380	357	343	330	324	312	3370	140	0	0	50605
3H - 618-10 and ERDF	53	314	174	172	160	160	163	146	128	288	0	0	0	1704
3J - Building 324 Disposition Project	101	686	92	54	51	53	47	41	37	421	0	0	0	1483
g. TOTAL DIRECT	1580	204874	1887	1919	1807	1669	1605	1572	1425	15034	1619	0	0	233411

* 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.

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

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

CHPRC continues to track completion of contract scope within budget and is currently projecting a Variance at Completion of \$156.1 million with \$66.6 million of Management Reserve (MR) for a total positive variance of \$222.7 million. For February, the project was 3.8 percent behind schedule and 10.4 percent over planned cost. Contract to Date (CTD), the project was 1.4 percent behind schedule and 3.0 percent under planned cost.

There were five BCRs in the period that impacted the PMB; BCR-013-17-0090R0 – *W-130 WESF Ventilation and Stabilization Project, MR Draw for Contamination Events*, BCR-040-17-008R0 – *Incorporate CO #321 RCRA Part B Permit Modification*, BCR-041-17-009R0 – *Incorporate CO #305, Mockup Equipment Purchases*, BCR-PRC-17-015R0 – *Definitization of CO #289, Transfer of RCCC work scope*, BCR-PRC-17-016R0 – *Undistributed Budget Adjustments February 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 + \$156.1 million, +2.8% and is within reporting thresholds.

Format 1 and 3 Contract Data:

Contract Price Adjustments

CPS - In Process		
	Total Authorized Unpriced Work	\$155,771
Approved Adjustments to Contract Price (not reflected in B.4-1 Table)		
	Total Negotiated Cost Changes	-
Grand Total Adjustments		\$155,771

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

Undistributed Budget Activity

BCR Number	Title	PBS	Fiscal Year	UB
BCR-PRC-17-016R0	<i>Undistributed Budget Adjustments February 2017</i>	RL-0013 RL-0030 RL-0040 RL-0041	2017 - 2018	\$-2,595K

The Undistributed Budget decreased by \$2,595K.

Management Reserve Activity

BCR Number	Title	PBS	Fiscal Year	MR
BCR-013-17-009R0	<i>W-130 WESF Ventilation and Stabilization Project, MR Draw for Contamination Events</i>	RL-0013	2017 - 2018	\$-3,279K
BCR-PRC-17-015R0	<i>Definitization of CO #289, Transfer of RCCC work scope</i>	000's RL-0011 RL-0012 RL-0013 RL-0040 RL-0041	2017 - 2018	\$1,047K

Overall, there was a decrease in Management Reserve (MR) of \$2,232K during February.

Fee Activity

BCR Number	Title	PBS	Fiscal Year	Fee
BCR-PRC-17-015R0	<i>Definitization of CO #289, Transfer of RCCC work scope</i>	000's RL-0011 RL-0012 RL-0013 RL-0040 RL-0041	2017 - 2018	\$85K

Overall, there was an increase to Fee of \$85K during February.

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

Best/Worst/Most Likely Estimate: The Best EAC is the EAC reported this month, which assumes all efficiencies gained contract-to-date will remain at completion with no use of management reserve. The most likely EAC is the EAC reported this month plus the to-go (available) management reserve, which assumes all efficiencies gained contract-to-date will remain at completion but all available management reserve is used (e.g., all identified risks realized). The worst EAC is the ACWP plus the ECWR or BCWR if greater plus the to-go (available) management reserve, which assumes all efficiencies gained contract-to-date will be eroded at completion and all available management reserve is used (e.g., all identified risks realized), plus the scope identified in the Trend Log that is not in the EAC. The Best/Worst and Most Likely EAC values are documented in the Format 1 Report.

Prepared by:
Project Control Staff

Date:
3/21/2017

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

February 2017
CHPRC-2017-02, 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 CH2M HILL Plateau Remediation Company (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	0%
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 web site.	10/9/17*	0%
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	40%
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	40%

*This O&T is a continuation of a FY16 O&T. They are starting FY17 with 45% complete.

TARGET ZERO PERFORMANCE

	Current Month	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	0	N/A
Total Recordable Injuries	0	1	N/A
First Aid Cases	0	6	N/A
Near-Misses	0	0	N/A

KEY ACCOMPLISHMENTS

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

- There were no first aid cases during the month of February in the functional groups.
 - o Occupational Safety and Industrial Hygiene (OS&IH) accomplishments:
 - Chemical Management Program procedure was revised to incorporate identified efficiencies.
 - Continued active participation on the Hanford Site Fall Protection Program Committee that is revising the program to incorporate recent Occupational Safety and Health Administration (OSHA) regulatory changes to 1910 Subpart D Walking/Working Surfaces.
 - Convened CHPRC Vehicle Safety Board to discuss recent minor incidents and develop recommended corrective actions.
 - A Special Safety Bulletin was issued to communicate potential hazards associated with the use of snow shovels/brooms.
 - Program Technical Authority review and assistance for the development of the REDOX Facility Fall Protection Work Permit to support roof work activities.
 - o Radiological Control accomplishments:
 - Continued to provide radiological work planning assistance to the Waste Encapsulation and Storage Facility Project.
 - Completed reviews and approved Technical Evaluations (TE) for:
 - o Plutonium Uranium Extraction (PUREX) surveillance and maintenance.
 - o Plutonium Finishing Plant (PFP) neutron radiation surveys.
 - o Radiological survey requirements for vegetation at Central Plateau Surveillance and Maintenance.
 - Provided support to site-wide radiological control initiative to upgrade the Hanford radiological area entry control system.
 - Provided Radiological Work Planning refresher training.
 - o Nuclear Operations Support & Compliance accomplishments:
 - Correspondence sent to Department of Energy Richland Operations Office (RL):
 - Letter, CHPRC-1605889, dated February 15, 2017, *Transmittal of the Annual Update to the 324 Building Basis for Interim Operation, CHPRC-02979, Revision 2, the 324 Building Technical Safety Requirements, CHPRC-02980, Revision 1, and the Addendum*

- to the 324 Building Basis for Interim Operation for Stabilization, CHPRC-02983, Revision 1.*
- Letter, CHPRC-1700081A R1, dated February 28, 2017, *CHPRC Nuclear Safety Documentation Corrective Action Plan Proposal.*
- Correspondence received from RL:
- Letter, 17-NSD-0007_RL, dated February 9, 2017, *Transmittal of the 2016 Annual Update to HNF-14804, Revision 7, B Plant Documented Safety Analysis (DSA), the Unreviewed Safety Question Determination (USQD) Summary, and CP 41843, Revision 1, B-Plant Fire Hazards Analysis.*
 - Email, CHPRC-1605819.1A R1, dated February 9, 2017, *CHPRC-1605819.1A R1 – CO 323 Management of the Hanford Sitewide Transportation Safety Document Change Proposal Delivery Date.*
- Other:
- Completed SHS&Q-2017-16480, *Worksite Assessment Report for PSSD and OTRS Implementation.*
 - Transitioned 234-5Z into its DSA Pre-Demolition phase on February 2, 2017.
 - Completed the PFP annual Technical Safety Requirement (TSR) surveillance requirement Worksite Assessment of Hot Work Performance and Flammable Gas Use.
- o Contractor Assurance Regulatory Reporting (CARR) accomplishments:
- 136 Condition Reports (CRs) were screened:
 - No significant issues identified.
 - Five adverse issues identified.
 - 73 Track until Fixed issues identified.
 - 26 Trend Only items identified.
 - 31 Opportunity for Improvement (OFI) items identified.
 - One Screened Out.
 - 212 CRs administratively closed.
 - 310 CRs actions administratively closed.
 - Provided full time support to PFP Issues Management and Occurrence Reporting activities.
 - Transmitted four new Occurrence Reporting and Processing System (ORPS) reports associated with PFP: EM-RL--CPRC-PFP-2017-0003, *Plutonium Reclamation Facility Demolition CAM Alarm / Contamination Event*; EM-RL--CPRC-PFP-2017-0004, *Discovery of Unprotected 480 Volt Electrical Source*; and EM-RL--CPRC-PFP-2017-0005, *Personnel Exposed to Uncontrolled 120 volt hazardous Energy Source*; EM-RL--CPRC-PFP-2017-0006, *Alpha Contamination Detected on MSA MMK PAPR Blower Unit.*
 - Completed the Apparent Cause Evaluation / transmitted one Final ORPS report associated with PFP: EM-RL--CPRC-PFP-2017-0004, *PFP Worker Experienced an Electrical Shock While Plugging a Battery Charger into a Power Source.*
 - Provided support and coordination for the Bi-Monthly conference call with the Defense Nuclear Facilities Safety Board (DNFSB) to discuss the PFP demolition planning/status.
 - Provided support for the Monthly Sludge Treatment Project (STP) Status conference call and support for the Bi-Monthly DNFSB Resident Inspector Meeting.
 - Provided support for the monthly 300-296 Project status conference call with the DNFSB.
 - Provided support for the upcoming DNFSB review of aging electrical infrastructure at Hanford.
 - 94 documents were provided in response to DNFSB requests for information.
 - Provided support to the Site DNFSB Resident Inspector requests.
 - Published the January 2017 Contractor Assurance System Summary Report.

- Two external Just In Time articles were submitted to OPEXShare February 2017: 2017-RL-HNF-0004, *Switchgear Station Potential Exposures to Hazardous Energy* and SSB_2-16-17_Rev_1, *Injury Prevention - Common Tools, Uncommon Injuries*.
- o Performance Oversight, Assessment, and Quality Assurance accomplishments:
 - Provided assistance to the West Valley project to evaluate concerns with Safety Culture indications of concern.
 - Participated in development of a Contractor Assurance System Maturity Model as a best practice to be accepted by the Energy Facility Contractors Group (EFCOG) Board and endorsed by RL.
 - Provided presentation to the PFP Corrective Action Review Board on the cause analysis/evaluation of lessons learned from PFP readiness assessment – evaluation and corrective action plan was accepted and will be presented to Executive Safety Review Board (ESRB) due to project wide implications.
 - Completed and issued plan for the 10 CFR 835, Subpart M, “Sealed Radioactive Source Control,” surveillance activity scheduled for February through April.
 - Provided specific mentoring and feedback to assessors and responsible managers that conducted management assessments. Feedback was provided to help improve the quality, including clarity and readability of future reports. Provided assessment mentoring to KBO&PR, PC&PI, Project Technical Services (PTS), and Soil & Groundwater organizations.
 - Facilitated assessment planning workshop specific to KBO&PR and PTS organizations.
 - Completed status of Fiscal Year 2017 first quarter Performance, Objectives, Measures, and Commitments.
 - Performed a surveillance at PFP to determine the effectiveness of two corrective actions taken to address a RL issue regarding work package approval and implementation of the Hazard Review Board process.
 - Reviewed quality assurance engineer qualification card with training for improvement implementation.
 - Development of Independent Assessment Plan for SHSQ-2017-NSPEB-13328, *Nuclear Safety and Performance Evaluation Board (NSPEB) Review of Corrective Actions Taken for SHSQ-2015-NSPEB-13324* (Review of SGRP).
 - Continued work on corrective actions of CRs initiated by A-16-ESQ-CHPRC-003, *DOE Assessment of CH2M Hill Plateau Remediation Company Training and Qualification of Quality Assurance/Quality Control Personnel*.
 - Attended Audit Entrance Meeting and provided support for RL Audit AU-17-ESQ-CHPRC-004, *Procurement Document Control and Instructions, Procedures, and Drawings*.
 - Surveillance SHS&Q-2017-SURV-16456, PRC-PRO-QA-599, *Quality Assurance Program*, NQA-1, Requirement 15 and Requirement 16, completed.
 - Approved numerous Level II and Level III training plans and certifications.
 - Reviewed/approved Inspector training materials in support of the Level II and Level III quality inspector training/certification program.
- o Fire Protection accomplishments:
 - Fire Protection has been providing support for PFP, including the following:
 - TSR inspections.
 - Deactivation Analyses.
 - Acceptance Test Procedures for post fire system modifications.
 - Permit renewals and compliance verifications.
 - Coordination with Hanford Fire Marshall Office.
 - Work week and weekend support.
 - FHA planned modifications to support the next steps in demolition.

- Electrical isolation and heating issues.
- Fire Protection Engineers (FPEs) are working with the REDOX Risk Reduction project to provide information for accessing areas for planned work based on the Life Safety Code.
- Comment resolution for 105KW FHA was nearing completion towards the end of February.
- The following TSR activities were completed:
 - Solid Waste Operations Complex (SWOC):
 - 2X-16-07643, CWC 3 Month Combustible Surveillance
 - PFP:
 - SR 5.18.4.2 – Monthly inspection of facility and exterior for compliance with fire protection combustible controls.
 - SR 5.19.4.3 – Monthly inspection of facility for energized power cords, energized battery chargers and spontaneous ignition source material.
 - SAC 5.20.2 – Bi-weekly inspection of front side ventilation zone 1 areas – performed by the facility Fire Safety Officer.
- Facility Hazards Analysis (FHA):
 - SWOC FHA Breakout has been canceled.
 - PUREX FHA was at final signatures at the end of February.
 - B Plant FHA post comment review/corrections is being performed by the Hanford Fire Marshall Office.
 - U-Plant FHA is being developed.
 - Building 402 FHA is nearing completion.
 - 324 Building FHA is being developed.
 - The 618-10 FHA needs to be modified based on the Due Diligence Report.
 - The Integrated Disposal Facility (IDF) FHA had been formatted and initial data collection/preparation has begun.
- The Calendar Year 2017 Facility Fire Protection Assessments schedule was finalized.
- 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 3 implementation continues.
 - **Action:** Beryllium facility assessments and characterization 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, and first aid injuries to determine cause, prevention, reduction, to prevent recurrence.
 - **Action:** CHPRC completed the root cause analysis for the recent Waste and Fuels -Mission Support Alliance (MSA) teamster vehicle incident and was presented to the Executive Safety Review Board (ESRB). Corrective actions will be reviewed at a March ESRB.
 - **Issue:** PFP support.
 - **Status:** Supporting PFP with dedicated OS&IH personnel and Radiological Control personnel, from the SHS&Q Central group for oversight of high-risk work activities.
 - **Action:** Providing senior supervisory watch for Plutonium Reclamation Facility (PRF) demolition activities based upon specific hazard activities in coordination with PFP management. An additional RadCon observer was assigned to PFP to help monitor personal protective equipment, dosimetry, etc.
 - **Issue:** Fire Protection program improvements.

- o **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.
- o **Action:** Continued interface with MSA regarding CHPRC fire system maintenance back log items.

Environmental Program and Strategic Planning (EP&SP)

Environmental Protection

- **Compliance Status**

- o CHPRC filed a Notice of Appeal to the Pollution Control Hearing Board (PCHB) of the State of Washington in response to a Resource Conservation and Recovery Act (RCRA) Notice of Penalty issued by State of Washington, Department of Ecology (Ecology) for alleged violations of waste designation and record keeping requirements at T Plant. Legal filings and consultations with outside counsel are continuing with a PCHB hearing anticipated in May 2017.
- o CHPRC transitioned into the lead for project management and delivery for reissuance of the Hanford Facility RCRA Permit (Revision 9) in accordance with RL direction received in December 2016. A detailed schedule and issue management log are being developed to support project delivery.
- o CHPRC has developing a position paper and strategy for resolution of issues with WAC-173-303-200(1)(d) major risk labeling requirements identified by Ecology during recent inspections. A meeting with the Ecology inspector is planned in March to begin work towards resolution of the issue.

Environmental Compliance & Quality Assurance (EC&QA)

- **Assessment Program**

- o A surveillance assessing environmental calculations in management oversight programs (MOP)s and Work Site Assessments was conducted by EC&QA from November 2, 2016 through January 31, 2017. The surveillance report, issued on February 13, 2017, identified four findings and one OFI.
- o A surveillance assessing pollution prevention and waste minimization activities at CHPRC was conducted by EC&QA from January 31 through February 03, 2017. The surveillance report, issued on February 16, 2017, identified no findings or OFIs.

Business Services

- **Acquisition Planning:**

- o Completed five new Acquisition Planning Notices including 300 Area Chemicals, Well Drilling, and 300-296 equipment.
- o Met with CHPRC Engineering Services to determine a path forward for implementing a revised site-wide electrical safety standard that will be released by CHPRC later this year.
- o Met with CHPRC Industrial Safety regarding the process for pre-qualification of subcontractors that perform field work. The pre-qualification process is being reviewed to determine if enhancements are needed to ensure safety reviews are incorporated into the CHPRC procurement process.
- o Participated in a RL Quality Assurance review of procurement process. Provided examples of acquisition planning documents.

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

- o Planning for the FY2017 Physical Property Inventory began in February. Estimated start date is March 6, 2017.

- o Move planning/execution for RL and CHPRC between Federal Building and 2420 Stevens continues. Portions of President's suite, Supply Chain, and General Council were among the groups to move in February. Balance of President Suite, Communications, Council, and select Environmental and Prime Contracts and Project Integration staff are scheduled to move in March 2017. Balance of move schedule underway, as well as facility upgrades within the Federal Building.
- o Efforts to remove and replace Mobile Office (MO029) at Waste Encapsulation and Storage Facility (WESF) continue. Target completion date has been updated to March 8, 2017. Schedule slip due to mobile office manufacturer's production schedule and required hazardous material removal.
- o Support for new shower trailer to support Soil and Groundwater Remediation Project (S&GRP) Drilling and Sampling Operations at Waste Sampling and Characterization Facility continues. Currently working with PTS on the design and acquisition phase of the Project.
- o A new single-wide office trailer is being planned in the 400 Area in support of potable water operations. Working with MSA on placement permits. Cultural Review was completed in February. Trailer electrical service will be installed on-grade in rigid conduit, no trenching required.
- o A single-wide restroom trailer is being planned as addition to the 300 Area in support of the 324 Building project. In February, all permits were approved, civil and electrical engineering completed. Currently moving forward on rental agreement.
- o Work continued in February to restore potable water connections to MO061 and MO245 in the 300 Area. Plant Forces to perform work, currently discussing options using regulated guzzler truck vs backhoe/hand dig. Portable toilets have been placed as temporary solution.
- **Finance:**
 - o February month end completed with no cost suspensions.
 - o Continued work on the corrective action plan activities for resolution of RL Construction Work in Process balances.
- **Human Resources (HR):**
 - o Kicked off annual Rating and Ranking of non-represented employees.
 - o Placement analysis in work for PFP and 618-10 end of assignment workscope over the next several months.
- **Labor Relations (LR):**
 - o Grievances PRC-015-051 and PRC-016-014 continue dealing with purchasing items (i.e. pipe spools) from offsite vendors have been requested to proceed to arbitration, although the union put a hold on selecting the panel until they can further review.
 - o Arbitration scheduled for October 11, 2016, was postponed by mutual agreement in an effort to allow parties additional time to reach settlement in regards to Grievance PRC-015-011 in which the union is claiming miss-assignment of work in regard to respirator maintenance. Parties are in discussions to try and reach a settlement.
 - o A total of four (4) grievances were requested by the Union to proceed to arbitration. The Union is grieving discipline on one (PRC-16-036) and termination of another employee (PRC-016-044, 049 & 050). Panel selections nor arbitration dates have been set for any of these at this time.
- **Procurement:**
 - o Awarded/amended 89 contracts with a total value of \$10.8 million. Additionally, awarded 215 new material Purchase Orders (PO) valued at \$670,568 to support ongoing project objectives.
 - o At the end of the first 101 months of the CHPRC project, procurement volume has been significant; \$2.49 billion in contract activity has been recorded with approximately 54.45 percent,

or \$1.35 billion, in awards to small businesses. This includes 7,642 contract releases, 22,391 POs, and 267,017 P-Card transactions.

- o Contract 54134-7, was awarded to Columbia Energy & Environmental Services, Inc. on February 13, 2017. This is a firm fixed price contract to procure/build a large Department of Transportation (DOT) Type A container. This award is valued at \$215,174.62.
- o Contract 48767-6 was awarded to Cascade Drilling on February 2, 2017. This is a firm fixed price contract for the installation of four injection wells in the 200-ZP-1 OU. This award is valued at \$1,754,540.
- o Contract 56189-12 was awarded to Holt Service, Inc. on February 16, 2017. This is a firm fixed price contract for the drilling of four characterization boreholes in the 200-DV-1, FY2017. This award is valued at \$892,500.
- o Contract 61937-5 was issued to Permit Surveying, Inc. on February 14, 2017. This is a firm fixed price contract for “Civil Survey 618-10 Burial Ground”. This award is valued at \$60,000.

Prime Contract and Project Integration (PC&PI)

- o A Minor Change to PRC-MP-MS-19361, *CH2M Hill Plateau Remediation Company Project Execution Plan* was initiated. The changes reflect the CHPRC assumption of the River Corridor Cleanup Contract work scope and the corresponding CHPRC organization structure. The draft document has been shared with RL, as RL approval of this document is contractually required.
- o Modification to PRC-PRO-EC-53823, *Alternative Dispute Resolution Process*, was issued on February 28, 2017.
- o A Minor Change to PRC-CHRT-PM-40249, *Project Review Board Charter*, and PRC-PRO-EC-53823, *Alternative Dispute Resolution Process*, were initiated in response to a review of the documents by the Information Management organization. The Information Management Observations are documented in CR-2017-0265 and CR-2017-0266.
- **Prime Contract Compliance (PCC):**
 - o In February, PCC received and processed five contract modifications (556, 566, 570, 573, and 575) from RL.
 - o The Correspondence Review Team received and determined the distribution for 63 incoming letters/documents. The PCC Manager reviewed 27 outgoing correspondence packages.
 - o Issued CHPRC-1700488, *Notification of Potential Impacts to Performance Measure PM-30-7 “Prepare and Submit 100-B/C Proposed Plan Revision 0”*.
 - o Issued CHPRC-1700615, *Notification of Differing Site Condition at the Plutonium Plant*.

Integrated Services

- **Estimating & Program Support**
 - o Two Change Proposals/Request for Equitable Adjustments (CPs/REAs) were submitted to RL in February 2017:
 - CP 041 319 1640 - *Garnet Filter Media Removal*, submitted on February 13, 2017.
 - CP 040 321 1645 - *Resource Conservation and Recovery Act (RCRA) Revision 9 Management and Coordination*, submitted on February 22, 2017.
 - o Thirteen CPs/REAs have been submitted FY2017 to-date, twelve on or ahead of schedule with one CP/REA submitted late.
 - o Continued development of seven CPs/REAs:
 - CP 013 308 1629 - *Management of the Cesium and Strontium Capsules Capital Asset Project Deductive Proposal*.
 - CP 030 318 1618 - *200-WA-1 and 200-BC-1 Operable Units Characterization*.

- CP 013 322 1639 - *Integrated Disposal Facility Revised Operational Requirements.*
- CP 000 323 1644 - *Hanford Site Wide Transportation Safety Document.*
- CP 012 PRC 1643 - *Sludge Retrieval Project Acceleration.*
- REA 000 PRC 1646 - *Hanford Site Safety - Confined Space Gap Training.*
- RFP 030 PRC 1649 - *200-SW-2 Operable Unit Field Work Characterization Fiscal Year 2017.*
- o Supported six Truthful Cost or Pricing Data updates for CPs/REAs:
 - CP 030 294 1570 - *100-KR-4 Remedial Investigation/Feasibility Study Decisional Rewrite.*
 - CP 041 305 1616 - *300-296 Waste Site Design Change, Initiate Procurements, Initiate Testing, and Initiate Removal of Debris.*
 - CP 041 307 1621 – *100-K Additional Tons FY2016 and FY2017.*
 - CP 040 311 1625 - *Emergency Response for Facility/Waste Site Environmental, Safety, Health, and Quality (ESH&Q) or Remediation, submitted February 16, 2017.*
 - CP 030 316 1637 - *Groundwater Engineering Reports and Groundwater Monitoring Plans for Dangerous Waste Management Units (DWMU), submitted February 22, 2017.*
 - CP 013 PRC 1635 - *Upgrades to Site Transuranic Waste Program Required to Meet the New Waste Isolation Pilot Plant Waste Acceptance Criteria Revision 8.*
- o Supported RL's requests for information (RFIs) for three CPs/REAs:
 - CP 041 306 1615 - *Surveillance & Maintenance Sites River Corridor Closure Contract (RCCC) Transition Add-Ons, submitted response February 23, 2017.*
 - CP 041 320 1642 - *Sand Filter Media Removal Design, submitted response February 21, 2017.*
 - CP 013 325 1626 - *Contractor Requirements Document (CRD) 474.2 Change 3, Nuclear Material Control and Accountability.*
- **Interface Management:**
 - o Interfaces (Technical, Administrative and Regulatory):
 - Hosted meeting with CHPRC Projects Personnel and MSA regarding proposed Restricted Roads for 2017.
 - Continue to support communications between Washington River Protection Solutions (WRPS) at 222-S and CHPRC at REDOX. Central Plateau Projects personnel briefed WRPS/WAI personnel on upcoming planned work at REDOX in response to 222-S staff inquiries related to the public comment notice for the REDOX Engineering Evaluation/Cost Analysis (EE/CA).
 - Provided the MSA project team with facility points of contact for the MSA L-761 Radio Fire Alarm Reporter (RFAR) project planning and facility access. Also, awaiting schedule and scope details from the MSA project team to determine facility support impacts.
 - Continued to facilitate communications between PFP and the MSA warehouse. Issues range from misplaced orders, to Acquisition Verification Service priorities. Interface Management will continue to maintain communications and track issues upon request from the project.
 - Interface Management is now acting as the central distribution point for the Fire Extinguisher Except Report to the CHPRC management team. The report is meant to provide visibility to facility management on Fire Extinguisher Exception findings during field inspections.
 - Facilitate preparation and issuance of an Inter-Contractor Work Order for WRPS Effluent Treatment Facility to provide overtime support for receipt of abnormal volumes of burial ground leachate. Leachate volumes are high due to the large amount of winter precipitation experienced on the site.

- o Annual Forecast of Services:
 - Continued flow of communication/requests for MSA resources, as required by emerging project needs.
- o Inter-Contractor Issue Resolution:
 - Continued communications between MSA Biological Controls and CHPRC representatives regarding tumbleweed and tree line removal southwest of CWC. Drafted an intercontractor work order; resolution pending agreement by all parties on the roles and responsibilities related to disposition of the tumbleweeds and the tree line. Awaiting final estimate from MSA so that work order can be issued.
 - Continued communications between MSA Infrastructure Projects (water/sewer upgrades) and CHPRC Surveillance & Maintenance and Remedy Selection Project point of contacts to communicate concerns related to new infrastructure crossing over, under, through Waste Information Data System (WIDS) sites slated for near term remediation. CHPRC Interface Management will continue facilitate discussions and monitor information exchange.
 - Engaged in communications with MSA management regarding the unilateral change by the MSA Fire Systems Maintenance (FSM) program to remove CHPRC facility from operations acceptance on RFAR and Hydrant Maintenance work packages. CHPRC facility management is not in concurrence with this change. CHPRC work control representative have presented a process change to the MSA FSM management that would address the operational acceptance issue. Issue still be addressed at the field level.
 - Facilitated communications and supported activities related to MSA’s restoration of sewer services to 272WA (WRPS facility) via lift station 2607-Z inside the PFP restricted area. Lift station pump inoperability and changes in conditions and access requirements at PFP required an interruption in water/sewer service to 272WA. PFP facility and MSA utility points of contact are working to complete the final activities to resume manual pumping of the lift station in order to restore services to 272WA.
 - Prepared contract interpretation documentation in support of resolving MSA Hanford Fire Department and FSM requests for PFP to reimburse unreleased gear/tools used in the performance of J.3 Table Base Services from the Radiological Management Areas.
 - Facilitating a new potable water tie-in with MSA water utilities to support increased work scope in the 324 facilities. Extraneous winter conditions and other MSA execution issues required elevation of the project priority to the company Vice President levels.
- o Controlling and Service Agreements:
 - Published PRC-AIA-PNNL-00495, AIA between CHPRC and PNNL for demolition of MO-226 in the 300 Area, documenting the roles and responsibilities of each party.
 - Finalizing revision of HNF-49315, MOA on HAMTC Seniority Related Discharges & Replacements.
 - Supporting CHPRC Environmental Data Integration with a major revision of HNF-48562, Rev. 0 to update and align the document with current processes.
 - Reviewed and provided comments on six Service Delivery Documents during the month of February 2017.
- o J.3 Table Maintenance:
 - Received J.3 Table contract modifications for the Effluent Treatment Facility and RCCC scope transitions and other miscellaneous changes. Internal notifications have been made to communicate the service updates.

- PRC received a contract modification that re-assigned RCRA Part B permit administration and coordination from MSA to PRC. A redline of the J.3 Table #25 Environmental Regulatory Management modification has been accepted by the other Hanford contractors and has been provided to RL through MSA.
- o J.13 and J.14 Tables Maintenance:
 - Submitted review package/comments to MSA for proposed update to the J.14 Table. Awaiting confirmation from MSA Real Estate Services regarding status/ownership of waste sites 100-H-33 and 116-H-6.
- o Internal Operations:
 - Working several documents revisions/cancellations related to the RCCC scope transfer to CHPRC. Involved parties include City of Richland, Pacific Northwest National Laboratory, and MSA.
 - Investigating a potential change of five mobile trailers at the Environmental Restoration and Disposal Facility (ERDF) from General Purpose Facilities to Project Specific Facilities due to the existing work control and configuration control processes in place at ERDF. Existing project processes do not align with the delegations given to MSA for general maintenance activities.
- **Information Management:**
 - o Processed 18,262 Electronic Records into the Integrated Document Management System (IDMS).
 - o Work with MSA is continuing to improve network connectivity and speed in 300 Area for Soil Remediation Project and 600 Area for 618-10 Project. MSA training was completed by the electrical services subcontractor, and work will begin during the week of March 13, 2017.
 - o Continued support to internal data validation and tests of RL Earned Value Cost and Schedule Analysis (EVCSA) tool.

Project Integration

- o During February, Project Integration facilitated and supported the processing of 14 BCRs.
- o In support of the “Integration of the CHPRC Project Controls System Description and the Earned Value Management Interpretation Handbook (EVMSIH)”, two (2) Requests for Proposals were received from bidders. A request for Best and Final Offer (BAFO) was sent to the bidders with their responses currently being reviewed for final selection and award. The “Earned Value Cost and Schedule Analysis” (EVCSA) subject matter experts (SME) team members continue to work through the analysis and validation of the automated test results. PC&PI learned at the February/March EFCOG meeting in DC that PM-30 intends to shift from a data request approach to a PARS extraction process to monitor the health of CHPRC’s Capital Asset Projects (CAPs). CHPRC has been asked to help lead a team of EFCOG contractors in support and development of “Flat File” templates that will be used in the data extraction and upload process.

Program Integration

- **000 Project EVM Support:**
 - o Held 000 Project Overview Review meeting, as well as Vice President level meetings to review Estimate to Completion (ETC) and cost through January.
 - o Established 000 updated funds targets by Vice President, accounting for additional cost for Federal Building office move.
- Prepared and submitted BCR-000-17-001R0, Incorporate Beryllium Exposure Medical Removal Costs, which adds budget in Indirect account 000.17.13.01.

- **Risk Management and Reporting:**

- Issued the CHPRC January Monthly Performance Report to RL.
- Conducted Internal Project Team reviews for January performance data.
- Conducted January performance monthly project reviews with enhanced packet.
- Provided PC&PI input into Contractor Assurance System (CAS) January Report.
- With communications support, enhanced KPG tracking chart and updated data through January.
- Conducted risk meetings to support change proposals identified under Estimating & Program Support section.
- Provided supplemental documentation and continued interface meetings with RL related to the FY2017 ETC Review Comment Record (RCRs). Anticipate to submit final RCR response in March.
- Continued to support RL-0011 risk event impact cross-walk.
- Continued quarterly risk register reviews with Projects. Anticipate to finalize all quarterly updates late March.
- Issued CHPRC January Corporate Program Performance report.
- Supported development of the CHPRC January Monthly Highlights to the Nuclear Business Group.

- **Strategic Management:**

- Updated CHPRC FY2017 Execution Year Priority list per February Field Execution Schedule projected completion dates and incorporated in RL Integrated Priority List (IPL) ranking. The execution year priority list is updated monthly and posted on CHPRC internal website.
- Reviewed internal CHPRC draft of a multi-year CHPRC IPL to incorporate near term and long-term priorities. On-going activities include ranking long range plan scope and emerging priorities with the release of the RL 2020 vision. After CHPRC review comments are incorporated a meeting will be scheduled to review with RL.
- A joint venture between Business and Environmental Strategic Planning continued in February to strategize key projects to focus near-term and out year planning. An initial focus is on key projects in the next five years, with overall schedules to support these, as well as a comprehensive assessment of all regulatory documents needed in the next five years to support the project work. The overall goal will be to align both project and regulatory key strategic initiatives to support successful project completions.
- Coordinated a comprehensive analysis of remaining 100K area waste sites and determine completion strategy to coordinate with S&GW upcoming 100-KR-4 RI/FS update.
- Supported a GAO audit of the Waste Isolation Pilot Plant (WIPP) program and projected Hanford TRU waste volumes; CHPRC will continue to support RL with comments and review of draft reports.
- Supported multiple projects technical requests, including assistance with alternative M-91 TRU processing facilities, soil and groundwater plume source research and potential remedy selections, and alternative disposal analysis from WTP cold run waste. Continued to provide input to key project initiatives, including burial ground waste research, Cesium/Strontium Capsules to dry storage project, and the alpha caisson retrieval project.
- Continued work with various projects on Long Range Planning to support work from FY2018-FY2021, including KW Deactivation & Demolition, Soil & Groundwater, and Waste and Fuels M-91 and Dry Storage.

- o Continued support of ERDF radionuclide disposals and modifications to Waste Management Information System inventory tracking with RL, ERDF Operations Management, and Risk & Modeling Integration. These discussions were in support of the issuance of the annual surveillance and maintenance review required by the ERDF Performance Assessment.
- o Held monthly Productivity Tracking Log meeting with the projects. Discussed company level metrics and Projects briefed their metrics of productivity delays and efficiencies.
- o CR-2014-2322 “Need For a More Rigorous and Formal CHPRC Project Productivity Process” was closed January 31, 2017, based on RL Closure Concurrence. RL’s report providing closure stated: “Regarding the Productivity Tracking Log and the web based Variance Analysis tool, its development is comprehensive based on the efforts and process they put in place that allow for the collection of data.”
- o Moved PTL Metric tracking spreadsheet into Excel PowerPivot – allowing quicker generation and more timely metrics.
- o Updated PTL SharePoint to include calendar containing due dates, and updated project metrics on title slide.
- o Developed Lines of Inquiry for Project assessments of the Productivity Tracking Log process. Assessments are due in March.

PTS

000 Project Services and Support

- **Engineering Services**

- o 000 – Project Services and Support
 - DOE Audit AU-17-ESQ-CHPRC-001, two Observations were reported that required the revision of HNF-42884, *Administrative Control of Welding*, and HNF-54260, *Visual Weld Inspection – Extent and Acceptance*. Both documents have been revised and are out for review.
 - Participated in developing plans for implementing engineering program procedures for the 618-10 project.
 - Continued company and site-wide committee coordination activities for implementation of a revision to the site-wide electrical safety procedure.
 - Solidworks Simulation and Validation Test Plan is currently in the approval cycle, associated Test Report is in process. Additional Simulation Tests to improve statistical data in regards to non-linear simulations and forced vibration simulations.
 - Issued HNF-60652, General Welding Specification, Subcontractor Welding Specification – Requirements and Practices.

- **Training and Procedures**

- o 000 – Project Services and Support
 - Met with Building Trades representatives on streamlining the training/onboarding process.
 - Teamed with Human Resources to develop plan for training of new managers.
 - Identified path forward for Project Technical Services performance of all HPMC Occupational Medical scheduling interfaces.

- **Operations Program**
 - o Conduct of Operations (ConOps)/Work Control/Conduct of Work
 - Initiated combining CHPRC DOE 422.1 Conduct of Operations matrix for all projects.
 - Worked with Imaging Operations, Job Control System Programmers, contacted various individuals on and offsite to assist Plutonium Finishing Plant locate historical work packages from PUREX that might be useful at PFP in planning for future D&D activities (foam in ducting).
 - o Emergency Preparedness (EP)
 - Conducted 2nd Quarter EP Assessment of all facilities.
 - Finalized RL Triennial Assessment corrective action plan updates and submitted to RL.
- **Project Delivery**
 - o Federal Building Upgrades
 - Continue fifth floor carpet replacement, and room modifications on several floors.

Communications

- Communications supported RL in the following Public Involvement activities:
 - o Developed a presentation on the background and status of the 200-WA-1 work plan.
 - o Developed and coordinated a presentation in preparation for a public meeting on the proposed updates to the Dangerous Waste Permit: Groundwater monitoring plans for 300 Area Process Trenches and the 183-H Solar Evaporation Basins
- Communications supported RL in conducting interviews and providing information that generated the following articles in the media:
 - o (2/1/17): *Isssource.com*: “[Radioactivity spreads at WA waste demo site](#)”
 - o (2/1/17): *Tri-City Herald*: “[Radioactive spread at Hanford briefly halts demolition](#)”
 - o (2/3/17): *Exchange Monitor*: “[Radioactive contamination incident stops PFP demolition](#)”
 - o (2/14/17) *Tri-City Herald*: “[Snow, cold cost 23 days of Hanford demolition work](#)”
 - o (2/14/17) *Michele Kearney Nuclear Wire*: “[Crews Remove Contaminated Piping, Ductwork at Plutonium Finishing Plant](#)”
 - o (2/17/17): *Weapons Complex Monitor*: “[DOE working to make up lost time in Hanford Plant Demo](#)” (Subscription Required)
 - o (2/20/17) *Engineering News Record*: “[Hanford work progresses on teardown and treatment](#)”
- Communications supported RL in the development of several social media posts, including:
 - o 324 Building: Social media post to Hanford’s Facebook page ran Monday, February 13, 2017.
 - o PFP: Social media post to Hanford’s Facebook page ran Monday, February 6 and Tuesday, February 14, 2017.
 - o 100K Basin: Social media post to Hanford’s Facebook page ran Monday, February 6, 2017.

PROJECT BASELINE PERFORMANCE

Current Month

(\$M)

WBS 000 Project Services and Support	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)
Office of the President	0.2	0.2	0.2	0.0	0.0%	0.0	-11.5%
Internal Audit	0.1	0.1	0.0	0.0	0.0%	0.1	54.0%
General Counsel	0.1	0.1	0.1	0.0	0.0%	0.0	27.5%
Communications	0.1	0.1	0.1	0.0	0.0%	0.0	-33.6%
Safety, Health, Security and Quality	1.3	1.3	1.0	0.0	0.0%	0.3	22.3%
Environmental Program and Strategic Planning	0.5	0.5	0.3	0.0	0.0%	0.1	25.6%
Business Services	2.0	2.0	1.9	0.0	0.0%	0.1	4.9%
Prime Contract and Project Integration	2.0	2.0	1.7	0.0	0.0%	0.4	18.0%
Project Technical Services	0.6	0.6	0.6	0.0	-0.2%	0.0	3.5%
Indirect WBS 000 Total	6.9	6.9	6.0	0.0	0.0%	0.9	13.5%

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: (+\$0.9M/+13.5%)

The variance is within reporting thresholds.

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

WBS 000 Project Services and Support	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)	Budget at Completion (BAC)
Office of the President	0.7	0.7	0.6	0.0	0.0%	0.1	8.7%	1.8
Internal Audit	0.4	0.4	0.2	0.0	0.0%	0.2	50.2%	1.2
General Counsel	0.6	0.6	0.4	0.0	0.0%	0.1	25.5%	1.5
Communications	0.4	0.4	0.5	0.0	0.0%	(0.1)	-17.7%	1.1
Safety, Health, Security and Quality	5.8	5.8	4.7	0.0	0.0%	1.1	19.2%	15.7
Environmental Program and Strategic Planning	2.0	2.0	1.5	0.0	0.0%	0.6	27.8%	5.5
Business Services	9.0	9.0	8.3	0.0	0.0%	0.7	7.7%	24.1
Prime Contract and Project Integration	9.2	9.2	7.8	0.0	0.0%	1.4	15.4%	24.5
Project Technical Services	2.8	2.8	2.6	0.0	0.4%	0.2	7.7%	7.5
Indirect WBS 000 Total	31.0	31.0	26.6	0.0	0.0%	4.4	14.1%	83.0

Numbers are rounded to the nearest \$0.1 million.

Indirect WBS 000

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

The variance is within reporting thresholds.

FYTD Cost Performance: (+\$4.4M/+14.1%)

The FYTD positive cost variance is primarily due to lower than planned on demand services for the WBS 000.17.03.02 Information Technical Management. Also contributing to the positive cost variance is the Safety Health Security & Quality organization as they are currently experiencing less FTEs than budgeted. In addition, Environmental and Regulatory Compliance and Acquisition and Materials Management are currently experiencing less FTEs than planned and a different skill mix.

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)	31.0	26.6	4.4	83.0	81.0	2.0
Office of the President	0.7	0.6	0.1	1.8	2.0	(0.2)
Internal Audit	0.4	0.2	0.2	1.2	1.0	0.1
General Counsel	0.6	0.4	0.1	1.5	1.3	0.2
Communications	0.4	0.5	(0.1)	1.1	1.3	(0.2)
Safety, Health, Security and Quality	5.8	4.7	1.1	15.7	14.8	0.9
Env. Program & Strategic Planning	2.0	1.5	0.6	5.5	4.6	0.9
Business Services	9.0	8.3	0.7	24.1	25.0	(0.8)
Prime Contract and Project Integration	9.2	7.8	1.4	24.5	22.9	1.6
Project Technical Services	2.8	2.6	0.2	7.5	8.1	(0.6)
Waste & Fuels Management Project	0.0	0.0	0.0	0.0	0.0	(0.0)

FY2017		
G&A Distribution	(31.4)	(90.2)
G&A Liquidation (Over)/Under	(4.8)	(9.2)

Liquidation Analysis

For February, application of the G&A rate has over-liquidated total to date G&A cost by \$4.8 million. The FY2017 year-end projected over-liquidation of \$9.2 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
RL-0011_C1, RL-0011_C2, and RL-0012_C1_1



February 2017
CHPRC-2017-02, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

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



T. E. Bratvold
Vice President for
PFP Closure Project

February 2017
CHPRC-2017-02, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

Progress continued to work toward CD-4 closure as teams continued to prep glovebox/hoods for extraction during demolition. It is expected that final preparations will be complete on April 20, 2017. At that time, gloveboxes will be staged until demolition of 234-5Z commences and completion of Capital Assets Project discrete scope will be completed. The total number of gloveboxes removed to date remains at 94 percent complete.

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

<i>Key Metrics</i>	<i>Current Month Plan</i>	<i>Current Month Actuals</i>	<i>Cumulative Plan</i>	<i>Cumulative Actuals</i>
Glovebox/Hood Removed	-	-	174	164
COMPLETE KPP Rooms/Areas Ready for Demo	-	-	60	60 rooms/areas

KEY ACCOMPLISHMENTS

RL-0011_C1 Accomplishments

- Work remaining on this capital asset project is removal of the gloveboxes from the 234-5Z facility. All work associated with glovebox process equipment removal has been completed. Final preparations to support the physical removal of the remaining gloveboxes will be completed by April 20, 2017. As the project nears the ready for demolition milestone for the 234-5Z building (May 2017), more gloveboxes will begin to be removed from the facility.
- Continued activities in preparation of removal of Gloveboxes HA-7A, HC-18M, and HC-7C.

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 February .						
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 February .						
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.		
				<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 change in the month of February. The mitigation strategies have been put in place; as a result, the risk strategy is to accept with no further mitigation actions identified at this time. PFP will continue to adhere to the CHPRC ISMS program/ hoisting and rigging program to include detailed analyses of potential hazards and identification of preventive measures to implement prior to starting the work. At this time, no alternative course of actions needed.</p>	Mitigation action(s)	FC Date
Mitigation action(s)	FC Date	%				
None identified at this time.	N/A	N/A				
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)						
No high threat value risks identified for RL-0011/WBS-011.05.01.01.06 (CAP.1) in the month of February .						
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 February .						

CRITICAL PATH SCHEDULE

The PFP C1 Critical Path Schedule is a resource-driven float path in which the critical path starts with isolation of the 234-5Z basement drain lines and ventilation paths, followed by the filling the drain lines with epoxy. Once completed, this allows for shutting down the Critical Alarm system and declaring 234-5Z Cold & Dark and Ready for Demo. Demolition of 234-5Z will occur in the following sequence: 234-5ZA, Frontside, A-Labs, Backside Rooms/Plutonium Process Support Laboratories (PPSL), RMA Process Lines, RMC Process Lines, and the RADTU & Basement areas. CD-4 closeout will commence once the final glovebox is removed from RADTU in 234-5Z.

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	11/1/2017	Progress continued to work toward CD-4 closure as teams continued to prep glovebox/hoods for extraction during demolition. It is expected that final preparations for removal will be complete on April 20, 2017. At that time gloveboxes will be staged until demolition of 234-5Z commences and completion of CAP.1 discrete scope will be completed. There was a 14 day delay for the month of February. This is due to impacts from weather resulting in cancellation of training classes, ultimately resulting in the inability to perform field work until training was rescheduled and completed. As the PFP Project continues to make progress on the behind schedule critical path work scope being performed, it is expected efficiencies will be recognized, evaluated, and as appropriate implemented to help recover some of the schedule delays. The total number of gloveboxes removed to date is at 94 percent complete.

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

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

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

Nothing to report at this time.

DOE ACTIONS / DECISIONS

Nothing to report at this time.

RL-0011_C1

Contract Performance Reports

Format 1 - Work Breakdown Structure

Format 2 - Organizational Categories

Format 3 - Baseline

Format 4 - Staffing

Format 5 - Explanation and Problem Analysis



February 2017
CHPRC-2017-02, 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 C12M HILL Plateau Remediation Company		a. NAME Plateau Remediation Contract		a. NAME MPB-RL_0011_C1 - PFP D&D (ARRA/Base)		a. FROM (YYYYMMDD) 2017 / 01 / 23	
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE		b. TO (YYYYMMDD) 2017 / 02 / 19	
		c. TYPE CPAF		d. SHARE RATIO		c. EVMS ACCEPTANCE NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> (YYYYMMDD) 2009 / 09 / 18	

5. CONTRACT DATA	a. QUANTITY 1	b. NEGOTIATED COST 317,545	c. ESTIMATED COST OF AUTHORIZED UNPRICED WORK 0	d. TARGET PROFIT/FEE 9,878	e. TARGET PRICE 327,423	f. ESTIMATED PRICE 344,683	g. CONTRACT CEILING 327,423	h. ESTIMATED CONTRACT CEILING 344,683	i. DATE OF OTB/OTS (YYYYMMDD)
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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 332,412						c. SIGNATURE		d. DATE SIGNED (YYYYMMDD)	
b. WORST CASE 335,145									
c. MOST LIKELY 334,805		317,545		-17,260					

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-0011 Nuclear Mat Stab & Disp PFP	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	
RL_0011_C1.05 Disposition PFP Facility	0	44	27	44	17	235,514	234,729	259,178	-786	-24,450	0	0	0	235,514	259,624	-24,110	
RL_0011_C1.06 Project Management & Support	0	0	0	0	0	11,990	11,990	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	44	27	44	17	315,152	314,366	331,966	-786	-17,600	0	0	0	315,152	332,412	-17,260	
f. MANAGEMENT RESERVE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
g. TOTAL	0	44	27	44	17	315,152	314,366	331,966	-786	-17,600	0	0	0	317,545	332,412	-14,867	
9. RECONCILIATION TO CONTRACT BUDGET BASELINE																	
a. VARIANCE ADJUSTMENT																	
b. TOTAL CONTRACT VARIANCE																	
											-786	-17,600	317,545	332,412	-14,867		

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

CLASSIFICATION (When Filled In)

CLASSIFICATION (When Filled In)

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

DOLLARS IN

Thousands of \$

FORM APPROVED
OMB No. 0704-0188

1. CONTRACTOR		2. CONTRACT		3. PROGRAM		4. REPORT PERIOD	
a. NAME CH2M HILL Plateau Remediation Company		a. NAME Plateau Remediation Contract		a. NAME MPB - RL_0011_C1 - PFP D&D (ARRA/Base)		a. FROM (YYYYMMDD) 2017 / 01 / 23	
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE		b. TO (YYYYMMDD) 2017 / 02 / 19	
c. TYPE CPAF		d. SHARE RATIO		c. EVMS ACCEPTANCE NO <input type="checkbox"/> X 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	44	27	44	17	254,725	253,939	279,386	-786	-25,446	0	0	0	254,725	279,832	-25,107		
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	44	27	44	17	315,152	314,366	331,966	-786	-17,600	0	0	0	315,152	332,412	-17,260		
f. MANAGEMENT RESERVE														2,393				
g. TOTAL	0	44	27	44	17	315,152	314,366	331,966	-786	-17,600	0	0	0	317,545				

CLASSIFICATION (When Filled In)

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	
a. NAME CH2M HILL Plateau Remediation Company			a. NAME Plateau Remediation Contract				a. NAME MPB - RL_0011_C1 - PFP D&D (ARRA/Base)			a. FROM (YYYYMMDD) 2017 / 01 / 23	
b. LOCATION (Address and ZIP Code) Richland, WA			b. NUMBER RL14788		b. PHASE			b. TO (YYYYMMDD) 2017 / 02 / 19			
			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 MAR 2017 (4)	+2 APR 2017 (5)	+3 MAY 2017 (6)	+4 JUN 2017 (7)	+5 JULY 2017 (8)	+6 AUG 2017 (9)	REMAIN FY17 (10)	FY18 (11)	FY19-LC (12)	ATCOMPLETE (13)		
35 - Business Services	0	17	0	0	0	0	0	0	0	0	0	0	0	0
3B - PFP Closure Project	1	15408	8	13	0	1	1	11	0	0	0	0	0	15442
g. TOTAL DIRECT	1	15425	8	13	0	1	1	11	0	0	0	0	0	15459

CLASSIFICATION (When Filled In)

CLASSIFICATION (When Filled In)

CONTRACT PERFORMANCE REPORT
FORMAT 5 - Explanations and Problem Analysis

FORM APPROVED
OMB No. 0704-0188

1. CONTRACTOR		2. CONTRACT		3. PROGRAM		4. REPORT PERIOD			
a. NAME CH2M HILL Plateau Remediation Company		a. NAME Plateau Remediation Contract		a. NAME MPB - RL_0011_C1 - PFP D&D (ARRA/Base)		a. FROM (YYYYMMDD) 2017/01/23			
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE		b. TO (YYYYMMDD) 2017/02/19			
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	44	27	44		17	39%		1.65
Cumulative:	315,152	314,366	331,966	-786	-0.2%	-17,600	-5.6%	1.00	0.95
	BAC	EAC	VAC in \$	VAC in %	TCPI to BAC	TCPI to EAC			
At Complete:	315,152	332,412	-17,260	-5.5%		1.76			

Explanation of Variance/Description of Problem:

Current Period:
Schedule Variance: Within Threshold
Cost Variance: The current month positive cost variance is associated with recognized efficiencies on preparations of the HA-7A and HC-7C glovebox removal efforts.

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

Impact:
Schedule Impact: The RL-011.C1 project baseline completion date is February 16, 2016. The current schedule now reflects a completion date of November 1, 2017. There was a 14 day delay for the month of February. This is due to impacts from weather resulting in cancellation of training classes, ultimately resulting in the inability to perform field work until training was rescheduled and completed.

The current RL-11 performance schedule indicates that the PFP project will achieve slab-on-grade by August 30, 2017. The PFP project lost 14 days on the schedule from the February month end forecast completion date of the Tri-Party Agreement milestone for the PFP Project to reach Slab on Grade. This is as a result of impacts inclement weather and resource availability due to training cancellations related to the weather impacts. Efficiencies have previously been identified in readying the 234-5Z facility for demolition wherein NDA and characterization data supports leaving more piping and ducting in place for demolition. In addition, efficiencies were recognized in 236-Z (PRF) wherein work was performed on filter boxes in parallel with the gallery gloveboxes allowing acceleration of the start of 236-Z demolition. This is turn accelerated when additional field team resources were reallocated from 236-Z to 234-5Z to get the facility ready for demolition. This is partially offset by delay in readying the 234-5Z facility for demolition as a result of lack of RCT resources. 234-5Z contains the gloveboxes requiring removal to meet the end state of the KPP and TPA milestone. The project expects to increase progress in the 234-5Z facility as all resources have been reassigned to complete the demo preparations in this facility. The PFP Project is currently on track to meet the re-negotiated TPA milestone M-083-00A due date of 9/30/17 for achieving slab-on-grade.

Cost Impact: The historical negative cost variance of ~\$17.6M and 5.6%, and CPI of .95 reflect impacts of the safety pauses, stop works, contamination events, and increased complexity of the HA-9A/HC-9B size reduction efforts. This variance is not considered recoverable. The cost variance is partially offset by recognized efficiencies in cleaning up the RMA/RMC control rooms after completion of the size reduction efforts of the 9A/9B gloveboxes. The EAC increased by \$26K the month of February which is insignificant.

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

Corrective Action:
No Corrective Actions Required

- No Corrective Actions Required**
- Schedule Margin Analysis: There is no schedule margin associated with the RL-011.C1 capital asset account.
 - IMS Data dictionary Changes: None in the month of February.
 - Forecast Schedule with No Baseline: None in the month of February.
 - UB Balance: None in the month of February.
 - Negative ACWP: None in the month of February.
 - EAC Analysis: Best Case = \$332,412; Most Likely = \$334,805; Worst Case = \$335,145
 - Negative CV > VAC: Scope to perform size reduction efforts on the high gram glovebox removal efforts was estimated to be completed in a much shorter time frame with much fewer resources than originally planned causing the large Cost Variance. The EAC is reflective of the current approach to perform the remaining work scope.
 - MR Transactions: None in the month of February.
 - Freeze Period Changes: None in the month of February.
 - Retroactive Changes: None in the month of February.
 - EVT Changes: None in the month of February.

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

Appendix C

Capital Asset Project

RL-0011.C2 - Demolition of PFP Facilities



T. E. Bratvold
Vice President for
PFP Closure Project

February 2017
CHPRC-2017-02, 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) facility began on November 8, 2016. Completion of all demolition activities will occur in August 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	-
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	-
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

- Continued demolition activities on 236-Z Facility.
- Continued demolition activities on the 242-Z Facility.

MAJOR ISSUES

- None currently identified.

CORRECTIVE ACTION LOG

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

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

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

-  Increased Confidence
-  No Change
-  Decreased Confidence

Risk Title Risk Owner	Unmitigated Risk Impacts	Assessment		Comments								
		Month	Trend									
RL-0011/WBS-011.05.C3 (CAP.2)												
Explanation of major changes to the project monthly spotlight chart: No major changes to the monthly spotlight chart in the month of February .												
Realized Risks (Risks that are currently impacting project cost/schedule)												
PFP-DEMO-23: Demolition Equipment Reliability and Modification	Ineffective demolition equipment attachments or mechanical failures impact the demolition of PFP. Equipment modification, leasing, or replacement will be required resulting in cost impacts Risk Handling Strategy: Accept Probability: Medium (26% to 74%) Worst Case Impacts: \$1 million, 66 day			<p>Risk Event: This risk was realized when additional demolition equipment (telescoping fogger) was identified to be needed to mitigate the spread of contamination during demolition efforts. Excessive water puddling has caused issues in the drain systems and allowed water to enter into PFP facilities raising the risk of losing contamination control. The fogger has the potential to become contaminated so leasing is not an option and no other projects have one to loan.</p> <table border="1"> <thead> <tr> <th>Risk Recovery Actions</th> <th>Risk Date</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Receipt of telescoping fogger</td> <td>11/30/2016</td> <td>03/06/17</td> <td>0</td> </tr> </tbody> </table> <p>Recovery Action Assessment: The telescoping fogger will be received on 03/06/17 and is projected to be QA approved and ready for field use by 03/08/17. Due to the conditions listed above, this risk has been realized and additional equipment is required. The project will procure a telescoping fogger to mitigate the spread of contamination during demolition. The purchase of this equipment was completed by utilizing management reserve and implementing a BCR in the month of December. Receipt of the fogger is projected in March 2017.</p>	Risk Recovery Actions	Risk Date	FC Date	%	Receipt of telescoping fogger	11/30/2016	03/06/17	0
Risk Recovery Actions	Risk Date	FC Date	%									
Receipt of telescoping fogger	11/30/2016	03/06/17	0									
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 months of December, January, and February due to winter weather limiting demolition activities and causing site closures/early releases.</p> <table border="1"> <thead> <tr> <th>Risk Recovery Actions</th> <th>Risk Date</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Obtain weather conditions for the area and adjust daily work scope/schedule accordingly</td> <td>12/14/2016</td> <td>Ongoing</td> <td>N/A</td> </tr> </tbody> </table> <p>Recovery Action Assessment: Winter weather continues to impact PFP demolition activities. The project incurred a site closure day on February 9, 2017. There were also delays or early releases on February 8 and 15, 2017. The PFP project was also impacted due to increased snow removal, frozen water lines, and weather/temperature restrictions (freezing temperatures) on demolition activities. The PFP project will continue to adjust daily work scope to plan for projected weather impacts.</p>	Risk Recovery Actions	Risk Date	FC Date	%	Obtain weather conditions for the area and adjust daily work scope/schedule accordingly	12/14/2016	Ongoing	N/A
Risk Recovery Actions	Risk Date	FC Date	%									
Obtain weather conditions for the area and adjust daily work scope/schedule accordingly	12/14/2016	Ongoing	N/A									
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)												
FY2017 Risk Triggers (Risk could be realized in FY2017)												

Risk Title Risk Owner	Unmitigated Risk Impacts	Assessment		Comments		
		Month	Trend			
RL-0011/WBS-011.05.C3 (CAP.2)						
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.		
				Mitigation action(s)	FC Date	%
				None identified at this time.		N/A
				Mitigation Assessment: No changes in the month of February . The mitigation strategies have been put in place; as a result, the risk strategy is to accept with no further mitigation actions identified at this time. PFP will continue to adhere to the CHPRC ISMS program/ hoisting and rigging program to include detailed analyses of potential hazards and identification of preventive measures to implement prior to starting the work. At this time, no alternative course of actions needed.		
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: \$1.5 million, 60 days	●	↔	Risk Trigger: During pre-demolition/demolition activities in FY2017. Dates tracked in the FES.		
				Mitigation action(s)	FC Date	%
				Identify and pre-rig equipment with lifting slings.	06/30/17	50
				Initiate discussions early in the demo planning of the equipment being left in place for removal during demolish. 06/30/17 0		
				Mitigation Assessment: No changes in the month of February . An effort will soon be taken to develop a removal path for several of the gloveboxes for Criticality Incredibility. If the opportunity presents itself additional gloveboxes currently slated for removal during demolition (e.g. HC-227S, HC227T) will be removed during pre-demolition as risk mitigation strategy. At this time, no alternative course of actions needed.		
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)						
No high threat value risks identified in the month of February .						
Unassigned Risks (Pending ownership of identified risks/opportunities)						
To ensure success of the project ownership needs to be established to further identify and address potential impacts to project cost and schedule. There are cases when risks are identified but are outside the control and management of the contractor. However, CHPRC risk management process identifies all risks that could impact overall project success.						
PFP-DEMO-18: Level of Readiness Effort	PFP Demolition activities and hazard categorization provide for a Readiness Assessment (RA); however, due to the first-of-its-kind project at the Hanford Site, CHPRC will be directed by the customer to perform a more rigorous RA than planned resulting in cost impacts and schedule delays. <u>CHPRC Comment:</u> The rework required between the first submittal on May 26, 2015, through the resubmittal on August 27, 2015, and subsequent approval on October 8, 2015, has increased cost of demolition and impacted schedule. The additional cost is due to a technical difference in the readiness scoring by RL that is not consistent with historical scoring. The addition of a readiness team and performance of an exercise versus a drill have impacted the project. The additional requirements may represent realization of previously identified risk PRC-010, Requirements Change. Accordingly, CHPRC is entitled to an adjustment to cost and fee to implement the direction. In December, a notice of change was sent to RL for the potential change. The letter was re-submitted based on RL feedback. The project continues to wait for direction from RL and will revisit after completion of the RA as actual costs will be able to be compiled.					

CRITICAL PATH SCHEDULE

The PFP Critical Path Schedule is a resource-driven float path in which the critical path starts with isolation of the 234-5Z basement drain lines and ventilation paths, followed by the filling the drain lines with epoxy. Once completed, this allows for shutting down the Critical Alarm system and declaring 234-5Z Cold & Dark and Ready for Demo. Demolition of 234-5Z will occur in the following sequence: 234-5ZA, Frontside, A-Labs, Backside Rooms/Plutonium Process Support Laboratories (PPSL), RMA Process Lines, RMC Process Lines, and the RADTU & Basement areas. Once the 234-5Z and 291-Z facilities have been demolished, the Tri-Party Agreement Milestone – M-083-00A - *PFP Facility Transition and Selection Disposition Activities* will have been met. This leads to post-demolition demobilization and the final CD-4 closeout of the project.

SCHEDULE MARGIN/MANAGEMENT RESERVE

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

CRITICAL DECISION MILESTONE STATUS

Number	Title	* Due Date	**Forecast Date	Status/ Comment
RL-011.C2	Completion Demolition of all PFP Facilities.	8/31/18	1/25/18	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 1, 2016, and completion of demolition activities will occur in August 2017. There was a loss of 14 days for the month of February. This is due to impacts from weather resulting in cancellation of training classes, ultimately resulting in the inability to perform field work until training was rescheduled and completed. As the PFP Project continues to make progress on the behind schedule critical path work scope being performed, it is expected 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

None to report at this time.

RL-0011_C2

Contract Performance Reports

Format 1 - Work Breakdown Structure

Format 2 - Organizational Categories

Format 3 - Baseline

Format 4 - Staffing

Format 5 - Explanation and Problem Analysis



February 2017
CHPRC-2017-02, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

CLASSIFICATION (When Filled In)

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

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

1. CONTRACTOR		2. CONTRACT		3. PROGRAM			4. REPORT PERIOD		
a. NAME CH2M HILL Plateau Remediation Company		a. NAME Plateau Remediation Contract		a. NAME RL_0011_C2 PFP Demolition Capital Asset Project			a. FROM (YYYYMMDD) 2017 / 01 / 23		
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE			b. TO (YYYYMMDD) 2017 / 02 / 19		
		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 51,683	c. ESTIMATED COST OF AUTHORIZED UNPRICED WORK 0	d. TARGET PROFIT/FEE 5,000	e. TARGET PRICE 56,683	f. ESTIMATED PRICE 50,349	g. CONTRACT CEILING 56,683	h. ESTIMATED CONTRACT CEILING 50,349	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 42,252						c. SIGNATURE		d. DATE SIGNED (YYYYMMDD)	
b. WORST CASE 58,037									
c. MOST LIKELY 45,349		51,683		6,334					

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-0011 Nuclear Mat Stab & Disp																	
RL_0011_C2.05 Disposition PFP		779	1,428	1,588	649	-160	47,892	12,941	17,826	-34,951	-4,884	0	0	0	48,586	42,252	6,334
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		779	1,428	1,588	649	-160	47,892	12,941	17,826	-34,951	-4,884	0	0	0	48,586	42,252	6,334
f. MANAGEMENT RESERVE															3,097		
g. TOTAL		779	1,428	1,588	649	-160	47,892	12,941	17,826	-34,951	-4,884	0	0	0	51,683		

9. RECONCILIATION TO CONTRACT BUDGET BASELINE																	
a. VARIANCE ADJUSTMENT																	
b. TOTAL CONTRACT VARIANCE																	
										-34,951	-4,884				51,683	42,252	9,431

CLASSIFICATION (When Filled In)

CLASSIFICATION (When Filled In)

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

DOLLARS IN Thousands of \$

FORM APPROVED
OMB No. 0704-0188

1. CONTRACTOR		2. CONTRACT		3. PROGRAM		4. REPORT PERIOD	
a. NAME CH2M HILL Plateau Remediation Company		a. NAME Plateau Remediation Contract		a. NAME RL 0011 C2 PFP Demolition Capital Asset Project		a. FROM (YYYYMMDD) 2017 / 01 / 23	
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE		b. TO (YYYYMMDD) 2017 / 02 / 19	
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)							
3B - PFP Closure Project	779	1,428	1,588	649	-160	47,892	12,941	17,826	-34,951	-4,884	0	0	0	48,586	42,252	6,334	
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)	779	1,428	1,588	649	-160	47,892	12,941	17,826	-34,951	-4,884	0	0	0	48,586	42,252	6,334	
f. MANAGEMENT RESERVE														3,097			
g. TOTAL	779	1,428	1,588	649	-160	47,892	12,941	17,826	-34,951	-4,884	0	0	0	51,683			

CLASSIFICATION (When Filled In)

CONTRACT PERFORMANCE REPORT															Form Approved	
FORMAT 3 - BASELINE															OMB No. 0704-0188	
DOLLARS IN THOUSANDS																
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 a. NAME: Plateau Remediation Contract b. PHASE c. EVMS ACCEPTANCE NO			RL_0011_C2 PFP Demolition Capital Asset Project Plateau Remediation Contract 9/18/2009			4. REPORT PERIOD a. FROM: 2017/01/23 b. TO: 2017/02/19				
5. CONTRACT DATA																
a. ORIGINAL NEGOTIATED COST 51,683				b. NEGOTIATED CONTRACT CHANGE \$0		c. CURRENT NEGOTIATED COST (A + B) \$51,683		d. ESTIMATED COST AUTH UNPRICED WORK \$0		e. CONTRACT BUDGET BASE (C + D) \$51,683		f. TOTAL ALLOCATED BUDGET \$51,683		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 Mar-17 (4)	+2 Apr-17 (5)	+3 May-17 (6)	+4 Jun-17 (7)	+5 Jul-17 (8)	+6 Aug-17 (9)	FY09-13 (10)	FY14 (11)	FY15 (12)	FY16 (13)	FY17 (14)	FY18 (15)		
a. PM BASELINE (BEGIN OF PERIOD)	47,114	779	114	570	10	0	0	0	0	0	6,090	29,182	13,313	0	0	48,586
b. BASELINE CHANGES AUTH DURING REPORT PERIOD None during the reporting period												0	0	0	0	0
c. PM BASELINE (END OF PERIOD)	47,892	779	114	570	10	0	0	0	0	0	6,090	29,182	13,313	0	0	48,586
7. MANAGEMENT RESERVE																3,097
8. TOTAL																51,683

CLASSIFICATION (When Filled In)

CONTRACT PERFORMANCE REPORT FORMAT 4 - STAFFING				FORM APPROVED OMB No. 0704-0188
1. CONTRACTOR		2. CONTRACT		3. PROGRAM
a. NAME CH2M HILL Plateau Remediation Company		a. NAME Plateau Remediation Contract		a. NAME RL_0011_C2 PFP Demolition Capital Asset Project
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE
		c. TYPE CPAF		d. SHARE RATIO
				c. EVMS ACCEPTANCE NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> (YYYYMMDD) 2009 / 09 / 18
				4. REPORT PERIOD a. FROM (YYYYMMDD) 2017 / 01 / 23 b. TO (YYYYMMDD) 2017 / 02 / 19

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 (14)
			SIX MONTH FORECAST BY MONTH (Enter names of months)						ENTER SPECIFIED PERIODS					
			+1 MAR 2017 (4)	+2 APR 2017 (5)	+3 MAY 2017 (6)	+4 JUN 2017 (7)	+5 JULY 2017 (8)	+6 AUG2017 (9)	REMAIN FY17 (10)	FY18 (11)	FY19-LC (12)	ATCOMPLETE (13)		
3B - PFP Closure Project	39	246	58	51	51	124	107	104	64	73	0	0	877	
g. TOTAL DIRECT	39	246	58	51	51	124	107	104	64	73	0	0	877	

CLASSIFICATION (When Filled In)

CLASSIFICATION (When Filled In)

**CONTRACT PERFORMANCE REPORT
FORMAT 5 - Explanations and Problem Analysis**

**FORM APPROVED
OMB No. 0704-0188**

1. CONTRACTOR		2. CONTRACT		3. PROGRAM		4. REPORT PERIOD	
a. NAME CH2M HILL Plateau Remediation Company		a. NAME Plateau Remediation Contract		a. NAME RL_0011_C2 PFP Demolition Capital Asset Project		a. FROM (YYYYMMDD) 2017/01/23	
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE		b. TO (YYYYMMDD) 2017/02/19	
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:		778.6	1,427.7	1,587.5	649.2	83.4%	-159.8	-11.2%	1.83	0.90
Cumulative:		47,892.4	12,941.5	17,825.9	-34,950.9	-73.0%	-4,884.4	-37.7%	0.27	0.73
	BAC	EAC	VAC in \$	VAC in %	TCPI to BAC	TCPI to EAC				
At Complete:	48,585.9	42,252.0	6,333.9	13.0%	1.16	1.46				

Explanation of Variance/Description of Problem:

Current Month:

Schedule Variance: The current month positive schedule variance is due to performance of behind schedule demolition work scope associated with the demolition of 236-ZA and 242-ZA. This scope was to be performed in the 3rd quarter of 2016 in the PMB baseline schedule, however, delays in getting 236-Z ready for demolition negatively impacted the start of both 236-Z and 242-Z demolition. Demolition of 236-Z is currently scheduled to complete on June 6 2017 while 242-Z demolition is scheduled to complete on March 27, 2017. This is partially offset by delay of the demobilization and installation of the cover cap following all demolition activities. This work has been significantly impacted due to delays in getting 236-Z, 242-Z, 291-Z and 234-5Z ready for demolition and cannot occur until all buildings are demolished. Demobilization and the cover cap are targeted to complete on October 24, 2017.

Cost Variance: The current month cost variance is due to cross cutting work scope (apportioned) impacts from equipment failures, contamination event, and weather (unusually cold and snowy winter) resulting in minimum performance. This is partially offset by recognized efficiencies on demolition of the PRF facility in the month of February.

Cumulative to Date:

Schedule Variance: The cumulative schedule variance is due to delay of demolition of ancillary buildings and 236-Z caused by resources being redirected to support higher priority critical path work associated with decommissioning of 234-5Z, 242-Z, and 236-Z, as well as 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) and increased characterization efforts. The contract to date negative schedule variance is due to work scope associated with the demolition of 236-Z, 242-Z, 291-Z, and 234-5Z not being performed as originally scheduled. The demolition of these facilities has been delayed due to resources being redirected to support ready for demolition activities (project critical path work). As a result of delays in the ready for demolition activities, the C2 CD-4 has been delayed. However, the TPA milestone M-083-00A has been re-negotiated to a due date of 9/30/2017 and is expected to be achieved. 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 5th floor, 6th floor, 60% of the 4th floor, and South Canyon Airlock of 236-Z and demolition of 242-ZA.

Cost Variance: The cumulative negative cost variance is associated with MSA subcontracted resources arriving to support PFP demolition that had a 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 PRF/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. Finally, 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 are being 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 event in the PRF demolition zone. This is partially offset by recognized efficiencies associated with the demolition of the 2727-Z and 2729-Z facilities.

Impact:

Schedule Impact: Work efforts in getting 234-5Z ready for Cold & Dark resulted in a loss of 14 days for the month of February. This is due to impacts from weather resulting in cancellation of training classes, ultimately resulting in the inability to perform field work until training was rescheduled and completed. As the PFP Project continues to make progress on the behind schedule critical path work scope being performed, it is expected efficiencies will be recognized, evaluated, and implemented to recover schedule delays. 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 and is expected to be achieved.

Cost Impact: Stop Works, Safety Pauses, multiple contamination events, the PRF Crane failure, and associated recovery actions have negatively impacted the field work to ready 234-5Z, 236-Z, 242-Z, and 291-Z for demolition. 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. Finally, subcontracted MSA resources specializing in facility demolition continue to charge the project until ready for demo status is achieved. In addition an unexpected contamination event that occurred during demolition of the PRF facility has contributed to the cost impacts on this project. Recovery actions are being reviewed and, when finalized, will be put in place to partially recover the cost impact.

The positive VAC is reflective of working one shift during demolition of 236-Z and 242-Z facilities rather than two as planned in the PMB. In addition, the duration for demolition of 234-5Z has been adjusted as it has been determined that due to the time of year demolition will occur, the number of days to demolish the facility will be less than originally planned. This reduces the amount of demolition and supervision labor resources needed, resulting in the reduction of EAC to BCWS values. The projected net EAC impact of \$1.1M since January is the result of adjustment of change in approach for 234-5Z demolition running three shifts per day vs. two as was in the baseline plan to ensure that the TPA Milestone M-083-00A to reach slab on grade condition by 9/30/17 is met.

Corrective Action:

Cost: MSA subcontracted resources (e.g., Heavy Equipment Operators, Crane Operators, Mechanics, etc.) will be loaned out to other CHPRC and other Hanford contractors when the PFP project can support the needs of others and this offset unnecessary costs to the PFP Project. Action Mike Douglas due 6/30/17

Schedule: Since weather impacts cannot be prevented and the mechanical failures were expected after reintroducing the equipment into service after sitting idle for an extended period of time, the only recovery is to work overtime when appropriate to attempt to recover schedule. Action: Ruben Trevino due 5/31/2017

Initiate demolition of the 234-5Z facility efficiently on P/Q shift. Action Ruben Trevino 4/30/2017

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 February 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 February
3. Forecast Schedule with No Baseline: No change in the month of February
4. UB Balance: No change in the month of February
5. Negative ACWP: No change in the month of February
6. EAC Analysis: Best Case = \$42,252; Most Likely = \$45,349; Worst Case = \$58,037
7. Negative CV > VAC: No change in the month of February
8. MR Transactions: No change in the month of February
9. Freeze Period Changes: No change in the month of February
10. Retroactive Changes: No change in the month of February
11. EVT Changes: No change in the month of February

Prepared by:

Date:

Approved by:

Date:

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



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

M. A. Wright
Vice President for
Project Technical
Services

February 2017
CHPRC-2017-02, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1



PROJECT SUMMARY

Based upon discussions between RL and CHPRC Senior Management, the Sludge Treatment Plant (STP) Team has modified the field execution schedule (FES) to implement acceleration opportunities that could potentially facilitate the transfer of all sludge to T Plant in fiscal year (FY) 2018. 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 schedule duration.
- Approval of T Plant safety documentation must be completed within 120 days of submittal.
- CD-4 approval must occur concurrently with commencing sludge retrieval operations.
- Approval of the integrated 105K West Documented Safety Analysis (DSA) must not impact project critical path.
- An “as-built” DSA/technical safety requirement (TSR) revision will not be required following K Basin Preoperational Acceptance Testing (KPAT).
- To properly present the current forecast date of Tri-Party Agreement M-016-175, *Begin sludge removal from 105-KW Fuel Storage Basin*, the milestone has been disconnected from the schedule margin. The current, non-risk adjusted forecast date to begin sludge removal is January 31, 2018.

Installation of process hardware is progressing well and is forecast to complete in March 2017, with KPAT scheduled to begin in early April 2017.

PBS RL-0012 scope is over 85 percent complete and performance to date is positive with a cumulative Schedule Performance Index (SPI) of 1.00 and a cumulative Cost Performance Index (CPI) of 1.06.

KEY ACCOMPLISHMENTS

RL-0012_C1_1 Accomplishments

KW Basin Sludge Retrieval Capital Assest Project

- KW Annex Construction (Project Technical Services)
 - Completed air dryer exhaust modification and continued installation of supplemental cooling system in the mechanical room.
 - Completed installation of ledger plates in Truck Scale pit.
 - Completed electrical outage to facilitate final tie-ins and Engineered Container Retrieval and Transfer System (ECRTS) electrical panel power-up.
 - Completed trailer bumper pad installation along with shielded cave on bumper and Mezzanine grating.
 - Completed survey on Truck Scale and re-mobilized the Sludge Transport & Storage Container (STSC) trailer and staged in the loading bay.
 - Completed connection of ECRTS process hoses to STSC.
 - Completed albi clad and touch-up painting in loading bay.
 - Completed mechanical room door louver installation.
- KW Basin In Basin Construction (Project Technical Services)
 - Completed final terminations of RAD monitoring power and communication cabling.
 - Completed relocation of ECRT-PNL-107, Sludge Layering Panel.
 - Completed continuity and megger testing to support Construction Acceptance Tests (CATs.)
 - Completed installing new labels on XAGO Pump Skid.

- The RL Safety Basis Review Team (SBRT) has concurred with the proposed disposition on 49 of 225 comment dispositions. Approval and implementation of the integrated 105K West Facility DSA and TSR is nearing project critical path. The DSA/TSR must be approved and implemented prior to integrated KPAT activities that transfer 105K West Basin water into the 105K West Annex.
- The final draft of the One-Time Request for Shipment (OTRS) has been submitted to RL for review and approval. The Maintenance and Storage Facility (MASF) Pre-operational Acceptance Test (MPAT) Test Report was approved by the STP, Joint Test Group on January 31, 2017, however, comment incorporation and issuance has been given a lower priority than development and approval of KPAT Specifications/Procedures. The MPAT Test Report is forecast to complete in April, 2017.
- KPAT specification development, review, and approval efforts continued. There will be a total of 14 specifications and one procedure required. The status is as follows:
 - Seven specifications have been developed, reviewed, and approved by the STP Engineering Manager and/or Joint Test Group, as required.
 - Seven specifications are in the process of being developed, reviewed, or approved by the STP Engineering Manager and/or Joint Test Group as required.
 - The Test Procedure is in the development process.
 - All specifications and the procedure are forecast to be completed by March 31, 2017.
- ECRTS Procurement: STSC Vessels and Installation of STSC Instrumentation/Appurtenances continued through the fiscal month. The project is on track to complete the first 12 STSC Assemblies by June 30, 2017. American Boiler Works (ABW) will also complete fabrication of the final 11 STSC Shells by July 31, 2017. Once the final 11 STSC shells are fabricated, they will be transported to HiLine for installation of associated instrumentation and appurtenances.
- Significant progress was made in developing Operations and Maintenance Procedures supporting sludge removal and packaging operations. Additionally, efforts to develop training material and prepare for Nuclear Chemical Operator (NCO), Subject Mater Expert (SME) qualifications next month continued.
- Readiness documentation development continued as planned.

MAJOR ISSUES

Sludge Removal Project

Issue:

Iron contamination was discovered in STSCs that had previously been accepted by Mission Support Alliance (MSA) Acquisition Verification Services (AVS) final inspections.

Corrective Action:

A causal analysis and corrective action plan were completed to ensure all STSCs are tested, cleaned as necessary, and declared free of iron contamination.

Status:

1. STSC 410-413 were cleaned, retested, and accepted by CHPRC - Complete.
2. STSC 402-403 remain at HiLine (with instrumentation/appurtenances installed) and will be tested, cleaned, and retested by HiLine personnel, due to the difficulty and expense of returning these vessels to Arlington, WA, with instrumentation and appurtenance installed. This work will commence in fiscal month March and is scheduled to complete prior to the end of the fiscal month.

3. STSC 404-409 have been shipped back to Arlington, WA, for testing, cleaning, and retesting, as appropriate. STSC 405 and 406 were completed February 23, 2017, and STSC 404, and 407-409 will be completed before the end of calendar month March.
4. STSC 414-424 will be tested for free-iron, cleaned, and retested, as appropriate – forecasted delivery June 2017.

Issue:

The schedule for resolving RL Safety Basis Review Team (SBRT) comments on the 105K West Basin/Annex DSA/TSR is slipping putting the activity in jeopardy of negatively impacting the KPAT Integrated Test and SRP critical path.

Corrective Action:

Continue working closely with the RL SBRT to resolve comments as expeditiously as possible. Expedite comment incorporation, CHPRC internal approval of the update DSA/TSR Package, and RL approval of that package.

Status:

CHPRC is forecasting a completion date for having all RL SBRT comments incorporated and the document ready to be retransmitted to RL by March 27, 2017. Additional time has been required to resolve comments.

CORRECTIVE ACTION LOG

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

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

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

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

Risk Title	Unmitigated Risk Impacts	Assessment		Comments																				
		Month	Trend																					
RL-0012/WBS-012 (CAP)																								
Explanation of major changes to the project monthly spotlight chart: No major changes to the monthly spotlight chart in the month of February .																								
Realized Risks (Risks that are currently impacting project cost/schedule)																								
STP-072: Delayed STSC/ECRTS Procurement & Delivery	Material delivery and fabrication issues at ECRTS vendor facilities delay the delivery of the components to the Sludge Treatment Plant (STP) resulting in cost impacts and schedule delays. Risk Handling Strategy: Control Probability: Medium (26% to 74%) Worst Case Impacts: \$3,000K 120 days	●	↑	Risk Event: Event 1: Rust was discovered in STSCs. As a result, additional testing and cleaning is required to correct this condition. Event 2: In order to establish a reliable Sludge Transportation System Cask configuration capable of meeting the project's needs, several ports must be reconfigured to ensure reliable leak-tight integrity. This discovery was outside of baseline material procurement plans. <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>Event 1 - Finalize Field FES activities dates consistent with change orders</td> <td style="text-align: center;">5/13/16</td> <td style="text-align: center;">03/23/17</td> <td style="text-align: center;">90</td> </tr> <tr> <td>Event 2 – Establish Scope of STS Cask Rework and Submit Change Order to HiLine</td> <td style="text-align: center;">12/7/16</td> <td style="text-align: center;">Complete</td> <td style="text-align: center;">100</td> </tr> <tr> <td>Complete Procurement/Fabrication</td> <td style="text-align: center;">12/7/16</td> <td style="text-align: center;">03/23/17</td> <td style="text-align: center;">50</td> </tr> <tr> <td>Deliver equipment to 100K Area</td> <td style="text-align: center;">12/7/16</td> <td style="text-align: center;">05/10/17</td> <td style="text-align: center;">0</td> </tr> </tbody> </table> Recovery Action Assessment: Event 1: STSC Free Iron Testing and Cleaning Strategy established and is being executed. This issue will be removed from this risk register next month. Event 2: A change order was provided to HiLine to procure new seals and bolts to facilitate establishing a STS Cask with leak tight integrity. New seal system should increase reliability of system and facilitate minimal corrective maintenance during shipping campaign. HiLine was authorized to proceed with fabrication and delivery of this hardware. No foreseeable impacts to CAP Asset project in the near future.	Risk recovery action(s)	Risk Date	FC Date	%	Event 1 - Finalize Field FES activities dates consistent with change orders	5/13/16	03/23/17	90	Event 2 – Establish Scope of STS Cask Rework and Submit Change Order to HiLine	12/7/16	Complete	100	Complete Procurement/Fabrication	12/7/16	03/23/17	50	Deliver equipment to 100K Area	12/7/16	05/10/17	0
Risk recovery action(s)	Risk Date	FC Date	%																					
Event 1 - Finalize Field FES activities dates consistent with change orders	5/13/16	03/23/17	90																					
Event 2 – Establish Scope of STS Cask Rework and Submit Change Order to HiLine	12/7/16	Complete	100																					
Complete Procurement/Fabrication	12/7/16	03/23/17	50																					
Deliver equipment to 100K Area	12/7/16	05/10/17	0																					
STP-125-B: Inclement Weather - ECRTS Annex/In-Basin Equip.	Inclement weather and site closure days will have a day-for-day impact on construction execution and contractor performance with ECRTS equipment delivery and placement in the Annex or Basin. Risk Handling Strategy: Accept Probability: Likely (75% to 90%) Worst Case Impacts: \$50K, 12 days	●	↓	Risk Event: The project has incurred lost time delays in February as a result of inclement weather. The project incurred a site closure day on February 9, 2017 . There were also delays or early releases on February 8 and 15, 2017 . <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>Obtain weather conditions for the area and adjust daily work scope/schedule accordingly</td> <td style="text-align: center;">12/15/16</td> <td style="text-align: center;">Ongoing</td> <td style="text-align: center;">N/A</td> </tr> </tbody> </table> Recovery Action Assessment: Project estimates, per RL, allow only fair weather estimating practices and do not consider the impacts associated with normal local weather conditions. The implication is that planned time in the Annex and Basin will be reduced during both warm and cold weather. Common weather conditions such as high winds, ice storms, snow storms, and lightning will cause work scope delays potentially extending the project schedule duration and increasing costs. Work/Rest regiments can consume 2-4 hours each day and ice, snow, and wind closures have a day-to-day impact on the project schedule. No additional mitigation actions have been identified at this time. No foreseeable impacts in the near future, and no alternative course of actions needed at this time.	Risk recovery action(s)	Risk Date	FC Date	%	Obtain weather conditions for the area and adjust daily work scope/schedule accordingly	12/15/16	Ongoing	N/A												
Risk recovery action(s)	Risk Date	FC Date	%																					
Obtain weather conditions for the area and adjust daily work scope/schedule accordingly	12/15/16	Ongoing	N/A																					

Risk Title	Unmitigated Risk Impacts	Assessment		Comments																								
		Month	Trend																									
RL-0012/WBS-012 (CAP)																												
STP-067A Safety Classification of SSCs - DSA/TSR	DOE approval of the Documented Safety Analysis (DSA)/Technical Safety Requirements (TSR) takes longer than the assumptions planned for in the baseline. Risk Handling Strategy: Control Probability: Medium (26% to 74%) Worst Case Impacts: \$3,00K 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. The Original project baseline included 120 calendar days for RL to approve the safety basis document; however, it has now been 142 days (as of 2/19/17) with formal approval still not imminent.</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>Prepare disposition to all RL comments provided via Record Comment Review (RCR).</td> <td>1/28/17</td> <td>Complete</td> <td>100</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>3/30/17</td> <td>20</td> </tr> <tr> <td>CHPRC to appoint an independent facilitator to assist in resolution of RL comments.</td> <td>1/28/17</td> <td>3/9/17</td> <td>0</td> </tr> <tr> <td>Prepare a change order to obtain Management Reserve for realized risk.</td> <td>1/28/17</td> <td>3/31/17</td> <td>0</td> </tr> </tbody> </table> <p>Recovery Action Assessment: RL & CHPRC Senior Management have met multiple times in an attempt to resolve differences on the DSA/TSR Submittal. All DSA/TSR comments have been dispositioned as of 2/17/17. Obtaining RL concurrence on comment resolution continues to slip and is now forecasted to complete 3/30/17. CHPRC and RL agreed to have an independent facilitator assist in resolving RL comments against the DSA/TSR Submittal. The facilitator was appointed and is anticipated to begin their function on 3/9/17.</p>	Risk recovery action(s)	Risk Date	FC Date	%	Solicit Senior RL & CHPRC involvement in resolving deficiencies.	1/28/17	As Needed	N/A	Prepare disposition to all RL comments provided via Record Comment Review (RCR).	1/28/17	Complete	100	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	3/30/17	20	CHPRC to appoint an independent facilitator to assist in resolution of RL comments.	1/28/17	3/9/17	0	Prepare a change order to obtain Management Reserve for realized risk.	1/28/17	3/31/17	0
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Risk Title	Unmitigated Risk Impacts	Assessment		Comments															
		Month	Trend																
RL-0012/WBS-012 (CAP)																			
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)																			
No critical risks identified in the month of February .																			
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)																			
FY2017 Risk Triggers (Risk could be realized in FY2017)																			
STP-103: K Basin Pre-Operational Acceptance Testing (KPAT) & 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 as a result 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			Risk Trigger: 1) The ECRTS equipment does not operate as expected. 2) Unexpected attrition of critical testing personnel.															
		<table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Develop and refine procedures based upon feedback from testing and operations personnel.</td> <td>3/30/17</td> <td>45</td> </tr> <tr> <td>Develop streamline strategy (work packages and procedures) to perform in-basin/annex integrated testing and troubleshooting.</td> <td>3/30/17</td> <td>35</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>			Mitigation action(s)	FC Date	%	Develop and refine procedures based upon feedback from testing and operations personnel.	3/30/17	45	Develop streamline strategy (work packages and procedures) to perform in-basin/annex integrated testing and troubleshooting.	3/30/17	35	Utilize Overtime to offset schedule impacts.	As Needed	N/A	Closely monitor employee satisfaction and consider employee incentive to retain key test personnel.	As Needed	N/A
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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 Assessment: Forecasted mitigation dates slipped two weeks as scope was found to be more extensive than planned . Dates are consistent with overall STP critical path schedule.																			
Unassigned Risks (Pending ownership of identified threats/opportunities)																			
No unassigned risks identified in the month of February .																			

CRITICAL PATH SCHEDULE

The critical path flows through preparation for and performance of the KPAT. Following a successful Operational Readiness Review, 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 transferring 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 Project is implementing acceleration strategies to complete sludge retrieval by September 30, 2018.

SCHEDULE MARGIN/MANAGEMENT RESERVE

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

CRITICAL DECISION MILESTONE STATUS

Number	Title	*Due Date	**Forecast Date	Status/ Comment
15-D-401	CD-4, Project Completion	11/30/2019	8/04/2018	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 1/30/2018.

*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	RL Due Date
RL Issue SER for Integrated KW Basin DSA/TSR	3/21/17	4/04/17
RL Concur on Integrated DSA/TSR Comment Resolution	2/17/17 (A)	2/27/17
RL Prepare Integrated DSA/TSR SER	2/28/17	3/11/17
RL SRB Review of Integrated DSA/TSR	3/14/17	3/20/17
RL Review of OTRS	1/17/17 (A)	5/16/17
RL Approve / Comment Plan of Action (POA) - K-Basins	3/23/17	4/21/17
RL Final Approval of POA - K-Basins	5/04/17	5/10/17
WAC HNF-EP-0063 RL Review/Approval of Request for Exception	3/24/17	3/30/17
RL Review and Approve MDSA and TSR Rev.12	12/01/16 (A)	3/30/17

RL-0012_C1_1

Contract Performance Reports

Format 1 - Work Breakdown Structure

Format 2 - Organizational Categories

Format 3 - Baseline

Format 4 - Staffing

Format 5 - Explanation and Problem Analysis



February 2017
CHPRC-2017-02, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

CLASSIFICATION (When Filled In)

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

DOLLARS IN Thousands of \$

FORM APPROVED
OMB No. 0704-0188

1. CONTRACTOR		2. CONTRACT		3. PROGRAM		4. REPORT PERIOD	
a. NAME CH2M HILL Plateau Remediation Company		a. NAME Plateau Remediation Contract		a. NAME 15_D_401 KW Basin Sludge Removal Project		a. FROM (YYYYMMDD) 2017 / 01 / 23	
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE		b. TO (YYYYMMDD) 2017 / 02 / 19	
		c. TYPE CPAF		d. SHARE RATIO		c. EVMS ACCEPTANCE NO <input type="checkbox"/> X YES (YYYYMMDD) 2019 / 09 / 18	

5. CONTRACT DATA								
a. QUANTITY 1	b. NEGOTIATED COST 295,873	c. ESTIMATED COST OF AUTHORIZED UNPRICED WORK 0	d. TARGET PROFIT/FEE 7,950	e. TARGET PRICE 303,823	f. ESTIMATED PRICE 299,966	g. CONTRACT CEILING 303,823	h. ESTIMATED CONTRACT CEILING 299,966	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 285,949						c. SIGNATURE		d. DATE SIGNED (YYYYMMDD)	
b. WORST CASE 295,610									
c. MOST LIKELY 292,016		295,873		3,857					

8. PERFORMANCE DATA	CURRENT PERIOD										CUMULATIVE TO DATE			REPROGRAMMING ADJUSTMENTS			AT COMPLETION		
CAPN.PBS Control Account.PARS 2 WBS (2)	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)		
	ITEM (1)	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	1	0	-1	156,861	156,861	0	101	0	0	0	0	156,861	156,760	101			
RL_0012_C1_1.17 D-401 KW Basin Sludge Removal Project	3,403	3,190	3,677	-213	-487	99,739	102,874	3,135	8,987	0	0	0	0	132,775	129,190	3,585			
b. COST OF MONEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
c. GENERAL AND ADMINISTRATIVE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
d. UNDISTRIBUTED BUDGET														0	0	0	0		
e. SUBTOTAL	3,403	3,190	3,678	-213	-488	256,600	259,735	3,135	9,089	0	0	0	0	289,636	285,949	3,687			
f. MANAGEMENT RESERVE														6,067					
g. TOTAL	3,403	3,190	3,678	-213	-488	256,600	259,735	3,135	9,089	0	0	0	0	295,703					

9. RECONCILIATION TO CONTRACT BUDGET BASELINE																		
a. VARIANCE ADJUSTMENT																		
b. TOTAL CONTRACT VARIANCE																		
										3,135		9,089		295,703		285,949		9,753

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 / 01 / 23	
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE		b. TO (YYYYMMDD) 2017 / 02 / 19	
c. TYPE CPAF		d. SHARE RATIO		c. EVMS ACCEPTANCE NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> (YYYYMMDD) 2019 / 09 / 18			

ITEM (1)	BUDGETED COST		CURRENT PERIOD		VARIANCE		BUDGETED COST		CUMULATIVE TO DATE		REPROGRAMMING ADJUSTMENTS			AT COMPLETION		
	WORK SCHEDULED (2)	WORK PERFORMED (3)	ACTUAL COST WORK PERFORMED (4)	SCHEDULE (5)	COST (6)	WORK SCHEDULED (7)	WORK PERFORMED (8)	ACTUAL COST WORK PERFORMED (9)	SCHEDULE (10)	COST (11)	COST VARIANCE (12a)	SCHEDULE VARIANCE (12b)	BUDGET (13)	BUDGETED (14)	ESTIMATED (15)	VARIANCE (16)
WBS.Resp Org Group 3G - K Basin Oper & Plateau Remediation Project	3,403	3,190	3,678	-213	-488	256,600	259,735	250,646	3,135	9,089	0	0	0	289,636	285,949	3,687
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)	3,403	3,190	3,678	-213	-488	256,600	259,735	250,646	3,135	9,089	0	0	0	289,636	285,949	3,687
f. MANAGEMENT RESERVE														6,067		
g. TOTAL	3,403	3,190	3,678	-213	-488	256,600	259,735	250,646	3,135	9,089	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 / 01 / 23	
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE		b. TO (YYYYMMDD) 2017 / 02 / 19	
c. TYPE CPAF		d. SHARE RATIO		c. EVMS ACCEPTANCE NO <input type="checkbox"/> X <input checked="" type="checkbox"/> YES (YYYYMMDD) 2019 / 09 / 18			

5. PERFORMANCE DATA															
WBS.Resp Org Group ORGANIZATIONAL CATEGORY (1)	ACTUAL CURRENT PERIOD (2)	ACTUAL END OF CURRENT PERIOD (Cumulative) (3)	FORECAST (Non-Cumulative)												AT COMPLETION (15)
			SIX MONTH FORECAST BY MONTH (Enter names of months)						ENTER SPECIFIED PERIODS						
			+1 MAR 2017 (4)	+2 APR 2017 (5)	+3 MAY 2017 (6)	+4 JUN 2017 (7)	+5 JULY 2017 (8)	+6 AUG 2017 (9)	REMAIN FY17 (10)	FY18 (11)	FY19-LC (12)	ATCOMPLETE (13)	(14)		
3G - K Basin Oper & Plateau Remediation Project	69	6611	77	80	79	82	82	84	83	292	0	0	0	7471	
g. TOTAL DIRECT	69	6611	77	80	79	82	82	84	83	292	0	0	0	7471	

CLASSIFICATION (When Filled In)

