CHPRC-2018-01
Revision 0

Monthly Performance Report

January 2018

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

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

P.O. Box 1600
Richland, Washington 99352

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APPROVED
By Janis Aardal at 8:06 am, Feb 26, 2018

Release Approval | Date

Monthly Performance Report

L. Ty Blackford
President and Chief Executive Officer

U.S. Department of Energy Contract,
DE-AC06-08RL14788
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EXECUTIVE SUMMARY

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

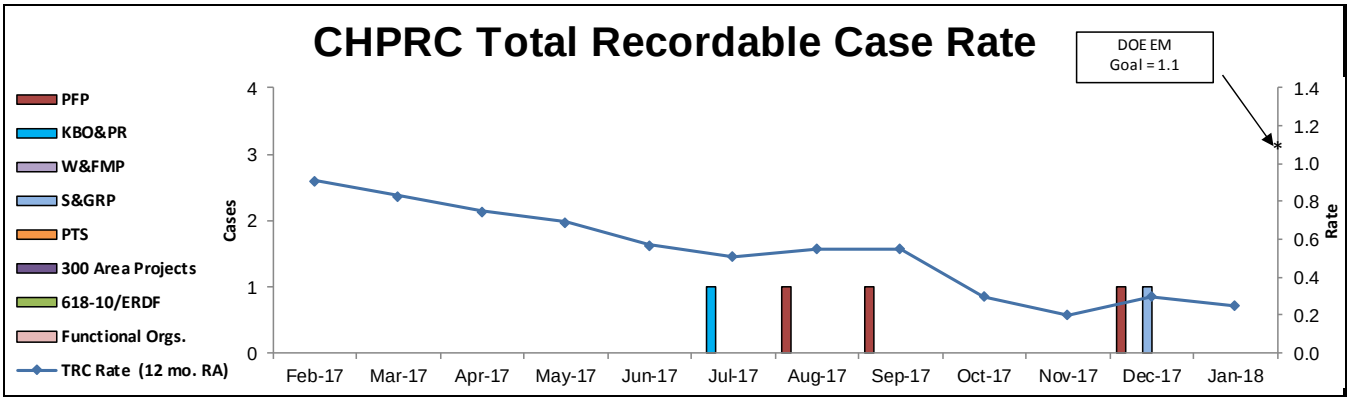
The S&GRP team collecting groundwater samples.

- Plutonium Finishing Plant (PFP) Closure Project: Recovery actions continued following a contamination spread in December 2017. The PFP team implemented an expanded work control zone and expanded radiological boundaries, moved employees out of the work control zone, and began routine fixative applications to ensure no further contamination spread. A CH2M/Jacobs Engineering Group-led PFP Recovery Team is in place to provide oversight and management of the PFP recovery project.
- 618-10 Burial Ground Remediation Project: Workers are approximately 60 percent complete with backfill at the 618-10 Burial Ground.
- Soil and Groundwater Remediation Project (S&GRP): The S&GRP team hit an all-time high, treating more than 295 million gallons of contaminated groundwater in the quarter. In January, workers set a new monthly treatment production record of 102 million gallons.
- Waste and Fuels Management Project (W&FMP): Engineers at the Waste Encapsulation Storage Facility (WESF) worked with the team at the Maintenance and Storage Facility (MASF) to develop a verification tool to ensure the capsules in the WESF pool are the correct dimensions for dry storage. Operators took advantage of the mock-up at MASF to train with the newly designed tool.
- K Basins Operations and Plateau Remediation Project (KBO&PR): Workers at 100K have shipped more than 11,000 tons of contaminated soil from various waste sites to the Environmental Restoration Disposal Facility in January.
- 324 Building Disposition Project: Inside the 324 Building, C-Cell size reduction and debris removal is nearing completion and crews are preparing for A-Cell debris removal. At the 324 mock-up, work continued on installing equipment to support training.
- Plutonium Uranium Extraction Plant (PUREX) Tunnel: Workers began planning Tunnel 2 investigation work activities, which began at the end of January.

- The President's Zero Accident Council (PZAC) meeting for January was hosted by Safety, Health, Security & Quality (SHS&Q). The three main ideas were:
  - Accentuate the Positive
  - Celebration
  - "Rise Up" to the Challenges
- Five "*Thinking Target Zero*" (TTZ) bulletins were published to convey important occupational, safety, health, and environmental messages:
  - Voluntary Protection Program – Safety Issues and Ideas
  - Outdoor Winter Activities
  - Winter Personal Protection Equipment (PPE)
  - Winter Health
  - Risk Behaviors
- *Weekly Safety Tailgate* briefing packages communicated relevant topics and safety information to the workforce:
  - Two Lessons Learned: OPEX – Contact with underground utility lines (OE-3; 2017-07); Recognize and prepare for learning curve for first time test operation – offsite.
  - Weekly ethics moments.
  - Vehicle incidents.
  - Safety Pause.
  - Vehicle Safety.
  - Emergency Response.
  - HPMC medical appointments.
  - Winter hazard evaluations.
  - 10 CFR 851 Program Update.
  - Safety in motion – ergonomics.

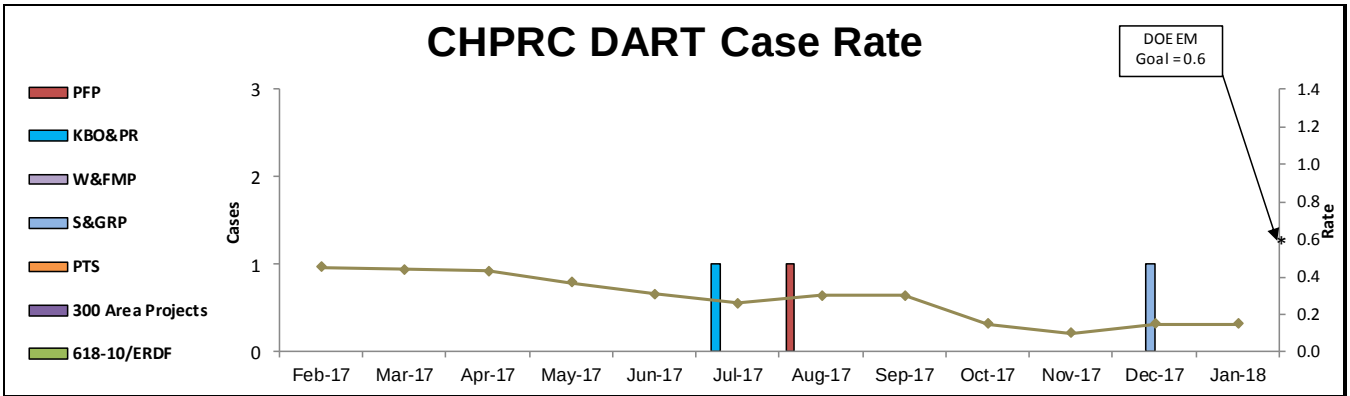
TARGET ZERO PERFORMANCE

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



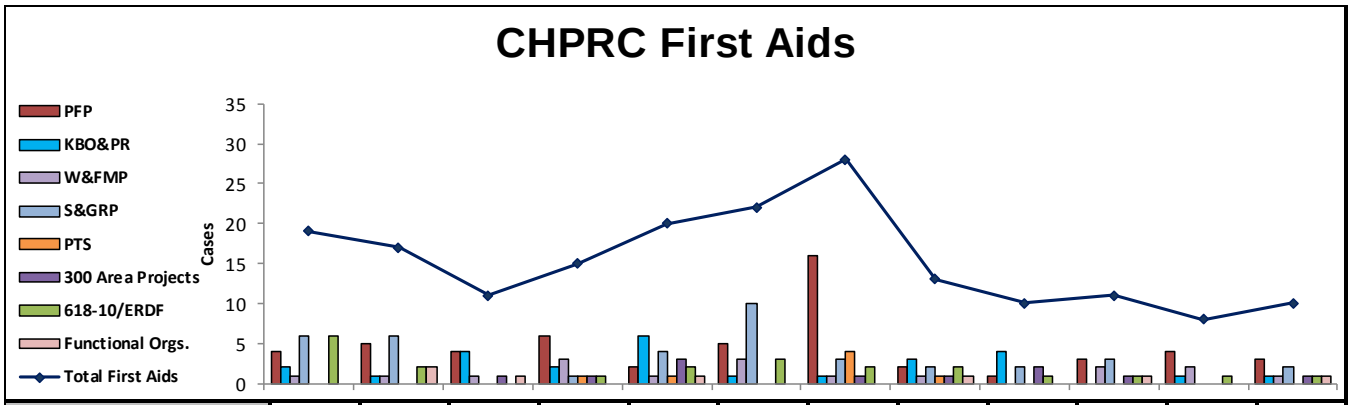
	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18
PFP	0	0	0	0	0	0	1	1	0	0	1	0
KBO&PR	0	0	0	0	0	1	0	0	0	0	0	0
W&FMP	0	0	0	0	0	0	0	0	0	0	0	0
S&GRP	0	0	0	0	0	0	0	0	0	0	1	0
PTS	0	0	0	0	0	0	0	0	0	0	0	0
300 Area Projects	0	0	0	0	0	0	0	0	0	0	0	0
618-10/ERDF	0	0	0	0	0	0	0	0	0	0	0	0
Functional Orgs.	0	0	0	0	0	0	0	0	0	0	0	0
Recordable Cases	**0**	**0**	**0**	**0**	**0**	**1**	**1**	**1**	**0**	**0**	**2**	**0**
TRC Rate (12 mo. RA)	**0.91**	**0.83**	**0.75**	**0.69**	**0.57**	**0.51**	**0.55**	**0.55**	**0.30**	**0.20**	**0.30**	**0.25**

Total Recordable Injury Case (TRC) Rate: The 12-month rolling average TRC rate of 0.25 is based on a total of five recordable injuries. January had no recordable cases.



	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18
PFP	0	0	0	0	0	0	1	0	0	0	0	0
KBO&PR	0	0	0	0	0	1	0	0	0	0	0	0
W&FMP	0	0	0	0	0	0	0	0	0	0	0	0
S&GRP	0	0	0	0	0	0	0	0	0	0	1	0
PTS	0	0	0	0	0	0	0	0	0	0	0	0
300 Area Projects	0	0	0	0	0	0	0	0	0	0	0	0
618-10/ERDF	0	0	0	0	0	0	0	0	0	0	0	0
Functional Orgs.	0	0	0	0	0	0	0	0	0	0	0	0
DART Cases	**0**	**0**	**0**	**0**	**0**	**1**	**1**	**0**	**0**	**0**	**1**	**0**
DART Rate (12 mo. RA)	**0.45**	**0.44**	**0.43**	**0.37**	**0.31**	**0.26**	**0.30**	**0.30**	**0.15**	**0.10**	**0.15**	**0.15**

Days Away, Restricted or Transferred (DART) Workdays Case Rate: The 12-month rolling average DART rate of 0.15 is based on a total of three days away cases. January had no DART cases.



	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18
PFP	4	5	4	6	2	5	16	2	1	3	4	3
KBO&PR	2	1	4	2	6	1	1	3	4	0	1	1
W&FMP	1	1	1	3	1	3	1	1	0	2	2	1
S&GRP	6	6	0	1	4	10	3	2	2	3	0	2
PTS	0	0	0	1	1	0	4	1	0	0	0	0
300 Area Projects	0	0	1	1	3	0	1	1	2	1	0	1
618-10/ERDF	6	2	0	1	2	3	2	2	1	1	1	1
Functional Orgs.	0	2	1	0	1	0	0	1	0	1	0	1
Total First Aids	**19**	**17**	**11**	**15**	**20**	**22**	**28**	**13**	**10**	**11**	**8**	**10**

First Aid Case Summary: CHPRC reported 10 First Aid cases in January. The contributors were five sprains/strains/pains, two abrasions/bruises/contusions, one cuts/lacerations/punctures, one insect bite and one miscellaneous. (burns, rashes, repetitive motion, etc.) injury. In addition, five self-treat cases were reported in January.

KEY ACCOMPLISHMENTS

Projects

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

Project Services and Support

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

MAJOR ISSUES

Issue:

Significant Contract Change Management is ongoing and must be resolved to retain Plateau Remediation Contract (PRC) alignment for fiscal year (FY) 2017-2018.

- As of January month-end, there was a backlog of 51 undefinitized change proposals (CPs), requests for equitable adjustments (REAs), rough order magnitudes (ROMs), and responses to requests for proposals (RFPs) – totaling approximately $431 million in net value with fee.

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/REAs.

Status:

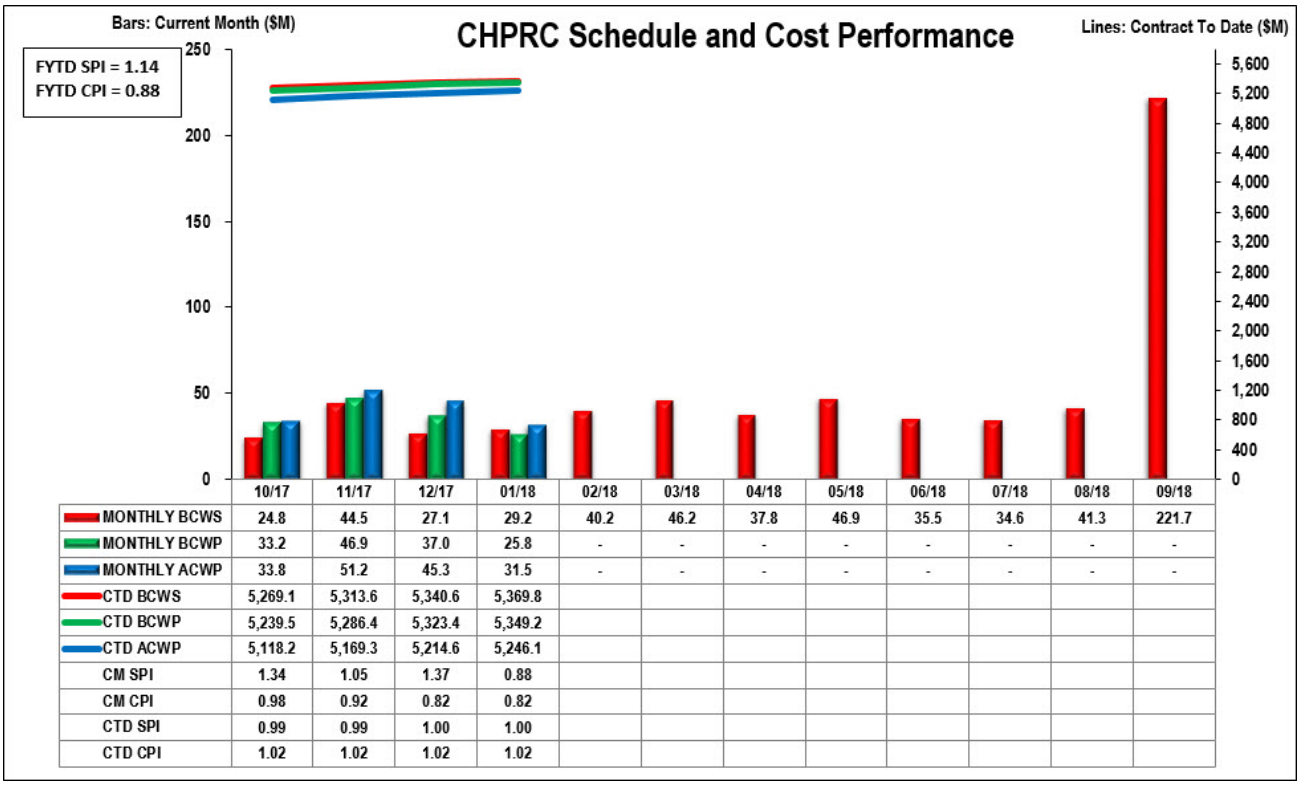
- CHPRC continues to discuss proposed alignment strategy with RL.
  - Negotiate in process changes.
  - Realign remaining contract cost for scope consistent with FY2018 Budget Guidance.

- Develop configured contract change management basis for contract change entitlement and contract closeout.

Projects

- Refer to Sections A through G, as well as Appendix C of this report for the project specific major issues.

EARNED VALUE MANAGEMENT



	10/17	11/17	12/17	01/18	02/18	03/18	04/18	05/18	06/18	07/18	08/18	09/18
MONTHLY BCWS	24.8	44.5	27.1	29.2	40.2	46.2	37.8	46.9	35.5	34.6	41.3	221.7
MONTHLY BCWP	33.2	46.9	37.0	25.8	-	-	-	-	-	-	-	-
MONTHLY ACWP	33.8	51.2	45.3	31.5	-	-	-	-	-	-	-	-
CTD BCWS	5,269.1	5,313.6	5,340.6	5,369.8								
CTD BCWP	5,239.5	5,286.4	5,323.4	5,349.2								
CTD ACWP	5,118.2	5,169.3	5,214.6	5,246.1								
CM SPI	1.34	1.05	1.37	0.88								
CM CPI	0.98	0.92	0.82	0.82								
CTD SPI	0.99	0.99	1.00	1.00								
CTD CPI	1.02	1.02	1.02	1.02								

September includes $55.1 million of BCWS in planning packages and $128.5 million of BCWS in undistributed budget.

	$M Current Period					$M Contract to Date					$M Contract Period		
	Budgeted Cost		Actual Cost	Variance		Budgeted Cost		Actual Cost	Variance				
	BCWS	BCWP	ACWP	Schedule	Cost	BCWS	BCWP	ACWP	Schedule	Cost	BAC	EAC	Variance
RL-0011 - Nuclear Materials Stab & Disp PFP	0.0	0.0	4.4	(0.0)	(4.4)	988.5	973.0	1089.4	(15.6)	(116.4)	988.7	1,152.0	(163.3)
RL-0012 - SNF Stabilization & Disposition	2.8	3.1	3.4	0.4	(0.2)	715.5	715.4	683.4	(0.1)	31.9	740.4	706.9	33.4
RL-0013 - Solid Waste Stab & Disposition	7.2	5.6	6.6	(1.6)	(1.0)	1224.3	1224.0	1147.6	(0.3)	76.3	1,361.4	1,280.4	80.9
RL-0030 - Soil & Water Rem-Grndwtr/Vadose	6.9	6.6	7.8	(0.3)	(1.3)	1429.2	1422.3	1399.3	(6.9)	22.9	1,568.1	1,539.9	28.2
RL-0040 - Nuc Fac D&D - Remainder	1.8	2.1	1.7	0.2	0.3	466.6	464.6	438.3	(2.0)	26.3	504.6	480.2	24.4
RL-0041 - Nuc Fac D&D - RC Closure Project	10.4	8.3	7.5	(2.1)	0.8	520.9	525.1	467.4	4.2	57.7	684.6	607.6	77.0
RL-0042 - Nuc Fac D&D - FFTF Project	0.1	0.1	0.1	(0.0)	0.0	24.9	24.9	20.6	0.0	4.3	26.5	22.4	4.1
(Values are rounded to the nearest $0.1M) Total	29.2	25.8	31.5	(3.4)	(5.7)	5,369.8	5,349.2	5,246.1	(20.7)	103.1	5,874.2	5,789.5	84.7
(Values do not have UB breakout)													

**Per email direction received December 6, 2017 from the RL Contracting Officer, CHPRC is authorized to incorporate the value of proposed changes into the baseline, as well as remove work that is not authorized from our execution plan. When a contract alignment settlement is reached, baseline change requests (BCRs) will be processed to align the Performance Measurement Baseline (PMB) with the settlement values.*

Performance Summary

CHPRC continues to track completion of the contract scope within budget and is currently projecting a variance at completion (VAC) of $84.7 million, with $49.5 million of management reserve (MR), for a total positive variance of $134.2 million. For January, the project was 11.7 percent behind schedule and 22.2 percent over planned cost. Contract to date (CTD), the project was 0.4 percent behind schedule and 1.9 percent under planned cost.

The VAC decreased $39.8 million from last month largely due to a $33.3 million increase to PBS RL-0011's forecast. A more accurate estimate at completion (EAC) for PBS RL-0011 will be developed upon completion and approval of a recovery plan addressing the root causes of the unplanned releases.

The current month (CM) negative schedule variance is primarily due to PBS RL-0041 backfill of the 316-4 Waste Site, finishing ahead of schedule when it was originally planned to be completed in March. Additionally, the majority of closeout sampling of the 618-10 Burial Ground was completed ahead of schedule, with performance claimed in prior periods, resulting in a current month unfavorable schedule variance. Also contributing to the negative variance is the impact on the schedule of the Garnet Filter Media Removal System (GFMRS) procurements, which were performed in prior periods. Furthermore, the 300-296 project continues to experience delays in procurement/fabrication of the mockup and 324 equipment resulting from design changes and fabrication difficulties. Moreover, 324 penetration sealing was impacted by delays/difficulties in work package development.

Also contributing to the negative schedule variance is PBS RL-0013 associated with planned FY2018 work scope completed in FY2017 for Large Box Repackaging; delays in W-135 detailed design for Capsule Storage Area (CSA) due to delayed subcontract award as a result of additional rounds of clarifications extending award into the previous holiday period; and Cask Storage System (CSS) detailed design due to a variance in the baseline and the contractor schedule, which is not anticipated to impact the design completion date. Based on the submitted and accepted subcontractor schedule, recovery is projected by the end of the second quarter.

The CM negative cost variance is primarily due to PBS RL-0011 recovery actions associated with a December, 2017 contamination event, including fixative applications, performance of radiological surveys, and stabilization activities to support resumption of demolition of the PFP are ongoing. Assignment of CHPRC corporate resources performing an independent assessment of the root cause analysis and corrective actions associated therewith and resources assigned to perform a CHPRC overarching Radiological Controls Assessment and PFP Project Specific Radiological Controls Assessment are also contributing to this variance. In addition, impacts from the contamination event and delay in demolition activities is causing needed extensions of project management hotel load resources to support the remaining D&D work scope until the facility completes demolition activities.

Also contributing to the negative cost variance is PBS RL-0030 due to the nearly $1.0 million in spending incurred in support of Pump and Treat (P&T) optimization (well drilling, well realignments, and document preparation), 100-NR-2 RI/FS rewrite, 200-DV-1 monitored natural attenuation evaluation and shallow soil characterization activities that are not yet planned in the PMB. Additionally, the Uranium Reactive Gas Sequestration (URGS) treatability test design and procurement of the equipment is more costly than planned. The equipment has taken longer to fabricate, requiring more CHPRC design support than originally planned due to safety analyses and hazard controls driven by the use of ammonia gas at the Hanford Site.

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

PBS	Project	FY2018 Projected Funding	FY2018 Spending Forecast	FY2018 Variance
Estimate at Complete				
RL-0011	Nuclear Materials Stabilization and Disposition	80.0	78.7	1.3
RL-0012	Spent Nuclear Fuel Stabilization and Disposition	38.7	30.5	8.3
RL-0012	15-D-401 Sludge Retrieval Project	28.8	16.3	12.5
RL-0013	Waste and Fuels Management Project	141.1	140.4	0.7
RL-0013	Management of Cesium and Strontium Capsules	6.5	1.4	5.1
RL-0030	Soil, Groundwater and Vadose Zone Remediation	114.3	108.0	6.2
RL-0040	Nuclear Facility D&D, Remainder of Hanford	60.3	35.3	25.0
RL-0041	Nuclear Facility D&D, River Corridor	143.6	153.3	(9.7)
RL-0042	Fast Flux Test Facility Closure	4.0	2.2	1.7
	Total Estimate at Complete	**617.3**	**566.1**	**51.2**
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	13.0	(13.0)
RL-0012	15-D-401 Sludge Retrieval Project	0.0	0.0	0.0
RL-0013	Waste and Fuels Management Project	0.0	(26.6)	26.6
RL-0013	Management of Cesium and Strontium Capsules	0.0	0.0	0.0
RL-0030	Soil, Groundwater and Vadose Zone Remediation	0.0	10.3	(10.3)
RL-0040	Nuclear Facility D&D, Remainder of Hanford	0.0	7.6	(7.6)
RL-0041	Nuclear Facility D&D, River Corridor	0.0	4.8	(4.8)
RL-0042	Fast Flux Test Facility Closure	0.0	0.0	0.0
	Total Incremental Work Scope	**0.0**	**9.1**	**(9.1)**
Total Fiscal Year Spend Forecast				
RL-0011	Nuclear Materials Stabilization and Disposition	80.0	78.7	1.3
RL-0012	Spent Nuclear Fuel Stabilization and Disposition	38.7	43.5	(4.7)
RL-0012	15-D-401 Sludge Retrieval Project	28.8	16.3	12.5
RL-0013	Waste and Fuels Management Project	141.1	113.8	27.3
RL-0013	Management of Cesium and Strontium Capsules	6.5	1.4	5.1
RL-0030	Soil, Groundwater and Vadose Zone Remediation	114.3	118.3	(4.1)
RL-0040	Nuclear Facility D&D, Remainder of Hanford	60.3	42.9	17.4
RL-0041	Nuclear Facility D&D, River Corridor	143.6	158.1	(14.5)
RL-0042	Fast Flux Test Facility Closure	4.0	2.2	1.7
	Total	**617.3**	**575.1**	**42.1**

Funds/Variance Analysis

For January, FY2018 projected funding was increased $39.8 million to align to potential budget levels as provided by RL for a revised expected funding level of $617.3 million. The spending forecast reduced overall by $4.3 million, to align with prior year funding adjustments in RL-0012, RL-0013, and RL-0030 to offset increased needs in RL-0011.

BASELINE CHANGE REQUESTS

In January 2018, CHPRC approved and implemented eight baseline change requests (BCRs) into the PMB. Five of the eight BCRs impacted the PMB. Each change request is identified in the table below:

Change Request #	Title	PBS	Summary of Change
BCR-000-18-002R0	*CO #321 Incorporate Remaining Work Scope for Hanford Site RCRA Permit Rev 9*	000	This BCR incorporated the additional scope for Change Order (CO) 321, *Management and Coordination for Reissuance of the Draft Hanford RCRA Site Wide Permit Revision 9.*
BCR-013-018-012R0	*Conversion of W-135 WESF Preparation Planning Packages*	RL-0013	This BCR converted a portion of the BCWS in the FY2018 planning package in WBS 013.25.02.07.01, *WESF Preparations,* into discrete planned work scope and returns the remaining BCWS to MR. This BCR decreased the PMB by $1,546K.
BCR-013C-18-011R0	*W-135 4-Month Scope Deferral Due to Line Item Funding Unavailability*	RL-0013	This BCR incorporated an additional four-month deferral of the Line Item scope for the WESF modifications design work planned to start at the beginning of calendar year 2018 in the PMB. This BCR decreased the PMB by $1,631K.
BCR-040-18-006R0	*Incorporate CO #311, Activities A and C-4 Remaining Work*	RL-0040	This BCR incorporated the additional scope associated for Change Order (CO) 311, *Emergency Response for Facility/Waste Site ESH&Q or Remediation.* This BCR increased the PMB by $909K.
BCR-040-18-007R0	*Implement Remaining Demolition Scope for CO #324*	RL-0040	This BCR incorporated additional scope to complete demolition of 222B, 217B, 292B, and 2716B as authorized by CO 324, *Miscellaneous PBS RL-0040 Work Scope.* This BCR increased the PMB by $369K.
BCR-041-18-011R0	*165KE Asbestos Abatement Convert PP, MR Draw and 165KE Demo Deduct*	RL-0041	This BCR converted the planning package in WBS 041.02.04.03.09 into discrete planned work scope, drew MR for in-scope unplanned work, and incorporated the scope deduction from the PMB of the 165KE demolition scope in WBS 041.02.04.03.09. This BCR decreased the PMB by $3,002K.
BCRA-PRC-18-011R0	*HPIC Updates January 2018*	000s, RL-0011, RL-0012, RL-0013, RL-0030, RL-0040, RL-0041, RL-0042	This BCR incorporated January FY2018 Hanford Programs Integrated Control Module (HPIC) updates. This BCR did not change the PMB value.

The Allocated (Distributed) Budget decreased by $4,901K.

Undistributed Budget Activity

BCR Number	Title	PBS	Fiscal Year	UB
BCR-PRC-18-010R0	*Undistributed Budget 2018*	RL-0013, RL-0040, RL-0041	2018	$5,972K

The Undistributed Budget increased by $5,972K.

Management Reserve Activity

BCR Number	Title	PBS	Fiscal Year	MR
BCR-013-018-012R0	*Conversion of W-135 WESF Preparation Planning Packages*	RL-0013	2018	$1,485K
BCR-041-18-011R0	*165KE Asbestos Abatement Convert PP, MR Draw and 165KE Demo Deduct*	RL-0041	2018	$-1,577K

Overall, there was a decrease in MR of $92K during January.

Fee Activity

BCR Number	Title	PBS	Fiscal Year	Fee
N/A	*N/A*	N/A	2018	N/A

Overall, there was no change to the fee during January.

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

January 2018 Summary of Changes

	FY 2009-2013	FY2014	FY2015	FY2016	FY2017	FY2018	FYs 2014-2018	Contract Period Total	Total PMB
December 2017 Estimate									
PMB	3,391,477	391,653	471,323	504,826	485,028	628,832	2,481,661	5,873,138	5,873,138
MR	0	0	0	0	0	49,567	49,567	49,567	49,567
Fee	155,504	14,325	14,501	27,804	10,612	18,860	86,101	241,605	241,605
Total	*3,546,981*	*405,978*	*485,824*	*532,630*	*495,639*	*697,259*	*2,617,329*	*6,164,310*	*6,164,310*
January 2018 Change									
PMB									
Change to PMB	*0*	*0*	*0*	*0*	*0*	*1,071*	*1,071*	*1,071*	*1,071*
MR									
Change to MR	*0*	*0*	*0*	*0*	*0*	*-92*	*-92*	*-92*	*-92*
Fee									
Change to Fee	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Total Change	*0*	*0*	*0*	*0*	*0*	*979*	*979*	*979*	*979*
January 2018 Estimate									
PMB	3,391,477	391,653	471,323	504,826	485,028	629,903	2,482,732	5,874,208	5,874,208
MR	0	0	0	0	0	49,475	49,475	49,475	49,475
Fee	155,504	14,325	14,501	27,804	10,612	18,860	86,101	241,605	241,605
Total	*3,546,981*	*405,978*	*485,824*	*532,630*	*495,639*	*698,237*	*2,618,308*	*6,165,289*	*6,165,289*

Changes to/Utilization of Management Reserve in January 2018

	FY2009-2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2014-2018	Total
December 2017 MR Totals								
RL-0011	0	0	0	0	0	5,988	5,988	5,988
RL-0012	0	0	0	0	0	9,885	9,885	9,885
RL-0013	0	0	0	0	0	2,241	2,241	2,241
RL-0030	0	0	0	0	0	18,415	18,415	18,415
RL-0040	0	0	0	0	0	382	382	382
RL-0041	0	0	0	0	0	12,474	12,474	12,474
RL-0042	0	0	0	0	0	183	183	183
Total	*0*	*0*	*0*	*0*	*0*	*49,567*	*49,567*	*49,567*
January 2018 MR Changes/Utilization								
RL-0011	0	0	0	0	0	0	0	0
RL-0012	0	0	0	0	0	0	0	0
RL-0013	0	0	0	0	0	1,485	1,485	1,485
RL-0030	0	0	0	0	0	0	0	0
RL-0040	0	0	0	0	0	0	0	0
RL-0041	0	0	0	0	0	(1,577)	-1,577	-1,577
RL-0042	0	0	0	0	0	0	0	0
Total	*0*	*0*	*0*	*0*	*0*	*-92*	*-92*	*-92*
January 2018 MR Totals								
RL-0011	0	0	0	0	0	5,988	5,988	5,988
RL-0012	0	0	0	0	0	9,885	9,885	9,885
RL-0013	0	0	0	0	0	3,725	3,725	3,725
RL-0030	0	0	0	0	0	18,415	18,415	18,415
RL-0040	0	0	0	0	0	382	382	382
RL-0041	0	0	0	0	0	10,897	10,897	10,897
RL-0042	0	0	0	0	0	183	183	183
Total	*0*	*0*	*0*	*0*	*0*	*49,475*	*49,475*	*49,475*

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 - 1/31/2018				Planned Subcontracting:	$2,720,084,369
				Contract-to-date awards:	$2,673,818,468
Reporting Category				Bal remaining to award:	$46,265,901
	$ Value	%	Goal %	Goal award$	Bal to Goal
SB	$1,501,657,477	56.16%	49.3%	$1,341,001,594	-$160,655,884
SDB	$285,718,546	10.69%	8.2%	$223,046,918	-$62,671,628
SWOB	$280,789,435	10.50%	7.5%	$204,006,328	-$76,783,108
HUB	$74,205,556	2.78%	2.2%	$59,841,856	-$14,363,700
VOSB	$214,533,187	8.02%	3.5%	$95,202,953	-$119,330,234
SDVO	$129,092,009	4.83%	1.3%	$35,361,097	-$93,730,913
NAB	$66,688,495	2.49%	N/A		
Large	$674,000,479	25.21%	N/A	PRC clause H.20 small business requirement	
GOVT	$4,145,157	0.16%	N/A	≥ 17% of CHPRC Contract Price performed by SB.	
GOVT CONT	$483,188,609	18.07%	N/A		
EDUCATION	$115,259	0.00%	N/A	CHPRC Contract Value:	$5,732,255,464
NONPROFIT_	$3,923,182	0.15%	N/A	17% rqmt:	$974,483,429
FOREIGN	$6,788,304	0.25%	N/A	SB actual:	$1,501,657,477
Total	$2,673,818,468	100.00%	N/A	Bal to rqmt	-$527,174,049

Notes:

1. Since the CHPRC contract award in October 2008, CHPRC has subcontracted over $2.6 billion in goods and services, with more than 56 percent going to small businesses. Nearly all subcontracting goals have been exceeded.
2. Approximately 91 percent of the total dollars arise from service and staffing contracts and contract amendments, with 6 percent of the remaining expenditures arising from PCard purchases and 3 percent from the balance in purchase orders for materials and equipment.
3. Data is summarized by business categories (Women Owned Minority Business Enterprise codes) in accordance with socioeconomic reporting requirements. Small business categories overlap and should not be added together.

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

Contract Section	Project	GFS/I	Status
CONTRACT			
J.12/C.2.2, C.2.3	PBS-11, Plutonium Finishing Plant Closure Project PBS-13, Solid and Liquid Waste Treatment and Disposal	Offsite Transportation of Radioactive Material: RL provides equipment and government drivers to transport transuranic (TRU) materials outbound/ inbound between the Hanford Site and Perma-Fix Northwest (PFNW) locations. RL is the authorized shipper and acts as signatory on the shipping papers and ensures DOE Manual 460.2-1 is complied with. RL arranges for Commercial Motor Vehicle Safety Alliance (CVSA) level VI vehicle inspections and verifies that the government drivers meet the applicable Department of Transportation (DOT) Federal Motor Carrier Safety Regulations (49 CFR 382 and 383). RL also inspects the load securement to ensure compliance with DOT regulations and/or Transportation Safety Document (TSD) requirements.	Ongoing
J.12/C.2.3.6	PBS-13, Transuranic Waste Certification	Waste Isolation Pilot Plant (WIPP) in Carlsbad, New Mexico: Provides shipping resources and manages the schedule for transportation of these containers to WIPP. The schedule is variable and the number of shipments is controlled by DOE-HQ on a complex-wide priority. Cost for shipment of TRU waste offsite is borne by the Carlsbad Field Office (CBFO).	No WIPP shipments are planned within the remaining 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)

K. A. Wooley
(Acting) Vice President for
Plutonium Finishing Plant
Closure Project

January 2018
CHPRC-2018-01, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

The Plutonium Finishing Plant (PFP) completed pre-demolition activities for 234-5Z facility on September 7, 2017, and demolition was initiated September 13, 2017, and is now 53 percent complete. All gloveboxes have been removed from E4 ventilation, and all preparations for demolition are complete. Initiation of demolition on the Plutonium Reclamation Facility (PRF) started in early November 2016, is ongoing, and is 87 percent complete. In December 2017, contamination was found at the PFP project outside of the trailers in the administrative office area during a follow-up survey conducted after a spread of low-level contamination was found on Friday, December 15, 2017, outside of the expanded demolition control zones. Work was stopped after the second event, pending completion of a root cause analysis and development of a recovery plan. CHPRC is working to finalize the root cause analysis and working with RL and regulators to develop a recovery plan to enable demolition activities to resume.

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

Significant accomplishments in January included:

- Recovery efforts to achieve stabilization are under way associated with the December 2017 contamination event. Efforts include:
  - Plating in MO-273 with pit run.
  - Downposting the High Contamination Area (HCA)/Airborne Radioactivity Area (ARA)/Contamination Area (CA) in the MO-273 Area.
  - Area around MO-273 has been roped off and signage posted.
- Initiated hauling of pit run and staging it on the east and west ends of the HCA/ARA.
- Routine application of fixatives.
- Routine radiological surveys.
- Extra radiological surveys when sustained winds were 20 miles per hour or greater.

Key Metrics

Key Performance Indicators	*Current Month*	*Contract To Date*
COMPLETE Glovebox/ Hood Removed or Dispositioned in Place	0	232 gloveboxes/hoods
COMPLETE KPP Rooms/Areas Ready for Demo	0	72 rooms/areas
COMPLETE Asbestos/Asbestos Containing Material (ACM) Removed	0	35,827
COMPLETE Process Vacuum Piping Dispositioned	0	7,231 feet
COMPLETE Process Transfer Line Dispositioned	0	1,525 feet
COMPLETE Pencil Tank Units Removed (Shipped)	0	196 pencil tank units
Buildings Ready for Demo	0	68 structures
Buildings Demolished or Removed	0	63 structures
Non-radioactive Waste Shipped	0 m^3	85 m^3
Transuranic/Transuranic Mixed (TRU/TRU-M) Shipped	0 m^3	3,191 m^3
LLW/MLLW Shipped	0 m^3	16,095 m^3

EMS Objectives and Target Status (Draft)

Objective #	Objective	Targets	Actions	Due Date	Status
18-EMS-PFP-OB1-T1	Minimize emissions resulting from demolition (including rubble management) of 234-5Z and 236Z.	Establish controls to minimize radioactive air emissions during PFP demolition activities and monitor the effectiveness of the controls.	Evaluate radioactive emissions on a weekly basis, identify if there are gaps in implementing the controls, and if the controls are effective when implemented. If problems are identified, ensure that prompt corrective actions are taken. Provide a monthly report on results and actions.		
			1. October Report	11/07/2017	100%
			2. November Report	12/07/2017	100%
			3. December Report	01/08/2018	100%
			4. January Report	02/07/2018	0%
			5. February Report	03/07/2018	0%

TARGET ZERO PERFORMANCE

(Reported on a calendar month basis.)

	Current Month	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	1	N/A
Total Recordable Injuries	0	2	N/A
First Aid Cases	3	56	01/10/18 – Employee was traversing along the east PFP fence line traveling between MO-273 and the Water Dog located in the south/east corner of the PFP demo area. The employee was traveling on top of a berm that was uneven and not compacted. While traversing along the berm, the employee caught his foot on a rock, which caused him to lunge forward a bit, twisting/catching his right knee. The event didn't cause any immediate discomfort. Discomfort was felt the next day, and the event was reported to the supervisor. (24711) 01/26/18 – Individual was applying diluted polymeric barrier system (approximately 50 percent) to south trailer visage with a handheld hose from a water truck. The day was windy and the individual was experiencing more blow back than expected. The diluted mixture managed to penetrate the PAPR hood through the seam and stitching and make contact with the individual's skin. After conversation with PFP OS&IH, the decision was

	Current Month	Rolling 12 Month	Comment
			made to take the individual to HPMC as a precautionary measure. No signs or symptoms were identified. No treatment was provided and the employee was returned to work without restrictions. (24723) 01/29/18 – Employee was on loan to PFP. While completing a verification survey of a maintenance call in the 27AAE vehicle shop, the employee bumped his head on a piece of grating, causing a small open wound to his forehead. He was seen at site medical, where wound/skin care was provided. He was released to return to work without restrictions. (24724)
Near Misses	0	0	N/A

KEY ACCOMPLISHMENTS

RL-0011 Accomplishments

PFP Waste Operations

- No waste was shipped during January while PFP was working recovery of the December 2017 contamination event.

Demolition Activities

- Recovery efforts to achieve stabilization are underway associated with the December 2017 contamination event. Efforts include:
  - Plating in MO-273 with pit run.
  - Downposting the High Contamination Area (HCA)/Airborne Radioactivity Area (ARA)/Contamination Area (CA) in the MO-273 Area.
  - Area around MO-273 has been roped off and signage posted.
- Initiated hauling of pit run and staging it on the east and west ends of the HCA/ARA.
- Routine application of fixatives.
- Routine radiological surveys.
- Extra radiological surveys when sustained winds are 20 miles per hour or greater.

MAJOR ISSUES

On December 18, 2017, contamination was found in the PFP project outside of the trailers in the administrative office area during a follow-up survey conducted after a spread of low-level contamination that was found on Friday, December 15, 2017, outside of the expanded demolition control zones. Surveys also found contamination on personal vehicles that had been driven off the Hanford Site. Work was stopped after the second event, pending completion of a root cause analysis, and development of corrective actions and a recovery plan. CHPRC continues the process of finalizing the root cause analysis and working with RL and regulators to develop a recovery plan to enable demolition activities to resume. Some of the activities that were performed during January were:

- Placement of sand and soil over contaminated debris and equipment to prevent further contamination spread.
- Radiological surveys, decontamination, and pressure washing to release trailers/vehicles/equipment.
- Implementation of additional radiological monitoring (i.e., CAMs, cookie sheets).
- Mobilization of supplies and equipment to maintain the PFP footprint in a safe configuration.
- Application of fixatives (i.e., paints, stabilization agents) to items and areas on the PFP work control zone.
- Maintenance, repair, and rebuild of existing equipment and systems in a safe/compliant configuration.
- Initiation of activities to reconfigure boundaries, canister transfer areas, loadout areas, and waste storage areas to accommodate larger work control zone.
- Reconfiguration of equipment in the PFP work control zone to support stabilization activities (water systems, foggers, etc.).

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

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

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

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

Increased Confidence
No Change
Decreased Confidence

Risk Title	Unmitigated Risk Impacts	Assessment		Comments
		Month	Trend	
RL-0011/WBS-011.OA				
Explanation of major changes to the project monthly stoplight chart: Risk PFP-DEMO-07, *Removal/Extraction of Equipment Takes Longer Than Planned*, was moved to the realized risk section of the stoplight chart to reflect the recent contamination event.				
Realized Risks (Risks that are currently impacting project cost/schedule)				
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:** Medium (26% to 74%) **Worst Case Impacts:** $3 million, 60 days			**Risk Event:** On Friday, December 15, 2017, swing shift RadCon personnel performing routine surveys following the day shift demolition activities discovered low-level contamination on a cookie sheet. This led to a wider search, and a **Risk recovery action(s)** / **FC Date** / **%** See Below / Ongoing / N/A "speck" of contamination was smeared from a government vehicle. **Risk Action Assessment:** A CHPRC management stop work on demolition activities was declared and a critique held to discuss the contamination spread, possible causes, and path forward. A root cause analysis is being conducted, and recovery actions and expected completion dates will be identified after it has been completed. One glovebox remains in the 234-5Z facility (HA-46) and will be removed once demolition resumes. During January a number of recovery actions from the contamination spread were initiated. They included: • Placement of sand and soil over contaminated debris and equipment to prevent further contamination spread. • Radiological surveys, decontamination, and pressure washing to release trailers/vehicles/equipment. • Implementation of additional radiological monitoring (i.e., CAMs, cookie sheets). • Mobilization of supplies and equipment to maintain the PFP footprint in a safe configuration. • Application of fixatives (i.e., paints, stabilization agents) to items and areas on the PFP work control zone.

<table>
<tr><td></td><td></td><td></td><td></td><td>

Maintenance, repair, and rebuild of existing equipment and systems in a safe/compliant configuration.
Initiation of activities to reconfigure boundaries, canister transfer areas, loadout areas, and waste storage areas to accommodate larger work control zone.
Reconfiguration of equipment in the PFP work control zone to support stabilization activities (water systems, foggers, etc.).

</td></tr>
<tr><td>PFP-DEMO-12: PFP/PRF Demolition Contamination Levels</td><td>Contamination levels on the canyon walls, floors, ventilation ducts, and the remaining areas of PFP will be higher than expected, thus requiring more stringent controls than expected or larger than expected waste volumes, resulting in cost impacts and schedule delays.
Risk Handling Strategy: Accept

Probability: Medium (26% to 74%)
Worst Case Impacts: $1.5 million, 22 days</td><td>  </td><td>  </td><td>
Risk Event: On Friday, December 15, 2017, swing shift RadCon personnel performing routine surveys following the day shift demolition activities discovered low-level contamination on a cookie sheet. This led to a wider search, and a “speck” of contamination was smeared from a government vehicle.
<table>
<tr><th>Risk recovery action(s)</th><th>FC Date</th><th>%</th></tr>
<tr><td>See Below</td><td>Ongoing</td><td>N/A</td></tr>
</table>
Risk Action Assessment:
A CHPRC management stop work on demolition activities was declared and a critique held to discuss the contamination spread, possible causes, and a path forward. A root cause analysis is being conducted and recovery actions and expected completion dates will be identified after it has been completed. During January, a number of recovery actions from the contamination spread were initiated. They include:

Placement of sand and soil over contaminated debris to prevent further contamination spread.
Radiological surveys, decontamination, and pressure washing to release trailers/vehicles/equipment.
Implementation of additional radiological monitoring (i.e., CAMs, cookie sheets).
Mobilization of supplies and equipment to maintain the PFP footprint in a safe configuration.
Application of fixatives (i.e., paints, stabilization agents) to items and areas on the PFP work control zone.
Maintenance, repair, and rebuild of existing equipment and systems in safe/compliant configuration.
Initiation of activities to reconfigure boundaries, canister transfer areas, loadout areas, and waste storage areas to accommodate larger work control zone.
Reconfiguration of equipment in the PFP work control zone to support stabilization activities (water systems, foggers, etc.).

</td></tr>
<tr><td>PFP-DEMO-16: Contamination Spread Beyond Established Boundaries</td><td>Unplanned transport of contamination from posted areas due to dust suppression liquid flow, natural events, or wildlife result in cost impacts and schedule delays.
Risk Handling Strategy: Accept

Probability: Medium (26% to 74%)
Worst Case Impacts: $3 million, 30 days</td><td>  </td><td>  </td><td>
Risk Event: On December 18, 2017, contamination was found in the project’s administrative office area during a follow-up survey conducted after a spread of low-level contamination was found on Friday, December 15, 2017, outside of the expanded control zones. Surveys also found contamination on personal vehicles that had been driven off the Hanford site.
<table>
<tr><th>Risk recovery action(s)</th><th>FC Date</th><th>%</th></tr>
<tr><td>See Below</td><td>Ongoing</td><td>N/A</td></tr>
</table>
Risk Action Assessment:
A CHPRC management stop work on demolition activities was declared and a critique held to discuss the contamination spread, possible causes, and path forward. A root cause analysis is being conducted, and recovery actions and expected completion dates will be identified after it has been completed. During January, a number of recovery actions from the contamination spread were initiated. They included:

Placement of sand and soil over contaminated debris to prevent further contamination spread.
Radiological surveys, decontamination, and pressure washing to release trailers/vehicles/equipment.
Implementation of additional radiological monitoring (i.e., CAMs, cookie sheets).
Mobilization of supplies and equipment to maintain the PFP footprint in a safe configuration.
Application of fixatives (i.e., paints, stabilization agents) to items and areas on the PFP work control zone.

</td></tr>
</table>

				• Maintenance, repair, and rebuild of existing equipment and systems in a safe/compliant configuration. • Initiation of activities to reconfigure boundaries, canister transfer areas, loadout areas, and waste storage areas to accommodate larger work control zone. • Reconfiguration of equipment in the PFP work control zone to support stabilization activities (water systems, foggers, etc.).
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)				
FY2018 Risk Triggers (Risk could be realized in FY2018)				
PFP-DEMO-05: Inclement Weather	Inclement weather, including moderate winds, low or high temperatures, and thunderstorms will impact the demolition of PFP. **Risk Handling Strategy:** Accept **Probability:** Medium (26% to 74%) **Worst Case Impacts:** $0K, 32 days *Cost increase will result in cost-per-day impacts from crews and hotel load.			**Risk Trigger:** Extreme cold temperature, accumulating snow showers resulting in site delays/closures, and high winds. **Mitigation action(s)** / **FC Date** / **%** Implement overtime (OT) shifts as necessary to mitigate further impacts associated with weather. / Ongoing / N/A **Mitigation Assessment:** During January, there were no weather impacts. However, the risk remains critical due to potential high-wind, winter weather delays, and cold temperatures having the ability to impact the planned demolition. The PFP project will continue to adjust the daily work scope to plan for projected weather impacts.
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)				
PFP-DEMO-21: Glovebox/Equipment Removal/Demolition Material	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 fiscal year (FY) 2018. **Mitigation action(s)** / **FC Date** / **%** None identified at this time. / N/A / N/A **Mitigation Assessment:** No major changes in January. The mitigation strategies have been put in place; as a result, the risk strategy is to accept with no further mitigation actions identified at this time. PFP will continue to adhere to the CHPRC Integrated Safety Management System (ISMS) program/hoisting and rigging program to include detailed analyses of potential hazards and identification of preventive measures to implement prior to starting the work. At this time, no alternative course of actions are needed. One glovebox remains in the 234-5Z facility (HA-46) and will be removed once demolition resumes.
Unassigned Risks (Pending ownership of identified risks/opportunities)				
No unassigned risks identified in January.				

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	0.0	0.0	4.4	(0.0)	-100.0%	(4.4)	0.0%

Numbers are rounded to the nearest $0.1 million.

CM Schedule Variance: (-$0.0M/-100.0%)

The current month schedule variance is associated with recovery actions as a direct result of a contamination event that occurred on December 15, 2017. Actions include fixative applications and performance of radiological surveys. Stabilization efforts are under way and are expected to be completed early February, after which initiation of corrective actions identified from the root cause analysis of the event will be completed prior to resumption of demolition activities at PFP.

CM Cost Variance: (-$4.4M/0.0%)

The current month negative cost variance is primarily due to the recovery actions associated with a December 2017 contamination event, including fixative applications, performance of radiological surveys, and stabilization activities to support resumption of demolition of PFP are ongoing. Assignment of CHPRC corporate resources performing an independent assessment of the Root Cause Analysis and corrective actions associated therewith and resources assigned to perform a CHPRC overarching Radiological Controls Assessment and PFP project specific radiological controls assessment are also contributing to this variance. In addition, impacts from the contamination event and delay in demolition activities is causing needed extensions of project management hotel load resources, without BCWS, to support the remaining D&D work scope until the facility completes demolition activities.

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)	Estimate to Complete (ETC)	Variance at Completion (VAC)
Total	988.5	973.0	1,089.4	(15.6)	-1.6%	(116.4)	-12.0%	988.7	1,152.0	62.6	(163.3)

Numbers are rounded to the nearest $0.1 million

Contract-to-Date (CTD) Schedule Variance (-$15.6M/-1.6%)

The CTD schedule variance is within threshold.

CTD Cost Variance (-$116.4M/-12.0%)

The negative CTD cost variance is primarily a result of prior year unrecoverable costs, as well as impacts to the D&D work scope and extending level of effort (LOE) and support services, consistent with delayed activities, in support of completing Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) Milestone M-083-00A. In addition, unplanned costs to support implementation of efficiency

initiatives at PFP (i.e., foaming and PremAire Breathing Air), and increased training as a result of assignment of new Health Physics Technicians (HPT) 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 that was recently identified for removal (about 10,000 feet). Additional unplanned shipping materials (waste shipping containers TL-1800s, SLB2s, IP-1 bags, etc.) were also required to support waste loadout activities for TRU waste disposition efforts. Unplanned shipments to PermaFix Northwest (PFNW) for the size reduction of 236-Z gloveboxes (i.e., galleries and MT-4), size reduction of special-handled items from 234-5Z (i.e., filterboxes, 227S and 227T gloveboxes), and E4 ducting in 234-5Z have caused additional costs to support ready-for-demo activities, which is also contributing to the unfavorable variance. Finally, unplanned work on the High Density Polyethylene (HDPE) water loop is also contributing to this variance.

Recovery actions associated with a December 2017 contamination event, including fixative applications, performance of radiological surveys, and stabilization activities to support resumption of demolition of the PFP, are ongoing. Assignment of CHPRC corporate resources performing an independent assessment of the Root Cause Analysis and corrective actions associated therewith and resources assigned to perform a CHPRC overarching Radiological Controls Assessment and PFP Project specific radiological controls assessment are also contributing to this variance.

The negative cost variance is partially offset by using fewer breathing air suits and hoses than originally planned for 242-Z entries. This is a result of fewer fieldwork team members being required to perform hands-on work in 242-Z because of the confined space and number of suits (three suits per day versus five). In addition, there were recognized efficiencies where crews were able to complete process vacuum removal in 291-Z with less effort than originally planned. Characterization results indicated lower levels of hold-up than planned, which allowed more efficient piping removal. Isolations of the 291-Z facility have also proved to take less time than anticipated due to the main electrical power being cut outside of the building rather than performing individual isolations within the facility. Hazardous material removal and decontamination/fixative applications demonstrated effective with less effort than originally planned using more efficient methods (e.g., using powerful fans to assist with vertical fixative flow up the stack).

In addition, implementation of a baseline change request (BCR) that was processed in September 2017 to draw down on RL contingency to recover the cost impacts to the RL-0011 C.2 project associated with realization of the RL risks. Areas that were impacted were associated with weather delays, stop works, PRF contamination events, and MSA resources retained to prevent bump and roll impacts. Recognition of efficiencies associated with demolition of 242-Z, 291-Z, and 234-5ZA are also contributing to the offset of the negative variance. During December, a contamination event occurred, resulting in a CHPRC management stop work impacting demolition activities until a recovery plan has been generated and corrective actions implemented therewith.

Variance at Completion (-$163.3M/-16.5%)
The Variance at Completion (VAC) unfavorable variance is reflective of a previous inability to achieve 20 percent increased efficiency associated with time on respirator as assumed in the baseline plan. The Collective Bargaining Agreement was accepted, and efficiencies are continuing to be recognized with more time on mask and implementation of the value engineering initiatives associated with high-mass gloveboxes and grouting. Extended hotel loading costs because of delays in demolition-ready and demolition activities caused by issues identified in the CTD schedule variance above are also driving the negative VAC.

As a result of wall removals and electrical isolations, it was discovered that approximately 10,000 feet of additional asbestos was between the walls that would need to be removed. This is a recognized risk (PFP-

092-02) and has been incorporated into the VAC. Of note, CHPRC is working with RL to utilize contingency for the additional 10,000 feet of asbestos identified during walkdowns and inspections, impacts from the criticality alarm, and relief from the 30 days of weather delays experienced from December 2016 through March 2017.

Finally, overtime was used to ready the 234-5Z facility for demolition by September 2017. Also, unplanned work on the HDPE water loop is contributing to this variance. This unfavorable variance is partially offset by recognized efficiencies due to characterization data in the 234-5Z duct level, allowing piping and ducting to be left in place for demolition and the 291-Z demolition activities. The Estimate at Completion (EAC) and VAC is reflective of the projected date in mid-December 2017 to reach slab-on-grade no later than December 29, 2017, which did not occur due to the contamination event that occurred on December 17, 2017, resulting in a CHPRC management stop work. A more accurate EAC and projected VAC cannot be developed until completion and approval of a recovery plan addressing the root causes of the unplanned releases.

Contract Performance Report Formats are provided in Appendix A.

FUNDS vs. SPEND FORECAST ($M)

	FY2018		
WBS 011/RL-0011 Nuclear Matl Stab & Disp PFP	**Projected Funding**	**Spending Forecast**	**Variance**
Spending Forecast	80.0	78.7	1.3
Incremental Scope Pending Change Management	0.0	0.0	0.0
RL-0011 - Total	80.0	78.7	1.3

Numbers are rounded to the nearest $0.1 million

Funds/Variance Analysis

Fiscal year (FY) 2018 expected required funding for the project breakdown structure (PBS) RL-0011 is $78.7 million to allow for completion of demolition activities to achieve slab-on-grade, CD-4 closeout activities, and PFP project closeout. Projected funding is $80.0 million.

Critical Path Schedule

The PFP Critical Path schedule begins with the continuation of front side demo CSZ 2.5 in 234-5Z. After front side CSZ 2.5 is complete, RMC process line and RMA process line demo will come next, followed by completion of the basement of 234-5Z demolition. The 234-5Z demolition completes July 9, 2018. The 236-Z canyon demolition will then resume with completion scheduled for an August 29, 2018, meeting about the requirements for the Tri-Party Agreement Milestone – M-083-00A – PFP Facility Transition and Selection Disposition Activities. Completion of demolition is followed by site stabilization and demobilization, turnover to surveillance and maintenance, and project closeout activities completing November 20, 2018. The dates above are reflective of the known actions and recovery efforts associated with a contamination event that occurred in December as of January month-end closing and will be updated as more information is made available from the Root Cause Analysis and recovery plan.

MILESTONE STATUS

Tri-Party Agreement milestones represent significant events in project execution. RL Enforceable Agreement milestones were established to provide high-level visibility to critical deliverables and specific status on the accomplishment of these key events. The performance measurement baseline (PMB) annual update, implemented in September 2013, and subsequently approved BCRs, define CHPRC planning with respect to Tri-Party Agreement milestones. The following table is a 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		8/29/18	On Friday, December 15, 2017, swing shift RadCon personnel performing routine surveys following the day shift demolition activities discovered low-level contamination on a cookie sheet. This led to a wider search, and a "speck" of contamination was smeared from a government vehicle. A CHPRC management stop work on demolition activities was declared and a critique held to discuss the contamination spread, possible causes, and path forward. A root cause analysis is being conducted and recovery actions and expected completion dates will be identified after it has been completed. A total of 83 days were lost on schedule in January due to identified corrective actions required to re-start demolition activities at PFP.

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

Contract Section	Project	GFS/I	Status
CONTRACT			
J.12/C.2.2, C.2.3	PBS RL-0011, Plutonium Finishing Plant Closure Project	Offsite transportation of radioactive material: RL provides equipment and government drivers to transport TRU materials outbound/inbound between the Hanford Site and PFNW locations. RL is the authorized shipper and acts as signatory on the shipping papers, and ensures DOE Manual 460.2-1 is complied with. RL arranges for Commercial Motor Vehicle Safety Alliance (CVSA) level VI vehicle inspections and verifies that the government drivers meet the applicable Department of Transportation (DOT) Federal Motor Carrier Safety Regulations (49 CFR 382 and 383). RL also inspects the load securement to ensure compliance with DOT regulations and/or Transportation Safety Document (TSD) requirements.	Ongoing

DOE ACTIONS / DECISIONS

None at this time.

Section B
Spent Nuclear Fuel Stabilization and Disposition (RL-0012)

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

M. A. Wright
Vice President for
Project Technical
Services

January 2018
CHPRC-2018-01, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

Operational Acceptance Testing (OAT) continued with the sludge removal team completing validation of the primary sludge removal operations procedures and associated on-the-job evaluations (OJEs). Workers who will operate the sludge removal system are now focusing on operational performance demonstrations and drills to enhance proficiency. Declaration of Readiness to initiate Contractor Operational Readiness Review (ORR) is forecast for January 22, 2018.

Plans to get the center bay high-dose material added to engineered container SCS-CON-210 remain on hold pending modification to the telescoping stiff back (TSB) to add a new swivel component. The swivel is forecast to be delivered to 100K in late January. Following installation of the new component on the basin TSB, resources will be scheduled to containerize the high-dose material following retrieval of sludge into the first Sludge Transport and Storage Container (STSC), currently scheduled for May 2018.

The T Plant team completed their Readiness Assessment (RA) for the receipt and storage of K Basin sludge on December 21, 2017, with two pre-start findings and one post-start finding. Following resolution of all pre-start punchlist items and RA findings/observations, the Startup Approval Authority will approve T Plant to receive sludge shipments. Approval is forecast in February 2018.

Project breakdown structure (PBS) RL-0012 scope is 96.6 percent complete, with a cumulative schedule performance index (SPI) of 1.00 and a Cost Performance Index (CPI) of 1.04.

EMS OBJECTIVES AND TARGET STATUS

None currently identified.

TARGET ZERO PERFORMANCE

(Reported on a calendar month basis.)

	CM Quantity	Rolling 12 Month	Comment
Dart Injuries	0	1	N/A
Recordable Injuries	0	0	N/A
First Aids	0	13	N/A
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 relocation activities in 105KW Basin and performance of several monthly and quarterly routines during the period.

KW Basin Sludge Removal Capital Asset Project

- KPAT
  - The team continues working on producing the K Basin Pre-operational Acceptance Testing (KPAT) test report, currently forecast to be released in late February 2018.
- Readiness
  - The Implementation Plan (IP) was approved by the Contractor ORR Team Lead on January 3, 2018.
  - Operations personnel continued with demonstrations and drills. The team initiated a "full and final dress rehearsal" to simulate the entire process of loading a STSC with sludge. The team staged the Sludge Transportation System (STS) trailer and completed Task 1, *STSC Preparation*. Once satisfactory proficiency is established and the remaining readiness affidavits are approved, the K Basin Operations and Plateau Remediation (KBO&PR) vice president will declare Sludge Removal Project (SRP) readiness to the CHPRC president, forecasted for January 22, 2018.
- Engineered Container Retrieval and Transfer System (ECRTS) Activity Readiness Plan (ARP)/Readiness Self-Assessments (RSAs) were updated to be consistent with the Plan of Action (POA) approved by DOE-HQ. The CHPRC 100K Readiness Review Board (RRB) successfully approved 19 of 22 RSA affidavits. The three remaining RSA affidavits are scheduled for approval on January 22, 2018, following completion of the Operations Demonstration.
- Receipt of STSC assemblies of production run number 2 (Vessels 14-24) are forecasted to be delivered on January 29, 2018, completing (PM-12-1-18).
- A draft of the CHPRC SRP critical decision (CD)-4 submittal was reviewed with the RL Federal Project Director (FPD) and Deputy FPD. Comments were provided and CHPRC personnel are incorporating those comments. A final draft is forecast to be provided to the RL FPD and Deputy FPD in February.

T Plant Preparations

- The T Plant team completed all prerequisites for readiness and completed their Readiness Assessment (RA) on December 21, 2017. Following resolution of all pre-start punchlist items and RA findings and observations, the Startup Approval Authority will approve T Plant to receive sludge shipments, currently forecasted for February 2018.

MAJOR ISSUES

No major issues to report at this time.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

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

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

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

Increased Confidence
No Change
Decreased Confidence

	Unmitigated Risk Impacts	Assessment		Comments
		Month	Trend	
RL-0012/WBS-012				
Explanation of major changes to the project monthly stoplight chart: No major changes in January.				
Realized Risks (Risks that are currently impacting project cost/schedule)				
No realized risks identified in January.				
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)				
No critical risks identified in January.				
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)				
FY2018 Risk Triggers (Risk could be realized in FY2018)				
STP-018-O: STP Operational Upset or Spill - During first STSC	An operational upset or spill results in a work shutdown at K Basin, resulting in schedule delays. **Risk Handling Strategy:** Control **Probability:** Low (10% to 25 %) **Worst Case Impacts:** $2 million, 48 days			**Risk Triggers:** 1) An operational upset or spill results in work shutdown at K Basin. This risk will commence in fiscal year (FY) 2018 and continue throughout the project lifecycle until the sludge is removed from 105KW Basin. **Mitigation action(s)** / **FC Date** / **%** Conduct rigorous startup testing following system installation at the 105KW Basin and Annex. / Complete / 100 Conduct testing and training at Maintenance and Storage Facility (MASF) and develop procedures that use the information and knowledge gained during the activity for use at the KW Basin. / Complete / 100 Installation of camera systems to allow operations and radiation protection management to monitor operation dry runs to ensure appropriate discipline, and personal protective equipment (PPE) are used to complete STSC connect/disconnect evolutions is in process. / Complete / 100 **Mitigation Assessment:** No major changes in January. Training, procedure development, and RSA affidavits were completed and CHPRC plans to declare readiness for Sludge Removal Operations on January 22, 2018. Authorization to commence operations is forecast in April 2018.
STP-073-C: Processing Efficiency - Retrieval & Shipping	The realized processing efficiency associated with sludge retrieval and shipping operations does not match the baseline plan. **Risk Handling Strategy:** Accept **Probability:** Low (10% to 25%) **Worst Case Impacts:** $0K, 48 days			**Risk Triggers:** Actual processing efficiency associated with sludge retrieval and shipping operations does not match baseline assumptions. In addition, Management Directive PRC-MD-RP-53085, Suspension of 67% Confidence Level Surveys was issued. The MD requires radiological clearance surveys "shall be at the 95% confidence level" and implemented with oversight provided by Radiological Protection management or Health Physicists. Potentially increasing overall STSC processing times. This risk will commence in FY2018, beginning with operations campaign. **Mitigation action(s)** / **FC Date** / **%** None identified at this time. / N/A / N/A **Mitigation Assessment:** No major changes in January. Project personnel are working on a revised plan to establish the appropriate campaign schedule, taking into account Ion exchange module (IXM) change outs and performance of preventive maintenance activities.
Unassigned Risks (Pending ownership of identified threats/opportunities)				

	Unmitigated Risk Impacts	Assessment		Comments
		Month	Trend	
RL-0012/WBS-012				
CHPRC proposed five risks that are outside of CHPRC's ability to manage and, as such, should be re-assigned to RL (STP-011D, STP-018, STP-073, STP-073-A, and STP-073-B). The proposal was not accepted by RL, stating, "the opportunities and threats appear to be under the control of CHPRC to manage." CHPRC submitted letter CHPRC-1602146 R1 on August 30, 2016, in response to RL's rejection letter. On March 14, 2017, CHPRC received Correspondence Number 1701045 providing direction to accelerate the capital portion of the SRP. The risks listed, however, are for the non-capital scope. If contract direction is given to accommodate the acceleration opportunities to the SRP non-capital scope and the transfer of all sludge to T Plant is incorporated into FY2018, then CHPRC would re-assume ownership of these risks once change is definitized. As part of the FY2018 annual update, risks were re-evaluated and used as the basis for the risk analysis.				

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	2.8	3.1	3.4	0.4	13.0%	(0.2)	-8.0%

Numbers are rounded to the nearest $0.1 million

CM Schedule Performance (+$0.4M/+13.0%)
The variance is within reporting thresholds.

CM Cost Performance (-0.2M/-8.0%)
The variance is within reporting thresholds.

Contract-to-Date

($M)

RL-0012 Spent Nuclear Fuel Stabilization and Disposition	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance ($)	Schedule Variance (%)	Cost Variance ($)	Cost Variance (%)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Estimate to Complete (ETC)	Variance at Completion (VAC)
Total	715.5	715.4	683.4	(0.1)	-0.0%	31.9	4.5%	740.4	706.9	23.5	33.4

Numbers are rounded to the nearest $0.1 million

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

CTD Cost Performance (+$31.9M/+4.5%)
The variance is within reporting thresholds.

Variance at Completion (+$33.4M/+4.5%)
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	FY2018 Projected Funding	FY2018 Spending Forecast	FY2018 Variance
Expense - Spending Forecast	38.7	30.5	8.3
Incremental Scope Pending Change Management	0.0	13.0	(13.0)
Expense – Subtotal	38.7	43.5	(4.7)
Line Item (LI)	28.8	16.3	12.5
Incremental Scope Pending Change Management	0.0	0.0	(0.0)
LI –Subtotal	28.8	16.3	12.5
RL-0012 – Total	**67.5**	**59.8**	**7.8**

Numbers are rounded to the nearest $0.1 million.

Funds/Variance Analysis

FY2018 funding for PBS RL-0012 is $67.5 million. Negative variance of $4.7 million in expense funding is based on potential funding levels provided by RL as well as unplanned overtime to date, hiring of additional personnel to support retrieval operations, and reduction in the allocation of funds. The project is analyzing spend forecast in an effort to meet project funding. Positive variance in the Line Item (LI) is the result of efficiencies gained due to acceleration of the installation activities and risk mitigation efforts reducing the need for contingency and management reserve.

Critical Path Schedule

The critical path runs through completion of operations demonstrations, drills, and the completion of Readiness Self-Assessment Affidavits. Following successful contractor and RL ORRs, the project schedule reflects RL providing authorization to commence retrieval operations following the review and approval of the SRP CD-4 submittal in parallel with review/approval of the CHPRC "Request for Startup Approval" letter. Completing retrieval operations, including the filling of STSCs with sludge and transporting them to T Plant, to complete Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) Milestone M-016-176, *Complete Sludge Removal from 105-KW Fuels Storage Basin*, is required by September 2019. However, the Sludge Treatment Project (STP) team has modified the field execution schedule (FES) to implement acceleration opportunities to the extent practicable.

MILESTONE STATUS

Tri-Party Agreement milestones represent significant events in project execution. RL Enforceable Agreement (EA) milestones were established to provide high-level visibility to critical deliverables and specific status on the accomplishment of these key events. The performance measurement baseline (PMB) annual update, implemented in September 2013, and subsequently approved baseline change 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		4/13/2018	The forecast date does not include schedule margin from the project's risk analysis and assumes CD-4 is not required to begin sludge removal.

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.

DOE ACTIONS / DECISIONS

Description	CHPRC Delivery Date	Expected RL Due Date
RL POA Issued and Distributed	01/29/18	02/23/18
RL IP Issued	02/26/18	03/05/18
RL Perform ORR - Team Lead	03/19/18	03/30/18
RL Issue Findings / Discrepancy List	04/02/18	04/06/18
DOE Approve CD-4 Submittal Package	04/16/18	04/30/18
RL Approve Request for Startup Letter	04/17/18	04/30/18

Section C
Solid Waste Stabilization and Disposition (RL-0013)

K. R. Shupe
(Acting) Vice President for
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Management Project

January 2018
CHPRC-2018-01, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

M. A. Wright
Vice President for
Project Technical
Services

PROJECT SUMMARY

During the January reporting period, December 25, 2017 – January 21, 2018, Waste and Fuels Management Project (W&FMP) maintained facilities in a safe and compliant condition. Overall, the project continues to deliver ongoing efficiencies that were identified in the fiscal year (FY) 2012-2013 time frame, but continues to be impacted by emerging work and realized risks.

This month:

- Management of Cesium and Strontium Capsule (MCSC) Project (W-135): The Conceptual Safety Validation Report (CSVR) for the Capsule Storage Area (CSA) was issued by RL. The Cask Storage System (CSS) design is on-going. Shielding and thermal modeling for the CSS is underway and scheduled to complete in mid-February. The project received welding equipment planned for reuse at Hanford from West Valley.
- The Hanford Federal Facility Agreement and Consent Order Tri-Party Agreement Milestone M-091-03 Revision 21 was transmitted to RL. Responses to Ecology's comments on Revision 20 were incorporated. Tri-Party Agreement Change Control form M-91-17-02 was approved, which completes support activities for Tri-Party Agreement Milestone M-091-52.
- Canister Storage Building (CSB) base operations completed the Multi-Canister Overpack (MCO) sample mockup/simulator fabrication. The completion of procedure reviews and sample mockup performance is planned for March.
- At T Plant, the sludge receipt team continues work to resolve Readiness Assessment (RA) prestart findings and punchlist items.

EMS Objectives and Target Status (Draft)

Objective #	Objective	Target	Due Date	Status
18-EMS-WFMP-OB1-T1	Reuse equipment from West Valley DOE site/conserve resources/minimize waste.	Reuse West Valley equipment for Cesium (Cs) and Strontium (Sr) capsule storage. Receive, manage, and utilize equipment as received.	9/30/18	45%
18-EMS-WFMP-OB2-T1	Chemical management compliance.	Evaluate the process for chemical management at CSB and T Plant. Perform an assessment on chemical inventory locations.	9/30/18	25%
18-EMS-WFMP-OB3-T1	Improve compliance.	Identify implementing mechanisms and gaps for low-level burial ground (LLBG) compliance matrix requirements at the project level.	9/30/18	0%
18-EMS-WFMP-OB4-T1	Reduce environmental impact of contaminants along the Columbia River and minimize accompanying risks.	Complete T Plant RA and Master Documented Safety Analysis (MDSA) Revision 12 implementation in order to prepare for sludge receipt at T Plant.	9/30/18	50%

TARGET ZERO PERFORMANCE

(Reported on a calendar month basis.)

	CM Quantity	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	0	
Total Recordable Injuries	0	0	
First Aid Cases	1	*18	1/8/18 – Employee was walking when right knee seized up causing pain. (24709) *One First Aid case; PTS in support of RL-0013.
Near Misses	0	0	N/A

KEY ACCOMPLISHMENTS

13.01 Project Management

- Performed/Completed:
  - Current Consent Agreement and Final Order (CAFO) document development status: Ecology is requiring that a Data Quality Objectives (DQO) section be added to each closure plan. The project provided an outline detailing where all of the required information was addressed in each section. A path forward was agreed upon by CHPRC, RL, and Ecology and is being implemented in the documents.
  - Ecology notified RL and CHPRC that they have accepted the proposed changes to the Solid Waste Operations Complex (SWOC) Part B Security and Part A Addenda, and these files are finalized and transmitted to RL.

13.02 Capsule Storage & Disposition

- Performed/Completed:
  - Roof repair on 225BE.
- Completed Surveillances/Preventive Maintenance (PM):
  - 27 PM packages.

13.03 Canister Storage Building (CSB)

- Performed/Completed:
  - MCO sample mockup/simulator fabrication. Completion of procedure reviews and sample mockup performance is planned for March.
- Completed Surveillances/PMs:
  - 19 PM packages.

13.06 Transuranic (TRU) Repackaging

- Performed/Completed:
- M-091 Tri-Party Agreement Milestones:
  - Tri-Party Agreement M-091-03 Revision 21 was transmitted to RL, including incorporation of responses to Ecology's comments on Revision 20.

- Tri-Party Agreement Change Control form M-091-17-02 was approved, which completes support activities for Tri-Party Agreement Milestone M-091-52.

- Repackaging:
  - One return shipment of M-091 legacy suspect transuranic mixed (TRUM) waste was received from Perma-Fix Northwest (PFNW) into Central Waste Complex (CWC) contributing 5.1 cubic meters (m3) toward the next Tri-Party Agreement objective. To date, 86.75m^3 has been completed for the Tri-Party Agreement milestone objective.
- Shipments shipped:
  - Two Plutonium Finishing Plant (PFP) 1800TLs from CWC/ Waste Receiving and Processing (WRAP) to PFNW in two shipments.

13.07 Waste Receiving and Processing (WRAP)

- Completed Surveillances/PMs:
  - 152 surveillances.
  - 11 PM packages.

13.08 T Plant

- Performed/Completed:
  - Parking lot repair.
  - Repair of MO-739 stairs.
- Completed Surveillances/PMs:
  - 473 surveillances.
  - 27 PM packages.

Sludge Receipt

- Performed/Completed:
  - Receipt of four new (empty) Sludge Transport and Storage Containers (STSCs).
  - Team continues work to resolve RA prestart findings and punchlist items.

13.09 Central Waste Complex and Low-level Burial Ground (LLBG)

- Performed/Completed:
  - Lighting upgrades to 2402WK.
- Completed Surveillances/PMs:
  - 261 surveillances.
  - 22 PM packages.
- Shipments received:
  - Thirteen Solid Waste Boxes (SWBs) from PFNW into CWC in four shipments.

13.12 Integrated Disposal Facility (IDF)

- Performed/Completed:
  - Monthly inspections.

13.15 TRU Disposition

- Performed/Completed:
  - TRU program procedures and waste management procedures impacted by Waste Isolation Pilot Plant (WIPP) Waste Acceptance Criteria (WAC), Revision 8, were issued as part of the implementation of the Hanford Solid Waste Acceptance Criteria.
  - Continued evaluation of the first TRU waste stream for WIPP WAC, Revision 8, requirements.
  - Commenced evaluation of the second TRU waste stream for WIPP WAC, Revision 8, requirements.

13.16 Offsite Spent Nuclear Fuel Disposition

- Performed/Completed:
  - Maintained coordination for offsite Spent Nuclear Fuel Disposition.

13.21 Mixed Waste Disposal Trenches (MWT)

- Completed Surveillances/PMs:

- 115 surveillances.
- Shipments received:
  - Three boxes from PFNW into MWT31 in one shipment.

13.24 Management of Cesium and Strontium Capsules Project

- Performed/Completed:
  - CSA Design: Preliminary design is on-going. Work during the month was focused on site layout and seismic analysis.
  - Nuclear Safety: The CSVR for the CSA was issued by RL. The project prepared dispositions for RL comments and submitted to RL for review.

13.25 Capsules Interim Storage Operations

- Performed/Completed:
  - CSS design: The CSS design is on-going. Shielding and thermal modeling for the CSS is underway and scheduled to complete in mid-February. Design activities are proceeding on the Waste Encapsulation and Storage Facility (WESF) G cell and truck port equipment.
  - Engineering: Initiated training for capsule dimension checks at Maintenance and Storage Facility (MASF). All material was received, and fabrication of the operational tool is scheduled to complete by the end of February.
  - Welding equipment from West Valley was received for reuse at Hanford.

Project Technical Services (PTS) Support

- Project Delivery
  - Placed contract with Apollo to perform modifications to CSB Air Handling unit 004.
    - Preconstruction activities and planning commenced.
  - Total Site Services (TSS) subcontractor mobilized for roof repairs at CWC and WRAP.
    - Commenced repair work on 2404-WB.

MAJOR ISSUES

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

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

Status:
RL provided a justification to Ecology for why an EA is not needed on July 10, 2017. RL is preparing and issuing a ROD amendment.

A revised permitting strategy was issued by RL and Ecology. The strategy indicates Ecology agrees that additional SEPA coverage is not required and RL will issue a ROD amendment.

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

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

Status:
RL met with Ecology on June 22, 2017, and requested additional information regarding the need for the more detailed design. The permit application was formally submitted to Ecology on November 21, 2017, with the 30 percent design information. The project awaits comments on the permit application.

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

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

Status:
CHPRC and RL met with Ecology inspectors regarding this item, and the parties agreed to elevate the issue to management for resolution. Ecology is working through the rule-making process to incorporate these requirements into the regulations but continues to identify this issue in recent inspections. The project continues to await direction from RL.

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

Corrective Action:
Significant risk remains. TRU disposition activities would prepare the contents of these containers in a configuration suitable for eventual disposal at the WIPP. The configuration would also mitigate/eliminate the risk and additional cost for long-term management of these containers.

Status:
Continuing to use the best demonstrated available technology to provide adequate configuration and minimize the potential for contamination spread during the long-term storage (i.e., protecting boxes with tarps or protective shoring; overpacking drums). Streamlined and consolidated container management procedures. RL authorized the additional fiscal year (FY) 2018 TRU commercial repackaging, allowing shipments to PFNW for repackaging to continue throughout the year.

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

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

Status:
RL provided direction to MSA to remedy the majority of the issue with a modification at the source by MSA versus modifications at each facility. Description and preliminary schedule for WESF potable water facility modifications is required, unless RL approves an alternate (no action) approach transmitted on July 6, 2016 (CHPRC-1602928). The project continues to await RL direction for sanitary water system facility modifications. Additionally, the MSA water purveyor plans to perform the annual cross-connection review. Based on that review, additional correspondence to RL to communicate any changes to the condition may be prepared.

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-0013/WBS-013				
Explanation of major changes to the project monthly stoplight chart: Risk WSD-143, *Safety Classification of SSCs - MDSA Revision 12*, was closed and removed from the stoplight chart, as the risk no longer poses a threat to the project.				
Realized Risks (Risks that are currently impacting project cost/schedule)				
WSD-125: Multi-Year Pause in Waste Processing Results in Unexpected Container Integrity Issues	A pause in waste processing results in an unexpected container degradation within SWOC (excluding TRU retrieval activities) and requires additional resources to respond. **Risk Handling Strategy:** Accept **Probability:** Likely (75% to 90%) **Worst Case Impacts:** $5 million, 0 day			**Risk Event:** In November 2011, degraded containers were discovered in CWC. **Recovery Action Assessment:** No significant changes in January. The project continued to perform container surveillances in January to identify container and container cover abnormalities. Twenty-four containers in 2404WC had signs of exterior corrosion that were placed on the watch list and were scheduled for overpack. The delivery of the stainless steel overpacks is complete, and the overpack of the 24 was complete on October 18, 2017. The project completed the overpack of storage box 75DMA16F3 and determined that its current location is adequate from a storage perspective. RL authorized additional FY2018 TRU commercial repacking, allowing shipments to PFNW for repackaging to continue. The remaining containers will continue to require surveillance and enhanced monitoring.

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
Procuring stainless steel 85-gallon overpacks for alternative storage of containers showing signs of degradation.		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)				

<table>
<tr><th rowspan="2">Risk Title</th><th rowspan="2">Unmitigated Risk Impacts</th><th colspan="2">Assessment</th><th rowspan="2">Comments</th></tr>
<tr><th>Month</th><th>Trend</th></tr>
<tr><td colspan="5">RL-0013/WBS-013</td></tr>
<tr><td>WSD-097: Major Equipment Failure - T-Plant</td><td>T Plant suffers a major equipment failure (crane, primary power supply, etc.), resulting in cost impacts and schedule delays.

Risk Handling Strategy: Accept

Probability: Medium (26% to 74%)
Worst Case Impacts: $3 million, 96 days</td><td>  </td><td>  </td><td>Risk Trigger Metric:
During planned facility operation activities, a suspected system component is discovered that requires attention, or an unexpected malfunction results in this risk being realized. This risk will continue throughout the CHPRC (September 30, 2018) contract.

<table><tr><th>Mitigation action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>Identify and procure spare parts for T Plant crane.</td><td>Ongoing</td><td>N/A</td></tr></table>
Mitigation Assessment:
No significant changes in January. The project has put into place mitigating strategies (i.e., aggressive S&M activities) to help reduce this risk. The crane is currently operational, however, an adequate spare parts inventory is needed. The project has identified spare parts for the T Plant crane with input from the manufacturer and is in the process of procuring critical spares. The project has received mechanical brake and spare parts. The long lead motor parts are scheduled to be delivered in June 2018. Engineering addressed quality assurance clause for the National Electrical Manufacturers Association (NEMA) MG1 standards to complete the mechanical motor parts order. An electrical parts order is in process. Repair of the motor drive shaft and coupling was required as a result of the 2017 annual crane preventive maintenance work performed in November. The electrical crane PMs were completed in January. The project currently has all identified electrical spare parts for the crane on order or in hand.</td></tr>
<tr><td>WSD-019: MLLW & TRU Treatment Impacts</td><td>Mixed Low-Level Waste (MLLW) and TRU treatment capacity/capability does not meet Hanford needs or treatment does not occur as scheduled, resulting in cost impacts.
Risk Handling Strategy: Accept

Probability: Likely (75% to 90%)
Worst Case Impacts: $1.25 million, 0 days</td><td>  </td><td>  </td><td>Risk Trigger Metric: Will continue throughout the contract (September 30, 2018).

<table><tr><th>Mitigation action(s)</th><th>FC Date</th><th>%</th></tr><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 that 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 plutonium (Pu) possession limit. Their current limit is 200 grams of total Pu. Increasing the limit may allow additional quantities of TRUM waste to be shipped to PFNW for processing. This evaluation took place in conjunction with the M-091-52 engineering study.</td><td>Complete</td><td>100</td></tr><tr><td>Negotiations with RL are ongoing to seek authorization for additional shipments of M-91 legacy TRUM to PFNW. The additional shipments would meet the objectives for the PFNW minimum optimal processing volume as identified in the optimization study provided to RL in December 2016.</td><td>Complete</td><td>100</td></tr></table>
Mitigation Assessment:
No significant changes in January.
1) MLLW: Two contracts are in place for offsite commercial waste treatment, which provided sufficient capability/capacity to meet current MLLW treatment needs through the end of the CHPRC contract term. However, one of the contracts was recently restricted due to the closure of the Perma-Fix East treatment facility in Tennessee (M&EC). Additional treatment capabilities will be needed to meet future anticipated MLLW treatment needs.

TRU/M: Only PFNW has current capability to process TRU/M waste. This is due solely to the practical limitations imposed by the need to ship the TRU/M waste via road closure; therefore, additional commercial providers cannot be obtained.

Additional authorization has been received by DOE for FY2018, which will maintain PFNW’s minimum optimization processing volumes.</td></tr>
</table>

Risk Title	Unmitigated Risk Impacts	Assessment		Comments
		Month	Trend	
RL-0013/WBS-013				
WSD-140: As-Found-Unknown Conditions - T Plant	Unknowns, as-found, or emergent conditions impact the operability of the T Plant facility. **Risk Handling Strategy:** Accept **Probability:** Very Likely (>90%) **Worst Case Impacts:** $990K, 0 days			**Risk Trigger Metric:** Based on unknown conditions, the possible risk triggers are unknown. **Mitigation action(s)** / **FC Date** / **%** Repairs to 221-T Dock number 2 in support of sludge receipt — Complete — 100 Submittal of a Baseline Change Request (BCR) to break out the planning package planned for May. — Complete — 100 **Mitigation Assessment:** No significant changes in January. Past periods included work on dock 2 removal and installation as well as asphalt repair. The project has identified additional structural issues with the facility stairs and is currently evaluating the need for repair or replacement.
FY2018 Risk Triggers (Risk could be realized in FY2018)				
WSD-W135-15: Utilization of 2003 Pre-Conceptual Design	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. **Risk Handling Strategy:** Accept **Probability:** Very Likely (>90%) **Worst Case Impacts:** $5,100K, 0 days			**Risk Trigger Metric:** The 2003 pre-conceptual design for the dry storage of capsules cannot be utilized. **Mitigation action(s)** / **FC Date** / **%** None identified at this time. — N/A — N/A **Mitigation Assessment:** No changes in January. 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.
WSD-W135-16: Content and Approval of Critical Decision Packages	The content of the critical decision (CD) packages required by DOE O 413.3B are more extensive than anticipated and require an extensive RL review. **Risk Handling Strategy:** Accept **Probability:** Very Likely (>90%) **Worst Case Impacts:** $2,000K, 0 days			**Risk Trigger Metric:** The content and review/approval process for the CD packages is impacted by DOE O 413.3B. **Mitigation action(s)** / **FC Date** / **%** Prepare joint tailoring strategy with RL on how to meet the DOE O 413.3B requirements — Complete — 100 **Mitigation Assessment:** No changes in January. The pre-conceptual design of the project was based on DOE O 413.3A; the current version is DOE O 413.3B, Change Order 2. New requirements will impact the content of the CD packages or impact the duration and extent of the RL review. CHPRC continues to work closely with RL on the tailoring strategy to meet the DOE O 413.3B requirements. RL is currently evaluating the applicability of 413.3B due to new guidance from HQ. The risk is being captured for visibility and will remain as part of the key risks until this issue is resolved. No further mitigation actions are necessary at this time.
WSD-W135-17: Modifications to WESF	The transfer of the capsules to dry storage will require modifications to WESF. **Risk Handling Strategy:** Accept **Probability:** Very Likely (>90%) **Worst Case Impacts:** $7,300K, 0 days			**Risk Trigger Metric:** Modifications to the WESF facility are required for transfer of capsules to dry storage. **Mitigation action(s)** / **FC Date** / **%** None identified at this time. — N/A — N/A **Mitigation Assessment:** No changes in January. The approach incorporated into the pre-conceptual design for the transfer of the capsules required minimal modifications to WESF. New or updated requirements will require more extensive modifications to WESF. The CD-1 submitted in August provides the preliminary modifications to WESF. The risk is being captured for visibility and will remain as part of the key risks until this issue is resolved.

Risk Title	Unmitigated Risk Impacts	Assessment		Comments
		Month	Trend	
RL-0013/WBS-013				
WSD-W135-28: RCRA Permit Requires 90% Design Information for the Capsule Storage Area (CSA)	Ecology may require the 90-percent design package for the CSA to be completed prior to issuing the permit for public comment. **Risk Handling Strategy:** Accept **Probability:** Medium (20% to 74%) **Worst Case Impacts:** $1,775K, 360 days			**Risk Trigger Metric:** Ecology requires the 90-percent design package for the CSA to be completed prior to issuing the permit for public comment. **Mitigation action(s)** / **FC Date** / **%** None identified at this time. / N/A / N/A **Mitigation Assessment:** No significant changes in January. CHPRC continues to have regular interfaces with Ecology to discuss the issue and are evaluating options should the 90 percent be required. The permit application was formally submitted to Ecology on November 21, 2017, with the 30 percent design information. The project is currently awaiting a completeness determination and comments on the application.
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)				
WSD-086: W&FM Industrial Accident or Contamination	An industrial accident or contamination event requires corrective actions, resulting in cost impacts. **Risk Handling Strategy:** Accept **Probability:** Medium (26% to 74%) **Worst Case Impacts:** $3 million, 0 days			**Risk Trigger Metric:** The spread of contaminated tumbleweeds at W&F laydown areas and burial grounds, require additional personnel to monitor and mitigate the spread of contamination. **Mitigation action(s)** / **FC Date** / **%** Additional radiation surveys, first line supervisors, and supporting staff are required to support herbicide spraying required to monitor and mitigate the spread of contamination in the burial grounds associated with biological vectors. / Ongoing / N/A **Mitigation Assessment:** No significant changes in January. The migration of tumbleweeds has the potential of spreading contamination to site "neighbors," therefore increased use of herbicide spraying and surveillances are required to help minimize contamination spread.
WSD-133: Results of External Audits/Assessments Impact Operations	External oversight groups identify gaps in licensing/permitting, surveillance, and maintenance activities at WSD facilities. This includes but is not limited to a change in the current interpretation of required electrical PMs and additional permitting at T Plant for sludge receipt. These gaps require additional resources to address discrepancies, resulting in cost impacts. **Risk Handling Strategy:** Accept **Probability:** Medium (26% to 74%) **Worst Case Impacts:** $1,500K, 0 days			**Risk Trigger Metric:** WESF operations continue longer than assumed due to delays in the implementation of the Cs/Sr capsule dry storage project, which results in increased maintenance demands and the need to replace select systems required for operation due to their age and difficulty in obtaining spare parts. The WRAP facility extended dormant period requires increased maintenance work. **Mitigation action(s)** / **FC Date** / **%** Replace WESF pool cell instrumentation systems, add 21 PM/S WRAP electrical system activities, and perform WRAP floor repair. / Ongoing / N/A **Mitigation Assessment:** No significant changes in January. The project is working on the design of the WESF pool cell instrumentation system replacement. It is expected that the WRAP floor repair will commence in the spring. Completed maintenance on the High Energy Real Time Radiography Linear Accelerator. Additional maintenance work will be performed based on facility work priority.
WSD-136: CWC/WRAP Components Fail	CWC facilities and components may reach their end of life. These items will need to be replaced and/or repaired outside of planned funding profiles, resulting in cost impacts. **Risk Handling Strategy:** Accept **Probability:** Likely (75% to 90%) **Worst Case Impacts:** $2 million, 0 days			**Risk Trigger Metric:** Maintenance activities at CWC increase due to aging facilities. **Mitigation action(s)** / **FC Date** / **%** Floor repairs and MDSA container stacking requirements, replacement of exhaust fans / Ongoing / N/A **Mitigation Assessment:** No significant changes in January. Floor repairs will be performed, weather permitting. The MDSA container stacking requirements are complete. Maintenance work at CWC will be scheduled based on facility work priorities.
Unassigned Risks (Pending ownership of identified risks/opportunities)				
No unassigned risks identified in January.				

PROJECT BASELINE PERFORMANCE
Current Month
($M)

WBS 013/RL-0013 Waste and Fuels Management Project	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance ($)	Schedule Variance (%)	Cost Variance ($)	Cost Variance (%)
Total	7.2	5.6	6.6	(1.6)	-21.9%	(1.0)	-17.7%

Numbers are rounded to the nearest $0.1 million

CM Schedule Performance (-$1.6M/-21.9%)

The CM schedule variance is primarily associated with planned FY2018 work scope completed in FY2017 for Large Box Repackaging; delays in W-135 detailed design for CSA due to delayed subcontract award as a result of additional rounds of clarifications extending award into the previous holiday period; and CSS detailed design due to a variance in the baseline and the contractor schedule which is not anticipated to impact the design completion date. Based on the submitted and accepted subcontractor schedule, recovery is projected by the end of the second quarter.

CM Cost Performance (-$1.0M/-17.7%)

The CM cost performance variance is primarily associated with commercial repack of TRUM large boxes, was authorized as part of the annual planning exercise for FY2018 via Correspondence Number 1704615A. The authorized scope is not budgeted. Once budget is approved, a BCR will be implemented and performance will be available. Cumulative work performed to date primarily includes two shipments processed and repacked at commercial facility.

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

WBS 013/RL-0013 Waste and Fuels Management Project	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance ($)	Schedule Variance (%)	Cost Variance ($)	Cost Variance (%)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Estimate to Complete (ETC)	Variance at Completion (VAC)
Total	1,224.2	1,224.0	1,147.6	(0.3)	-0.0%	76.3	6.2%	1,361.4	1,280.4	132.8	80.9

Numbers are rounded to the nearest $0.1 million

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

The CTD schedule variance is within threshold.

CTD Cost Performance (+$76.3M/+6.2%)

Realizing efficiencies such as organizational flattening and streamlining; right sizing capabilities for planned scope; optimizing resources with reorganization and consolidation of engineering capabilities across W&FM; combined administrative/records functions across WESF and CSB; removing waste from building(s) and reducing the need for inspections/surveillances; reducing the size and number of Radioactive Areas/Radioactive Material Areas (RAM) and associated surveillances/routines and records; tagging out unneeded equipment and reducing the frequency and number of preventive maintenance activities; increasing shared resources across all of SWOC; reducing dedicated resources for Corrective

Action System (CAS) and utilizing project-wide support; optimizing maintenance scheduling and execution reducing Operations Field Work Supervision; increasing emphasis on managing planned absence coverage within existing resources; simplifying and optimizing acquisition and procurement management within W&FM; and eliminating the separate waste forecast system by integrating forecasting as part of the baseline process and the Solid Waste Inventory Tracking System (SWITS).

Variance at Completion (+$80.9M/+5.9%)
Realizing efficiencies such as organizational flattening and streamlining; right sizing capabilities for planned scope; optimizing resources with reorganization and consolidation of engineering capabilities across W&FM; combined administrative/records functions across WESF and CSB; removing waste from building(s) and reducing the need for inspections/surveillances; reducing the size and number of Radioactive Areas/RAM and associated surveillances/routines and records; tagging out unneeded equipment and reducing the frequency and number of preventive maintenance activities; increasing shared resources across all of the SWOC; reducing dedicated resources for CAS and utilizing project-wide support; optimizing maintenance scheduling and execution; reducing Operations Field Work Supervision; increasing emphasis on managing planned absence coverage within existing resources; simplifying and optimizing acquisition and procurement management within W&FM; and eliminating the separate waste forecast system by integrating forecasting as part of the baseline process and SWITS.

Contract Performance Report Formats are provided in Appendix A

FUNDS vs. SPEND FORECAST ($M)

	FY2018		
WBS 013/RL-0013 Waste and Fuels Management Project	**Projected Funding**	**Spending Forecast**	**Variance**
Spending Forecast	147.6	141.8	5.8
Incremental Scope Pending Change Management	0.0	(26.6)	26.6
RL-0013 – Total	147.6	115.2	32.4

Numbers are rounded to the nearest $0.1 million.

Funds/Variance Analysis
The FY2018 projected funding level for Project Breakdown Structure (PBS) RL-0013 of $147.6 million is based on potential funding levels provided by RL. The total fiscal year spend forecast (FYSF) of $115.2 million with a $32.4 million variance is primarily due to the expected transfer from RL-0041 into RL-0013 for Environmental Restoration Disposal Facility (ERDF) operations once an appropriations is in place, because ERDF is currently being costed and forecasted in RL-0041 due to Continuing Resolution (CR). In addition, Line Item (LI) funding was allocated but not available due to the CR, resulting in the deferral of a portion of preliminary design activities for WESF modifications. Finally, the spending forecast was reduced to incorporate decrements in RL-0013 to offset higher priority scope within the Central Plateau Control Point.

Critical Path Schedule
Critical Path Analysis can be provided upon request.
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MILESTONE STATUS

Tri-Party Agreement milestones represent significant events in project execution. RL enforceable agreement milestones were established to provide high-level visibility to critical deliverables and specific status on the accomplishment of these key events. The performance measurement baseline (PMB) annual update, implemented in September 2013, and subsequently approved BCRs define CHPRC planning with respect to Tri-Party Agreement milestones. The following table is a one-year look ahead of commitments and Tri-Party Agreement enforceable milestones and non-enforceable target due dates.

Number	Title	Due Date	Actual Date	Forecast Date	Status/ Comment
M-091-47D	Certify or Treat 280 Cubic Meters of TRUM/MLLW Waste	9/30/18	8/8/17 (A)		Complete
M-091-53	Submit Milestone Change Request to Replace Target Dates for Capabilities to Process TRUM Waste.	9/30/18		9/27/18	On schedule
M-091-52	Submit change request with target dates for new/modified capabilities to process TRUM waste.	12/29/17	12/29/17 (A)		Complete
M-091-52-T01A	Remove Five (5) Mixed Waste Containers from Outside Storage Area A and/or Outside Storage Area B	11/30/18		5/1/18	On schedule
M-091-03L	Submit Revision of TRUM Waste and MLLW PMP to Ecology.	6/30/18		6/30/18	On schedule
M-092-00	Acquire Facilities for Cs/Sr, Na & SCW	9/30/18		9/28/18	In Program Planning
C-026-07L	Tritium Treatment Technology Developments to Ecology and EPA.	3/31/18		3/6/18	On schedule

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

Contract Section	Project	GFS/I	Status
CONTRACT			
J.12/C.2.2, C.2.3	PBS-RL-0011, Plutonium Finishing Plant Closure Project PBS-RL-0013, Solid and Liquid Waste Treatment and Disposal	Offsite Transportation of Radioactive Material: RL provides equipment and government drivers to transport TRU materials outbound/inbound between the Hanford Site and Northwest locations. RL is the authorized shipper and acts as signatory on the shipping papers, and ensures DOE Manual 460.2-1 is complied with. RL arranges for Commercial Motor Vehicle Safety Alliance (CVSA) level VI vehicle inspections and verifies that the government drivers meet the applicable DOT Federal Motor Carrier Safety Regulations (49 CFR 382 and 383). RL also inspects the load securement to ensure compliance with DOT regulations and/or TSD requirements.	Ongoing
J.12/C.2.3.6	PBS-RL-0013, Transuranic Waste Certification	WIPP provides shipping resources and manages the schedule for transportation of these containers to WIPP. The schedule is variable, and the number of shipments is controlled by DOE-HQ on a complex-wide priority. Cost for shipment of TRU waste offsite is borne by the CBFO.	No WIPP shipments are planned within the contract period of performance.

DOE ACTIONS / DECISIONS

Description	CHPRC Delivery Date	Expected RL Due Date
RL Review and Approve Critical Decision 1 (CD-1) Package for Management of the Cesium and Strontium Capsules (MCSC) Project (W-135)	8/25/17 (A)	1/02/18 2/7/18 (Forecast)

Section D
Soil and Groundwater Remediation Project (RL-0030)

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January 2018
CHPRC-2018-01, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

Pump and Treat (P&T) Operations continued making progress on the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) remedial process documentation for the River Corridor and Central Plateau. Groundwater treatment and well drilling (including development) completed in January includes the following:

Treatment Facility	Million Gallons Treated		Chrome (kg)		Carbon Tet (kg)		Tech-99 (pCi)		Uranium (kg)	
	CM	FYTD	CM	FYTD	CM	FYTD	CM	FYTD	CM	FYTD
DX P&T	31.6	123.1	2.4	9.3						
HX P&T	27.2	109.3	2.2	9.3						
KR-4 P&T	8.5	36.7	0.1	0.5						
KW P&T	14.41	57.4	0.9	5.3						
KX P&T	36.5	120.5	2.3	7.7						
200 West P&T	102.1	397.3	9.2	34.2	208	782.0	$.24x10^{12}$	$.87x10^{12}$	15.4	54.5
Combined	**220.3**	**844.4**	**17.1**	**66.2**	**208**	**782**	**$.24x10^{12}$**	**$.87x10^{12}$**	**15.4**	**54.5**
FY2018 KPG	**--**	**2,200.0**	**--**	**160.0**	**--**	**1,800.0**	**--**	**N/A**	**--**	**120**

Well Drilling by Area	FY2018 Planned	Current Month	FY2018 Cumulative
100-KR-4	4	0	0
100-HR-3	15	0	6
200-UP-1	8	1	3
200-ZP-1	4	0	2
M-24 Milestone	5	0	0
200-DV-1	0	0	0
Total Wells	**36**	**1**	**11**
Site Wide Boreholes	**31**	**22**	**23**

EMS Objectives and Target Status

Objective #	Objective	Target	Due Date	Status
18-EMS-SGRP-OB1-T1	Reduce adverse environmental impact to health and the environment by monitoring and confirming low-carbon tetrachloride emissions at the 200 West Pump and Treat Facility.	Evaluate treated off-gas analytical results from compliance sampling and process sampling each quarter.	7/31/18	33%
18-EMS-SGRP-OB2-T1	Improve compliance margin by improving expired chemical inventory management.	Better define the process of proper disposal of expired chemicals and/or chemicals with no future use.	9/30/18	50%

TARGET ZERO PERFORMANCE

(Reported on a calendar month basis.)

	CM Quantity	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	1	NA
Total Recordable Injuries	0	0	NA
First Aid Cases	2	*40	• 1/8/18 – Employee suffered tightness in the upper right side of the back after slipping and falling on the ice. The individual was evaluated at HPMC, given over-the-counter-medication, an icepack, and returned to work without restrictions. (24708) • 1/31/18 – Individual cut their left middle finger while setting up a table. The employee was treated at HPMC with a bandage and a tetanus shot, then returned to work with no restrictions. (24729) *1 First Aid case, PTS in support of RL-0030.
Near-Misses	0	0	NA

KEY ACCOMPLISHMENTS

RL-0030 Accomplishments
Environmental Integration

- Initiated work on development of the cumulative impact evaluation (CIE) approach document with a series of internal storyboarding sessions. The CIE will provide a comprehensive toolset to help understand impacts from sources (e.g. waste sites, tank farms) and evaluate potential cleanup options with the objective to support informed decision making for the Hanford Central Plateau. Dates have been established for a series of planning workshops with RL and the regulators to refine the scope and content of the approach document.

RL-0030.O1 RL-0030 Operations
River Corridor
100-KR-4 Operable Unit (OU)

- Issued the Draft A KW Soil Flushing/Infiltration Treatability Test Plan to Environmental Protection Agency (EPA) on January 11, 2018, for review.

100-NR-2 OU

- Completed a white paper on January 18, 2018, that evaluates a Technical Impracticability (TI) waiver versus monitored natural attenuation approach for Strontium-90 contaminated groundwater. The recommended TI waiver approach will be pursued in the remedial investigation/feasibility study (RI/FS).

100-BC-5 OU

- Prepared a briefing on the content of the Proposed Plan (PP) for RL and EPA review. This information will be presented at the February 6, 2018, Hanford Advisory Board meeting.

Central Plateau

200-UP-1 OU

- Initiated drilling of the first of the remaining five 200-UP-1 remedy performance monitoring wells in FY2018.
- Completed quarterly groundwater sampling of the first six southeast chromium plume wells on January 15, 2018.

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

- Supported RL and Ecology on developing an interim Record of Decision (ROD) strategy for the 200-BP-5 and 200-PO-1 groundwater OUs.
- Completed data quality objective meetings with RL and Ecology in support of the 200-BP-5 removal action drilling sampling and analysis plan (SAP).
- Developed dispositions to Ecology comments on the 200-BP-5 and 200-PO-1 remedial investigation (RI) reports. Completed several comment resolution meetings with Ecology.
- Completed resolution Ecology's comments on the 200-BP-5 Removal Action Work Plan (RAWP).

200-DV-1 OU

- Transmitted the Emergency Preparedness Hazards Analysis (EPHA) for the URGS treatability test to RL on January 4, 2018, for approval.
- Completed design and fabrication of ammonia injection trailer for the Uranium Reactive Gas Sequestration (URGS) test. Continued with field preparations and anticipate that ammonia injections will begin in February 2018.
- Completed the drilling of nine of 28 shallow risk boreholes this month.

Central Plateau Closure Plans

- Completed the Option 2 Template needs assessment for the 216-A-36B closure plan with Ecology on January 16, 2018.

RCRA Groundwater Monitoring

- Submitted all the remaining regulator draft engineering evaluation reports for the 200 West Resource Conservation and Recovery Act (RCRA) sites in January 2018. Received Ecology review comments on all eight reports in January. Comment disposition began in January and is expected to be complete in mid-February. Work on preparing the 200 East engineering reports has progressed on schedule.

Project Technical Services Accomplishments

- Training and Procedures
  - Worked with facility subject matter experts to develop a new qualification card for Field Work Supervisors (FWS) who oversee industrial hygiene technicians performing SUMMA® sampling.
  - Performed a project walk through with Soil & Groundwater Remediation Project (S&GRP) engineering to prepare for a Solid Waste Operating Complex (SWOC) Unreviewed Safety Question (USQ) presentation to operations and engineering. The course covers interface between projects and the requirements for SWOC nuclear safety to perform USQ evaluations on particular components in S&GRP equipment when a change request to the components is initiated. Sessions will be scheduled in February.
- Operations Program
  - Emergency Preparedness developed drill scenario for full-up emergency drill for the URGS system.

Groundwater P&T Facilities

200 West P&T

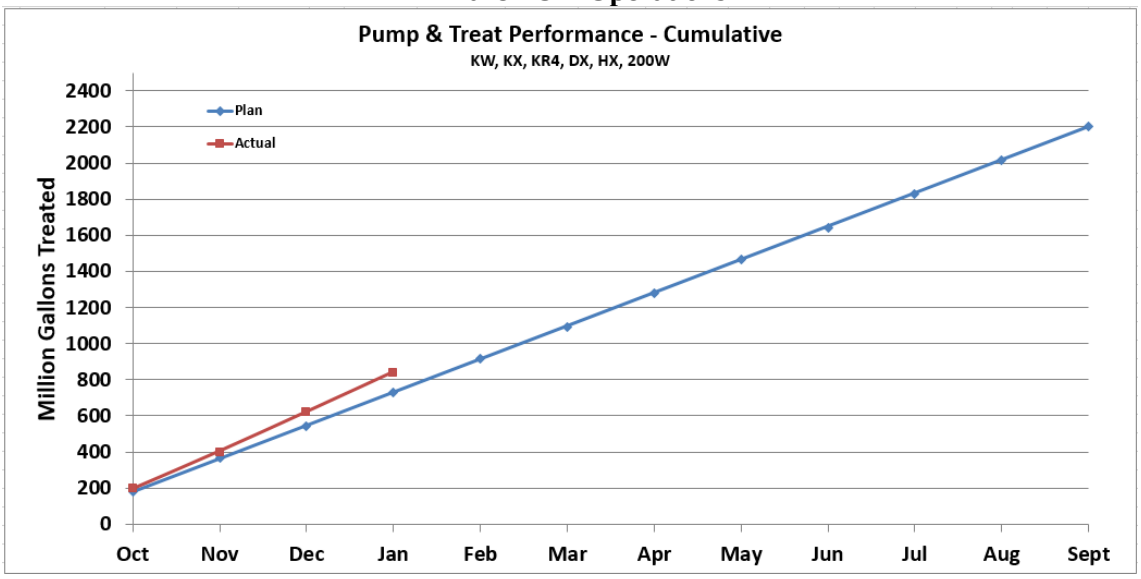
- Operated the 200 West P&T at an average of 2,287 gallons per minute (gpm).

100 Area P&Ts

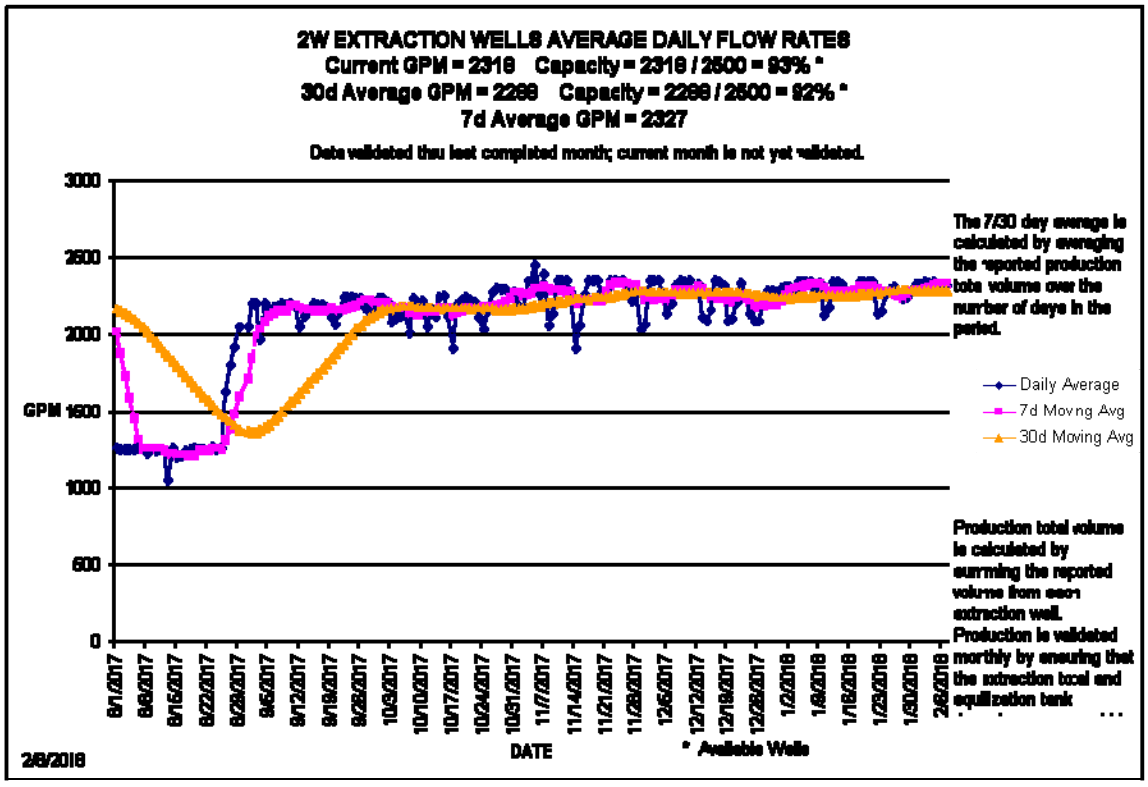
- Operated the DX P&T at 708 gpm, below the facility capacity of 775 gpm.

- Operated the KR-4 P&T at 191 gpm, below the facility capacity of 330 gpm.
- Operated the KW P&T at 323 gpm, near facility capacity of 330 gpm.
- Operated the KX P&T at 817 gpm, below the facility capacity of 900 gpm.
- Operated the HX P&T at 610 gpm, below the facility capacity of 900 gpm.

FY2018 P&T Operations



200 West P&T



MAJOR ISSUES

Issue:
Experiencing regulatory agency delays in the approval of the 100-DR-1, 100-DR-2, 100-HR-1, 100-HR-2, and 100-HR-3 OUs Record of Decision (ROD).

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 (NOC) letters to RL as contract activities are impacted.

Status:
Consultation with the Yakama Nation was held on December 13, 2017. The final ROD is currently anticipated for April 2018.

Issue:
KX, KR-4, and DX ion exchange vessels require diffuser repair. Approximately 14 of 36 vessels are in need of repair at KX and KR-4. One vessel requires repair at DX.

Corrective Action:
Repair all vessels with a damaged diffuser.

Status:
Completed replacement of vessel diffusers at the KX facility on all those with confirmed damage (seven vessels). Work on the KR-4 IX vessels commenced in December (eight vessels). Completed all train A repairs and returned to service in January. Train B has been removed from service and repairs are in progress. Investigation of resin found in DX P&T effluent filters revealed that one vessel has damage (A1). Repair of this vessel is in progress.

Issue:
Access restrictions around the Plutonium Finishing Plan (PFP) are impacting field activities, namely the installation of three 200-UP-1 remedy performance monitoring wells, six 200-DV-1 shallow characterization boreholes, RCRA groundwater monitoring, and weekly well head and conveyance line inspections for the 200 West P&T Facility.

Corrective Action:
Work with PFP to establish controls for performing work within the Work Control Zone (WCZ). Notify RL of any work scope and milestone impacts.

Status:
Working with PFP to determine the controls needed to perform work within the WCZ. Provided RL with a list of the impacted Tri-Party Agreement milestones.

Issue:
The evaporation rate at the modutanks is not keeping up with the purgewater being added. The project needs a reliable manner to treat the purgewater.

Corrective Action:
The project is evaluating the use of 200 West P&T and modutank operations together to mitigate two issues (200W well fouling and modutanks level). The pH and settling time provided by the modutanks

allows the filtration of well fouling constituents. In addition, 200W has been evaluated for removing modutank water to ensure levels are maintained that support sampling and well maintenance activities. A meeting with EPA to discuss regulatory approach is being pursued.

Status:
Have prepared and cleared briefing materials. Have scheduled a meeting with EPA to discuss approach on February 13, 2018.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

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

- Increased Confidence
- No Change
- Decreased Confidence

Risk Title	Unmitigated Risk Impacts	Assessment		Comments
		Month	Trend	
RL-0030/WBS-030				
Explanation of major changes to the project monthly stoplight chart: Removed risk SGW-166: Well Design from the stoplight chart. The anticipated DV-1 well design risk event was removed after being re-characterized to low probability.				
Realized Risks (Risks that are currently impacting project cost/schedule)				
SGW-135: Major Equipment Failure at a Pump & Treat Facility	A major equipment failure is experienced at one of the P&T locations during operations of the facility or at the injection and extraction well network. This includes but is not limited to failure of: rotary drum thickeners, centrifuges, lime addition conveyor, plastic pipe joint saddles, fluidized bed reactors, membrane bio-reactors, tanks, air stripper, computer system control center, extraction/injection wells, and other related equipment supporting P&T, resulting in cost impacts and schedule delays. **Risk Handling Strategy:** Accept **Probability:** Likely (75% to 90%) **Worst Case Impacts:** $2,000K, 86 days			**Risk Event:** Approximately 17 of 36 KX and KR-4 P&T facility ion exchange vessels require diffuser repairs. **Risk recovery action(s)** / **Risk Date** / **FC Date** / **%** Repair all vessels with damaged diffusers. / 3/15/17 / 1/31/18 / 65 Conduct investigation of resin found in DX P&T effluent filters and repair damaged vessel (A1). / 12/06/17 / 1/31/18 / 50 **Recovery Action Assessment:** Eleven vessels have been repaired. Four of the remaining six vessels in need of repair are available for use with temporary screens in place. All bottom-access vessel repair is complete, and the top-access vessel repair approach has been finalized and parts have been received. The project performed the first top-access vessel repair in September, and the repairs limiting plant flows have been completed prior to January 31, 2018.
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)				
No critical risks identified in January				
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)				
No high risks identified in January				
Unassigned Risks (Pending ownership of identified risks/opportunities)				
No unassigned risks identified in January				

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	6.9	6.6	7.8	(0.3)	-4.3	(1.3)	-19.5

Numbers are rounded to the nearest $0.1 million.

CM Schedule Performance (-$0.3M/-4.3%)
The variance is within reporting thresholds.

CM Cost Performance (-$1.3M/-19.5%)
The current month cost variance was due to the nearly $1.0 million in spending incurred in support of P&T optimization (well drilling, well realignments, and document preparation), 100-NR-2 RI/FS rewrite, and 200-DV-1 monitored natural attenuation evaluation and shallow soil characterization activities that are not yet planned in the Performance Measurement Baseline (PMB). Additionally, the URGS treatability test design and procurement of the equipment is more costly than planned. The equipment has taken longer to fabricate, requiring more CHPRC design support than originally planned due to safety analyses and hazard controls driven by the use of ammonia gas at the Hanford Site.

Contract-to-Date

($M)

RL-0030 Soil and Groundwater Remediation	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance ($)	Schedule Variance (%)	Cost Variance ($)	Cost Variance (%)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Estimate to Complete (ETC)	Variance at Completion (VAC)
Total	1,429.2	1,422.3	1,399.3	(6.9)	-0.5%	22.9	1.6%	1,568.1	1,539.9	140.6	28.2

Numbers are rounded to the nearest $0.1 million.

CTD Schedule Performance (-$6.9M/-0.5%)
The variance is within reporting thresholds.

CTD Cost Performance (+$22.9M/+1.6%)
The variance is within reporting thresholds.

Variance at Completion (+$28.2M/+1.8%)
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	FY2018 Projected Funding	FY2018 Spending Forecast	FY2018 Variance
Spending Forecast	114.3	108.0	6.2
Incremental Scope Pending Change Management	0.0	10.3	(10.3)
RL-0030 –Total	114.3	118.3	(4.1)

Numbers are rounded to the nearest $0.1 million

Funds/Variance Analysis

The fiscal year (FY) 2018 projected funding for project breakdown structure (PBS) RL-0030 of $114.3 million is based on potential funding levels provided by RL. The spend forecast was reduced to incorporate decrements in RL-0030 to offset higher priority scope within the Central Plateau control point and the FY2018 spending forecast will be updated next month to reflect adjustments to achieve the revised funding target.

Critical Path Schedule

Critical path analysis can be provided upon request.

MILESTONE STATUS

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

Number	Title	Due Date	Actual Date	Forecast Date	Status/ Comment
Milestones on Schedule					
M-024-58K	Initiate Discussions of Well Commitments	6/1/18		6/1/18	On schedule.
M-015-92A	Submit RFI/CMS & RI/FS Work Plan for 200-EA-1 OU to Ecology	7/31/18		7/16/18	On schedule.
M-024-69-T01	Conclude discussions of well commitments initiated under M-024-58	8/1/18		8/1/18	On schedule.
M-024-69	Complete Construction of All Wells Listed for CY2018 and Before as Listed in M-24-15-01	12/31/18		12/31/18	On schedule.

Milestones at Risk					
M-015-21A	Submit 200-BP-5 & 200-PO-1 OU FS Report and PP(s) to Ecology	6/30/18		4/23/19	At risk; impacted by delay in Ecology's comments on the RI report.
M-015-93C	Initiate Characterization Field Work for 200-SW-2 Operable Unit Landfills	9/30/18		TBD	At risk; project is not funded in FY2018.
M-016-193	Investigate SE Chromium Plume, Install Wells, Evaluate GW Monitoring Data & Install Monitoring Wells	9/30/18		5/21/19	At risk; up to three monitoring wells are impacted by their location in the PFP work control zone.

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.

DOE ACTIONS / DECISIONS

Description	CHPRC Delivery Date	Expected RL Due Date
RL Review of Decisional Draft 100-HR-3 RD/RAWP	11/23/17(A)	4/30/18
Concurrent RL and CHRPC Review of Internal Draft SST WMA C Engineering Evaluation Report	2/6/18	2/12/18
RL Prepare and Transmit 216-A-29 Ditch Procedural Closure Letter to Ecology	2/8/18	3/29/18
RL Prepare and Transmit 216-B-63 Trench Procedural Closure Letter to Ecology	2/8/18	3/29/18
RL Review of Draft Rev 0 100-BC-5 Proposed Plan	2/8/18	2/20/18
Concurrent RL and CHRPC Review of Internal Draft SST WMA A-AX Engineering Evaluation Report	2/13/18	2/21/18
RL Submit Draft LLBG WMA-2 Trench 94 Engineering Evaluation Report to Ecology for Review	2/19/18	2/20/18
Concurrent RL and CHPRC Review of LLBG WMA-1 Engineering Evaluation Report	3/9/18	3/15/18
Concurrent RL and CHPRC Review of Internal Draft SST WMA B-BX-BY Engineering Evaluation Report	3/9/18	3/15/18
RL Transmit Rev 0 SST WMA U Engineering Evaluation Report to Ecology	3/15/18	4/5/18
RL Transmit Rev 0 SST WMA TX-TY Engineering Evaluation Report To Ecology	3/16/18	3/29/18
RL Transmit Rev 0 SST WMA T Engineering Evaluation Report to Ecology	3/16/18	4/5/18
RL Submit Regulatory Review Draft SST WMA C Engineering Evaluation Report to Ecology	3/20/18	3/20/18
RL Review Draft 216-A-36B Crib Closure Plan	3/20/18	3/21/18
RL Certify New Information & Submit 216-A-36B Crib Closure Plan to Ecology (Permitee)	3/22/18	4/11/18
RL Submit Regulator Review Draft SST WMA A-AX Engineering Evaluation Report to Ecology	3/23/18	3/23/18

Description	CHPRC Delivery Date	Expected RL Due Date
RL Submit Regulator Review Draft SST WMA B-BX-BY Engineering Evaluation Report to Ecology	3/23/18	3/23/18
RL Transmit Draft Rev 0 100-BC-5 Proposed Plan to Regulator for Review	3/26/18	4/10/18
RL Transmit Draft Rev 0 100-BC-5 RI/FS Report to Regulator for Review	3/29/18	4/13/18
Concurrent RL and CHRPC Review of Internal Draft 216-B-3 Pond Engineering Evaluation Report	4/8/18	4/13/18
Concurrent RL and CHRPC Review of Internal Draft SST WMA TX-TY Groundwater Monitoring Plan	4/8/18	4/13/18
Concurrent RL and CHRPC Review of Internal Draft 216-A-29 Ditch Engineering Evaluation Report	4/9/18	4/16/18
RL Hold 216-A-36B Crib Closure Plan Redline/Strikeout Workshop (Ecology, Permitee)	4/12/18	4/25/18
Concurrent RL and CHRPC Review of Internal Draft SST WMA U Groundwater Monitoring Plan	4/15/18	4/20/18
Concurrent RL and CHPRC Review of Internal Draft SST WMA T Groundwater Monitoring Plan	4/15/18	4/20/18
RL Transmit Rev 0 LLBG WMA-3 Engineering Evaluation Report to Ecology	4/20/18	4/26/18
RL Transmit Rev 0 LLBG WMA-4 Engineering Evaluation Report to Ecology	4/20/18	5/3/18
RL Submit Regulator Review Draft LLBG WMA-1 Engineering Evaluation Report to Ecology	4/23/18	4/23/18
RL Transmit Rev 0 SST WMA S-SX Engineering Evaluation Report to Ecology	4/27/18	5/10/18
RL Submit Draft 216-S-10 Pond and Ditch Engineering Evaluation Report to Ecology for Review	4/27/18	5/3/18

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

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

January 2018
CHPRC-2018-01, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

The initial planning and investigation Plutonium Uranium Extraction Plant (PUREX) Tunnel 2 has commenced. The PUREX Stack Sampling System installation has been completed and tested. Completed the tear-down of the Air Cleaning Train (ACT) containment tents, removed equipment and restored the area for the B Plant Filter Change-out.

EMS Objectives and Target Status

None currently identified.

TARGET ZERO PERFORMANCE

(Reported on a calendar month basis.)

	Current Month	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	0	N/A
Total Recordable Injuries	0	0	N/A
First Aid Cases	1	15	• 1/2/18 – Employee slipped on ice walking on gravel between buildings where snow had melted and re-frozen, resulting in a scrape on the left elbow. No traction device was used. (24706)
Near Misses	0	0	N/A

KEY ACCOMPLISHMENTS

RL-0040 Accomplishments

Central Plateau Surveillance and Maintenance (CPS&M) Facilities and Waste Sites

- Completed shipment support of PUREX Tunnel 1 High Efficiency Particulate Air (HEPA) filter to labs.
- Completed Cell 10 liquid level check.
- Completed TK-216-A-tk-2 level check.
- Completed 224-T annual surveillance.
- Supported 100K Operations by loaning two electricians and one millwright.
- Supported Mylar replacement on Rad Instruments.
- Tumbleweed crew worked B Plant yard.
- Shipped B Plant stack samples to the lab.
- Supported 202-A zero/span instrument calibration.

PUREX Tunnels

- Completed PUREX Tunnel 2 risers three and four activities.
- Completed PUREX Tunnel 2 asbestos/lead sampling activities.

PUREX Stack Sampling System Replacement

- Completed installation and testing activities of new PUREX stack sampling system.
- Started development of the Facility Modification Package.
- Developed method for modifying the SAMCONS program to address differences in the mass flow meter output scale and the scale utilized in SAMCONS (i.e. scales do not currently match). Changes will be made later in February after instrument technician returns to work. Changes do not affect current operation of the system.
- Continued reviews of the new vacuum pump Preventive Maintenance (PM) work package (WP).
- Continued processing contractor closeout submittals.

B Plant Pre-filter and High Efficiency Particulate Air (HEPA) Filter Change-out

- Shipped out primary and secondary HEPA filters staged in six Environmental Restoration Disposal Facility (ERDF) roll-on/roll-off (RO/RO) containers.
- Performed daily dose rate monitoring of the ACT-001 and ACT-002 filter banks.
- Started preparing eBOMs to order additional pre-filters and associated materials to support another round of pre-filter change out if deemed necessary based on filter bank dose rates.

REDOX Risk Mitigation

- Released WPs to allow Reduction and Oxidation (REDOX) Silo Sampling.
- Released WPs to allow REDOX sample gallery waste removal.
- Walked down proposed point source Ventilation Filter Systems with engineering and operations.
- Completed planned sampling on floors one, two, and three of the REDOX silo.
- Completed all planned tank and vessel inspections on floors one, two, and three of REDOX silo.
- Walked down and determined additional required sampling access points on the REDOX silo fourth, fifth, seventh, and eighth floors.
- Cleaned out REDOX west end loading dock of biohazards and fixed contamination to allow more direct personnel, waste and equipment egress.
- Repaired newly damaged steps for access into REDOX west end.
- Completed planning to allow reactivation of REDOX North sample gallery door to improve life safety access in advance of intrusive work.
- Received all containment equipment required to be installed during REDOX North sample gallery door reactivation campaign.
- Sampled unknown blue green substance in REDOX South operating gallery, received lab results, and determined no existing health hazards exist with respect to substance.
- Verified process piping and system equipment for REDOX Hexone system.
- Supported walk downs for REDOX Annex roof repair efforts.
- Completed Beryllium sampling campaign and shipped samples for laboratory analysis.
- Relocated personnel to temporary housing due to Plutonium Finishing Plant (PFP) space needs.
- Identified long-term housing location and commenced facility maintenance required prior to receiving occupancy approval.
- Implemented new radiological release survey requirements at REDOX.
- Staged equipment and sources inside of REDOX proper for more efficient equipment support.
- Reconfigured East end egress to allow for more efficient personnel, waste, and equipment movement.
- Completed waste removal from REDOX sample gallery.
- Approved point source ventilation approach for access to gallery sample boxes, completed system design, and placed equipment orders.

MAJOR ISSUES

No major issues to report at this time.

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 in January.				
Realized Risks (Risks that are currently impacting project cost/schedule)				
D4-042: Unexpected Site Conditions - D4	Unexpected site conditions are encountered during deactivation, decommission, decontamination, and demolition (D4) activities, resulting in schedule delays. **Risk Handling Strategy:** Accept **Probability:** Likely (75% to 90%) **Worst Case Impacts:** $0K, 300 day			**Risk Event:** The B Plant ventilation system was shut down due to elevated differential pressure readings in the ACT-002 filter bank. Upon initial investigation, it was determined that the pre-filters were saturated with water and there was standing water within the ACT-001 filter bank. The result of this unexpected occurrence is that the pre-filters and HEPA filters in the ACT-002 bank, and presumably the pre-filters and the HEPA filters in the ACT-001 filter bank, need to be replaced prior to startup of the B Plant ventilation system. Unexpected radiological contamination identified within/outside the containment tent used to initiate the pre-filter change out resulted in delays to the pre-filter replacement.

Risk recovery action(s)	Risk Date	FC Date	%
Work package change notice (WCNs) are being prepared to perform additional investigation of the water intrusion, remove the pre-filters and HEPA filters, and restart the B Plant ventilation system.	Aug 2016	Complete	100%
Recovery actions were performed in April and May 2017 to fix contamination associated with ACT-002 in and around the containment tent.		Complete	100%
Requests to expedite the HEPA filter order have been rejected by the manufacturer due to issues with their equipment at the production facility.		Complete	100%
Execute pre-filter and HEPA filter change out.		Complete	100%
Repair tents and perform second pre-filter change out in ACT-001 and ACT-002 filter banks.	November 2017	Complete	100%

Recovery Action Assessment:
No major changes in January.
The pre-filters and HEPA filters were replaced in both ACT filter banks, and the ventilation system was restarted. Site cleanup activities were initiated. Within a day of fan operations, dose rates on the pre-filters became elevated and needed to be monitored on an hourly basis. The dose rates have since stabilized; however, the current dose rates require the pre-filters to be replaced with new ones. This scenario was previously identified in this risk assessment and only appears to have impacted the pre-filters. Pre-filters are low-cost, and sufficient filters are available to proceed with the change-out; however, both containment tents had to be cut open in the back to support the filter installations. Repairs to the tents were completed in early December and replacement of both sets of pre-filters were completed in mid-December, immediately followed by a restart of the ventilation system fans. The containment tents were removed in January 2018 and the site was restored to its original conditions. Daily (M-Th) dose rate surveys are being performed on the pre-filter banks to gather data to determine if dose rates have stabilized or are trending up. New pre-filters and associated materials are being procured to support an additional pre-filter change out in one or both ACT filter banks if dose rates become prematurely elevated. Lessons learned are being incorporated into the work package to improve the next pre-filter change out iteration.

<table>
<tr><th rowspan="2">Risk Title</th><th rowspan="2">Unmitigated Risk Impacts</th><th colspan="2">Assessment</th><th rowspan="2">Comments</th></tr>
<tr><th>Month</th><th>Trend</th></tr>
<tr><td colspan="5">RL-0040/WBS-040</td></tr>
<tr><td colspan="5">Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)</td></tr>
<tr><td colspan="5">No critical risks identified in January.</td></tr>
<tr><td colspan="5">High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)</td></tr>
<tr><td>D4-064: Aging Building Systems/ Components</td><td>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</td><td>  </td><td>  </td><td colspan="2">Risk Event:
During routine surveillance activities, unforeseen events cause systems to be compromised. This risk is a lifecycle risk and will continue through the CHPRC contract period (September 30, 2018).

<table><tr><th>Mitigation Action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>None identified at this time.</td><td>N/A</td><td>N/A</td></tr></table>
Recovery Assessment:
No major changes in January.
A pre-conceptual design was provided to RL with an estimate for a similar 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 that the NTE amount will be expended early during construction. The detailed design package for the replacement system was accepted in May 2017, and stamped/signed copies of the package were received in early June. Construction contract development and procurement of the system parts was started in July and continued through the remainder of fiscal year (FY) 2017. Ordered parts/materials were received through the end of October with the exception of a few additional parts that had to be reordered; these were received in late December. Construction bids were received on September 28, 2017, and the contract award and notice to proceed (NTP) were issued in mid-October. A kickoff meeting with the construction contractor was held on October 19, 2017. Training/submittals/bioassays and development of the construction work package continued until the end of November up to mobilization on November 28, 2017. Construction of the sample cabinet and vacuum pump cabinets was started in late November and finished in mid-December. Factory Acceptance Testing (FAT) of the cabinets was started in late December but was halted after experiencing fuse failures in the vacuum pumps. New fuses were ordered after obtaining additional information from the pump manufacturer. FAT testing will resume in early January once the fuses are received. Demolition of the existing system started in late November and was completed in mid-December. Installation of the new system conduit and sample line hangers started in December and completed in January. The remaining installation activities were started in late December and were completed in mid-January. System inspection and testing were started in late January and will be completed in early February, followed by restart of the ventilation fans and contractor demobilization in early February. The project is expected to be completed in early February 2018, pending no functional issues during testing.

Once all testing has been completed, this risk will be removed from the stoplight chart.</td></tr>
<tr><td colspan="5">Unassigned Risks (Pending ownership of identified risks/opportunities)</td></tr>
<tr><td colspan="5">No unassigned risks identified in January.</td></tr>
</table>

PROJECT BASELINE PERFORMANCE
Current Month
($M)

WBS 040/ RL-0040 Nuclear Facility D&D	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance ($)	Schedule Variance (%)	Cost Variance ($)	Cost Variance (%)
Total	1.8	2.1	1.7	0.2	12.5%	0.3	15.9%

Numbers are rounded to the nearest $0.1 million

CM Schedule Performance: (+$0.2M/+12.5%)
The current month schedule variance is within reporting thresholds.

CM Cost Performance: (+$0.3M/+15.9%)
The current month cost variance is within reporting thresholds.

Contract-To-Date
($M)

WBS 040/ RL-0040 Nuclear Facility D&D	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance ($)	Schedule Variance (%)	Cost Variance ($)	Cost Variance (%)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Estimate to Complete (ETC)	Variance at Completion (VAC)
Total	466.6	464.6	438.3	(2.0)	-0.4%	26.3	5.7%	504.6	480.2	42.0	24.4

Numbers are rounded to the nearest $0.1 million

Cost to date (CTD) Schedule Performance: ($2.0M/-0.4%)
The contract to date schedule variance is within reporting thresholds.

CTD Cost Performance: (+$26.3M/+5.7%)
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 using existing site equipment and fewer resources, and program management using fewer resources.

Variance at Completion (+$24.4M/+4.8%)
The variance at completion is within reporting thresholds.

Contract Performance Report Formats are provided in Appendix A.

FUNDS vs. SPEND FORECAST ($M)

	FY2018		
WBS 040/RL-0040 Nuclear Facility D&D	Projected Funding	Spending Forecast	Variance
Spending Forecast	60.3	35.3	25.0
Incremental Scope Pending Change Management	0.0	7.6	(7.6)
RL-0040 – Total	60.3	42.9	17.4
Numbers are rounded to the nearest $0.1 million.			

Funds/Variance Analysis
For January, FY2018 projected funding for project breakdown structure (PBS) RL-0040 increased by $26.5 million to align to the potential budget level as provided by RL for a revised expected funding level of $60.3 million. The spending forecast increased by $7.6 million; this is for anticipated work for REDOX Silo, REDOX North Sample Gallery, B Plant, and B Farm.

Critical Path Schedule
Critical path analysis can be provided upon request.

MILESTONE STATUS

Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (Tri-Party Agreement) milestones represent significant events in project execution. RL Enforceable Agreement (EA) 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-016-250C	Submit to Ecology a 3-Year Rolling Prioritized Schedule to Implement Waste Site Removal Actions	3/31/2018		3/29/2018	On schedule
M-016-255	Complete Removal of All Waste Sites for FY18 as Updated/Modified in M-16-17-01	9/30/2018		9/30/2019	Lack of funding

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.

DOE ACTIONS / DECISIONS

Description	CHPRC Delivery Date	Expected RL Due Date
202A (PUREX) Draft B EE/CA to Ecology for review	12/11/17 (A)	2/26/18
221B (B Plant) EE/CA to RL for Review	1/11/18 (A)	4/3/18

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

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CHPRC-2018-01, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

100K Closure Project performed Waste Site 116-KE-2 soil remediation and K East Sedimentation Basin 183.2 backfill; Garnet Filter Media Removal System equipment fabrication and Sand Filter Media Removal System conceptual design advancement; K West Basin below-water debris characterization; and preparation for an entry into the K East Reactor building to perform engineering assessments. The 300-296 Remote Soil Excavation Project continued to make progress with equipment procurements and fabrication, equipment installation at the mockup, and interference removal activities within the 324 Building. Backfill of the 618-10 Burial Ground Complex continued as planned.

EMS Objectives and Target Status (Draft)

Objective #	Objective	Target	Due Date	Status
18-ERDF-OB1-T1	Conserve resources/waste minimization	Procure and use metal liner substitutes for the macro-encapsulation treatment of waste instead of using functional roll-on/roll-off (RO/RO) waste containers as sacrificial containers.	9/30/18	27%
18-ERDF-OB2-T1	Improve compliance/ pollution prevention	Monitor and evaluate universal waste (UW) and recycling accumulation areas for compliance with CHPRC procedures.	9/30/18	20%
18-EMS-KBOPR-OB1-T1*	Improve compliance/ pollution and spill prevention	Monitor and evaluate UW and recycling accumulation areas for compliance with CHPRC procedures. Survey spill prevention measures.	9/30/18	32%
18-EMS-324BDP-OB1-T1	Increase EMS awareness	Promote and increase 324 Building Disposition Project (324 BDP) personnel EMS awareness via various means throughout fiscal year (FY) 2018.	9/30/18	0%
18-EMS-324BDP-OB2-T1	Improve compliance	Review and update as needed, Resource Conservation and Recovery Act of 1976 (RCRA) inspection implementing procedures, inspection forms, checklists, and work packages (WP) to capture operating record information and assign appropriate metadata.	9/30/18	85%

TARGET ZERO PERFORMANCE

(Reported on a calendar month basis.)

	Current Month	Rolling 12 Months	Comment
Days Away, Restricted or Transferred	0	0	N/A
Total Recordable Injuries	0	0	N/A
First Aid Cases	2	32	• 1/9/18 – Employee injured hip while performing a normal work routine of moving Personal protective equipment (PPE) boxes. The employee did not report the incident right away and elected to self-treat. Employee reported the incident the following day to the Safety Office and was transported to HPMC for evaluation and returned to work without restrictions. (24713) • 1/15/18 – Employee injured lower back while moving heavy wooden boxes. The employee was transported to HPMC for evaluation and returned to work without restrictions. (24715)
Near Misses	0	0	N/A

KEY ACCOMPLISHMENTS

RL-0041 Accomplishments

- 100K Closure Project:
  - o 100K Soil Remediation
    - – Continued backfill of 183.2 KE Sedimentation Basin (approximately 95 percent complete). The backfill is to complete the last week of February 2018, followed by backfill of Waste Sites 1607-K-5 and 100-K-103.
    - – Continued excavation of radioactive waste crib, Waste Site 116-KE-2 (approximately 42 percent complete). Average production rate of 28 Environmental Restoration Disposal Facility (ERDF) cans per day.
      - Continued radcon work planning for the deep excavation currently planned to commence in early May.
    - – Continued preparation of Waste Sites 100-K-107 and 108 regulatory closure document.
    - – Awaiting Environmental Protection Agency (EPA) approval for the closure of Waste Site 1607-K1.
    - – Waste Site Reclassification Form for Waste Site 100-K-42 submitted to EPA for review and approval to reclassify the waste site as interim closed out. EPA has provided preliminary comments, which will require additional discussion to resolve.
    - – Lab results determined there were no Beryllium contamination issues with Waste Site100-K-99. Additional remediation is necessary to remove residual radiological contamination.

- K West Basin Deactivation:
  - Garnet Filter Media Removal System (GFMRS)
    - Columbia Energy and Environmental Services (CEES) fabrication of GFMRS component fabrication is approximately 97 percent complete. The only component requiring completion is the eductor box, which awaits calibration of mass flow meters. CEES will complete eductor box fabrication in February.
      - CEES delivered all hoses to Acquisition Verification Services (AVS). AVS performed receipt inspections and delivered the hoses to Maintenance and Storage Facility (MASF).
      - All fabrication as-built drawings were completed and issued to CEES for inclusion in final data packages.
      - AVS completed source inspections at CEES on all components except the eductor box and spares.
    - American Boiler Works fabrication of Sludge Transport & Storage Container (STSC) Units 425, 426, 427, and 428 is approximately 65 percent complete with component fit-up, welding continues.
    - Garnet Filter Number 3 Sluice Outlet Valve V-305 Risk Mitigation
      - Apollo Construction is finalizing the work package, and a Hazard Review Board (HRB) is planned for January 22, 2018. Work will commence in the K West Basin following HRB chair approval and pending 100K Operations resource availability.
  - Sand Filter Media Removal System (SFMRS)
    - SFMRS concept development and testing continues. Spray nozzle modification evaluations continue to optimize performance.
  - K West Basin Below-water Debris Characterization
    - 100K Closure Project field execution schedule (FES) and estimate to complete were adjusted accordingly due to less characterization work being performed than originally planned. 100 K Operations is focused on higher priority sludge removal operational readiness activities.
    - The basin floor sampling and debris field surveying efforts are ready for execution.
- K East Reactor Interim Safe Storage (ISS):
  - Performed an initial entry into the K East (KE) Reactor building to identify current conditions and connect temporary power to light strings inside the building. The only issue identified during the entry was water pooled on the floor of the reactor bay. We initially placed absorbent socks and later used pumps for further water removal, as needed.
    - Prior to entry, evaluated fall restriction requirements for setting up a guardrail near the drop-off next to the southeast doorway of the KE Reactor building. Updated the work package accordingly, and installed a guardrail in front of the drop off to provide fall protection for entry into the building.
    - Conducted an engineering walkdown of the interior of the KE Reactor building.
      - Although generally well organized; much scrap material, including stacked transite panels, remain to be removed from the building.
    - Incorporated comments and finalized a scope of work to perform topographical surveys of the areas within the proposed footprint of the KE Safe Storage Enclosure (SSE).
    - Developed a scope of work to update the geotechnical report for the soils surrounding the KE Reactor Building. An updated report is required to evaluate SSE foundation placement in the new soil placed on the north side of the reactor wall and to evaluate the effect of the SSE foundation and surrounding soil on well 199-K-222.
    - Met with RL and discussed the inclusion or exclusion of KE ISS from the 100K capital asset project; a preliminary determination has been made to exclude ISS from the capital asset project.
    - Finished identifying updates to the KE Reactor ISS key functional performance requirements for inclusion in the DOE/RL-2005-26 RAWP revision.

- Ancillary Facility Deactivation & Demolition (D&D)
  - Obtained favorable water sample results, placed the shower trailer in service, and continued thermal system insulation (TSI) asbestos abatement inside the 165 K East Power Control Building (approximately 25 percent complete).
  - Continued assessment of 100K Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) document DOE/RL-2005-26, RAWP for 100K Reactor, and Ancillary Facilities.
  - Continued development of the engineering evaluation of Waste Site 130-KE-2 remediation (166 K East fuel storage basin) for planning purposes. Completed draft of the planning FES.

- Remaining Closure Operations
  - Worked with Procurement on commitments to issue a nursery contract to grow shrub tubelings for FY2019 river corridor re-vegetation, as well as contracts for installing appurtenances to STSC vessels and installing GFMRS components in K West Basin.
  - Routed the excavation permit for the 300 Area interim stabilization sites to reviewers for review/approval. The permit requires additional reviewers/approvers because two of the sites are located on PNNL property.
  - Issued notification and documentation to Waste Information Data System (WIDS) and Stewardship Information System administrators for closure of the 600-403 and 600-393 sites.
  - Developed and issued Plant Forces Work Review (PFWR) for installing the impermeable barriers at the 300 Area interim sites.
  - Continued collecting shrub seeds from various locations around the Hanford site to support FY2019 re-vegetation efforts (includes 618-10).

- 618-10 Burial Ground:
  - Continued backfill of the 618-10 Burial Ground.
  - Continued to work on environmental closeout documentation.
  - Continued infrastructure demobilization activities.
  - Project Technical Services (PTS) demobilized four trailers at the 618-10 Burial Ground complex (MO-633, MO-6107, MO-6108, MO-6109). Two additional trailers are scheduled to be moved off the 618-10 Burial Ground complex to Plutonium Finishing Plant (PFP) the week of February 13, 2018.

- 324 Building Minimum Safe:
  - Performed final repairs and load testing to allow the 30-ton CHA crane to return to service.
  - Delivered updated CERCLA documents to RL for review/submittal to EPA.
  - Issued the required quarterly reports for the Vital Safety Systems (VSS).
  - Performed seven monthly, quarterly, or annual preventative maintenance packages.
  - PTS Support:
    - Training and Procedures
      - Nuclear Facility D&D, River Corridor
        - Performed troubleshooting of forms that were transitioned to CHPRC from Washington Closure Hanford (WCH). Created new forms to replace any files that appeared to be corrupted during the transition process.
        - Worked with facility and program respiratory protection subject matter experts to implement a new 300 Area procedure on the issuance and control of respiratory equipment. Implementation of this procedure will allow the final two safety and health WCH blue-sheeted procedures to be canceled at the 324 Facility.
    - Operations Program
      - Emergency Preparedness (EP)

  - Supported development of the 324 Independent Exercise (IEX) Corrective Action Plan (CAP) for submittal to RL.

- 300-296 Soil Remediation Project:
  - Submitted the Soil Removal Addendum on the revised Basis for Interim Operations (BIO) and revised operations plan (OP) to RL
  - Continued fabrication of the Remote Excavator Arm (REA) and cameras and lights system, with the mini-Factory Acceptance Tests (FATs) scheduled in early February.
  - Continued fabrication of the transfer mechanism, with the FAT scheduled for mid-February.
  - Continued procurement and fabrication activities for the water delivery system, mockup grout delivery system, 324 Rad assay / collimated detector, 324 pipe-cutting tool, 324 penetration sealing covers and core drill shield plugs.
  - Initiated installation of the camera and lighting mounts at the mockup.
  - Awarded the contract for the mockup electrical contractor.
  - Final source selection for the floor saw system and heating, ventilation, and air conditioning (HVAC). Modification and roughing filters is nearing completion and the contracts are expected to award in early February.
  - C-Cell size reduction and debris removal is nearing completion and crews are preparing for A-Cell debris removal.
  - Prepared and shipped six bull-run boxes of Radiochemical Engineering Cells waste to ERDF.
  - Applied fixative to the cask handling area floor within the 324 Building.
  - Interference removal activities are progressing and crews have begun initial staging of cell sealing materials inside the 324 Building.

- Environmental Restoration Disposal Facility (ERDF):
  - Received 8,831 tons for the fiscal month of January.
  - Received 52,203 tons fiscal year-to-date (FYTD).

MAJOR ISSUES

No major issues to report at this time.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

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

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

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

Increased Confidence
No Change
Decreased Confidence

Risk Title	Unmitigated Risk Impacts	Assessment		Comments
		Month	Trend	
RL-0041/WBS-041				
Explanation of major changes to the project monthly stoplight chart: Risks *RCC-618-10-07: Contamination Event at 618-10 Waste Site* and *RCC-618-10-09: Discovery of Unexpected Waste/ Contamination* have been removed from the High Threat Value risk section of the stoplight chart as they no longer pose a high threat value to the project. The risks will remain open until the project has completed moving soil.				
Realized Risks (Risks that are currently impacting project cost/schedule)				
RCC-300-296-07: 300-296 Failure of a REC Cranes (B-Cell, A-Cell, A-D & Airlock, or CHA cranes)	Major crane repair must be performed during operations. This in-scope, unplanned work results in cost and schedule impacts to the project. **Risk Handling Strategy:** Accept **Probability:** Likely (75% to 90%) **Worst Case Impacts:** $832.7K, 144 days	Yellow	⇧	**Risk Event:** REC crane failure occurs during operations. Recovery action(s) / FC Date / %: Prepare/Issue White Paper – REC Cranes (VE1135) / - / 100 Prepare Replacement Parts List – REC Cranes (VE1120) / 5/31/18 / - Procure Spare Parts – REC Cranes (VE1235) / 8/30/18 / - **Recovery Assessment:** The project experienced loss of the CHA Crane in November 2017. Final repairs and load testing for the 30-ton CHA crane were completed and the crane was returned to service. The previously completed white paper will assist in identifying and ultimately lead to procurement of additional spare parts. The replacement parts list for the REC cranes is planned to be developed with procurement of spare parts by the end of the FY. These recovery efforts are expected to reduce the potential for impacts. Since the CHA crane has been returned to service, this risk will be removed from the Realized Risk section in February and moved to the Critical Risk section for tracking.
RCC-300-296-13: 300-296 Design review issues arise for the structural modification to the 324 Building	Demolition of existing structures and installation of structural modifications to the 324 Building are necessary to provide structural support to B-Cell during excavation of the radiologically contaminated soil. There is limited access and work space in the 324 Building, which could lead to design review issues impacting the installation of the structural modifications. The impacts may result in in-scope unplanned work causing cost and schedule impacts to the project. **Risk Handling Strategy:** Control **Probability:** Very Likely (10% to 25%) **Worst Case Impacts:** $640K, 160 days	Red	⇔	**Risk Event:** Upon review of the 30 percent design submittal, it was determined the cell wall loading/limitations were inadequate and required additional clarification. Recovery action(s) / FC Date / %: Contractor Prepare and Submit Structure Modification Design - 30%-60% (VE2810) / 3/14/2018 / 73.8 Contractor Prepare and Submit Structure Modification Design – Final (VE2810A) / 8/1/2018 / - **Recovery Assessment:** To reduce the potential impacts associated with conflicting drawing information and performing structural modifications, applicable design efforts were updated to encompass further analysis of cell footings, load limitations, and field demonstrations. These efforts will ensure modifications are successfully performed and completed. The additional efforts have been incorporated into the (FES, along with the ETC, to reflect impacts of risk being realized.
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)				
RCC-300-296-02: 300-296 Loss of ventilation in the 324 hot cells or Zone II	Zone I or II ventilation system failure causes loss of ventilation and shutdown of soil remediation activities, resulting in in-scope unplanned work, and subsequently resulting in schedule impacts. **Risk Handling Strategy:** Control **Probability:** Medium (26% to 74 %) **Worst Case Impacts:** $0K, 48 days	Green	⇔	**Risk Trigger Metric:** Ventilation fan or other system component failure may prevent airlock entry, which is needed for cleanout of REC cells, penetration sealing, and installation of equipment for the 300-296 Remote Soil Excavation Project (RSEP). Mitigation action(s) / FC Date / %: 324 Min. Safe Spare Parts and Routine Preventive Maintenances (PMs) (R03095) / 9/30/2018 / 31.0 **Mitigation Assessment:** Ventilation PM is being routinely performed. Spare fan parts are available for minor failures if occurrence is realized.

RCC-300-296-08: 300-296 Failure of a cell shield door	Failure of shield door(s) or crane shield door(s) shuts down cleanout of REC cells/airlock, penetration sealing in airlock, and equipment installation efforts. It may not be possible to repair a shield door due to radiation dose rate and location. The door failure results in in-scope unplanned work and subsequently causes cost and schedule impacts to the project. **Risk Handling Strategy:** Accept **Probability:** Medium (26% to 74%) **Worst Case Impacts:** $460K, 48 days			**Risk Trigger Metric:** During operation of cleanout activities, a shield door becomes inoperable and will not open or close. Due to dose rates, it may not be possible to repair a shield door. **Mitigation action(s)** / **FC Date** / **%** Perform assessment (PRC-SRP-00043) on shield doors / - / 100 **Mitigation Assessment:** An assessment of shield door(s) or crane shield door(s) was performed (PRC-SRP-00043). As a result, additional PMs have been implemented and spare parts are available for minor failures if occurrence is realized. Currently, no additional mitigations are scheduled. The risk will continue to be monitored until it no longer poses a threat to the project.
RCC-300-296-21: 300-296 Unable to Remove the Floor Plug Between D-Cell and C-Cell	Personnel are unable to lift the D-Cell floor plug with the seal breaker/lifting device and remote operated impact device. The impact of this risk will result in an increased number of soil bins needed to be loaded into waste boxes for disposal at ERDF. **Risk Handling Strategy:** Control **Probability:** Very Low (<10%) **Worst Case Impacts:** $462K, 56 days			**Risk Trigger Metric:** Personnel are unable to lift the D-Cell floor plug with the seal breaker/lifting device and remote operated impact device. **Mitigation action(s)** / **FC Date** / **%** Fab/Install/Concept Test ROID SB/LD at MASF (VE1010) / - / 100 Utilize Seal Breaker / Lifting Device Assembly in 324 to Free Plug (VE1465) / 9/10/18 / - **Mitigation Assessment:** This work scope is being mitigated by installing guide pins onto the four hex nuts in the floor plug. This will verify alignment of the seal breaker/lifting device with the floor plug. The seal breaker has been demonstrated to lift a 10,000-pound floor plug. In addition, the D-Cell floor plug threaded inserts were removed and seal breaker alignment pins installed.
RCC-300-296-03: Mockup testing and qualification of remote equipment / process identifies major modification requirements.	Issues such as equipment interferences, differing as-found conditions than planned, equipment reliability, etc., arise prior to/during mockup testing, leading to re-design of equipment and resulting in cost and schedule delays. **Risk Handling Strategy:** Control **Probability:** Medium (26% to 74%) **Worst Case Impacts:** $773K, 80 Days			**Risk Trigger Metric:** Risk could be triggered through the conduct of component testing or testing/training performed at the mockup that produced inadequate or unexpected test results. **Mitigation action(s)** / **FC Date** / **%** Perform Construction Acceptance Test (CAT) at mockup facility – including REA system with HPUs, cameras, and lighting and transfer mechanisms (VE0640) / 6/4/18 / - **Mitigation Assessment:** For January, this risk was updated to critical. The mockup will be used to validate equipment performance and to support establishing proficiency for personnel for installation, relocation, and operation of remote soil remediation equipment in the 324 Building. Remotely operated equipment (Remote Excavation Arm, transfer mechanism, cameras and lighting, and floor saw) could experience higher failure rates and/or performance issues. Vendor contracts have been awarded for the REA, transfer mechanism, cameras and lighting systems, and equipment deliveries to the mockup are scheduled to begin in February 2018. A single proposal was received in response to the mockup saw request for proposal (RFP) to design and was above the expected price. The solicitation was canceled and a revised RFP was issued on December 11, 2017. Five proposals are being evaluated for the floor saw system and the contract is planned to be awarded in the upcoming period.

High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)

Lifecycle Risk Triggers (Risk could be realized at any point of the project)

Unassigned Risks (Pending ownership of identified risks/opportunities)

RCC-300-296-04DOE: 300-296 Seismic Event (Force Majeure)	A Force Majeure incident, such as seismic event, results in the loss of structural integrity; causing cost and schedule impacts to the project delivery. CHPRC Comment: CHPRC cannot manage the geological seismic movement that may impact the structural integrity of a building. Therefore, this risk is proposed to be transferred to DOE. DOE has "informally" accepted this risk as a transfer risk. A formal letter of acceptance (CHPRC-1705651) was sent to RL on December 12, 2017. Once this risk has been formally accepted, via acknowledgement from RL contracting officer, it will be removed from the stoplight chart.
RCC-300-296-11: Current REC cell seismic analysis is inadequate	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). Regulatory agencies do not accept the use of the 1961 UBC methodology, and a different seismic analysis is required. The new requirements result in significant changes to the design for structural modifications. CHPRC Comment: This risk is beyond CHPRC's ability to effectively manage. During the implementation of structure modifications, if any oversight, regulatory agency, or DOE objects to the use of the older seismic design criteria for the 324 Building and a different standard is imposed; significant changes to the structural modification design and planned approach will be required. The decision to impose a change to the design criteria as the project matures is out of CHPRC's control. Therefore, CHPRC proposes to transfer this risk to RL. DOE has "informally" accepted this risk as

	a transfer risk. A formal letter of acceptance (CHPRC-1705651) was sent to RL on December 12, 2017. Once this risk has been formally accepted, via acknowledgement from RL contracting officer, it will be removed from the stoplight chart. Per direction from RL Federal Project Director (FPD), the transfer of this risk was not accepted. This risk has been put back into the PRC risk database and carried by the project. This unassigned risk will be removed from the stoplight chart in February.
RCC-300-296-23DOE: 300-296 Large Brush Fire (Force Majeure)	A brush fire ignited on the Hanford Site near the proximity of the 300-296 Waste Site, resulting in cost and schedule delays. CHPRC Comment: This risk was identified as "Force Majeure" and is beyond the capabilities of CHPRC to manage. Therefore, this risk was proposed to be transferred to DOE. DOE has "informally" accepted this risk as a transfer risk. A formal letter of acceptance (CHPRC-1705651) was sent to RL on December 12, 2017. Once this risk has been formally accepted, via acknowledgement from DOE-RL contracting officer, it will be removed from the stoplight chart.
RCC-300-296-27: 300-296 Requirement Changes Result in Additional Work/Entry Prerequisite Training	Due to complex-wide, or facility specific changes in requirements outside of CHPRC's ability to manage (e.g. technical documents, procedures, training), project delivery will be impacted in terms of cost and schedule. CHPRC Comment: Changes to DOE orders, federal or state regulations, waste acceptance criteria established by another site contractor, or another DOE site could impact the baseline scope/schedule/cost. Although a contract change is required to incorporate changes to DOE orders, no contract change is required for federal or state regulations or for waste acceptance criteria changes. The potential criteria changes are outside of CHPRC's ability to manage. Therefore, this risk was proposed to be transferred to DOE. DOE has "informally" accepted this risk as a transfer risk. A formal letter of acceptance (CHPRC-1705651) was sent to RL on December 12, 2017. Once this risk has been formally accepted, via acknowledgement from RL contracting officer, it will be removed from the stoplight chart.

PROJECT BASELINE PERFORMANCE
Current Month
($M)

WBS 041/RL-0041 Nuclear Facility D&D – River Corridor	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance ($)	Schedule Variance (%)	Cost Variance ($)	Cost Variance (%)
Total	10.4	8.3	7.5	(2.1)	-20.4%	0.8	9.9%

Numbers are rounded to the nearest $0.1 million

CM Schedule Performance (-$2.1M/-20.4%)

The current month unfavorable schedule variance is partially caused by backfill of the 316-4 Waste Site finishing ahead of schedule when it was originally planned to be completed in March. Additionally, the majority of closeout sampling of the 618-10 Burial Ground was completed ahead of schedule with performance claimed in prior periods, resulting in a current month unfavorable schedule variance. Also contributing to the negative variance is the impact on the schedule of the GFMR procurements which were performed in prior periods. In addition, the 300-296 project continues to experience delays in procurement/fabrication of the mockup and 324 equipment resulting from design changes and fabrication difficulties. Additionally, 324 penetration sealing was impacted by delays/difficulties in work package development.

CM Cost Performance (+$0.8M/+9.9%)

The current month favorable cost variance is partially due to a cost underrun in the ERDF transportation account caused by personnel taking time off. Additionally, GFMR had an unplanned modification to install a manual valve actuator for valve V-305.

Contract-to-Date ($M)

WBS 041/ RL-0041 Nuclear Facility D&D – River Corridor	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance ($)	Schedule Variance (%)	Cost Variance ($)	Cost Variance (%)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Estimate to Complete (ETC)	Variance at Completion (VAC)
Total	520.9	525.1	467.4	4.2	0.8%	57.7	11.0%	684.6	607.6	140.2	77.0

Numbers are rounded to the nearest $0.1 million

CTD Schedule Performance (+$4.2M/+0.8%)
The schedule variance is within reporting thresholds.

CTD Cost Performance (+$57.7M/+11.0%)
The favorable cost variance is primarily due to completing Confirmatory Sampling - No Action (CSNA) waste sites early and under cost. In addition, less demolition was required for the K East Sedimentation Basin and fewer resources are supporting the level of effort (LOE) Program Management scope. Some resources have been diverted to other priority work scope and some resource sharing has occurred. The favorable cost variance was partially offset by the cost overruns in prior years for the utilities project. The 618-10 Burial Ground Complex also realized favorable cost variances with shared resources, lower drum processing costs, and excavation and backfill efficiencies at the 316-4 Waste Site and the 618-10 Burial Ground. These favorable variances are offset by a negative CTD variance in the 300-296 project primarily due to difficulties in execution of airlock cleanout, higher than planned engineering costs resulting from design changes associated with the mockup, and 324 structural design, and with the design and fabrication of essential procurements.

Variance at Completion (+$77.0M/+11.2%)
The 100K Closure positive VAC is primarily due to labor; fewer resources have been supporting the LOE Program Management scope. Some resources have been diverted to other priority work scope and some resource sharing has occurred. The remaining VAC is primarily due to the implementation of planned efficiencies as well as staffing ramp downs at the 618-10 Burial Ground. Offsetting the positive variance, the 300-296 project experienced increased costs associated with airlock cleanout, engineering and design activities, and equipment procurement activities of approximately -$5.8 million.

Contract Performance Report Formats are provided in Appendix A.

FUNDS vs. SPEND FORECAST ($M)

WBS 041/RL-0041 Nuclear Facility D&D – River Corridor	FY2018 Projected Funding	FY2018 Spending Forecast	FY2018 Variance
Spending Forecast	143.6	153.3	(9.7)
Incremental Scope Pending Change Management	0.0	4.8	(4.8)
RL-0041 - Total	143.6	158.1	(14.5)

Numbers are rounded to the nearest $0.1 million.

Funds/Variance Analysis:
FY2018 projected funding for project breakdown structure (PBS) RL-0041 is $143.6 million. CHPRC was directed by the FY2018 annual Performance Measure Baseline (PMB) update to plan ERDF operations in the PMB under PBS RL-0013. Subsequently, CHPRC was directed that ERDF operations could not be transferred from RL-0041 to RL-0013 until after the FY2018 appropriations were approved by Congress. As a result, ERDF is forecasted and costed under PBS RL-0041, while the funding for ERDF is in RL-0013, which causes the majority of the delta between the spending forecast and funding levels. The delta between the spending forecast and projected funding levels for FY2018 is partially offset due to incorporating trends for cost underruns in Small Waste Site Surveillance and Maintenance, Interim Stabilization, KW Basin Characterization, as well as Sand and Garnet Filter Media Removal activities. The 300-296 project spend forecast decreased by $3 million primarily associated with deferral of a portion of the 324 structural modification scope from FY2018 to FY2019 resulting from FY2018 design changes.

Critical Path Schedule:
Critical Path Analysis can be provided upon request.

MILESTONE STATUS

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

Number	Title	Due Date	Actual Date	Forecast Date	Status/ Comment
M-016-00B	Complete all 300 Area remedial actions in accordance with ROD requirements.	9/30/2018		6/20/2018	Revegetation of the 618-10 Complex was removed from the Tri-Party Agreement milestone per change number M-16-17-02. Forecast completion date is now aligned with completion of demobilization.
M-094-00	Complete disposition of all 300 Area surplus facilities, excluding 324 Building.	9/30/2018	7/10/2017 (A)		On October 19, 2017, issued letter-notifying RL of the completion on July 10, 2017.

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.

DOE ACTIONS / DECISIONS

Description	CHPRC Delivery Date	Expected RL Due Date
RL/EPA Review & Approve Interim Backfill Concurrence for 618-10 Decision Unit #9	12/20/17 (A)	1/12/18 (A)
RL Review, Comment & Concur DSA/TSR revision	01/04/18 (A)	04/10/18
RL/EPA Review & Approve Interim Backfill Concurrence for 618-10 Decision Unit #10	3/7/18	3/13/18
RL and Regulator Review of CVP and Waste Site Reclassification Form for 618-10 Burial Ground	3/28/18	5/11/18
RL Prepare, Review, Approve & Issue DSA/TSR SER Revision	04/11/18	05/14/18
RL Approval of SNR	05/22/18	06/19/18
RL Independent Structural Modification Review	06/26/18	07/25/18

Section G
Fast Flux Test Facility Closure
(RL-0042)

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

January 2018
CHPRC-2018-01, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

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

EMS OBJECTIVES AND TARGET STATUS

None currently identified.

TARGET ZERO PERFORMANCE

(Reported on a calendar month basis.)

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

KEY ACCOMPLISHMENTS

RL-0042 Accomplishments

- Completed the FFTF annual surveillance documentation.
- Completed the 400 Area, Sodium Storage Facility (SSF), FFTF and Fuels and Materials Examination Facility (FMEF) annual surveillances post work reviews.
- Complete work packages SM-16-04993 “S&M Misc. Facilities Repetitive Skill-Based Work” Partial Release (PR) number 14 “Re-lamp the SSF at FFTF”.

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	0.1	0.1	0.1	(0.0)	-5.9%	0.0	32.2%
Numbers are rounded to the nearest $0.1M							

CM Schedule Performance: ($-0.0M/-5.9%)
The schedule variance is within reporting thresholds.

CM Cost Performance: (+$0.0M/+32.2%)
The cost variance is within reporting thresholds.

Contract-to-Date

($M)

RL-0042 FFTF Closure	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance ($)	Schedule Variance (%)	Cost Variance ($)	Cost Variance (%)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Estimate to Complete (ETC)	Variance at Completion (VAC)
Total	24.9	24.9	20.6	0.0	0.1%	4.3	17.2%	26.5	22.4	1.8	4.1
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 (+$4.3M/+17.2%)
The cost variance reflects efficient use of resources to support deactivation activities.

Variance at Completion (+$4.1M/+15.6%)
The Variance at Completion is within reporting thresholds.

Contract Performance Report Formats are provided in Appendix A.

FUNDS VS. SPEND FORECAST ($M)

	FY2018		
RL-0042 FFTF Closure	Projected Funding	Spending Forecast	Variance
Spending Forecast	4.0	2.2	1.7
Incremental Scope Pending Change Management	0.0	0.0	0.0
RL-0042 – Total	4.0	2.2	1.7

Numbers are rounded to the nearest $0.1 million

Funds Analysis
Fiscal year (FY) 2018 projected funding for project breakdown structure (PBS) RL-0042 is $4.0 million. The spending forecast of $2.2 million includes inspections of the fire suppression system tanks and minor repairs.

Critical Path Schedule
Critical path analysis is not applicable to this project. The remaining contract scope is the 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

ch2m SM

January 2018
CHPRC-2018-01, 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 / 12 / 25
b. LOCATION (Address and ZIP Code): Richland, WA	b. NUMBER: RL14788	b. PHASE:	b. TO (YYYYMMDD): 2018 / 01 / 21
	c. TYPE: CPAF; d. SHARE RATIO:	c. EVMS ACCEPTANCE: NO: ; X; YES (YYYYMMDD): 2009 / 09 / 18	

5. CONTRACT DATA

a. QUANTITY	b. NEGOTIATED COST	c. ESTIMATED COST OF AUTHORIZED UNPRICED WORK	d. TARGET PROFIT/FEE	e. TARGET PRICE	f. ESTIMATED PRICE	g. CONTRACT CEILING	h. ESTIMATED CONTRACT CEILING	i. DATE OF OTB/OTS (YYYYMMDD)
1	5,588,957	327,684	241,605	5,830,563	6,080,551	5,830,563	6,080,551	

6. ESTIMATED COST AT COMPLETION

7. AUTHORIZED CONTRACTOR REPRESENTATIVE

a. NAME (Last, First, Middle Initial): Dickerson, Kala K
b. TITLE: Prime Contract Compliance Manager
c. SIGNATURE:
d. DATE SIGNED (YYYYMMDD):

	MANAGEMENT ESTIMATE AT COMPLETION (1)	CONTRACT BUDGET BASE (2)	VARIANCE (3)
a. BEST CASE	5,789,471		
b. WORST CASE	5,965,995		
c. MOST LIKELY	5,838,946	5,916,641	77,695

8. PERFORMANCE DATA

CAPN.PBS ITEM (1)	CURRENT PERIOD: BUDGETED COST WORK SCHEDULED (2)	BUDGETED COST WORK PERFORMED (3)	ACTUAL COST WORK PERFORMED (4)	VARIANCE SCHEDULE (5)	VARIANCE COST (6)	CUMULATIVE TO DATE: BUDGETED COST WORK SCHEDULED (7)	BUDGETED COST WORK PERFORMED (8)	ACTUAL COST WORK PERFORMED (9)	VARIANCE SCHEDULE (10)	VARIANCE COST (11)	REPROGRAMMING ADJUSTMENTS: COST VARIANCE (12a)	SCHEDULE VARIANCE (12b)	BUDGET (13)	AT COMPLETION: BUDGETED (14)	ESTIMATED (15)	VARIANCE (16)
RL-0011 Nuclear Mat Stab & Disp PFP	3	0	4,386	-3	-4,386	988,540	972,958	1,089,383	-15,582	-116,425	0	0	0	988,662	1,151,961	-163,299
RL-0012 SNF Stabilization & Disp	2,767	3,128	3,377	361	-249	715,484	715,384	683,450	-100	31,934	0	0	0	740,205	706,792	33,413
RL-0013 Solid Waste Stab & Disp	7,217	5,638	6,638	-1,579	-1,000	1,224,299	1,223,959	1,147,636	-340	76,323	0	0	0	1,341,026	1,260,084	80,942
RL-0030 Soil &Water Rem-Grndwtr/Vadose	6,850	6,555	7,831	-295	-1,276	1,429,171	1,422,293	1,399,348	-6,878	22,946	0	0	0	1,508,664	1,480,474	28,190
RL-0040 Nuc Fac D&D - Remainder Hanfrd	1,824	2,053	1,725	228	327	466,561	464,552	438,256	-2,009	26,296	0	0	0	483,586	459,192	24,393
RL-0041 Nuc Fac D&D - RC Closure Proj	10,437	8,306	7,486	-2,131	820	520,892	525,122	467,425	4,230	57,697	0	0	0	657,079	580,110	76,970
RL-0042 Nuc Fac D&D - FFTF Proj	135	127	86	-8	41	24,897	24,919	20,634	22	4,285	0	0	0	26,487	22,360	4,128
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														128,499	128,499	0
e. SUBTOTAL	29,234	25,807	31,529	-3,427	-5,722	5,369,844	5,349,186	5,246,131	-20,657	103,056	0	0	0	5,874,209	5,789,471	84,737
f. MANAGEMENT RESERVE														49,475		
g. TOTAL	29,234	25,807	31,529	-3,427	-5,722	5,369,844	5,349,186	5,246,131	-20,657	103,056	0	0	0	5,923,684		

9. RECONCILIATION TO CONTRACT BUDGET BASELINE

a. VARIANCE ADJUSTMENT																
b. TOTAL CONTRACT VARIANCE									-20,657	103,056				5,923,684	5,789,471	134,212

** Per email direction received December 6, 2017 from the RL Contracting Officer, CHPRC is authorized to incorporate the value of proposed changes into the baseline, as well as remove work that is not authorized from our execution plan. When a contract alignment settlement is reached, baseline change requests (BCRs) will be processed to align the PMB with the settlement 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 / 12 / 25
b. LOCATION (Address and ZIP Code) Richland, WA	b. NUMBER RL14788		b. PHASE	b. TO *(YYYYMMDD)* 2018 / 01 / 21
	c. TYPE CPAF	d. SHARE RATIO	c. EVMS ACCEPTANCE NO:	X YES *(YYYYMMDD)* 2009 / 09 / 18

5. PERFORMANCE DATA

WBS.Resp Org Group	CURRENT PERIOD					CUMULATIVE TO DATE					REPROGRAMMING ADJUSTMENTS			AT COMPLETION		
	BUDGETED COST		ACTUAL	VARIANCE		BUDGETED COST		ACTUAL	VARIANCE					BUDGETED	ESTIMATED	VARIANCE
ITEM	WORK SCHEDULED	WORK PERFORMED	COST WORK PERFORMED	SCHEDULE	COST	WORK SCHEDULED	WORK PERFORMED	COST WORK PERFORMED	SCHEDULE	COST	COST VARIANCE	SCHEDULE VARIANCE	BUDGET			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12a)	(12b)	(13)	(14)	(15)	(16)
34 - Env Program & Strategic Plng	748	659	742	-89	-83	77,939	77,641	72,066	-298	5,576	0	0	0	85,652	79,903	5,749
35 - Business Services	0	0	12	0	-12	477,296	477,296	453,535	0	23,761	0	0	0	477,296	455,455	21,841
36 - Prime Contract & Proj Integr	116	116	69	0	47	7,440	7,440	4,484	0	2,956	0	0	0	8,807	5,647	3,160
3B - PFP Closure Project	3	0	4,374	-3	-4,374	899,758	884,176	1,008,325	-15,582	-124,150	0	0	0	899,880	1,068,983	-169,103
3C - Waste & Fuels Management Project	7,204	5,624	6,624	-1,579	-1,000	1,114,490	1,114,149	1,037,946	-340	76,204	0	0	0	1,231,054	1,150,180	80,874
3D - Soil & Groundwater Remediation	6,068	5,861	7,064	-207	-1,203	1,250,058	1,243,478	1,220,003	-6,579	23,475	0	0	0	1,321,427	1,292,971	28,456
3G - K Basin Oper & Plateau Remediation Project	7,005	7,772	7,094	766	677	1,386,770	1,389,307	1,310,611	2,537	78,696	0	0	0	1,467,995	1,371,711	96,283
3H - 618-10 and ERDF	3,164	2,591	2,366	-573	225	94,664	98,810	79,651	4,146	19,159	0	0	0	126,809	103,515	23,294
3J - Building 324 Disposition Project	4,927	3,183	3,185	-1,743	-1	61,429	56,889	59,512	-4,540	-2,622	0	0	0	126,790	132,606	-5,816
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														128,499	128,499	0
e. SUBTOTAL *(Performance Measurement Baseline)*	29,234	25,807	31,529	-3,427	-5,722	5,369,844	5,349,186	5,246,131	-20,657	103,056	0	0	0	5,874,209	5,789,471	84,737
f. MANAGEMENT RESERVE														49,475		
g. TOTAL	29,234	25,807	31,529	-3,427	-5,722	5,369,844	5,349,186	5,246,131	-20,657	103,056	0	0	0	5,923,684		

** Per email direction received December 6, 2017 from the RL Contracting Officer, CHPRC is authorized to incorporate the value of proposed changes into the baseline, as well as remove work that is not authorized from our execution plan. When a contract alignment settlement is reached, baseline change requests (BCRs) will be processed to align the PMB with the settlement values.*

CONTRACT PERFORMANCE REPORT FORMAT 3 - BASELINE		DOLLARS IN THOUSANDS	Form Approved OMB No. 0704-0188
1. CONTRACTOR CH2M HILL Plateau Remediation Company b. LOCATION: Richland, WA	2. CONTRACT a. NAME: Plateau Remediation Contract b. NUMBER: RL14788 c. TYPE: CPAF d. SHARE RATIO:	3. PROGRAM a. NAME: Plateau Remediation Contract b. PHASE c. EVMS ACCEPTANCE NO YES X 9/18/2009	4. REPORT PERIOD a. FROM: 2017/12/25 b. TO: 2018/01/21

5. CONTRACT DATA

a. ORIGINAL NEGOTIATED COST	b. NEGOTIATED CONTRACT CHANGE	c. CURRENT NEGOTIATED COST (A + B)	d. ESTIMATED COST AUTH UNPRICED WORK	e. CONTRACT BUDGET BASE (C + D)	f. TOTAL ALLOCATED BUDGET	g. DIFFERENCE (E - F)
4,312,366	$1,276,591	$5,588,957	$327,684	$5,916,641	$5,923,683	($7,042)

h. CONTRACT START DATE	i. DEFINITIZATION DATE	j. PLANNED COMPL DATE	k. CONT COMPLETION DATE	l. EST COMPLETION DATE
6/19/2008	6/19/2008	9/30/2018	9/30/2018	9/30/2018

6. PERFORMANCE DATA — BUDGETED COST FOR WORK SCHEDULED (NON - CUMULATIVE)

ITEM	BCWS CUM TO DATE	BCWS FOR REPORT PERIOD	SIX MONTH FORECAST +1 Feb-18	+2 Mar-18	+3 Apr-18	+4 May-18	+5 Jun-18	+6 Jul-18	FY09-13	FY14	FY15	FY16	FY17	FY18	UNDISTRIB BUDGET	TOTAL BUDGET
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
a. PM BASELINE																
(BEGIN OF PERIOD)	**5,340,610**	**29,170**	**39,546**	**46,748**	**38,126**	**47,034**	**35,652**	**34,869**	**3,391,477**	**391,653**	**471,323**	**504,826**	**485,027**	**506,305**	**122,527**	**5,873,138**
b. BASELINE CHANGES AUTH DURING REPORT PERIOD																
BCR-013-18-012R0 - Convert W-135 WESF Preparation Planning Package to Work Pack														**(1,546)**		**(1,546)**
BCR-013C-18-011R0 - W-135 4-Month Scope Deferral Due to Line Item Funding Unavai														**(1,631)**		**(1,631)**
BCR-040-18-006R0 - Incorporate CO #311, Activity C-4 NTE Increase														**909**		**909**
BCR-041-18-011R0 - 165KE Asbestos Abatement Convert PP, MR Draw and 165KE Demo														**(3,002)**		**(3,002)**
BCR-040-18-007R0 - Incorporate Remaining Demolition Scope for CO 324														**369**		**369**
BCRA-PRC-18-011R0, HPIC Updates January 2018														**0**		**0**
BCR-PRC-18-010R0, Undistributed Budget Adjustments Janaury 2018															**5,972**	**5,972**
c. PM BASELINE (END OF PERIOD)	**5,369,844**	**29,234**	**40,181**	**46,249**	**37,794**	**46,907**	**35,528**	**34,626**	**3,391,477**	**391,653**	**471,323**	**504,826**	**485,027**	**501,403**	**128,499**	**5,874,208**
7. MANAGEMENT RESERVE																**49,475**
8. TOTAL																**5,923,683**

** Per email direction received December 6, 2017 from the RL Contracting Officer, CHPRC is authorized to incorporate the value of proposed changes into the baseline, as well as remove work that is not authorized from our execution plan. When a contract alignment settlement is reached, baseline change requests (BCRs) will be processed to align the PMB with the settlement values.*

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 Plateau Remediation Contract	a. FROM *(YYYYMMDD)* 2017 / 12 / 25
b. LOCATION (Address and ZIP Code) Richland, WA	b. NUMBER RL14788		b. PHASE	b. TO *(YYYYMMDD)* 2018 / 01 / 21
	c. TYPE CPAF	d. SHARE RATIO	c. EVMS ACCEPTANCE NO: [ ] YES: [X] *(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)* SIX MONTH FORECAST BY MONTH *(Enter names of months)* +1 FEB 2018 (4)	+2 MAR 2018 (5)	+3 APR 2018 (6)	+4 MAY 2018 (7)	+5 JUN 2018 (8)	+6 JUL 2018 (9)	ENTER SPECIFIED PERIODS FY18 (10)	1st Qtr FY19 (11)	FY19 (12)	FY19-LC (13)	ATCOMPLETE (14)	AT COMPLETION (15)
300 - Office of the President	8	752	6	6	6	6	6	6	13	0	0	0	0	804
303 - Internal Audit	5	492	5	5	5	5	5	5	9	0	0	0	0	530
304 - General Counsel	4	460	5	5	5	5	5	5	10	0	0	0	0	499
31 - Communications	9	1053	9	9	9	9	9	9	18	0	0	0	0	1123
32 - Safety Health Security & Quality	48	7341	51	53	53	54	55	55	110	0	0	0	0	7772
34 - Env Program & Strategic Plng	37	4971	47	44	44	44	45	46	88	3	0	0	0	5332
35 - Business Services	60	7938	64	64	64	64	64	64	127	0	0	0	0	8447
36 - Prime Contract & Proj Integr	64	5285	66	67	67	68	68	68	135	0	0	0	0	5823
38 - Project Technical Services	38	5702	40	40	40	40	40	40	80	0	0	0	0	6021
3B - PFP Closure Project	156	49891	176	182	172	174	174	175	320	145	0	0	0	51408
3C - Waste & Fuels Management Project	359	51102	333	330	350	343	343	340	663	9	31	0	0	53844
3D - Soil & Groundwater Remediation	301	37321	278	274	270	271	278	278	536	38	26	43	0	39612
3G - K Basin Oper & Plateau Remediation Project	384	48769	387	312	304	271	252	252	502	11	3	0	0	51063
3H - 618-10 and ERDF	91	2237	96	94	93	92	88	70	140	0	0	0	0	2910
3J - Building 324 Disposition Project	146	2125	155	155	150	151	156	150	298	26	0	0	0	3366
g. TOTAL DIRECT	1710	225439	1718	1640	1631	1596	1586	1560	3049	232	60	43	0	238554

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

CLASSIFICATION (When Filled In)

CONTRACT PERFORMANCE REPORT
FORMAT 5 - EXPLANATIONS AND PROBLEM ANALYSES

FORM APPROVED
OMB No. 0704-0188

1. CONTRACTOR	2. CONTRACT		3. PROGRAM	4. REPORT PERIOD
a. NAME CH2M HILL Plateau Remediation Company	**a. NAME** Plateau Remediation Contract		**a. NAME** Plateau Remediation Contract	**a. FROM (YYYY/MM/DD)** **2017/12/25**
b. LOCATION (Address and ZIP Code) Richland, WA 99354	**b. NUMBER** DE-AC06-08RL14788		**b. PHASE** Base	**b. TO (YYYY/MM/DD)** **2018/01/21**
	c. TYPE CPAF	**d. SHARE RATIO**	**c. EVMS ACCEPTANCE** **2009/09/18** **NO** **YES X**	

	BCWS	BCWP	ACWP	SV in $	SV in %	CV in $	CV %	SPI	CPI
Current:	29,234	25,807	31,529	(3,427)	-11.7%	(5,722)	-22.2%	0.88	0.82
Cumulative:	5,369,844	5,349,187	5,246,131	(20,657)	-0.4%	103,056	1.9%	1.00	1.02
	BAC	**EAC**	**VAC in $**	**VAC in %**	**TCPI**				
At Complete:	5,874,209	5,789,471	84,737	1.4%	0.97				

Explanation of Variance/Description of Problem:

Current Period Schedule Variance: The current month (CM) negative schedule variance is primarily due to PBS RL-0041 backfill of the 316-4 Waste Site finishing ahead of schedule when it was originally planned to be completed in March. Additionally, the majority of closeout sampling of the 618-10 Burial Ground was completed ahead of schedule with performance claimed in prior periods, resulting in a current month unfavorable schedule variance. Also contributing to the negative variance is the impact on the schedule of the GFMR procurements which were performed in prior periods. Furthermore, the 300-296 project continues to experience delays in procurement/fabrication of the mockup and 324 equipment resulting from design changes and fabrication difficulties. Moreover, 324 penetration sealing was impacted by delays/difficulties in work package development.

Also contributing to the negative schedule variance is PBS RL-0013 associated with planned FY2018 work scope completed in FY2017 for Large Box Repackaging; delays in W-135 detailed design for CSA due to delayed subcontract award as a result of additional rounds of clarifications extending award into the previous holiday period; and CSS detailed design due to a variance in the baseline and the contractor schedule which is not anticipated to impact the design completion date. Based on the submitted and accepted subcontractor schedule, recovery is projected by the end of the second quarter.

Current Period Cost Variance: The CM negative cost variance is primarily due to PBS RL-0011 recovery actions associated with a December, 2017 contamination event, including fixative applications, performance of radiological surveys, and stabilization activities to support resumption of demolition of the Plutonium Finishing Plant are ongoing. Assignment of CHPRC corporate resources performing an independent assessment of the Root Cause Analysis and corrective actions associated therewith and resources assigned to perform a CHPRC overarching Radiological Controls Assessment and PFP Project Specific Radiological Controls Assessment are also contributing to this variance. In addition, impacts from the contamination event and delay in demolition activities is causing needed extensions of project management hotel load resources to support the remaining D&D work scope until the facility completes demolition activities.

Also contributing to the negative cost variance is PBS RL-0030 due to the nearly $1.0 million in spending incurred in support of P&T optimization (well drilling, well realignments, and document preparation), 100-NR-2 RI/FS rewrite, 200-DV-1 monitored natural attenuation evaluation and shallow soil characterization activities that are not yet planned in the Performance Measurement Baseline (PMB). Additionally, the URGS treatability test design and procurement of the equipment is more costly than planned. The equipment has taken longer to fabricate, requiring more CHPRC design support than originally planned due to safety analyses and hazard controls driven by the use of ammonia gas at the Hanford site.

Cumulative Schedule Variance: The variance is within reporting thresholds.

Cumulative Cost Variance: The variance is within reporting thresholds.

Impact:

Current Period Schedule: The current month schedule variance is not expected to impact the overall contract schedule.

Current Period Cost: CHPRC is actively formulating a PFP Recovery Plan to allow the resumption of PFP Demolition activities.

Cumulative Schedule: N/A

Cumulative Cost: N/A

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

Corrective Action:

Current Period Schedule: No corrective actions have been identified.

Current Period Cost: Cost impacts are being estimated and will be incorporated in the project estimate to complete (ETC).

Cumulative Schedule: N/A

Cumulative Cost: N/A

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

CHPRC continues to track completion of the contract scope within budget and is currently projecting a variance at completion (VAC) of $84.7 million, with $49.5 million of management reserve (MR), for a total positive variance of $134.2 million. For January, the project was 11.7 percent behind schedule and 22.2 percent over planned cost. Contract to date (CTD), the project was 0.4 percent behind schedule and 1.9 percent under planned cost.

The VAC decreased $39.8 million from last month largely due to a $33.3 million increase to PBS RL-0011's forecast. A more accurate EAC for PBS RL-0011 will be developed upon completion and approval of a recovery plan addressing the root causes of the unplanned releases.

There were five of the eight BCRs in the period that impacted the PMB:

BCR-013-018-012R0, Conversion of W-135 WESF Preparation Planning Packages
BCR-013C-18-011R0, W-135 4-Month Scope Deferral Due to Line Item Funding Unavailability
BCR-040-18-006R0, Incorporate CO #311, Activities A and C-4 Remaining Work
BCR-040-18-007R0, Implement Remaining Demolition Scope for CO #324
BCR-041-18-011R0, 165KE Asbestos Abatement Convert PP, MR Draw and 165KE Demo Deduct

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 + $84.7 million, +1.4% and is within reporting thresholds.

Format 1 and 3 Contract Data:

Contract Price Adjustments

CPs - In Process		
	Total Authorized Unpriced Work	$327,684
Approved Adjustments to Contract Price (not reflected in B.4-1 Table)		
	Total Negotiated Cost Changes	-
	Grand Total Adjustments	$327,684

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

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

Undistributed Budget Activity

BCR Number	Title	PBS	Fiscal Year	UB
BCR-PRC-18-010R0	*Undistributed Budget 2018*	RL-0013, RL-0040, RL-0041	2018	$5,972K

The Undistributed Budget increased by $5,972K.

Management Reserve Activity

BCR Number	Title	PBS	Fiscal Year	MR
BCR-013-18-012R0	*Conversion of W-135 WESF Preparation Planning Packages*	RL-0013	2018	$1,485K
BCR-041-18-011R0	*165KE Asbestos Abatement Convert PP, MR Draw and 165KE Demo Deduct*	RL-0041	2018	$-1,577K

Overall, there was a decrease in Management Reserve (MR) of $92K during January.

Fee Activity

BCR Number	Title	PBS	Fiscal Year	Fee
N/A	*N/A*	N/A	2018	N/A

Overall, there was no change to the Fee during January.

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:	Date:	Approved by:	Date:
Project Control Staff	02/21/2018		

** Per email direction received December 6, 2017 from the RL Contracting Officer, CHPRC is authorized to incorporate the value of proposed changes into the baseline, as well as remove work that is not authorized from our execution plan. When a contract alignment settlement is reached, baseline change requests (BCRs) will be processed to align the PMB with the settlement 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

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

January 2018
CHPRC-2018-01, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

This section is reported quarterly.

Appendix C
Capital Asset Projects

January 2018
CHPRC-2018-01, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

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

K. A. Wooley
(Acting) Vice President for
Plutonium Finishing Plant
Closure Project

January 2018
CHPRC-2018-01, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

Progress has been temporarily put on hold on work associated with CD-4 closure to remove the final glovebox from the 234-5Z facility during demolition. Remaining glovebox (HA-46) has been staged until the area of the 234-5Z facility is demolished where it currently resides. The total number of gloveboxes removed to date is 173 and is 99 percent complete.

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

Key Metrics	*Current Month Plan*	*Current Month Actuals*	*Cumulative Plan*	*Cumulative Actuals*
Glovebox/Hood Removed	-	0	174	173
COMPLETE KPP Rooms/Areas Ready for Demo	-	0	72	72 rooms/areas

KEY ACCOMPLISHMENTS

RL-0011_C1 Accomplishments

- Recovery efforts from the December 2017 contamination event are underway. No work to complete removal of the final glovebox from the 234-5Z facility was conducted during the month of January.

MAJOR ISSUES

On December 18, 2017, contamination was found in the Plutonium Finishing Plant (PFP) project outside of the trailers in the administrative office area during a follow-up survey conducted after a spread of low-level contamination was found on Friday, December 15, 2017, outside of the expanded demolition control zones. Surveys also found contamination on personal vehicles that had been driven off the Hanford site. Work was stopped after the second event, pending completion of a root cause analysis, and development of corrective actions and a recovery plan. CHPRC continues the process of finalizing the root cause analysis and working with RL and regulators to develop a recovery plan to enable demolition activities to resume. Some of the activities that were performed during January were:

- Placement of sand and soil over contaminated debris and equipment to prevent further contamination spread.
- Radiological surveys, decontamination, and pressure washing to release trailers/vehicles/equipment.
- Implementation of additional radiological monitoring (i.e., CAMs, cookie sheets).
- Mobilization of supplies and equipment to maintain the PFP footprint in a safe configuration.
- Application of fixatives (i.e., paints, stabilization agents) to items and areas on the PFP work control zone.
- Maintenance, repair, and rebuild of existing equipment and systems in a safe/compliant configuration.
- Initiation of activities to reconfigure boundaries, canister transfer areas, loadout areas, and waste storage areas to accommodate larger work control zone.
- Reconfiguration of equipment in the PFP work control zone to support stabilization activities (water systems, foggers, etc.).

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 Month	 Trend	Comments
RL-0011/WBS-011.05.01.01.06 (CAP.1)				
Explanation of major changes to the project monthly stoplight chart: No major changes to the monthly stoplight chart in January.				
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 January.				
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)				
No critical risks identified for RL-0011/WBS-011.05.01.01.06 (CAP.1) in January.				
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)				
PFP-DEMO-21: Glovebox/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 fiscal year (FY) 2018. **Mitigation action(s)** / **FC Date** / **%** None identified at this time. / N/A / N/A **Mitigation Assessment:** No major changes in January. The mitigation strategies have been put in place; as a result, the risk strategy is to accept with no further mitigation actions identified at this time. PFP will continue to adhere to the CHPRC Integrated Safety Management System (ISMS) program/hoisting and rigging program to include detailed analyses of potential hazards and identification of preventive measures to implement prior to starting the work. At this time, no alternative course of actions are needed. One glovebox remains in the 234-5Z facility (HA-46) and will be removed once demolition resumes.
Unassigned Risks (Pending ownership of identified risks/opportunities)				
No unassigned risks identified for RL-0011/WBS-011.05.01.01.06 (CAP.1) in January.				

CRITICAL PATH SCHEDULE

The PFP critical path schedule begins with the continuation front side demo CSZ 2.5 in 234-5Z. After front side CSZ 2.5 is complete, Remote Mechanical C (RMC) process line and Remote Mechanical A (RMA) process line demo will come next. The final glovebox will be removed during RMA zone 6 demolition. This will allow the project to complete CD-4 closeout on the RL-0011.C1 project with CD-4 finishing August 22, 2018. The dates above are reflective of the known actions and recovery efforts associated with a contamination event that occurred in December as of January month-end closing and will be updated as more information is made available from the Root Cause Analysis and recovery plan.

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	8/22/18	Progress has been temporarily put on hold on work associated with CD-4 closure to remove the final glovebox from the 234-5Z facility during demolition. On Friday, December 15, 2017, swing shift RadCon personnel performing routine surveys following the day shift demolition activities discovered low-level contamination on a cookie sheet. This led to a wider search, and a "speck" of contamination was smeared from a government vehicle. A CHPRC management stop work on demolition activities was declared and a critique was held to discuss the contamination spread, possible causes, and a path forward. A root cause analysis is being conducted and recovery actions and expected completion dates will be identified after it has been completed. There was a 72-day loss since December as a result of corrective actions that were known at January month-end that have been incorporated into the current recovery schedule to re-start demolition activities. The total gloveboxes removed to date remains at 99 percent complete. Completion of CD-4 closure by November 30, 2017, was not achieved.

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

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

Nothing to report at this time.

DOE ACTIONS / DECISIONS

Working with RL on CD-4 closure actions. CD-4 closure date of November 30, 2017, was not met.

Appendix C.1
RL-0011.C1 – PFP D&D
(Removal of 174 Gloveboxes from 234-5Z)
Contract Performance Reports

Format 1 - Work Breakdown Structure

Format 2 - Organizational Categories

Format 3 - Baseline

Format 4 - Staffing

Format 5 - Explanation and Problem Analysis

ch2m

January 2018
CHPRC-2018-01, 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_C1 - PFP D&D (ARRA/Base)	a. FROM *(YYYYMMDD)* 2017 / 12 / 25
b. LOCATION (Address and ZIP Code) Richland, WA	b. NUMBER RL14788	b. PHASE	b. TO *(YYYYMMDD)* 2018 / 01 / 21
	c. TYPE CPAF / d. SHARE RATIO	c. EVMS ACCEPTANCE NO X YES *(YYYYMMDD)* 2009 / 09 / 18	

5. CONTRACT DATA

a. QUANTITY	b. NEGOTIATED COST	c. ESTIMATED COST OF AUTHORIZED UNPRICED WORK	d. TARGET PROFIT/FEE	e. TARGET PRICE	f. ESTIMATED PRICE	g. CONTRACT CEILING	h. ESTIMATED CONTRACT CEILING	i. DATE OF OTB/OTS *(YYYYMMDD)*
1	330,987	0	9,878	340,865	344,855	340,865	344,855	

6. ESTIMATED COST AT COMPLETION

	MANAGEMENT ESTIMATE AT COMPLETION (1)	CONTRACT BUDGET BASE (2)	VARIANCE (3)
a. BEST CASE	332,584		
b. WORST CASE	334,983		
c. MOST LIKELY	334,977	330,987	-3,990

7. AUTHORIZED CONTRACTOR REPRESENTATIVE

a. NAME (Last, First, Middle Initial): Dickerson, Kala K

b. TITLE: Prime Contract Compliance Manager

c. SIGNATURE

d. DATE SIGNED *(YYYYMMDD)*

8. PERFORMANCE DATA

CAPN.PBS Control Account.PARS 2 WBS (2) ITEM (1)	CURRENT PERIOD BUDGETED COST WORK SCHEDULED (2)	CURRENT PERIOD BUDGETED COST WORK PERFORMED (3)	CURRENT PERIOD ACTUAL COST WORK PERFORMED (4)	CURRENT PERIOD VARIANCE SCHEDULE (5)	CURRENT PERIOD VARIANCE COST (6)	CUMULATIVE TO DATE BUDGETED COST WORK SCHEDULED (7)	CUMULATIVE TO DATE BUDGETED COST WORK PERFORMED (8)	CUMULATIVE TO DATE ACTUAL COST WORK PERFORMED (9)	CUMULATIVE TO DATE VARIANCE SCHEDULE (10)	CUMULATIVE TO DATE VARIANCE COST (11)	REPROGRAMMING ADJUSTMENTS COST VARIANCE (12a)	REPROGRAMMING ADJUSTMENTS SCHEDULE VARIANCE (12b)	REPROGRAMMING ADJUSTMENTS BUDGET (13)	AT COMPLETION BUDGETED (14)	AT COMPLETION ESTIMATED (15)	AT COMPLETION VARIANCE (16)
RL-0011 Nuclear Mat Stab & Disp PFP																
RL_0011_C1.02 Maintain Safe & Compliant PFP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RL_0011_C1.05 Disposition PFP Facility	0	0	0	0	0	235,514	235,495	259,783	-19	-24,288	0	0	0	235,514	259,797	-24,282
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
e. SUBTOTAL	0	0	0	0	0	315,152	315,133	332,570	-19	-17,438	0	0	0	315,152	332,584	-17,432
f. MANAGEMENT RESERVE														2,393		
g. TOTAL	0	0	0	0	0	315,152	315,133	332,570	-19	-17,438	0	0	0	317,545		
9. RECONCILIATION TO CONTRACT BUDGET BASELINE																
a. VARIANCE ADJUSTMENT																
b. TOTAL CONTRACT VARIANCE									-19	-17,438				317,545	332,584	-15,039

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

CLASSIFICATION (When Filled In)

CONTRACT PERFORMANCE REPORT
FORMAT 2 - ORGANIZATIONAL CATEGORIES

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

1. CONTRACTOR	2. CONTRACT		3. PROGRAM	4. REPORT PERIOD
a. NAME CH2M HILL Plateau Remediation Company	a. NAME Plateau Remediation Contract		a. NAME RL_0011_C1 - PFP D&D (ARRA/Base)	a. FROM *(YYYYMMDD)* 2017 / 12 / 25
b. LOCATION (Address and ZIP Code) Richland, WA	b. NUMBER RL14788		b. PHASE	b. TO *(YYYYMMDD)* 2018 / 01 / 21
	c. TYPE CPAF	d. SHARE RATIO	c. EVMS ACCEPTANCE NO [ ] YES [X] *(YYYYMMDD)* 2009 / 09 / 18	

5. PERFORMANCE DATA

WBS.Resp Org Group	CURRENT PERIOD					CUMULATIVE TO DATE					REPROGRAMMING ADJUSTMENTS			AT COMPLETION		
	BUDGETED COST		ACTUAL	VARIANCE		BUDGETED COST		ACTUAL	VARIANCE							
ITEM	WORK SCHEDULED	WORK PERFORMED	COST WORK PERFORMED	SCHEDULE	COST	WORK SCHEDULED	WORK PERFORMED	COST WORK PERFORMED	SCHEDULE	COST	COST VARIANCE	SCHEDULE VARIANCE	BUDGET	BUDGETED	ESTIMATED	VARIANCE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12a)	(12b)	(13)	(14)	(15)	(16)
35 - Business Services	0	0	0	0	0	60,427	60,427	52,580	0	7,847	0	0	0	60,427	52,580	7,847
3B - PFP Closure Project	0	0	0	0	0	254,725	254,706	279,990	-19	-25,284	0	0	0	254,725	280,004	-25,279
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	0	0	0	0	315,152	315,133	332,570	-19	-17,438	0	0	0	315,152	332,584	-17,432
f. MANAGEMENT RESERVE														2,393		
g. TOTAL	0	0	0	0	0	315,152	315,133	332,570	-19	-17,438	0	0	0	317,545		

CLASSIFICATION (When Filled In)

CONTRACT PERFORMANCE REPORT

FORMAT 3 - BASELINE

DOLLARS IN THOUSANDS

Form Approved

OMB No. 0704-0188

1. CONTRACTOR	2. CONTRACT	3. PROGRAM	RL_0011_C1 - PFP D&D (ARRA/Base)	4. REPORT PERIOD
CH2M HILL Plateau Remediation Company	a. NAME: Plateau Remediation Contract	a. NAME:	Plateau Remediation Contract	a. FROM: 2017/12/25
b. LOCATION:	b. NUMBER: RL14788	b. PHASE		b. TO: 2018/01/21
Richland, WA	c. TYPE: CPAF	c. EVMS ACCEPTANCE		
	d. SHARE RATIO:	NO	YES X 9/18/2009	

5. CONTRACT DATA

a. ORIGINAL NEGOTIATED COST	b. NEGOTIATED CONTRACT CHANGE	c. CURRENT NEGOTIATED COST (A + B)	d. ESTIMATED COST AUTH UNPRICED WORK	e. CONTRACT BUDGET BASE (C + D)	f. TOTAL ALLOCATED BUDGET	g. DIFFERENCE (E - F)
330,987	$0	$330,987	$0	$330,987	$317,545	$13,442

h. CONTRACT START DATE	i. DEFINITIZATION DATE	j. PLANNED COMPL DATE	k. CONT COMPLETION DATE	l. EST COMPLETION DATE
6/19/2008	6/19/2008	9/30/2018	9/30/2018	9/30/2018

6. PERFORMANCE DATA

BUDGETED COST FOR WORK SCHEDULED (NON - CUMULATIVE)

ITEM	BCWS CUM TO DATE	BCWS FOR REPORT PERIOD	SIX MONTH FORECAST +1 Feb-18	+2 Mar-18	+3 Apr-18	+4 May-18	+5 Jun-18	+6 Jul-18	FY09-13	FY14	FY15	FY16	FY17	FY18	UNDISTRIB BUDGET	TOTAL BUDGET
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
a. PM BASELINE																
(BEGIN OF PERIOD)	**315,152**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**302,288**	**4,109**	**7,749**	**890**	**116**	**0**	**0**	**315,152**
b. BASELINE CHANGES AUTH DURING REPORT PERIOD																
None at this time.											**0**	**0**	**0**	**0**	**0**	**0**
c. PM BASELINE (END OF PERIOD)	**315,152**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**302,288**	**4,109**	**7,749**	**890**	**116**	**0**	**0**	**315,152**
7. MANAGEMENT RESERVE																**2,393**
8. TOTAL																**317,545**

CONTRACT PERFORMANCE REPORT
FORMAT 4 - STAFFING

Dollars in: FTE

FORM APPROVED
OMB No. 0704-0188

1. CONTRACTOR	2. CONTRACT		3. PROGRAM	4. REPORT PERIOD
a. NAME CH2M HILL Plateau Remediation Company	a. NAME Plateau Remediation Contract		a. NAME RL_0011_C1 - PFP D&D (ARRA/Base)	a. FROM *(YYYYMMDD)* 2017 / 12 / 25
b. LOCATION (Address and ZIP Code) Richland, WA	b. NUMBER RL14788		b. PHASE	b. TO *(YYYYMMDD)* 2018 / 01 / 21
	c. TYPE CPAF	d. SHARE RATIO	c. EVMS ACCEPTANCE NO:	YES: X *(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)* SIX MONTH FORECAST BY MONTH *(Enter names of months)* +1 FEB 2018 (4)	+2 MAR 2018 (5)	+3 APR 2018 (6)	+4 MAY 2018 (7)	+5 JUN 2018 (8)	+6 JUL 2018 (9)	ENTER SPECIFIED PERIODS FY18 (10)	1st Qtr FY19 (11)	FY19 (12)	FY19-LC (13)	ATCOMPLETE (14)	AT COMPLETION (15)
35 - Business Services	0	17	0	0	0	0	0	0	0	0	0	0	0	17
3B - PFP Closure Project	0	15442	0	0	0	0	1	0	0	0	0	0	0	15443
g. TOTAL DIRECT	0	15459	0	0	0	0	1	0	0	0	0	0	0	15460

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	a. NAME		a. NAME			a. FROM (YYYYMMDD)
CH2M HILL Plateau Remediation Company	Plateau Remediation Contract		MPB - RL_0011_C1 - PFP D&D (ARRA/Base)			
b. LOCATION (Address and ZIP Code)	b. NUMBER		b. PHASE			2017/12/25
Richland, WA	RL14788					b. TO (YYYYMMDD)
	c. TYPE	d. SHARE RATIO	c. EVMS ACCEPTANCE			
	CPAF		No	X	Yes (YYYYMMDD) 2009 / 09 / 18	2018/01/21

Direct Projects

5. Evaluation	Budget	Earned	Actuals	SV in $	SV in %	CV in $	CV in %	SPI	CPI
Current:	0	0	0	0	-	0	-	-	-
Cumulative:	315,152	315,133	332,570	-19	0.0%	-17,438	-5.5%	1.00	0.95
	BAC	EAC	VAC in $	VAC in %	TCPI to BAC	TCPI to EAC			
At Complete:	315,152	332,584	-17,432	-5.5%	-	1.40			

Explanation of Variance/Description of Problem:
Current Period:
Schedule Variance: The schedule variance is within threshold.
Cost Variance: The current month cost variance is within threshold.

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

Impact:
Impact: The RL-011.C1 project baseline completion date is December 16, 2016. The current schedule now reflects a completion date of August 22, 2018. There was a 72-day loss since December as a result of corrective actions that were identified at January month-end that have been incorporated into the current recovery schedule to re-start demolition activities.

The current RL-11 performance schedule indicates that the PFP project will achieve slab-on-grade by December 29, 2017. On Friday, December 15, 2017 swing shift RadCon personnel performing routine surveys following the day shift demolition activities discovered low level contamination on a cookie sheet. This led to a wider search, and a "speck" of contamination was smeared from a government vehicle. A CHPRC management stop work on demolition activities was declared and a critique held to discuss the contamination spread, possible causes, and path forward. A root cause analysis is being conducted and recovery actions and expected completion dates will be identified after it has been completed. There was a 72-day loss since December month-end as a result of the contamination event described above. 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 which allowed for 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 regulators were notified in advance that the PFP Project would not meet the re-negotiated TPA milestone M-083-00A due date of 9/30/17 for achieving slab-on-grade. In addition, the December 30, 2017 CD-4 date was not achieved.

Cost Impact: The historical negative cost variance of ~$17.4M and 5.5%, 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 and preparations and removal of the HA-7A, HC18M and HC-7C and 227S and 227T gloveboxes. This 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 and removal of the three RADTU and HA-46 gloveboxes by demolishing them with the 234-5Z facility.

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

Corrective Action:
None at this time

No Corrective Actions Required
1. Schedule Margin Analysis: There is no schedule margin associated with the RL-011.C1 capital asset account.
2. IMS Data dictionary Changes: None in the month of January.
3. Forecast Schedule with No Baseline: None in the month of January.
4. UB Balance: None in the month of January.
5. Negative ACWP: None in the month of January.
6. EAC Analysis: Best Case = $332,584; Most Likely = $334,977; Worst Case = $334,983
7. 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.
8. MR Transactions: None in the month of January.
9. Freeze Period Changes: None in the month of January.
10. Retroactive Changes: None in the month of January.
11. EVT Changes: None in the month of January.

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

Appendix C.2
Capital Asset Project
RL-0011.C2 - Demolition of PFP Facilities

K. A. Wooley
(Acting) Vice President for
Plutonium Finishing Plant
Closure Project

January 2018
CHPRC-2018-01, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

Progress has been temporarily put on hold on PFP demolition activities. Demolition on the Plutonium Reclamation Facility (PRF) that began on November 8, 2016, remains at 87 percent complete. Demolition of 291-Z commenced on June 30, 2017. The 291-Z stack was demolished on July 15, 2017, and loadout has been completed. Completed demolition of the 234-5ZA facility, as well as demolition of 2735Z, 2734ZA, ZB, ZC, ZD, and ZL facilities. Initiated demolition of 234-5Z on September 13, 2017, and remains at 53 percent complete. Completion of all demolition activities are scheduled to occur in late August 2018. The August date is reflective of the known actions and recovery efforts associated with a contamination event that occurred in December and will be updated as more information is made available from the Root Cause Analysis, identified corrective actions, and recovery plan.

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

Key Metrics	*Current Month Plan*	*Current Month Actuals*	*Cumulative Plan*	*Cumulative Actuals*
COMPLETE Cold and Dark/Demo Ready activities for 234-5Z	-	-	1	1
COMPLETE Cold and Dark/Demo Ready activities for 236-Z	-	-	1	1
COMPLETE Cold and Dark/Demo Ready activities for 242-Z	-	-	1	1
COMPLETE Cold and Dark/Demo Ready activities for 291-Z	-	-	1	1
Complete Cold and Dark/Demo Ready activities for PFP Ancillary Facilities	-	-	15	14
Complete Demolition of 234-5Z	-	-	1	-
Complete Demolition of 236-Z	-	-	1	-
COMPLETE Demolition of 242-Z	-	-	1	1
COMPLETE Demolition of 291-Z	-	-	1	1
Complete Demolition of PFP Ancillary Facilities	-	-	15	14
Turnover Facility to Long Term Surveillance & Maintenance	-	-	-	-

KEY ACCOMPLISHMENTS

RL-0011_C2 Accomplishments

- Recovery efforts to achieve stabilization are underway associated with the December 2017 contamination event. Efforts include:
  - Plating in MO-273 with pit run.
  - Downposting the High Contamination Area (HCA)/Airborne Radioactivity Area (ARA)/Contamination Area (CA) in the MO-273 Area.
  - Area around MO-273 has been roped off and signage posted.
- Initiated hauling of pit run and staging it on the east and west ends of the HCA/ARA.
- Routine application of fixatives.
- Routine radiological surveys.
- Extra radiological surveys when sustained winds are 20 miles per hour or greater.

MAJOR ISSUES

On December 18, 2017, contamination was found in the PFP project outside of the trailers in the administrative office area during a follow-up survey conducted after a spread of low-level contamination was found on Friday, December 15, 2017, outside of the expanded demolition control zones. Surveys also found contamination on personal vehicles that had been driven off the Hanford site. Work was stopped after the second event, pending completion of a root cause analysis, and development of corrective actions, and a recovery plan. CHPRC continues the process of finalizing the root cause analysis and working with RL and regulators to develop a recovery plan to enable demolition activities to resume. Some of the activities that were performed during January were:

- Placement of sand and soil over contaminated debris and equipment to prevent further contamination spread.
- Radiological surveys, decontamination, and pressure washing to release trailers/vehicles/equipment.
- Implementation of additional radiological monitoring (i.e., CAMs, cookie sheets).
- Mobilization of supplies and equipment to maintain the PFP footprint in a safe configuration.
- Application of fixatives (i.e., paints, stabilization agents) to items and areas on the PFP work control zone.
- Maintenance, repair, and rebuild of existing equipment and systems in a safe/compliant configuration.
- Initiation of activities to reconfigure boundaries, canister transfer areas, loadout areas, and waste storage areas to accommodate a larger work control zone.
- Reconfiguration of equipment in the PFP work control zone to support stabilization activities (water systems, foggers, etc.).

CORRECTIVE ACTION LOG

Reference Appendix C.2 Format 5 for specific corrective actions for this CAP.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

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

- Increased Confidence
- No Change
- Decreased Confidence

Risk Title Risk Owner	Unmitigated Risk Impacts	Assessment Month	 Trend	Comments
RL-0011/WBS-011.05.C3 (CAP.2)				
Explanation of major changes to the project monthly stoplight chart: Risk PFP-DEMO-07, *Removal/Extraction of Equipment Takes Longer Than Planned*, was moved to the realized risk section of the stoplight chart to reflect the recent contamination event.				
Realized Risks (Risks that are currently impacting project cost/schedule)				
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:** Medium (26% to 74%) **Worst Case Impacts:** $3 million, 60 days			**Risk Event:** On Friday, December 15, 2017, swing shift RadCon personnel performing routine surveys following the day shift demolition activities discovered low-level contamination on a cookie sheet. This led to a wider search, and a "speck" of contamination was smeared from a government vehicle. **Risk recovery action(s)** / **FC Date** / **%** See Below / Ongoing / N/A **Risk Action Assessment:** A CHPRC management stop work on demolition activities was declared and a critique held to discuss the contamination spread, possible causes, and a path forward. A root cause analysis is being conducted, and recovery actions and expected completion dates will be identified after it has been completed. One glovebox remains in the 234-5Z facility (HA-46) and will be removed once demolition resumes. During January a number of recovery actions from the contamination spread were initiated. They included: • Placement of sand and soil, and over contaminated debris and equipment to prevent further contamination spread • Radiological surveys, decontamination and pressure washing to release trailers/vehicles/equipment • Implementation of additional radiological monitoring (i.e., CAMs, cookie sheets) • Mobilization of supplies and equipment to maintain the PFP footprint in a safe configuration • Application of fixatives (i.e., paints, stabilization agents) to items and areas on the PFP work control zone • Maintenance, repair and rebuild of existing equipment and systems in safe/compliant configuration • Initiation of activities to reconfigure boundaries, canister transfer areas, loadout areas, waste storage areas, to accommodate larger work control zone • Reconfiguration of equipment in the PFP work control zone to support stabilization activities (water systems, foggers, etc.)

Risk Title Risk Owner	Unmitigated Risk Impacts	Assessment Month	Assessment Trend	Comments
RL-0011/WBS-011.05.C3 (CAP.2)				
PFP-DEMO-12: PFP/PRF Demolition Contamination Levels	Contamination levels on the canyon walls, floors, ventilation ducts, and the remaining areas of PFP will be higher than expected, thus requiring more stringent controls than expected or larger than expected waste volumes, resulting in cost impacts and schedule delays. **Risk Handling Strategy:** Accept **Probability:** Medium (26% to 74%) **Worst Case Impacts:** $1.5 million, 22 days			**Risk Event:** On Friday, December 15, 2017, swing shift RadCon personnel performing routine surveys following the day shift demolition activities discovered low-level contamination on a cookie sheet. This led to a wider search, and a "speck" of contamination was smeared from a government vehicle. **Risk recovery action(s)** / **FC Date** / **%** See Below / Ongoing / N/A **Risk Action Assessment:** A CHPRC management stop work on demolition activities was declared and a critique held to discuss the contamination spread, possible causes, and path forward. A root cause analysis is being finalized, and recovery actions and expected completion dates will be identified after it has been completed. During January a number of recovery actions from the contamination spread were initiated. They included: • Placement of sand and soil, and over contaminated debris and equipment to prevent further contamination spread • Radiological surveys, decontamination and pressure washing to release trailers/vehicles/equipment • Implementation of additional radiological monitoring (i.e., CAMs, cookie sheets) • Mobilization of supplies and equipment to maintain the PFP footprint in a safe configuration • Application of fixatives (i.e., paints, stabilization agents) to items and areas on the PFP work control zone • Maintenance, repair and rebuild of existing equipment and systems in safe/compliant configuration • Initiation of activities to reconfigure boundaries, canister transfer areas, loadout areas, waste storage areas, to accommodate larger work control zone • Reconfiguration of equipment in the PFP work control zone to support stabilization activities (water systems, foggers, etc.)

<table>
<tr><th>Risk Title
Risk Owner</th><th>Unmitigated Risk Impacts</th><th colspan="2">Assessment
Month | Trend</th><th>Comments</th></tr>
<tr><td colspan="5">RL-0011/WBS-011.05.C3 (CAP.2)</td></tr>
<tr><td>PFP-DEMO-16: Contamination Spread Beyond Established Boundaries</td><td>Unplanned transport of contamination from posted areas due to dust suppression liquid flow, natural events, or wildlife result in cost impacts and schedule delays.
Risk Handling Strategy: Accept

Probability: Medium (26% to 74%)
Worst Case Impacts: $3 million, 30 days</td><td>  </td><td>  </td><td>Risk Event: On December 18, 2017, contamination was found in the project's administrative office area during a follow-up survey conducted after a spread of low-level contamination was found on Friday, December 15, 2017, outside of the expanded control zones. Surveys also found contamination on personal vehicles that had been driven off the Hanford site.

<table><tr><th>Risk recovery action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>See Below</td><td>Ongoing</td><td>N/A</td></tr></table>
Risk Action Assessment:
A CHPRC management stop work on demolition activities was declared and a critique held to discuss the contamination spread, possible causes, and a path forward. A root cause analysis is being finalized, and recovery actions and expected completion dates will be identified after it has been completed. During January a number of recovery actions from the contamination spread were initiated. They included:

• Placement of sand and soil, and over contaminated debris and equipment to prevent further contamination spread
• Radiological surveys, decontamination and pressure washing to release trailers/vehicles/equipment
• Implementation of additional radiological monitoring (i.e., CAMs, cookie sheets)
• Mobilization of supplies and equipment to maintain the PFP footprint in a safe configuration
• Application of fixatives (i.e., paints, stabilization agents) to items and areas on the PFP work control zone
• Maintenance, repair and rebuild of existing equipment and systems in safe/compliant configuration
• Initiation of activities to reconfigure boundaries, canister transfer areas, loadout areas, waste storage areas, to accommodate larger work control zone
• Reconfiguration of equipment in the PFP work control zone to support stabilization activities (water systems, foggers, etc.)</td></tr>
<tr><td colspan="5">Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)</td></tr>
<tr><td colspan="5">FY2018 Risk Triggers (Risk could be realized in FY2018)</td></tr>
<tr><td>PFP-DEMO-05: Inclement Weather</td><td>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.</td><td>  </td><td>  </td><td>Risk Trigger: Extreme cold temperature, accumulating snow showers resulting in site delays/closures, and high winds.

<table><tr><th>Mitigation action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>Implement overtime (OT) shifts as necessary to mitigate further impacts associated with weather.</td><td>Ongoing</td><td>N/A</td></tr></table>
Mitigation Assessment:
During January, there were no weather impacts. However, the risk remains critical due to potential high-wind, winter weather delays, and cold temperatures having the ability to impact the planned demolition. The PFP project will continue to adjust the daily work scope to plan for projected weather impacts.</td></tr>
<tr><td colspan="5">High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)</td></tr>
</table>

<table>
<tr><th>Risk Title
Risk Owner</th><th>Unmitigated Risk Impacts</th><th colspan="2">Assessment
Month | Trend</th><th>Comments</th></tr>
<tr><td colspan="5">RL-0011/WBS-011.05.C3 (CAP.2)</td></tr>
<tr><td>PFP-DEMO-21: Glovebox/Equipment Removal/Demolition Material</td><td>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</td><td>  </td><td>  </td><td>Risk Trigger: During pre-demolition/demolition activities in fiscal year (FY) 2018.

<table><tr><th>Mitigation action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>None identified at this time.</td><td>N/A</td><td>N/A</td></tr></table>
Mitigation Assessment:
No major changes in January.
The mitigation strategies have been put in place; as a result, the risk strategy is to accept with no further mitigation actions identified at this time. PFP will continue to adhere to the CHPRC Integrated Safety Management System (ISMS) program/hoisting and rigging program to include detailed analyses of potential hazards and identification of preventive measures to implement prior to starting the work. At this time, no alternative course of actions are needed. One glovebox remains in the 234-5Z facility (HA-46) and will be removed once demolition resumes.</td></tr>
<tr><td colspan="5">Unassigned Risks (Pending ownership of identified risks/opportunities)</td></tr>
<tr><td colspan="5">No unassigned risks identified in January.</td></tr>
</table>

CRITICAL PATH SCHEDULE

The PFP critical path schedule begins with the continuation front side demo CSZ 2.5 in 234-5Z. After front side CSZ 2.5 is complete, Remote Mechanical C (RMC) process line and Remote Mechanical A (RMA) process line demo will come next, followed by completion of the basement of 234-5Z demolition. Demolition of 234-5Z completes July 9, 2018. The 236-Z canyon demolition will then resume with completion scheduled for August 29, 2018, meeting the requirements for the Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) Milestone – M-083-00A – PFP Facility Transition and Selection Disposition Activities. Completion of demolition is followed by site stabilization and demobilization, turnover to surveillance and maintenance, and CD-4 RL-0011.C2 project closeout activities scheduled to complete November 13, 2018. The dates above are reflective of the known actions and recovery efforts as of January month-end closing that are associated with a contamination event that occurred in December 2017, and will be updated as more information is made available from the Root Cause Analysis and recovery plan.

SCHEDULE MARGIN/MANAGEMENT RESERVE

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

CRITICAL DECISION MILESTONE STATUS

Number	Title	* Due Date	**Forecast Date	Status/ Comment
RL-011.C2	Completion Demolition of all PFP Facilities.	8/31/18	11/13/18	Progress has been temporarily put on hold on PFP demolition activities. There was a 17-day loss of schedule for January. This was a result of incorporation of corrective actions from the contamination event that occurred on Friday, December 15, 2017, during swing shift wherein RadCon personnel performing routine surveys following the day-shift demolition activities discovered low-level contamination on a cookie sheet. This led to a wider search, and a "speck" of contamination was smeared from a government vehicle. A CHPRC management stop work on demolition activities was declared and a critique held to discuss the contamination spread, possible causes, and a path forward. A root cause analysis is being conducted and upon completion recovery actions with expected completion dates will be identified.

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

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None to report at this time.

DOE ACTIONS / DECISIONS

Working with RL on CD-4 closure actions.

Appendix C.2
RL-0011.C2 - Demolition of PFP Facilities
Contract Performance Reports

Format 1 - Work Breakdown Structure

Format 2 - Organizational Categories

Format 3 - Baseline

Format 4 - Staffing

Format 5 - Explanation and Problem Analysis

January 2018
CHPRC-2018-01, Rev. 0
Contract DE-AC07-08RL14788
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 / 12 / 25
b. LOCATION (Address and ZIP Code) Richland, WA	b. NUMBER RL14788	b. PHASE	b. TO (YYYYMMDD) 2018 / 01 / 21
	c. TYPE CPAF / d. SHARE RATIO	c. EVMS ACCEPTANCE NO: X YES (YYYYMMDD) 2009 / 09 / 18	

5. CONTRACT DATA

a. QUANTITY	b. NEGOTIATED COST	c. ESTIMATED COST OF AUTHORIZED UNPRICED WORK	d. TARGET PROFIT/FEE	e. TARGET PRICE	f. ESTIMATED PRICE	g. CONTRACT CEILING	h. ESTIMATED CONTRACT CEILING	i. DATE OF OTB/OTS (YYYYMMDD)
1	51,683	0	5,000	56,683	110,409	56,683	110,409	

6. ESTIMATED COST AT COMPLETION

	MANAGEMENT ESTIMATE AT COMPLETION (1)	CONTRACT BUDGET BASE (2)	VARIANCE (3)
a. BEST CASE	101,975		
b. WORST CASE	106,265		
c. MOST LIKELY	105,409	51,683	-53,726

7. AUTHORIZED CONTRACTOR REPRESENTATIVE

a. NAME (Last, First, Middle Initial)	b. TITLE	c. SIGNATURE	d. DATE SIGNED (YYYYMMDD)
Dickerson, Kala K	Prime Contract Compliance Manager		

8. PERFORMANCE DATA

CAPN.PBS / Control Account.PARS 2 WBS (2) / ITEM (1)	CURRENT PERIOD: BUDGETED COST WORK SCHEDULED (2)	BUDGETED COST WORK PERFORMED (3)	ACTUAL COST WORK PERFORMED (4)	VARIANCE SCHEDULE (5)	VARIANCE COST (6)	CUMULATIVE TO DATE: BUDGETED COST WORK SCHEDULED (7)	BUDGETED COST WORK PERFORMED (8)	ACTUAL COST WORK PERFORMED (9)	VARIANCE SCHEDULE (10)	VARIANCE COST (11)	REPROGRAMMING ADJUSTMENTS: COST VARIANCE (12a)	SCHEDULE VARIANCE (12b)	BUDGET (13)	AT COMPLETION: BUDGETED (14)	ESTIMATED (15)	VARIANCE (16)
RL-0011 Nuclear Mat Stab & Disp PFP																
RL_0011_C2.05 Disposition PFP Facility	0	0	3,406	0	-3,406	55,307	41,793	51,734	-13,513	-9,940	0	0	0	55,307	101,975	-46,668
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	0	0	3,406	0	-3,406	55,307	41,793	51,734	-13,513	-9,940	0	0	0	55,307	101,975	-46,668
f. MANAGEMENT RESERVE														3,434		
g. TOTAL	0	0	3,406	0	-3,406	55,307	41,793	51,734	-13,513	-9,940	0	0	0	58,741		

9. RECONCILIATION TO CONTRACT BUDGET BASELINE

a. VARIANCE ADJUSTMENT																
b. TOTAL CONTRACT VARIANCE									-13,513	-9,940				58,741	101,975	-43,233

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 / 12 / 25
b. LOCATION (Address and ZIP Code) Richland, WA	b. NUMBER RL14788		b. PHASE	b. TO *(YYYYMMDD)* 2018 / 01 / 21
	c. TYPE CPAF	d. SHARE RATIO	c. EVMS ACCEPTANCE NO [ ] YES [X] *(YYYYMMDD)* 2009 / 09 / 18	

5. PERFORMANCE DATA

WBS.Resp Org Group	CURRENT PERIOD					CUMULATIVE TO DATE					REPROGRAMMING ADJUSTMENTS			AT COMPLETION		
	BUDGETED COST		ACTUAL	VARIANCE		BUDGETED COST		ACTUAL	VARIANCE							
ITEM	WORK SCHEDULED	WORK PERFORMED	COST WORK PERFORMED	SCHEDULE	COST	WORK SCHEDULED	WORK PERFORMED	COST WORK PERFORMED	SCHEDULE	COST	COST VARIANCE	SCHEDULE VARIANCE	BUDGET	BUDGETED	ESTIMATED	VARIANCE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12a)	(12b)	(13)	(14)	(15)	(16)
3B - PFP Closure Project	0	0	3,406	0	-3,406	55,307	41,793	51,734	-13,513	-9,940	0	0	0	55,307	101,975	-46,668
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	0	3,406	0	-3,406	55,307	41,793	51,734	-13,513	-9,940	0	0	0	55,307	101,975	-46,668
f. MANAGEMENT RESERVE														3,434		
g. TOTAL	0	0	3,406	0	-3,406	55,307	41,793	51,734	-13,513	-9,940	0	0	0	58,741		

CLASSIFICATION (When Filled In)

CONTRACT PERFORMANCE REPORT

FORMAT 3 - BASELINE

DOLLARS IN THOUSANDS

Form Approved

OMB No. 0704-0188

1. CONTRACTOR	2. CONTRACT	3. PROGRAM	4. REPORT PERIOD
CH2M HILL Plateau Remediation Company	a. NAME: Plateau Remediation Contract	a. NAME: Plateau Remediation Contract	a. FROM: 2017/12/25
b. LOCATION:	b. NUMBER: RL14788	b. PHASE	b. TO: 2018/01/21
Richland, WA	c. TYPE: CPAF	c. EVMS ACCEPTANCE	
	d. SHARE RATIO:	NO YES X 9/18/2009	

5. CONTRACT DATA

a. ORIGINAL NEGOTIATED COST	b. NEGOTIATED CONTRACT CHANGE	c. CURRENT NEGOTIATED COST (A + B)	d. ESTIMATED COST AUTH UNPRICED WORK	e. CONTRACT BUDGET BASE (C + D)	f. TOTAL ALLOCATED BUDGET	g. DIFFERENCE (E - F)
51,683	$0	$51,683	$0	$51,683	$58,741	($7,058)

h. CONTRACT START DATE	i. DEFINITIZATION DATE		k. CONT COMPLETION DATE	l. EST COMPLETION DATE
6/19/2008	6/19/2008	9/30/2018	9/30/2018	9/30/2018

6. PERFORMANCE DATA

BUDGETED COST FOR WORK SCHEDULED (NON - CUMULATIVE)

ITEM	BCWS CUM TO DATE	BCWS FOR REPORT PERIOD	SIX MONTH FORECAST +1 Feb-18	+2 Mar-18	+3 Apr-18	+4 May-18	+5 Jun-18	+6 Jul-18	FY09-13	FY14	FY15	FY16	FY17	FY18	UNDISTRIB BUDGET	TOTAL BUDGET
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
a. PM BASELINE																
(BEGIN OF PERIOD)	**55,307**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**6,090**	**29,182**	**19,407**	**628**	**0**	**55,307**
b. BASELINE CHANGES AUTH DURING REPORT PERIOD																
None at this time.													**0**	**0**	**0**	**0**
c. PM BASELINE (END OF PERIOD)	**55,307**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**6,090**	**29,182**	**19,407**	**628**	**0**	**55,307**
7. MANAGEMENT RESERVE																**3,435**
8. TOTAL																**58,741**

CONTRACT PERFORMANCE REPORT
FORMAT 4 - STAFFING

Dollars in: FTE

FORM APPROVED
OMB No. 0704-0188

1. CONTRACTOR	2. CONTRACT		3. PROGRAM	4. REPORT PERIOD
a. NAME CH2M HILL Plateau Remediation Company	a. NAME Plateau Remediation Contract		a. NAME RL_0011_C2 PFP Demolition Capital Asset Project	a. FROM *(YYYYMMDD)* 2017 / 12 / 25
b. LOCATION (Address and ZIP Code) Richland, WA	b. NUMBER RL14788		b. PHASE	b. TO *(YYYYMMDD)* 2018 / 01 / 21
	c. TYPE CPAF	d. SHARE RATIO	c. EVMS ACCEPTANCE NO:	YES: X *(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)* SIX MONTH FORECAST BY MONTH *(Enter names of months)* +1 FEB 2018 (4)	+2 MAR 2018 (5)	+3 APR 2018 (6)	+4 MAY 2018 (7)	+5 JUN 2018 (8)	+6 JUL 2018 (9)	ENTER SPECIFIED PERIODS FY18 (10)	1st Qtr FY19 (11)	FY19 (12)	FY19-LC (13)	ATCOMPLETE (14)	AT COMPLETION (15)
3B - PFP Closure Project	134	1094	134	134	126	127	126	128	229	88	0	0	0	2186
g. TOTAL DIRECT	134	1094	134	134	126	127	126	128	229	88	0	0	0	2186

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) 2017/12/25
b. LOCATION (Address and ZIP Code) Richland, WA	b. NUMBER RL14788		b. PHASE	b. TO (YYYYMMDD) 2018/01/21
	c. TYPE CPAF	d. SHARE RATIO	c. EVMS ACCEPTANCE No X Yes (YYYYMMDD) 2009 / 09 / 18	

Direct Projects

5. Evaluation	Budget	Earned	Actuals	SV in $	SV in %	CV in $	CV in %	SPI	CPI
Current:	0.0	0.0	3,405.7	0.0	-	-3,405.7	-	-	0.00
Cumulative:	55,306.9	41,793.4	51,733.5	-13,513.5	-24.4%	-9,940.1	-23.8%	0.76	0.81
	BAC	**EAC**	**VAC in $**	**VAC in %**	**TCPI to BAC**	**TCPI to EAC**			
At Complete:	55,306.9	101,974.6	-46,667.7	-84.4%	3.78	0.27			

Explanation of Variance/Description of Problem:

Current Month:

Schedule Variance: The schedule variance for the current month is within threshold.

Cost Variance: The current month unfavorable variance are associated with impacts and recovery efforts from the contamination event that occurred on December 15, 2017. A root cause analysis is being finalized and upon completion corrective actions will be implemented and completed prior to resumption of demolition activities.

Cumulative to Date:

Schedule Variance: The cumulative unfavorable schedule variance is due to delay of demolition of ancillary buildings and 236-Z caused by resources being redirected to support higher priority critical path work associated with decommissioning of 234-5Z, 242-Z, and 236-Z, as well as ready for demo activities associated with impacts from 236-Z Canyon Crane failure, contamination impacts from an unplanned criticality alarm failure, contamination recovery in the duct level of 234-5Z (two week delay in July 2016), increased characterization efforts, weather delays (snow and wind), recovery from demolition contamination events, and greater efforts to complete 242-Z demolition than originally planned. In addition, the PUREX Tunnel collapse caused a four day delay due to closure of the Hanford site restricting access to PFP and a contamination event associated with removal of PRF gallery gloveboxes causing a 20 day delay of demolition activities on the 236-Z facility. Further, impacts associated with the Stop Work that was initiated by the Hanford Atomic Metals Trade Council (HAMTC) union leadership on November 11, 2017 "associated with to concerns over events both inside and outside of the facility;" primarily, the main issue involved employee proximity to demolition radiological boundary areas in place at that time are also contributing to this variance. Radiological boundary areas are being reconfigured, and any impacted employees are being relocated. As a result of delays in the ready for demolition activities, the C2 CD-4 has been delayed but not in jeopardy of being met. However, the TPA milestone M-083-00A was re-negotiated to a due date of 9/30/2017 and will not be met. In addition, a BCR was processed in the month of September to draw down on DOE contingency to recover the direct cost impacts to the RL-0011 C.2 Project associated with realization of the DOE-RL risks. Areas that were impacted were associated with Weather Delays, Stop Works, PRF Contamination Events, and MSA Resources retained to prevent Bump and Roll impacts. Finally, a contamination event that occurred on Friday, December 15, 2017 swing shift wherein RadCon personnel performing routine surveys following the day shift demolition activities discovered low level contamination on a cookie sheet. This led to a wider search, and a "speck" of contamination was smeared from a government vehicle. A CHPRC management stop work on demolition activities was declared and a critique held to discuss the contamination spread, possible causes, and path forward. A root cause analysis is being conducted and recovery actions and expected completion dates will be identified after it has been completed. This is partially offset by the completion of demolition of the 2729-Z, and 2727-Z facilities, removal of gloveboxes, the completion of demolition activities for the 2nd, 3rd, 4th, 5th, and 6th floors, South Canyon Airlock of 236-Z, removal of all 18 sections of gallery gloveboxes from 236-Z, demolition of 242-ZA, completion of demolition activities in the 242-Z facility, completion of demolition and waste loadout on the 291-Z demolition, completion of demolition and waste loadout activities associated with the 291-Z stack, demolition of the 234-5ZA, 252-Z1, 2503-Z and 2735Z, 2734ZA, ZB, ZC, ZD, and ZL facilities.

Cost Variance: The cumulative negative cost variance is associated with MSA subcontracted resources arriving to support PFP demolition that were planned as P/Q shift support with a baseline start date of February 2016. Because the project is behind schedule in initiating demolition activities, and because the decision was made not to execute demolition activities for the 236-Z/242-Z facilities on P/Q shift, these resources currently have limited work to support which contributes to inability to take performance until the ready for demolition work scope is completed. To ensure that the project is able to continue demolition activities as identified in the current schedule, these costs will continue to be realized resulting in a potential unrecoverable cost variance. Additionally, Readiness Assessment activities lagged due to a delay in the start of 236-Z Demolition and increased requirements to show readiness resulting in increased costs due to additional time and effort required from subcontracted and direct labor resources. In addition, the apportioned project management activities (i.e. project oversight and planning) and support activities are ongoing, while a delay in the discrete field work is resulting in minimal apportioned BCWP. Further, demolition mobilization activities took longer than originally assumed because of recommendations made during the readiness assessment and purchasing unplanned PBS fixative to support 236-Z demolition. In addition, significant winter weather impacts (i.e., snow, wind, freezing rain, etc.) have been recognized on the Hanford Site. Site closures, freezing temperatures and significant snowfall that required clearing of the demolition zone rather than performing physical demolition on the facilities while a constant staff provides demolition support services is the contributing factor, as a result of the weather impacts and an unexpected contamination events in the PRF demolition zone. In addition unplanned Management Assessment efforts for the234-5Z and 291-Z facilities took longer than originally assumed. Finally, impacts associated with the Stop Work that was initiated by the Hanford Atomic Metals Trade Council (HAMTC) union leadership on November 11, 2017 "associated with to concerns over events both inside and outside of the facility;" primarily, the main issue involved employee proximity to demolition radiological boundary areas in place at that time are also contributing to this variance. Radiological boundary areas are being reconfigured, and any impacted employees are being relocated. As the project gets further into the demolition phase of the PRF Canyon, increased utilization of Personnel Protective Equipment to align with the original plan as well as increased material procurements to align with the scope being performed (i.e., P-100 filters, Labounty Shear, additional fixative, etc.) are also contributing to this variance. An adjustment to the G&A Rate for FY2017 resulted in a reduction to the PMB of $463K. Finally, impacts from a contamination event that occurred on Friday, December 15, 2017 swing shift wherein RadCon personnel performing routine surveys following the day shift demolition activities discovered low level contamination on a cookie sheet. This led to a wider search, and a "speck" of contamination was smeared from a government vehicle. A CHPRC management stop work on demolition activities was declared and a critique held to discuss the contamination spread, possible causes, and path forward. A root cause analysis is being conducted and recovery actions and expected completion dates will be identified after it has been completed. This is partially offset by recognized efficiencies associated with the removal of the 18 sections of the PRF gallery gloveboxes, demolition of the 2727-Z and 2729-Z facilities, the 242-ZA and 242-Z Facilities, and demolition of the 291-Z facility, 291-Z Stack, and 234-5ZA, 252-Z1, 2503-Z and 2735Z, 2734ZA, ZB, ZC, ZD, and ZL facilities.

Impact:
Schedule Impact: Progress continued to work toward CD-4 closure as teams continued to ready the PFP facilities for demolition. The PRF facility initiated demolition on November 8, 2016, and completion of demolition activities will occur in June 2018. Demolition on the 291-Z facility commenced on June 30, 2017, and the 291-Z stack was demolished on July 15, 2017. The 234-5ZA facility was demolished in the month of August with loadout of waste completed in the month of September. Demolition of 234-5Z was initiated on September 13, 2017, and is now 53 percent complete. Completion of all demolition activities are scheduled to occur in late August, 2018. The June date is reflective of the known actions and recovery efforts associated with a contamination event that occurred in December, 2017 and will be updated as more information is made available from the Root Cause Analysis and recovery plan. There was an 83-day loss of schedule for January. This was a result of incorporation of corrective actions from the contamination event that occurred on Friday, December 15, 2017 as identified above. The baseline completion date is not considered recoverable. The TPA Milestone TPA-083-00A, complete PFP facility transition and selected disposition activities of November 30, 2017 was not met.

Cost Impact: Stop Works, Safety Pauses, weather impacts (i.e., unusual winter, heat, wind, etc.) multiple contamination events, the PRF Crane failure, and associated recovery actions have negatively impacted the field work to ready 234-5Z, 236-Z, 242-Z, and 291-Z for demolition. In addition, readiness activities took longer than originally assumed as a result of increased requirements required by the Readiness Assessment team to demonstrate readiness for demolition of the PRF facility and efforts to mobilize took longer than originally assumed as a result of implemented recommendations from the readiness assessment team. An unplanned Management Assessment for the 234-5Z and 291-Z facilities to incorporate lessons learned from the demolition of the 236-Z and 242-Z facilities are also contributing to the cost impacts. Finally, in the early stages of this project subcontracted MSA resources specializing in facility demolition charged the project until the ready for demo status was achieved. Unexpected contamination events that occurred during demolition of the PRF facility in January, June, and December, 2017, and delays with the 242-Z demolition has contributed to the cost impacts on this project. A Baseline Change Request (BCR) was processed in the month of November to draw down on DOE contingency to recover the direct cost impacts to the RL-0011 C.2 Project associated with realization of the DOE-RL risks. Areas that were impacted were associated with Weather Delays, Stop Works, PRF Contamination Events, and MSA Resources retained to prevent Bump and Roll impacts. This is partially offset by recognized efficiencies during the 291-Z demolition and 291-Z stack implosion as well as the 234-5ZA, 252-Z1, 2503-Z, and 2735Z, 2734ZA, ZB, ZC, ZD, and ZL facilities.

A negative VAC is reflective of impacts associated with recovery efforts from a contamination event that occurred on December 15, 2017. Partially offset by working one shift during demolition of 236-Z, 242-Z and 291-Z building and stack rather than two as planned in the PMB. Durations for the remainder of the 234-5Z and PRF demolitions activities have been adjusted to incorporate increased durations as a result of expected recovery actions from the contamination event that occurred in December. Upon completion of the recovery efforts associated with the December, 2017 contamination event, it is expected that DOE-RL will authorize CHPRC to re-start demolition activities to safely get the project to slab on grade.

Corrective Action:
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.

Corrective actions associated with recovery actions from the contamination event that occurred on December 15, 2017 as described above are continuing to be developed and will be documented in future reporting periods. Activities performed in the month of January were:
- Placement of sand and soil, and over contaminated debris and equipment to prevent further contamination spread
- Radiological surveys, decontamination and pressure washing to release trailers/vehicles/equipment
- Implementation of additional radiological monitoring (i.e., CAMs, cookie sheets)
- Mobilization of supplies and equipment to maintain the PFP footprint in a safe configuration
- Application of fixatives (i.e., paints, stabilization agents) to items and areas on the PFP work control zone
- Maintenance, repair and rebuild of existing equipment and systems in safe/compliant configuration
- Initiation of activities to reconfigure boundaries, canister transfer areas, load out areas, waste storage areas, to accommodate larger work control zone
- Reconfiguration of equipment in the PFP work control zone to support stabilization activities (water systems, foggers, etc.)

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 January 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 January
3. Forecast Schedule with No Baseline: No change in the month of January
4. UB Balance: No change in the month of January
5. Negative ACWP: No change in the month of January
6. EAC Analysis: Best Case = $101,975; Most Likely = $105,409; Worst Case = $106,265
7. Negative CV > VAC: No change in the month of January
8. MR Transactions: No change in the month of January
9. Freeze Period Changes: No change in the month of January
10. Retroactive Changes: No change in the month of January
11. EVT Changes: No change in the month of January

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

Appendix C.3
Capital Asset Project
RL-0012_C1_1 - Sludge Retrieval Project
15-D-401

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

M. A. Wright
Vice President for
Project Technical
Services

January 2018
CHPRC-2018-01, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

Operational Acceptance Testing (OAT) continued with the sludge removal team completing validation of the primary sludge removal operations procedures and associated on-the-job evaluations (OJEs). Workers who will operate the sludge removal system are now focusing on operational performance demonstrations and drills to enhance proficiency. Declaration of Readiness to initiate Contractor Operational Readiness Review (ORR) is forecast for January 22, 2018.

Plans to get the center bay high-dose material added to engineered container SCS-CON-210 remain on hold pending modification to the telescoping stiff back (TSB) to add a new swivel component. The swivel is forecast to be delivered to 100K in late January. Following installation of the new component on the basin TSB, resources will be scheduled to containerize the high-dose material following retrieval of sludge into the first Sludge Transport and Storage Container (STSC), currently scheduled for May 2018.

The T Plant team completed their Readiness Assessment (RA) for the receipt and storage of K Basin sludge on December 21, 2017, with two pre-start findings and one post-start finding. Following resolution of all pre-start punchlist items and RA findings/observations, the Startup Approval Authority will approve T Plant to receive sludge shipments. Approval is forecast in February 2018.

Project breakdown structure (PBS) RL-0012 scope is 96.6 percent complete, with a cumulative schedule performance index (SPI) of 1.00 and a Cost Performance Index (CPI) of 1.04.

KEY ACCOMPLISHMENTS

RL-0012_C1_1 Accomplishments

KW Basin Sludge Removal Capital Asset Project

- KPAT
  - The team continues working on producing the K Basin Pre-operational Acceptance Testing (KPAT) test report, currently forecast to be released in late February 2018.
- Readiness
  - The Implementation Plan (IP) was approved by the Contractor ORR team lead on January 3, 2018.
  - Operations personnel continued with demonstrations and drills. The team initiated a “full and final dress rehearsal” to simulate the entire process of loading a STSC with sludge. The team staged the Sludge Transportation System (STS) trailer and completed Task 1, *STSC Preparation*. Once satisfactory proficiency is established and the remaining readiness affidavits are approved, the K Basin Operations and Plateau Remediation (KBO&PR) vice president will declare Sludge Removal Project (SRP) readiness to the CHPRC president, forecasted for January 22, 2018.
- Engineered Container Retrieval and Transfer System (ECRTS) Activity Readiness Plan (ARP)/Readiness Self-Assessments (RSAs) were updated to be consistent with the Plan of Action (POA) approved by DOE-HQ. The CHPRC 100K Readiness Review Board (RRB) successfully approved 19 of 22 RSA affidavits. The three remaining RSA affidavits are scheduled for approval on January 22, 2018, following completion of the Operations Demonstration.
- Receipt of STSC assemblies of production run two (vessels 14-24) are forecasted to be delivered on January 29, 2018, completing (PM-12-1-18).

- A draft of the CHPRC SRP critical decision (CD)-4 submittal was reviewed with the RL Federal Project Director (FPD) and Deputy FPD. Comments were provided and CHPRC personnel are incorporating those comments. A final draft is forecast to be provided to the RL FPD and Deputy FPD in February.

MAJOR ISSUES

No major issues to report at this time.

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 stoplight chart: No major changes in January.				
Realized Risks (Risks that are currently impacting project cost/schedule)				
No realized risks identified in January.				
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)				
No critical risks identified in January.				
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)				
FY2017 Risk Triggers (Risk could be realized in FY2017)				
No high risk threat value risks identified in January.				
Unassigned Risks (Pending ownership of identified threats/opportunities)				
No unassigned risks identified in January.				

CRITICAL PATH SCHEDULE

The critical path runs through completion of operations demonstrations, drills, and the completion of RSA affidavits. Following successful contractor and RL ORRs, the project schedule reflects RL providing authorization to commence retrieval operations following the review and approval of the SRP CD-4 submittal in parallel with review/approval of the CHPRC "Request for Startup Approval" letter. Completing retrieval operations, including the filling of STSCs with sludge and transporting them to T Plant, to complete Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) Milestone M-016-176, *Complete Sludge Removal from 105-KW Fuels Storage Basin*, is required by September 2019. However, the Sludge Treatment Project (STP) team has modified the field execution schedule (FES) to implement acceleration opportunities to the extent practicable.

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	4/30/2018	The forecast date includes schedule margin from the project's risk analysis. Project schedule margin is 123 days.

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

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.

DOE ACTIONS / DECISIONS

Description	CHPRC Delivery Date	Expected RL Due Date
RL POA Issued and Distributed	01/29/18	02/23/18
RL IP Issued	02/26/18	03/05/18
RL Perform ORR - Team Lead	03/19/18	03/30/18
RL Issue Findings / Discrepancy List	04/02/18	04/06/18
DOE Approve CD-4 Submittal Package	04/16/18	04/30/18
RL Approve Request for Startup Letter	04/17/18	04/30/18

Appendix C.3
RL-0012_C1_1 – Sludge Retrieval Project
15-D-401
Contract Performance Reports

Format 1 - Work Breakdown Structure

Format 2 - Organizational Categories

Format 3 - Baseline

Format 4 - Staffing

Format 5 - Explanation and Problem Analysis

January 2018
CHPRC-2018-01, 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 / 12 / 25
b. LOCATION (Address and ZIP Code) Richland, WA	b. NUMBER RL14788		b. PHASE	b. TO *(YYYYMMDD)* 2018 / 01 / 21
	c. TYPE CPAF	d. SHARE RATIO	c. EVMS ACCEPTANCE NO X YES *(YYYYMMDD)* 2009 / 09 / 18	

5. CONTRACT DATA

a. QUANTITY	b. NEGOTIATED COST	c. ESTIMATED COST OF AUTHORIZED UNPRICED WORK	d. TARGET PROFIT/FEE	e. TARGET PRICE	f. ESTIMATED PRICE	g. CONTRACT CEILING	h. ESTIMATED CONTRACT CEILING	i. DATE OF OTB/OTS *(YYYYMMDD)*
1	295,873	0	7,950	303,823	294,103	303,823	294,103	

6. ESTIMATED COST AT COMPLETION

	MANAGEMENT ESTIMATE AT COMPLETION (1)	CONTRACT BUDGET BASE (2)	VARIANCE (3)
a. BEST CASE	280,732		
b. WORST CASE	286,691		
c. MOST LIKELY	286,153	295,873	9,720

7. AUTHORIZED CONTRACTOR REPRESENTATIVE

a. NAME (Last, First, Middle Initial): Dickerson, Kala K

b. TITLE: Prime Contract Compliance Manager

c. SIGNATURE

d. DATE SIGNED *(YYYYMMDD)*

8. PERFORMANCE DATA

CAPN.PBS Control Account.PARS 2 WBS (2)	CURRENT PERIOD					CUMULATIVE TO DATE					REPROGRAMMING ADJUSTMENTS			AT COMPLETION		
	BUDGETED COST		ACTUAL	VARIANCE		BUDGETED COST		ACTUAL	VARIANCE					BUDGETED	ESTIMATED	VARIANCE
ITEM	WORK SCHEDULED	WORK PERFORMED	COST WORK PERFORMED	SCHEDULE	COST	WORK SCHEDULED	WORK PERFORMED	COST WORK PERFORMED	SCHEDULE	COST	COST VARIANCE	SCHEDULE VARIANCE	BUDGET			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12a)	(12b)	(13)	(14)	(15)	(16)
RL-0012 SNF Stabilization & Disp																
RL_0012_C1_1.16 Sludge Treatment Project	0	0	0	0	0	156,861	156,861	156,786	0	75	0	0	0	156,861	156,786	75
RL_0012_C1_1.17 D-401 KW Basin Sludge Removal Project	851	1,215	1,202	364	13	131,701	131,609	120,857	-92	10,752	0	0	0	133,421	123,946	9,475
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	851	1,215	1,202	364	13	288,562	288,470	277,643	-92	10,827	0	0	0	290,282	280,732	9,550
f. MANAGEMENT RESERVE														5,421		
g. TOTAL	851	1,215	1,202	364	13	288,562	288,470	277,643	-92	10,827	0	0	0	295,703		
9. RECONCILIATION TO CONTRACT BUDGET BASELINE																
a. VARIANCE ADJUSTMENT																
b. TOTAL CONTRACT VARIANCE									-92	10,827				295,703	280,732	14,971

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 / 12 / 25
b. LOCATION (Address and ZIP Code) Richland, WA	b. NUMBER RL14788		b. PHASE	b. TO *(YYYYMMDD)* 2018 / 01 / 21
	c. TYPE CPAF	d. SHARE RATIO	c. EVMS ACCEPTANCE NO: ; X YES *(YYYYMMDD)* 2009 / 09 / 18	

5. PERFORMANCE DATA

WBS.Resp Org Group	CURRENT PERIOD					CUMULATIVE TO DATE					REPROGRAMMING ADJUSTMENTS			AT COMPLETION		
	BUDGETED COST		ACTUAL	VARIANCE		BUDGETED COST		ACTUAL	VARIANCE					BUDGETED	ESTIMATED	VARIANCE
ITEM	WORK SCHEDULED	WORK PERFORMED	COST WORK PERFORMED	SCHEDULE	COST	WORK SCHEDULED	WORK PERFORMED	COST WORK PERFORMED	SCHEDULE	COST	COST VARIANCE	SCHEDULE VARIANCE	BUDGET			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12a)	(12b)	(13)	(14)	(15)	(16)
3G - K Basin Oper & Plateau Remediation Project	851	1,215	1,202	364	13	288,562	288,470	277,643	-92	10,827	0	0	0	290,282	280,732	9,550
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)*	851	1,215	1,202	364	13	288,562	288,470	277,643	-92	10,827	0	0	0	290,282	280,732	9,550
f. MANAGEMENT RESERVE														5,421		
g. TOTAL	851	1,215	1,202	364	13	288,562	288,470	277,643	-92	10,827	0	0	0	295,703		

CLASSIFICATION (When Filled In)

CONTRACT PERFORMANCE REPORT

FORMAT 3 - BASELINE

DOLLARS IN THOUSANDS

Form Approved

OMB No. 0704-0188

1. CONTRACTOR	2. CONTRACT	3. PROGRAM	RL_0012_15_D_401 KW Basin Sludge Removal Project	4. REPORT PERIOD
CH2M HILL Plateau Remediation Company	a. NAME: Plateau Remediation Contract	a. NAME:	Plateau Remediation Contract	a. FROM: 2017/12/25
b. LOCATION:	b. NUMBER: RL14788	b. PHASE		b. TO: 2018/01/21
Richland, WA	c. TYPE: CPAF	c. EVMS ACCEPTANCE		
	d. SHARE RATIO:	NO	YES X 9/18/2009	

5. CONTRACT DATA

a. ORIGINAL NEGOTIATED COST	b. NEGOTIATED CONTRACT CHANGE	c. CURRENT NEGOTIATED COST (A + B)	d. ESTIMATED COST AUTH UNPRICED WORK	e. CONTRACT BUDGET BASE (C + D)	f. TOTAL ALLOCATED BUDGET	g. DIFFERENCE (E - F)
295,873	$0	$295,873	$0	$295,873	$295,703	$170

h. CONTRACT START DATE	i. DEFINITIZATION DATE	j. PLANNED COMPL DATE	k. CONT COMPLETION DATE	l. EST COMPLETION DATE
6/19/2008	6/19/2008	9/30/2018	9/30/2018	9/30/2018

6. PERFORMANCE DATA

BUDGETED COST FOR WORK SCHEDULED (NON - CUMULATIVE)

ITEM	BCWS CUM TO DATE	BCWS FOR REPORT PERIOD	SIX MONTH FORECAST +1 Feb-18	+2 Mar-18	+3 Apr-18	+4 May-18	+5 Jun-18	+6 Jul-18	FY09-13	FY14	FY15	FY16	FY17	FY18	UNDISTRIB BUDGET	TOTAL BUDGET
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
a. PM BASELINE																
(BEGIN OF PERIOD)	**287,711**	**851**	**1,347**	**338**	**33**	**3**	**0**	**0**	**94,574**	**27,547**	**50,942**	**67,673**	**39,680**	**9,866**	**0**	**290,282**
b. BASELINE CHANGES AUTH DURING REPORT PERIOD																
None at this time.													**0**	**0**	**0**	**0**
c. PM BASELINE (END OF PERIOD)	**288,562**	**851**	**1,347**	**338**	**33**	**3**	**0**	**0**	**94,574**	**27,547**	**50,942**	**67,673**	**39,680**	**9,866**	**0**	**290,282**
7. MANAGEMENT RESERVE																**5,421**
8. TOTAL																**295,703**

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 / 12 / 25
b. LOCATION (Address and ZIP Code) Richland, WA	b. NUMBER RL14788		b. PHASE	b. TO *(YYYYMMDD)* 2018 / 01 / 21
	c. TYPE CPAF	d. SHARE RATIO	c. EVMS ACCEPTANCE NO:	YES: X *(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)* SIX MONTH FORECAST BY MONTH *(Enter names of months)* +1 FEB 2018 (4)	+2 MAR 2018 (5)	+3 APR 2018 (6)	+4 MAY 2018 (7)	+5 JUN 2018 (8)	+6 JUL 2018 (9)	ENTER SPECIFIED PERIODS FY18 (10)	1st Qtr FY19 (11)	FY19 (12)	FY19-LC (13)	ATCOMPLETE (14)	AT COMPLETION (15)
3G - K Basin Oper & Plateau Remediation Project	71	7394	82	32	0	0	0	0	0	0	0	0	0	7508
g. TOTAL DIRECT	71	7394	82	32	0	0	0	0	0	0	0	0	0	7508

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	a. NAME		a. NAME				a. FROM (YYYYMMDD)
CH2M HILL Plateau Remediation Company	Plateau Remediation Contract		012- RL-12 SNF Stabilization and Disposition				
b. LOCATION (Address and ZIP Code)	b. NUMBER		b. PHASE				2017/12/25
Richland, WA	RL14788						b. TO (YYYYMMDD)
	c. TYPE	d. SHARE RATIO	c. EVMS ACCEPTANCE				
	CPAF		No	X	Yes	(YYYYMMDD) 2009 / 09 / 18	2018/01/21

5. Evaluation

Direct Projects

	Budget	Earned	Actuals	SV in $	SV in %	CV in $	CV in %	SPI	CPI
Current:	851.0	1,215.3	1,201.9	364.3	42.8%	13.4	1.1%	1.43	1.01
Cumulative:	288,561.9	288,469.6	277,638.6	-92.2	0.0%	10,831.0	3.8%	1.00	1.04
	BAC	**EAC**	**VAC in $**	**VAC in %**	**TCPI to BAC**	**TCPI to EAC**			
At Complete:	290,281.7	280,727.6	9,554.1	3.3%	0.14	0.59			

Explanation of Variance/Description of Problem:
Current Period:
Schedule Variance: The current month positive schedule variance is due to EV that was realized on Preventative Maintenance activities performed by Construction Contractor through January. Plus recovery of schedule for preparation of KPAT Test Report.

Cost Variance: Within Threshold.

Cumulative To Date:

Schedule Variance: Within Threshold.

Cost Variance: Within Threshold.

Impact:
Schedule Impact: The project is implementing recovery actions in response to Opertional Acceptance Testing and Procedure Validation taking longer than anticipated.

The current non-risk adjusted forecast date to begin sludge removal is March 15, 2018. The Project implemented recovery methods to initiate sludge removal in March, 2018. The project completed TPA milestones M-016-177 "Complete 105-KW Sludge Transfer Equipment Installation" on 4/19/17 and is on schedule to complete M-016-175 "Begin Sludge Removal from 105-KW Fuel Storage Basin" by 9/30/2018.

Cost Impact: Within Threshold

The current ETC reflects the expected overall costs and further ETC adjustments will be considered as needed.

Corrective Action:
Schedule: N/A

Cost: N/A

Monthly Summary (to include technical causes of VARs, Impacts) and Corrective Action(s):
1. Schedule Margin Analysis: There were no baseline changes in the month of January which affected the schedule margin. Project schedule margin is 123 days. As a result of schedule acceleration efforts to enable the retrieval of all sludge by 9/30/18, the Project has accepted all project risk and schedule margin is assumed to be zero. Project continues to evaluate schedule for efficiencies.
2. IMS Data dictionary Changes: None in the month of January.
3. Forecast Schedule with No Baseline: None in the month of January.
4. UB Balance: None in the month of January.
5. Negative ACWP: 012.17.01.06, .012.17.01.08 and 012.17.01.30 all have negative ACWP due to accrual reversals.
6. EAC Analysis: Best Case = $280.7M; Most likely = $286.2M; Worst Case =$286.7M.
7. Negative CV > VAC: None in the month of January.
8. MR Transactions: None in the month of January.
9. Freeze Period Changes: None in the month of January.
10. Retroactive Changes: None in the month of January.
11. EVT Changes: None in the month of January.

Prepared by: M. Thompson **Date: 02/13/18** **Approved by:** **Date:**

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

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

January 2018
CHPRC-2018-01, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

In January, workers at the 618-10 Burial Ground Complex continued backfill of the 618-10 Burial Ground, began site recontouring, and continued to demobilize the site.

KEY ACCOMPLISHMENTS

618-10 Burial Ground Backfill (60 percent complete)

- Crews continued backfill activities using material from road removal, container transfer area (CTA) removal, and existing stockpiles.

618-10 Burial Ground Complex Demobilization

- Continued road removal and power pole removal.
- Began site recontouring activities.
- Supported the removal of four trailers from the project.
- Continued consolidation and removal of supplies that are no longer being used.

MAJOR ISSUES

No major issues to report at this time.

CORRECTIVE ACTION LOG

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

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

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

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

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

Increased Confidence
No Change
Decreased Confidence

	Unmitigated Risk Impacts	Assessment		Comments
		Month	Trend	
RL-0041/WBS-041				
Explanation of major changes to the project monthly stoplight chart: Risks *RCC-618-10-07: Contamination Event at 618-10 Waste Site* and *RCC-618-10-09: Discovery of Unexpected Waste/ Contamination* have been removed from the High Threat Value risk section of the stoplight chart, as they no longer pose a high threat value to the project. The risks will remain open until the project has completed moving soil.				
Realized Risks (Risks that are currently impacting project cost/schedule)				
No realized risks identified in January.				
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)				
No critical risks identified in January.				
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)				
Lifecycle Risk Triggers (Risk could be realized at any point of the project)				
Unassigned Risks (Pending ownership of identified threats/opportunities)				
No unassigned risks identified in January.				

Contract-to-Date

WBS 041/ RL-0041 Capital Asset Project	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance ($)	Schedule Variance (%)	Cost Variance ($)	Cost Variance (%)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Estimate to Complete (ETC)	Variance at Completion (VAC)
Total	57.5	61.7	42.8	4.2	7.4%	18.9	30.6%	68.9	49.2	6.3	19.7

Numbers are rounded to the nearest $0.1 million

Reference Appendix C.4 Format 5 for narrative on Contract-to-Date performance analysis.

CRITICAL PATH SCHEDULE

The critical path flows through 618-10 Burial Ground demobilization activities, including trailer removal and the demobilization of equipment.

SCHEDULE MARGIN/MANAGEMENT RESERVE

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

CRITICAL DECISION (CD) MILESTONE STATUS

Number	Title	Due Date	Forecast Date	Status/ Comment
KPP 1	Complete the 618-10 Burial Ground Remediation	1/31/2020	6/11/2018	Completion Criteria: Complete remediation, closeout sampling, issuing the closeout verification package, and backfill of the 618-10 Burial Ground.
KPP 2	Complete the Remediation of the 316-4 and 600-63 Waste Sites	1/31/2020	2/1/2018	The forecast finish date was delayed due to delays in the tech editing and clearance processes for the 316-4 Waste Site closeout verification package and waste site reclassification form. Completion Criteria: complete remediation, closeout sampling, and backfill of the 316-4 Waste Site and 600-63 Lysimeter Waste Site.
	CD-4 Closeout	1/31/2020	TBD	CD-4 closeout pending contract definitization.

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None to report at this time.

DOE ACTIONS / DECISIONS

Description	CHPRC Delivery Date	Expected RL Due Date
RL/EPA Review & Approve Interim Backfill Concurrence for 618-10 Decision Unit 9	12/20/17 (A)	1/12/18 (A)
RL/EPA Review & Approve Interim Backfill Concurrence for 618-10 Decision Unit 10	3/7/18	3/13/18
RL and Regulator Review of closeout verification package (CVP) and Waste Site Reclassification Form for 618-10 Burial Ground	3/28/18	5/11/18

Appendix C.4
RL-0041_C1 – Project 618-10, 316-4 and 600-63 Waste Sites
Contract Performance Reports

Format 1 - Work Breakdown Structure

Format 2 - Organizational Categories

Format 3 - Baseline

Format 4 - Staffing

Format 5 - Explanation and Problem Analysis

ch2m

January 2018
CHPRC-2018-01, 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	a. NAME		a. NAME	a. FROM (YYYYMMDD)
CH2M HILL Plateau Remediation Company	PARS II - RL-0041.C1 Base Funded Nuc Fac D&D River Corr		PARS II - RL-0041.C1 Base Funded Nuc Fact D&D River Corr	2017 / 12 / 25
b. LOCATION (Address and ZIP Code)	b. NUMBER		b. PHASE	b. TO (YYYYMMDD)
Richland, WA	RL14788			2018 / 01 / 21
	c. TYPE	d. SHARE RATIO	c. EVMS ACCEPTANCE	
	CPAF		NO:	YES: X (YYYYMMDD) 2009 / 09 / 18

5. CONTRACT DATA

a. QUANTITY	b. NEGOTIATED COST	c. ESTIMATED COST OF AUTHORIZED UNPRICED WORK	d. TARGET PROFIT/FEE	e. TARGET PRICE	f. ESTIMATED PRICE	g. CONTRACT CEILING	h. ESTIMATED CONTRACT CEILING	i. DATE OF OTB/OTS (YYYYMMDD)
1	0	68,921	0	0	49,180	0	49,180	

6. ESTIMATED COST AT COMPLETION

	MANAGEMENT ESTIMATE AT COMPLETION (1)	CONTRACT BUDGET BASE (2)	VARIANCE (3)
a. BEST CASE	49,180		
b. WORST CASE	50,139		
c. MOST LIKELY	49,180	68,921	19,741

7. AUTHORIZED CONTRACTOR REPRESENTATIVE

a. NAME (Last, First, Middle Initial)	b. TITLE	d. DATE SIGNED (YYYYMMDD)
Dickerson, Kala K	Prime Contract Compliance Manager	

c. SIGNATURE

8. PERFORMANCE DATA

CAPN.PBS Control Account.PARS 2 WBS (3) ITEM (1)	CURRENT PERIOD: BUDGETED COST WORK SCHEDULED (2)	BUDGETED COST WORK PERFORMED (3)	ACTUAL COST WORK PERFORMED (4)	VARIANCE SCHEDULE (5)	VARIANCE COST (6)	CUMULATIVE TO DATE: BUDGETED COST WORK SCHEDULED (7)	BUDGETED COST WORK PERFORMED (8)	ACTUAL COST WORK PERFORMED (9)	VARIANCE SCHEDULE (10)	VARIANCE COST (11)	REPROGRAMMING ADJUSTMENTS: COST VARIANCE (12a)	SCHEDULE VARIANCE (12b)	BUDGET (13)	AT COMPLETION: BUDGETED (14)	ESTIMATED (15)	VARIANCE (16)
RL-0041 Nuc Fac D&D - RC Closure Proj																
RL_0041_C1.05.02 618-10 Burial Ground	746	731	782	-15	-51	46,181	49,221	38,116	3,040	11,105	0	0	0	56,127	44,461	11,666
RL_0041_C1.05.03 316-4 Waste Site	537	62	1	-474	61	10,066	11,055	4,255	989	6,799	0	0	0	11,183	4,274	6,909
RL_0041_C1.05.04 600-63 Waste Site	128	44	0	-84	44	1,204	1,404	445	200	959	0	0	0	1,611	445	1,167
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	1,410	837	783	-573	54	57,451	61,680	42,816	4,229	18,864	0	0	0	68,921	49,180	19,741
f. MANAGEMENT RESERVE														0		
g. TOTAL	1,410	837	783	-573	54	57,451	61,680	42,816	4,229	18,864	0	0	0	68,921		

9. RECONCILIATION TO CONTRACT BUDGET BASELINE

a. VARIANCE ADJUSTMENT																
b. TOTAL CONTRACT VARIANCE									4,229	18,864				68,921	49,180	19,741

CLASSIFICATION (When Filled In)

CONTRACT PERFORMANCE REPORT
FORMAT 2 - ORGANIZATIONAL CATEGORIES

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

1. CONTRACTOR	2. CONTRACT		3. PROGRAM	4. REPORT PERIOD
a. NAME CH2M HILL Plateau Remediation Company	a. NAME PARS II - RL-0041.C1 Base Funded Nuc Fac D&D River Corr		a. NAME PARS II - RL-0041.C1 Base Funded Nuc Fact D&D River Corr	a. FROM *(YYYYMMDD)* 2017 / 12 / 25
b. LOCATION (Address and ZIP Code) Richland, WA	b. NUMBER RL14788		b. PHASE	b. TO *(YYYYMMDD)* 2018 / 01 / 21
	c. TYPE CPAF	d. SHARE RATIO	c. EVMS ACCEPTANCE NO:	YES: X (YYYYMMDD) 2009 / 09 / 18

5. PERFORMANCE DATA

WBS.FOC Control Account.PARS 2 WBS (3) ITEM (1)	CURRENT PERIOD BUDGETED COST WORK SCHEDULED (2)	 WORK PERFORMED (3)	 ACTUAL COST WORK PERFORMED (4)	VARIANCE SCHEDULE (5)	 COST (6)	CUMULATIVE TO DATE BUDGETED COST WORK SCHEDULED (7)	 WORK PERFORMED (8)	 ACTUAL COST WORK PERFORMED (9)	VARIANCE SCHEDULE (10)	 COST (11)	REPROGRAMMING ADJUSTMENTS COST VARIANCE (12a)	 SCHEDULE VARIANCE (12b)	 BUDGET (13)	AT COMPLETION BUDGETED (14)	 ESTIMATED (15)	 VARIANCE (16)
041.6 - 618 10 Projects																
RL_0041_C1.05.02 618-10 Burial Ground	746	731	782	-15	-51	46,181	49,221	38,116	3,040	11,105	0	0	0	56,127	44,461	11,666
RL_0041_C1.05.03 316-4 Waste Site	537	62	1	-474	61	10,066	11,055	4,255	989	6,799	0	0	0	11,183	4,274	6,909
RL_0041_C1.05.04 600-63 Waste Site	128	44	0	-84	44	1,204	1,404	445	200	959	0	0	0	1,611	445	1,167
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)*	1,410	837	783	-573	54	57,451	61,680	42,816	4,229	18,864	0	0	0	68,921	49,180	19,741
f. MANAGEMENT RESERVE														0		
g. TOTAL	1,410	837	783	-573	54	57,451	61,680	42,816	4,229	18,864	0	0	0	68,921		

CONTRACT PERFORMANCE REPORT

FORMAT 3 - BASELINE

DOLLARS IN THOUSANDS

Form Approved

OMB No. 0704-0188

1. CONTRACTOR	2. CONTRACT	3. PROGRAM	PARS II - RL-0041.C1 Base Funded Nuc Fact D&D River Corr	4. REPORT PERIOD
CH2M HILL Plateau Remediation Company	a. NAME: Plateau Remediation Contract	a. NAME:	Plateau Remediation Contract	a. FROM: 2017/12/25
b. LOCATION:	b. NUMBER: RL14788	b. PHASE		b. TO: 2018/01/21
Richland, WA	c. TYPE: CPAF	c. EVMS ACCEPTANCE		
	d. SHARE RATIO:	NO	YES X 9/18/2009	

5. CONTRACT DATA

a. ORIGINAL NEGOTIATED COST	b. NEGOTIATED CONTRACT CHANGE	c. CURRENT NEGOTIATED COST (A + B)	d. ESTIMATED COST AUTH UNPRICED WORK	e. CONTRACT BUDGET BASE (C + D)	f. TOTAL ALLOCATED BUDGET	g. DIFFERENCE (E - F)
0	$0	$0	$68,921	$68,921	$68,921	$0

h. CONTRACT START DATE	i. DEFINITIZATION DATE	j. PLANNED COMPL DATE	k. CONT COMPLETION DATE	l. EST COMPLETION DATE
6/19/2008	6/19/2008	9/30/2018	9/30/2018	9/30/2018

6. PERFORMANCE DATA

BUDGETED COST FOR WORK SCHEDULED (NON - CUMULATIVE)

ITEM	BCWS CUM TO DATE	BCWS FOR REPORT PERIOD	SIX MONTH FORECAST +1 Feb-18	+2 Mar-18	+3 Apr-18	+4 May-18	+5 Jun-18	+6 Jul-18	FY09-13	FY14	FY15	FY16	FY17	FY18	UNDISTRIB BUDGET	TOTAL BUDGET
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
a. PM BASELINE																
(BEGIN OF PERIOD)	**56,041**	**1,410**	**1,864**	**1,708**	**953**	**1,238**	**1,254**	**1,579**	**0**	**0**	**0**	**3,497**	**47,591**	**17,833**	**0**	**68,921**
b. BASELINE CHANGES AUTH DURING REPORT PERIOD																
RL_0041_C1.05.02 618-10 Burial Ground																
None at this time													**0**	**0**	**0**	**0**
RL_0041_C1.05.03 316-4 Waste Site																
None at this time													**0**	**0**	**0**	**0**
RL_0041_C1.05.04 600-63 Waste Site																
None at this time													**0**	**0**	**0**	**0**
c. PM BASELINE (END OF PERIOD)	**57,451**	**1,410**	**1,864**	**1,708**	**953**	**1,238**	**1,254**	**1,579**	**0**	**0**	**0**	**3,497**	**47,591**	**17,833**	**0**	**68,921**

CONTRACT PERFORMANCE REPORT
FORMAT 4 - STAFFING

Dollars in: FTE

FORM APPROVED
OMB No. 0704-0188

1. CONTRACTOR	2. CONTRACT		3. PROGRAM	4. REPORT PERIOD
a. NAME CH2M HILL Plateau Remediation Company	a. NAME PARS II - RL-0041.C1 Base Funded Nuc Fac D&D River Corr		a. NAME PARS II - RL-0041.C1 Base Funded Nuc Fact D&D River Corr	a. FROM *(YYYYMMDD)* 2017 / 12 / 25
b. LOCATION (Address and ZIP Code) Richland, WA	b. NUMBER RL14788		b. PHASE	b. TO *(YYYYMMDD)* 2018 / 01 / 21
	c. TYPE CPAF	d. SHARE RATIO	c. EVMS ACCEPTANCE NO: [ ] YES: [X] *(YYYYMMDD)* 2009 / 09 / 18	

5. PERFORMANCE DATA

WBS.FOC Control Account.PARS 2 WBS (3) ORGANIZATIONAL CATEGORY (1)	ACTUAL CURRENT PERIOD (2)	ACTUAL END OF CURRENT PERIOD *(Cumulative)* (3)	FORECAST *(Non-Cumulative)* SIX MONTH FORECAST BY MONTH *(Enter names of months)* +1 FEB 2018 (4)	+2 MAR 2018 (5)	+3 APR 2018 (6)	+4 MAY 2018 (7)	+5 JUN 2018 (8)	+6 JUL 2018 (9)	ENTER SPECIFIED PERIODS FY18 (10)	1st Qtr FY19 (11)	FY19 (12)	FY19-LC (13)	ATCOMPLETE (14)	AT COMPLETION (15)
041.6 - 618 10 Projects														
RL_0041_C1.05.02 618-10 Burial Ground	26	1151	28	28	26	25	22	4	7	0	0	0	0	1291
RL_0041_C1.05.03 316-4 Waste Site	0	69	1	0	0	0	0	0	0	0	0	0	0	70
RL_0041_C1.05.04 600-63 Waste Site	0	13	0	0	0	0	0	0	0	0	0	0	0	13
g. TOTAL DIRECT	26	1233	29	28	26	25	22	4	7	0	0	0	0	1375

CLASSIFICATION (When Filled In)

CONTRACT PERFORMANCE REPORT
FORMAT 5 - Explanations and Problem Analysis

FORM APPROVED
OMB No. 0704-0188

1. CONTRACTOR	2. CONTRACT		3. PROGRAM	4. REPORT PERIOD
a. NAME CH2M HILL Plateau Remediation Company	a. NAME Plateau Remediation Contract		a. NAME 041.6 - 618 10 Projects	a. FROM (YYYYMMDD) 2017 / 12 / 25
b. LOCATION (Address and ZIP Code) Richland, WA	b. NUMBER RL14788		b. PHASE	b. TO (YYYYMMDD) 2018 / 01 / 21
	c. TYPE CPAF	d. SHARE RATIO	c. EVMS ACCEPTANCE No X Yes (YYYYMMDI 2009 / 09 / 18	

5. Evaluation

Direct Projects

	Budget	Earned	Actuals	SV in $	SV in %	CV in $	CV in %	SPI	CPI
Current:	1,410.1	837.4	783.3	-572.7	-40.6%	54.0	6.5%	0.59	1.07
Cumulative:	57,450.9	61,680.1	42,816.0	4,229.2	7.4%	18,864.1	30.6%	1.07	1.44
	BAC	**EAC**	**VAC in $**	**VAC in %**	**TCPI to BAC**	**TCPI to EAC**			
At Complete:	68,920.9	49,180.1	19,740.9	28.6%	0.28	1.14			

Explanation of Variance/Description of Problem:

CURRENT MONTH

The current month unfavorable schedule variance is caused by work scope that was budgeted to be completed in the current period, but was completed in prior months. This work scope includes most of the 618-10 Burial Ground verification sampling and 316-4 Waste Site backfill activities.

The current month cost variance is within reporting thresholds.

CONTRACT TO DATE

The cumulative schedule variance is within reporting thresholds.

The cumulative favorable cost variance is partially due to the sharing of resources and materials among the projects, which has resulted in fewer purchased materials and lower labor costs. Attrition has led to a reduction in staffing and in cost with work still being completed on time with the resources left. In addition, excavation efficiencies at the 316-4 Waste Site reduced the total volume of soil to be removed, and the availability of existing crews to perform backfill scope at both the 316-4 Waste Site and the 618-10 Burial Ground instead of hiring a separate subcontractor resulted in cost savings.

VARIANCE AT COMPLETION

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

IMPACTS

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

Corrective Action:

Corrective Action:

None.

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

1. Schedule Margin Analysis: N/A, pending definitization of the scope.
2. IMS Data dictionary Changes: None in the month of January.
3. Forecast Schedule with No Baseline: None in the month of January.
4. UB Balance: N/A
5. Negative ACWP: There was negative ACWP in the current period in the Trench Excavation/Loadout account due to a labor correction.
6. EAC Analysis: Best Case: $49,180; Most Likely: $49,180; Worst Case: $50,139
7. Negative CV > VAC: N/A
8. MR Transactions: None in the month of January.
9. Freeze Period Changes: None in the month of January.
10. Retroactive Changes: None in the month of January.
11. EVT Changes: None in the month of January.