CHPRC-2018-06
Revision 0

Monthly Performance Report

June 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

CH2MHILL
Plateau Remediation Company

P.O. Box 1600
Richland, Washington 99352

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APPROVED
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CH2MHILL
Plateau Remediation Company

Monthly Performance Report

L. Ty Blackford
President and Chief Executive Officer

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DE-AC06-08RL14788
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PROJECT BASELINE SUMMARY SECTIONS

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EXECUTIVE SUMMARY

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

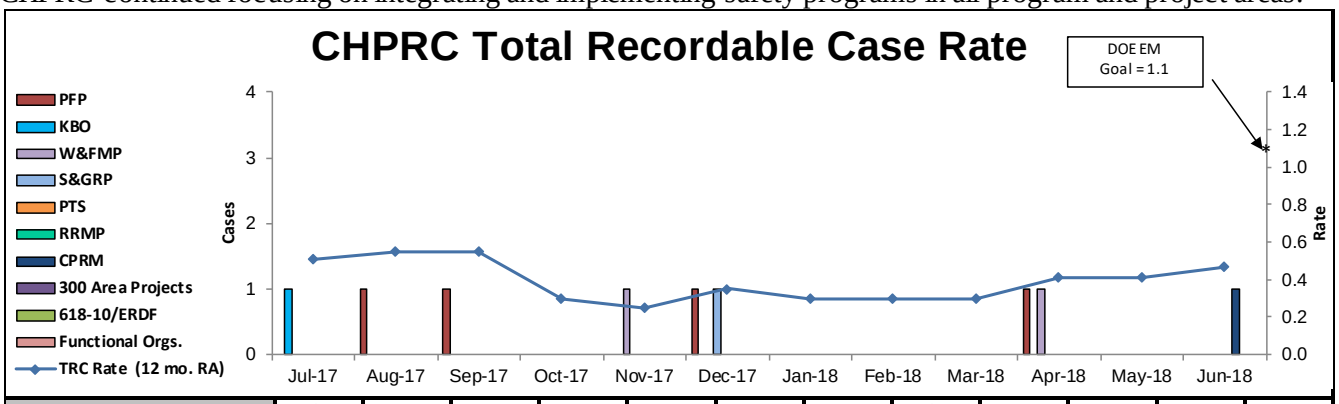
- K Basins Operations (KBO): Crews shipped the first load of highly radioactive sludge retrieved from the 105-K West Reactor Basin, near the Columbia River, to T Plant for safe, compliant storage on the Central Plateau. This shipment is the first of about two dozen that will occur over the next year as crews retrieve more radioactive sludge, allowing for eventual decommissioning of the 105-K West Reactor.
- Waste and Fuels Management Project (W&FMP): The T Plant team safely received the first sludge transport storage container (STSC) from 105-K West Reactor Basin on June 25, 2018. The WESF W-135 Project team continued work to move the cesium and strontium (Cs/Sr) capsules to a safer storage configuration. Seven holes ranging from 20 feet to 200 feet were drilled to obtain soil information to help in the design for the proposed Cs/Sr capsules outdoor storage pad. The drilling is essential to obtain the data needed to ensure the current design plans meet all applicable regulations.
- Soil and Groundwater Remediation Project (S&GRP): Workers completed the installation of the final of 22 remedy performance monitoring wells for 200-UP-1 Operable Unit (OU) that are required under the Hanford Federal Facility Agreement and Consent Order (Tri Part-Agreement) milestone M-016-193.
- Plutonium Finishing Plant (PFP): PFP loaded 20 super sacks previously loaded with demolition debris into large metal boxes suitable for transportation, and began shipping those boxes to the nearby Central Waste Complex (CWC) and the north outside storage areas. The PFP team also finished its Resumption of Work Plan, which incorporates feedback from the Department of Energy (DOE) Expert Panel and Regulators.
- PUREX: Construction of the Grout Delivery Truck Loop next to PUREX Tunnel 2 was completed.
- River Risk Management Project (RRM): The 618-10 team finished demobilization field work June 14, 2018, signifying completion of the 618-10 Burial Ground project. The 324 Building team installed temporary lights and cameras in A-Cell, which will help support the removal of a highly contaminated item from the cell, and completed the C-Cell gallery floor tile removal. The team at Environmental Restoration Disposal Facility (ERDF) coordinated the shipment and disposal of an especially large item, a 45-foot long pump from the 200 Area Tank Farms, and continued to prepare for disposal of PFP waste.

100-K employees Shay DeWitt (left) and Mike Garza (right) give a thumbs up during the first day of sludge retrieval.

- The President's Zero Accident Council (PZAC) meeting for June was hosted by RRMP. The three main ideas were:
  - Managing Project Risk.
  - Managing Task Risk.
  - Managing Individual Risk.
- Four "*Thinking Target Zero*" (TTZ) bulletins were published to convey important occupational, safety, health, and environmental messages:
  - Insects & Allergies.
  - Water Safety.
  - VPP ISMS-E1.
  - EMS Aspects.
- *Weekly Safety Tailgate* briefing packages communicated relevant topics and safety information to the workforce:
  - Four Lessons Learned:
    - Best Practice – Workers save lives with training and automated external defibrillators (offsite).
    - Simple Lockout/Tagout (LO/TO) installed on wrong breaker (offsite).
    - Previous success leads to decisions that resulted in spread of radiological contamination (CHPRC).
    - Lessons Learned - OPEX.
  - Injuries.
  - Weekly Ethics Moments.
  - Vehicle events.
  - National Safety Month.
  - Summer Safety.
  - Bird Nesting Season.
  - Hearing protection PPE.
  - Electric Shock Drowning.
  - Rattlesnake Safety Reminder.
  - PZAC Takeaways.

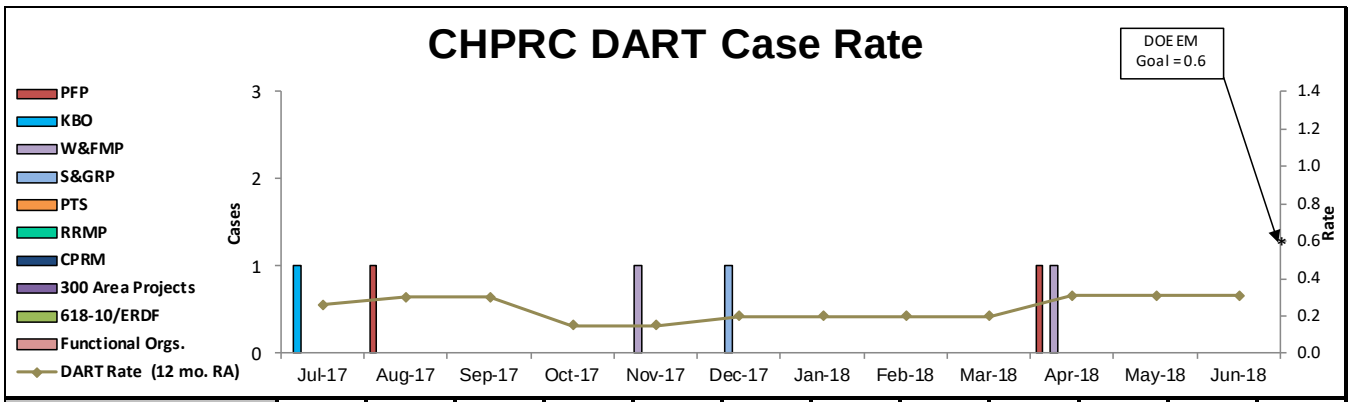
TARGET ZERO PERFORMANCE

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



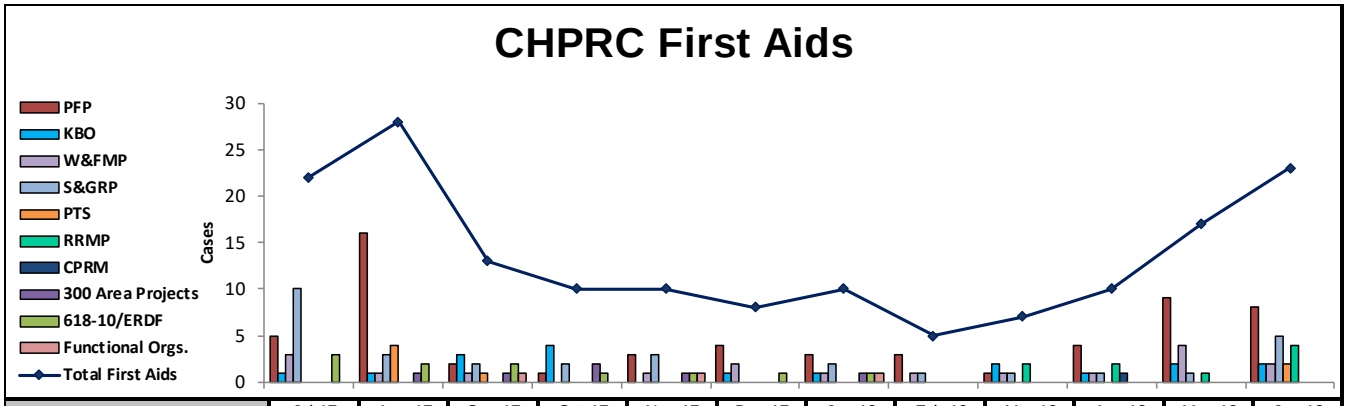
	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18
PFP	0	1	1	0	0	1	0	0	0	1	0	0
KBO	1	0	0	0	0	0	0	0	0	0	0	0
W&FMP	0	0	0	0	1	0	0	0	0	1	0	0
S&GRP	0	0	0	0	0	1	0	0	0	0	0	0
PTS	0	0	0	0	0	0	0	0	0	0	0	0
RRMP	-	-	-	-	-	-	-	-	0	0	0	0
CPRM	-	-	-	-	-	-	-	-	-	0	0	1
300 Area Projects	0	0	0	0	0	0	0	0	-	-	-	-
618-10/ERDF	0	0	0	0	0	0	0	0	-	-	-	-
Functional Orgs.	0	0	0	0	0	0	0	0	0	0	0	0
Recordable Cases	**1**	**1**	**1**	**0**	**1**	**2**	**0**	**0**	**0**	**2**	**0**	**1**
TRC Rate (12 mo. RA)	**0.51**	**0.55**	**0.55**	**0.30**	**0.25**	**0.35**	**0.30**	**0.30**	**0.30**	**0.41**	**0.41**	**0.47**

Total Recordable Injury Case (TRC) Rate: The 12-month rolling average TRC rate of 0.47 is based on a total of nine Recordable injuries. June had one reported Recordable case.



	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18
PFP	0	1	0	0	0	0	0	0	0	1	0	0
KBO	1	0	0	0	0	0	0	0	0	0	0	0
W&FMP	0	0	0	0	1	0	0	0	0	1	0	0
S&GRP	0	0	0	0	0	1	0	0	0	0	0	0
PTS	0	0	0	0	0	0	0	0	0	0	0	0
RRMP	-	-	-	-	-	-	-	-	0	0	0	0
CPRM	-	-	-	-	-	-	-	-	-	0	0	0
300 Area Projects	0	0	0	0	0	0	0	0	-	-	-	-
618-10/ERDF	0	0	0	0	0	0	0	0	-	-	-	-
Functional Orgs.	0	0	0	0	0	0	0	0	0	0	0	0
DART Cases	**1**	**1**	**0**	**0**	**1**	**1**	**0**	**0**	**0**	**2**	**0**	**0**
DART Rate (12 mo. RA)	**0.26**	**0.30**	**0.30**	**0.15**	**0.15**	**0.20**	**0.20**	**0.20**	**0.20**	**0.31**	**0.31**	**0.31**

Days Away, Restricted or Transferred (DART) Workdays Case Rate: The 12-month rolling average DART rate of 0.31 is based upon a total of six Days Away cases. June had no reported DART cases.



	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18
PFP	5	16	2	1	3	4	3	3	1	4	9	8
KBO	1	1	3	4	0	1	1	0	2	1	2	2
W&FMP	3	1	1	0	1	2	1	1	1	1	4	2
S&GRP	10	3	2	2	3	0	2	1	1	1	1	5
PTS	0	4	1	0	0	0	0	0	0	0	0	2
RRMP	-	-	-	-	-	-	-	-	2	2	1	4
CPRM	-	-	-	-	-	-	-	-	-	1	0	0
300 Area Projects	0	1	1	2	1	0	1	0	-	-	-	-
618-10/ERDF	3	2	2	1	1	1	1	0	-	-	-	-
Functional Orgs.	0	0	1	0	1	0	1	0	0	0	0	0
Total First Aids	**22**	**28**	**13**	**10**	**10**	**8**	**10**	**5**	**7**	**10**	**17**	**23**

First Aid Case Summary: CHPRC reported twenty-three first aid cases in June. The contributors were nine sprains/strains/pains; nine misc. (burns, rashes, repetitive motion, etc.); two cuts/lacerations/punctures; one abrasions/bruises/contusions; one insect bite and one undescribed/precautionary injury. In addition, two self-treat cases were reported in June.

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 PRC alignment for fiscal year (FY) 2017-2018.

- As of June month-end, there was a backlog of 52 undefinitized change proposals (CPs), requests for equitable adjustments (REAs), rough orders of magnitude (ROMs), and responses to requests for proposals (RFPs) – totaling approximately $325 million in net value without 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.

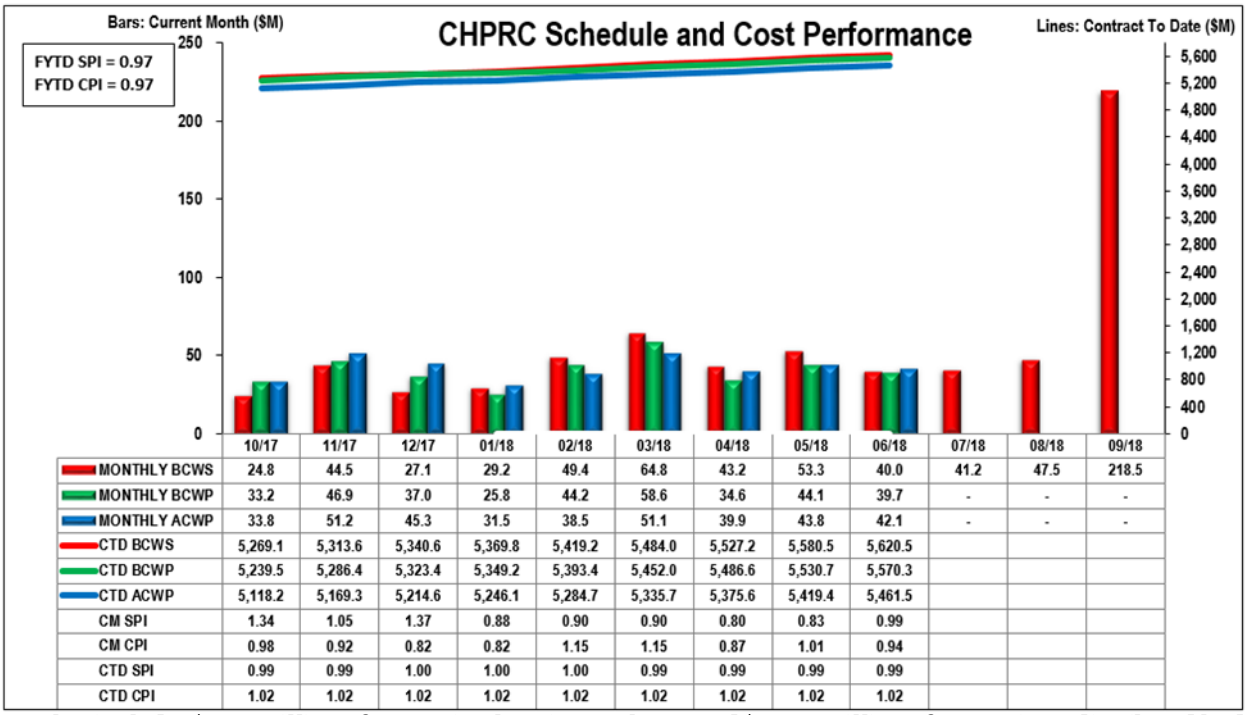
Status:

- CHPRC continues to discuss proposed alignment strategy with RL.
  - Realigned remaining contract scope for cost consistent with FY2018 Budget Guidance.
  - Developed 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	49.4	64.8	43.2	53.3	40.0	41.2	47.5	218.5
MONTHLY BCWP	33.2	46.9	37.0	25.8	44.2	58.6	34.6	44.1	39.7	-	-	-
MONTHLY ACWP	33.8	51.2	45.3	31.5	38.5	51.1	39.9	43.8	42.1	-	-	-
CTD BCWS	5,269.1	5,313.6	5,340.6	5,369.8	5,419.2	5,484.0	5,527.2	5,580.5	5,620.5			
CTD BCWP	5,239.5	5,286.4	5,323.4	5,349.2	5,393.4	5,452.0	5,486.6	5,530.7	5,570.3			
CTD ACWP	5,118.2	5,169.3	5,214.6	5,246.1	5,284.7	5,335.7	5,375.6	5,419.4	5,461.5			
CM SPI	1.34	1.05	1.37	0.88	0.90	0.90	0.80	0.83	0.99			
CM CPI	0.98	0.92	0.82	0.82	1.15	1.15	0.87	1.01	0.94			
CTD SPI	0.99	0.99	1.00	1.00	1.00	0.99	0.99	0.99	0.99			
CTD CPI	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02			

September includes $46.7 million of BCWS in planning packages and $131.5 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	0.5	5.6	0.5	(5.1)	988.7	973.5	1120.4	(15.2)	(146.9)	988.7	1,198.9	(210.2)
RL-0012 - SNF Stabilization & Disposition	3.8	4.0	3.3	0.2	0.7	732.6	732.4	703.0	(0.1)	29.5	745.4	717.2	28.2
RL-0013 - Solid Waste Stab & Disposition	9.0	11.2	12.7	2.2	(1.4)	1285.8	1282.5	1201.6	(3.3)	80.9	1,382.5	1,307.4	75.1
RL-0030 - Soil & Water Rem-Grndwtr/Vadose	9.5	8.7	8.1	(0.8)	0.5	1500.7	1493.8	1445.1	(6.9)	48.7	1,595.5	1,545.1	50.4
RL-0040 - Nuc Fac D&D - Remainder	2.4	3.1	3.4	0.7	(0.4)	482.0	479.3	454.8	(2.7)	24.5	510.7	487.4	23.3
RL-0041 - Nuc Fac D&D - RC Closure Project	15.2	11.9	8.8	(3.2)	3.2	604.9	582.9	515.2	(21.9)	67.7	678.6	601.8	76.7
RL-0042 - Nuc Fac D&D - FFTF Project	0.2	0.2	0.1	0.0	0.1	25.9	25.9	21.4	0.0	4.5	26.5	22.0	4.5
(Values are rounded to the nearest $0.1M) Total	40.0	39.7	42.1	(0.3)	(2.4)	5,620.5	5,570.3	5,461.5	(50.2)	108.8	5,927.8	5,879.9	47.9

(Values do not have UB breakout)

**Per e-mail 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 $47.9 million, with $66.8 million of management reserve (MR), for a total positive variance of $114.7 million. For June, the project was 0.8 percent behind schedule and 6.1 percent over planned cost. Contract to date (CTD), the project was 0.9 percent behind schedule and 2.0 percent under planned cost.

The current month (CM) schedule variance is within reporting thresholds.

The CM negative cost variance is primarily due to project breakdown structure (PBS) RL-0011 PFP demolition resumption actions and implementation of the new demolition requirements associated with the December 2017 contamination events. This includes fixative applications, performance of radiological surveys, and stabilization activities to support resumption of PFP demolition. This also includes additional material and equipment purchases to support the revised demolition approach. As resumption corrective actions (RCA) are performed, costs for labor, subcontracts, and material purchases add to the current month variance. Assignment of Jacobs Engineering corporate resources and reassignment of CHPRC personnel to support the RCA and programmatic assessments have also contributed to the variance. In addition, the resulting delay in demolition activities from the contamination event are causing an extension of unplanned project management, min-safe, and support resources.

Also contributing to the negative cost variance is PBS RL-0041 increased costs at the 324 Building Disposition Project for the installation of a conference room trailer, as well as unplanned increased staffing levels to support ongoing work. The project also experienced additional costs for the subcontractor that is developing the 60 percent design for structural modifications at the 324 Building due to additional design requirements including more extensive building modeling, soil stabilization and building verifications and demonstrations. PBS RL-0013 and RL-0041's negative cost variances are offset by budget residing in RL-0041 for ERDF scope, which is being collected in RL-0013. A BCR will be processed in the next month to align ERDF to RL-0013.

FUNDING ANALYSIS
FY2018 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	59.5	20.5
RL-0012	Spent Nuclear Fuel Stabilization and Disposition	41.9	37.9	4.0
RL-0012	15-D-401 Sludge Retrieval Project	18.8	17.7	1.1
RL-0013	Waste and Fuels Management Project	144.3	166.4	(22.2)
RL-0013	Management of Cesium and Strontium Capsules	6.5	1.0	5.5
RL-0030	Soil, Groundwater and Vadose Zone Remediation	121.9	113.9	8.0
RL-0040	Nuclear Facility D&D, Remainder of Hanford	69.0	40.4	28.5
RL-0041	Nuclear Facility D&D, River Corridor	143.6	137.2	6.4
RL-0042	Fast Flux Test Facility Closure	4.0	2.0	2.0
	Total Estimate at Complete	**630.0**	**576.0**	**54.0**
Incremental Scope Pending Change Management				
RL-0011	Nuclear Materials Stabilization and Disposition	0.0	0.0	0.0
RL-0012	Spent Nuclear Fuel Stabilization and Disposition	0.0	0.0	0.0
RL-0012	15-D-401 Sludge Retrieval Project	0.0	0.0	0.0
RL-0013	Waste and Fuels Management Project	0.0	(44.2)	44.2
RL-0013	Management of Cesium and Strontium Capsules	0.0	0.0	0.0
RL-0030	Soil, Groundwater and Vadose Zone Remediation	0.0	0.0	(0.0)
RL-0040	Nuclear Facility D&D, Remainder of Hanford	0.0	9.8	(9.8)
RL-0041	Nuclear Facility D&D, River Corridor	0.0	0.2	(0.2)
RL-0042	Fast Flux Test Facility Closure	0.0	0.0	0.0
	Total Incremental Work Scope	**0.0**	**(34.2)**	**34.2**
Total Fiscal Year Spend Forecast				
RL-0011	Nuclear Materials Stabilization and Disposition	80.0	59.5	20.5
RL-0012	Spent Nuclear Fuel Stabilization and Disposition	41.9	37.9	4.0
RL-0012	15-D-401 Sludge Retrieval Project	18.8	17.7	1.1
RL-0013	Waste and Fuels Management Project	144.3	122.3	22.0
RL-0013	Management of Cesium and Strontium Capsules	6.5	1.0	5.5
RL-0030	Soil, Groundwater and Vadose Zone Remediation	121.9	113.9	8.0
RL-0040	Nuclear Facility D&D, Remainder of Hanford	69.0	50.2	18.7
RL-0041	Nuclear Facility D&D, River Corridor	143.6	137.4	6.2
RL-0042	Fast Flux Test Facility Closure	4.0	2.0	2.0
	Total	**630.0**	**541.9**	**88.1**

Funds/Variance Analysis

For June, FY2018 expected funding was unchanged and remains at $630 million. The spending forecast decreased primarily in PBS RL-0011 for change in fee.

BASELINE CHANGE REQUESTS

In June 2018, CHPRC approved and implemented five BCRs into the PMB. Two of the five BCRs impacted the PMB. Each change request is identified in the table below:

Change Request #	Title	PBS	Summary of Change
BCR-012-18-008R0	*Change EV Method from Percent Complete to LOE*	RL-0012	This BCR modified the PMB schedule to reflect the earned value method (EVM) type changed from Percent Complete to level of effort (LOE) for ECRTS Preventative & Corrective Maintenance. This BCR did not change the PMB value.
BCR-013C-18-020R0	*W-135 Project WBS Re-alignment*	RL-0013	This BCR re-aligned the current WBS of the W-135 – Management of Cesium and Strontium Capsules (MCSC) Project, to the correct alignment between Capital and Expense scope. This BCR did not change the PMB value.
BCR-041-18-018R0	*Incorporate CO 330 Re-Plan 116-KE-2 Waste Site Remediation*	RL-0041	This BCR incorporated the scope and added quantities required to remediate the 116-KE-2 Waste Site. This BCR increased the PMB value by $1,272K.
BCR-PRC-18-026R0	*Incorporate CO 326 Re-Plan 105KW Basin Characterization*	RL-0041	This BCR re-planned for CO #326 105-K West Fuel Storage Basin Characterization. This BCR increased the PMB value by $323K.
BCRA-PRC-18-025R0	*HPIC Updates June 2018*	RL-0011, RL-0012, RL-0013, RL-0030, RL-0040, RL-0041	This BCR incorporated June FY2018 Hanford Programs Integrated Control Module (HPIC) updates. This BCR did not change the PMB value.

The Allocated (Distributed) Budget increased by $1,595K.

Undistributed Budget Activity

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

Overall, there was no change to the Undistributed Budget during June.

Management Reserve Activity

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

Overall, there was no change in MR in June.

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 June.

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).

June 2018 Summary of Changes

	FY 2009-2013	FY2014	FY2015	FY2016	FY2017	FY2018	FYs 2014-2018	Contract Period Total	Total PMB
May 2018 Estimate									
PMB	3,391,477	391,653	471,323	504,826	485,028	681,884	2,534,714	5,926,190	5,926,190
MR	0	0	0	0	0	66,835	66,835	66,835	66,835
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***	***767,580***	***2,687,650***	***6,234,631***	***6,234,631***
June 2018 Change									
PMB									
Change to PMB	***0***	***0***	***0***	***0***	***0***	***1,595***	***1,595***	***1,595***	***1,595***
MR									
Change to MR	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
Fee									
Change to Fee	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
Total Change	***0***	***0***	***0***	***0***	***0***	***1,595***	***1,595***	***1,595***	***1,595***
June 2018 Estimate									
PMB	3,391,477	391,653	471,323	504,826	485,028	683,480	2,536,309	5,927,786	5,927,786
MR	0	0	0	0	0	66,835	66,835	66,835	66,835
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***	***769,175***	***2,689,246***	***6,236,226***	***6,236,226***

Changes to/Utilization of Management Reserve in June 2018

	FY2009-2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2014-2018	Total
May 2018 MR Totals								
RL-0011	0	0	0	0	0	7,499	7,499	7,499
RL-0012	0	0	0	0	0	8,416	8,416	8,416
RL-0013	0	0	0	0	0	5,933	5,933	5,933
RL-0030	0	0	0	0	0	19,749	19,749	19,749
RL-0040	0	0	0	0	0	8,700	8,700	8,700
RL-0041	0	0	0	0	0	16,350	16,350	16,350
RL-0042	0	0	0	0	0	189	189	189
Total	***0***	***0***	***0***	***0***	***0***	***66,835***	***66,835***	***66,835***
June 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	0	0	0
RL-0030	0	0	0	0	0	0	0	0
RL-0040	0	0	0	0	0	0	0	0
RL-0041	0	0	0	0	0	0	0	0
RL-0042	0	0	0	0	0	0	0	0
Total	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
June 2018 MR Totals								
RL-0011	0	0	0	0	0	7,499	7,499	7,499
RL-0012	0	0	0	0	0	8,416	8,416	8,416
RL-0013	0	0	0	0	0	5,933	5,933	5,933
RL-0030	0	0	0	0	0	19,749	19,749	19,749
RL-0040	0	0	0	0	0	8,700	8,700	8,700
RL-0041	0	0	0	0	0	16,350	16,350	16,350
RL-0042	0	0	0	0	0	189	189	189
Total	***0***	***0***	***0***	***0***	***0***	***66,835***	***66,835***	***66,835***

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 - 6/30/2018				Planned Subcontracting:	$2,720,084,369
				Contract-to-date awards:	$2,713,194,143
Reporting Category				Bal remaining to award:	$6,890,226
	$ Value	%	Goal %	Goal award$	Bal to Goal
SB	$1,532,288,708	56.48%	49.3%	$1,341,001,594	-$191,287,114
SDB	$291,623,331	10.75%	8.2%	$223,046,918	-$68,576,413
SWOB	$286,939,997	10.58%	7.5%	$204,006,328	-$82,933,669
HUB	$78,645,438	2.90%	2.2%	$59,841,856	-$18,803,582
VOSB	$221,639,476	8.17%	3.5%	$95,202,953	-$126,436,523
SDVO	$134,224,487	4.95%	1.3%	$35,361,097	-$98,863,390
NAB	$67,304,051	2.48%	N/A		
Large	$681,676,315	25.12%	N/A	PRC clause H.20 small business requirement	
GOVT	$4,380,510	0.16%	N/A	≥ 17% of CHPRC Contract Price performed by SB.	
GOVT CONT	$483,194,359	17.81%	N/A		
EDUCATION	$119,541	0.00%	N/A	CHPRC Contract Value:	$5,732,255,464
NONPROFIT_	$3,999,820	0.15%	N/A	17% rqmt:	$974,483,429
FOREIGN	$7,534,891	0.28%	N/A	SB actual:	$1,532,288,708
Total	$2,713,194,143	100.00%	N/A	Bal to rqmt	-$557,805,279

Notes:

1. Since the CHPRC contract award in October 2008, CHPRC has subcontracted more than $2.7 billion in goods and services, with more than 56 percent going to small businesses. 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 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)

CH2MHILL
Plateau Remediation Company

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

June 2018
CHPRC-2018-06, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

On December 15, 2017, contamination was found outside of the established Plutonium Finishing Plant (PFP) radiological boundaries. On December 18, 2017, follow-up radiological surveys found additional contamination present in the administrative office area. Work was stopped after the second event, pending completion of a root cause analysis (RCA) and development of a resumption plan. CH2M Hill Plateau Remediation Company (CHPRC) finalized the Root Cause Evaluation (RCE) in April 2018 and is working with Department of Energy, Richland Operations Office (RL) and regulators to develop a plan to enable demolition activities to resume. Plutonium Reclamation Facility (PRF) debris, which had been loaded into super sacks prior to stopping work, has been loaded out, and adjustments to the work control zone and radiological buffer area (RBA) inside the work control zone are complete. Contamination Area/High Contamination Area (CA/HCA) postings are being revised and infrastructure modifications are being performed to support the resumption of demolition activities. A mockup and management assessment will be held to ensure the project is prepared to resume demolition. Once all resumption pre-start items are complete, the project will begin demolition debris loadout.

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
COMPLETE Buildings Ready for Demo	0	68 structures
Buildings Demolished or Removed	0	63 structures
Non-radioactive Waste Shipped	0 m^3	89.5 m^3
Transuranic/Transuranic Mixed (TRU/TRU-M) Shipped	932.2 m^3	5,010 m^3
LLW/MLLW Shipped	0 m^3	16,133 m^3

EMS Objectives and Target Status

Objective #	Objective	Targets	Actions	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.	100%

TARGET ZERO PERFORMANCE

(Reported on a calendar month basis)

	Current Month	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	2	N/A
Total Recordable Injuries	0	2	N/A
First Aid Cases	8	59	6/8/2018 – Employee's hand slipped and struck a latch while opening a small port on the Alpha Spec, causing a small puncture wound in the right thumb. The wound was cleaned and a Band-Aid applied. Employee was then taken to HPMC. (24859) 6/11/2018 – Employee was walking on the road/pathway that is adjacent to the debris piles to the north of 234-5Z. Employee caught their foot on a piece of rebar, which caused him to trip/stumble but not fall. Employee reported that the event did not cause him any immediate pain and he did not think he was injured. Employee reported pain associated with the event the next day and was taken to HPMC for evaluation. HPMC evaluated the employee and determined that he had a sprain/strain to right knee/leg. (24864) 6/18/2018 – Employee was lifting and placing a sheet of plywood into a waste container. While lifting and placing the sheet of plywood, the employee got a wood sliver in their left middle finger. Gloves were removed while performing radiological surveys. The sliver was removed with employee permission by RadCon. Employee was taken to HPMC for evaluation. Employee was returned to work with direction to protect the wound from contamination. Employee was also taken for a wound count. The wound count was negative for contamination. (24869)

	Current Month	Rolling 12 Month	Comment
			6/21/2018 – Employee reported that they started to feel wrist pain associated with their mouse and keyboard use on June 21, 2018. They reported this pain became progressively worse. Employee reported that on June 28, 2018, the pain was so bad that they could barely hold a fork, so they went to HPMC to be evaluated. HPMC referred the employee to an outside medical provider rather than releasing the employee back to work. It should be noted that supervision was not aware of the issue until after the employee had visited HPMC and not released back to work. Employee feels that the increase in paper/computer work associated with recent waste shipments out of PFP caused the wrist pain. Employee was diagnosed by the outside provider with tendonitis of right wrist. A work restriction was placed on the employee. (24889) 6/26/2018 – Employee was in the process of performing radiological surveys and gathering smear samples in Chemical Storage Unit HS0095. As part of this survey, the employee opened a Flammable Storage Cabinet that contained cans of spray paint, Lectra Clean, 3M Super 77, WD-40, paint thinner, PVC glue, expanding foam, Goof Off etc. Cabinet had a definite paint solvent-type smell. No immediate effects were noted by the employee while working within HS0095. However, once the employee made it to the count room in MO032, the employee was experiencing light headedness and a headache. Employee was taken to HPMC for evaluation. Employee was released back to work with no restrictions. (24882) 6/27/2018 – Employee was struck on left shoulder by a pop-up tent leg as a gust of wind picked up the tent. Employee denied any pain or injury. (24884) 6/29/2018 – Employee was moving (sliding on the floor) a four-drawer file cabinet (empty) in MO495 when he felt discomfort in his back. Later in the day, the employee reported the incident to the Field Work Supervisor (FWS) and was taken to the 200W HPMC clinic by FWS. He returned to work with no restrictions. (24887) 6/29/2018 – Employee was helping to move items out of trailers. That was an all-day activity that involved pushing, pulling, and lifting heavy items using both arms and shoulders. Employee noted that there were no items that were particularly heavy or awkward. After working for a while, employee noted his shoulder getting sore, which he contributed to muscle fatigue and old age. The employee reported the soreness the next day toward the end of his shift to his supervisor, as he noted the pain had gotten progressively worse. Employee was sent to HPMC for evaluation and was given a work restriction for the remainder of the day to rest and limit the use of his right arm and shoulder. Employee was placed on the work restriction toward the end of the shift, which did not impact his work activities. A follow-up was conducted by HPMC on July 2, 2018, with no restrictions placed on the employee. (24886)
Near Misses	0	0	N/A

KEY ACCOMPLISHMENTS

RL-0011 Accomplishments

- Accomplishments to achieve stabilization following the December 2017 contamination event include:
  - Continued maintenance applications of fixative.
  - Routine radiological surveys.
  - Expanded the revised RBA.
  - Extra radiological surveys when sustained winds are 30 miles per hour or greater. Previously, the threshold prompting extra surveys was 20 miles per hour.
  - Completed installation of a new trailer village PFP Site 2.
- Continued implementation of new demolition requirements associated with the December 2017 contamination event. Efforts include:
  - Completed PRF super sack loadout.
  - Continued retrieval of personal items from trailers within the new RBA.
  - Continued shipments of previously packaged waste.
  - Initiated retrofitting 2754W to accommodate new step-off pad.
  - Initiated chemical relocation from inside new boundaries to lag storage outside RBA.
  - Continued equipment maintenance to prepare for resumption of demolition activities.

MAJOR ISSUES

Issue:
On December 15, 2017, contamination was found outside of the established PFP radiological boundaries. On December 18, 2017, follow-up radiological surveys found additional contamination present in the administrative office area. CHPRC is continuing to identify resumption requirements based on a finalized RCA and working with RL and regulators to develop a plan to enable demolition activities to resume.

Corrective Action:
Work was stopped after the second event, pending completion of pre-start resumption activities. Material relocation, waste shipments, and infrastructure modifications to support enhanced radiological postings and resumption of demolition activities.

Status:
CHPRC has identified resumption requirements based on finalized RCA and working with RL and regulators to implement resumption plans to enable demolition activities to resume.

- Some of the activities that were performed during June were:
  - Implementation of additional radiological monitoring (i.e., continuous air monitor [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 in the PFP work control zone.
  - Maintenance, repair, and rebuild of existing equipment and systems in a safe/compliant configuration.
  - Continued 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.).
  - Completed loadout of PRF super sack waste.
  - Continued retrieval of personal items from trailers within the new RBA.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

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

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

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

Increased Confidence
No Change
Decreased Confidence

Risk Title	Unmitigated Risk Impacts	Assessment		Comments
		Month	Trend	
RL-0011/WBS-011.OA				
Explanation of major changes to the project monthly stoplight chart: No major changes to the stoplight chart in June.				
Realized Risks (Risks that are currently impacting project cost/schedule)				
PFP-P1-001: Deterioration of Super Sack's within the PFP Demolition Zone	The 21 super sack packaged items (17 Strongbacks, two size-reduced glovebox bags, and two miscellaneous items) have deteriorated over the course of the past few months and need to be repacked or tarps installed prior to shipment to the Central Waste Complex (CWC). **Risk Handling Strategy:** Control **Probability:** Low (10% to 25%) **Worst Case Impacts:** $0, 20 days	●	⟷	**Risk Event:** During loadout of the super sacks, liquid was identified in four super sacks. The super sacks had degradation, and through weather events and fixative application, liquid had accumulated in the sacks. Risk recovery action(s) / FC Date / %: Initiate work package early in planning phase to install tarps. — Complete — 100% Procure non long-lead tarps in the event tarps are required. — Complete — 100% Procure pumps to remove liquid from super sacks — Complete — 100% **Risk Action Assessment:** Hand pumps were procured and the work package was revised to allow for pumping of liquid. This allowed for super sacks to be loaded into compliant shipping packages and resulted in minimal impact to super sack loadout schedule. All super sacks were loaded in June.
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)				
FY2018 Risk Triggers (Risk could be realized in FY2018)				
PFP-P1-003: Weather Impacts During Stabilization, Waste Disposition, & Support	Inclement weather, including moderate winds, low or high temperatures, and thunderstorms will result in in-scope unplanned work and result in schedule impacts to the project. **Risk Handling Strategy:** Control **Probability:** Low (10% to 25%) **Worst Case Impacts:** $0, 24 days	●	⟷	**Risk Trigger:** When sustained wind speeds are greater than 30 mph or gusts are above 40 mph, work will be stopped pending radiological surveys to confirm no contamination has spread beyond established boundaries. Mitigation action(s) / FC Date / %: Plan for 80% T.O.E. — Ongoing — N/A **Mitigation Assessment:** Wind has continued to impact progress on resumption activities at the expected rate. Surveys are being conducted more efficiently and are resulting in less time to recover from wind events, allowing work to resume sooner following an event.
PFP-P-004: Stop Work From Concerned Workers	Concerned workers results in a stop work to address an off-normal or safety issues. The work cannot be restarted until the implementation of corrective actions is completed, resulting in schedule impacts to the project. **Risk Handling Strategy:** Accept **Risk Handling Strategy:** **Probability:** Very Likely (>90%) **Worst Case Impacts:** $0, 52 days	●	⟷	**Risk Event:** During resumption of PFP demolition activities, an increase in stop works could result in delays. Risk recovery action(s) / FC Date / %: Update communications as positions change. — Ongoing — N/A Provide new maps, with entry/exit instructions when boundaries are revised. — Ongoing — N/A Encourage additional worker involvement. — Ongoing — N/A Increase frequency of post-job reviews. — Ongoing — N/A **Mitigation Assessment:** Increased communication and worker involvement to avoid confusion and concern in an effort to minimize stop works.
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)				
No high threat risks identified in June.				
Unassigned Risks (Pending ownership of identified risks/opportunities)				
No unassigned risks identified in June.				

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	0.5	5.6	0.5	0.0%	(5.1)	-998.6%

Numbers are rounded to the nearest $0.1 million.

CM Schedule Variance: (+$0.5M/+0.0%)

The current month schedule variance is the result of completing behind schedule work scope associated with loadout of demolition debris from PRF. Super sacks containing strongbacks, debris, and sections of gloveboxes were loaded out during the month of June.

CM Cost Variance: (-$5.1M/-998.6%)

The current month negative cost variance is due to the resumption actions and implementation of the new demolition requirements associated with a December 2017 contamination event. This includes fixative applications, performance of radiological surveys, and stabilization activities to support resumption of PFP demolition. This also includes additional material and equipment purchases to support the revised demolition approach. As resumption corrective actions are performed, costs for labor, subcontracts, and material purchases add to the current month variance. In addition, the resulting delay in demolition activities from the contamination event are causing an extension of unplanned project management, min-safe, and support resources.

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	988.7	973.5	1,120.4	(15.2)	-1.5%	(146.9)	-15.1%	988.7	1,198.9	78.5	(210.2)

Numbers are rounded to the nearest $0.1 million

Contract-to-Date (CTD) Schedule Variance (-$15.2M/-1.5%)

The CTD schedule variance is within threshold.

CTD Cost Variance (-$146.9M/-15.1%)

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 support services. Unplanned costs to support implementation of schedule efficiency initiatives at PFP (i.e. foaming, Perma-Fix Northwest [PFNW] size reduction support, implementation of the PremAire Breathing system); increased training costs of additional Health Physics Technicians and D&D workers assigned to PFP; additional resources to recover schedule for asbestos removal activities and to support the unplanned asbestos identified for removal (about 10,000 feet); unplanned shipping materials (waste shipping containers TL-1800s, SLB2s, IP-1 bags, etc.) required to support waste loadout activities for TRU waste disposition efforts, and unplanned

work to reconfigure the high-density polyethylene (HDPE) water loop to support the new radiological boundaries also contributed to this variance.

Other contributors to the negative cost variance include resumption actions associated with the December 2017 contamination event which included fixative applications, performance of radiological surveys, stabilization activities to support resumption of PFP demolition. Reassignment of CHPRC personnel to support the RCA and programmatic assessments have also contributed to the 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 field work 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 were performed more efficiently than planned due to the main electrical power being disconnected outside of the building rather than performing individual isolations within the facility. Hazardous material removal, stabilization, and decontamination was more efficient than originally planned. (i.e., using powerful fans to assist with vertical fixative flow up the stack).

Implementation of a Baseline Change Request (BCR) was processed in September 2017 to draw down on RL contingency to recover cost impacts to the RL-0011 C.2 project associated with realized RL risks also partially offset the variance. Areas impacted were associated with weather delays, stop works, PRF contamination events, and Mission Support Alliance 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.

Variance at Completion (-$210.2M/-21.3%)
The unfavorable variance at completion (VAC) is reflective of extended hotel load and field resource costs due to delays in demo-ready and demolition activities.

As a result of wall removals and electrical isolations, it was discovered that approximately 10,000 feet of additional asbestos was found between the walls and required removal. CHPRC is working with RL to use contingency for the additional 10,000 feet of identified asbestos, impacts from the criticality alarm, and relief from the 30 days of weather delays experienced from December 2016 through March 2017.

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. After a stop work was called due to the December 2017 contamination event, the estimate at completion (EAC) and VAC is reflective of the projected date to reach slab-on-grade in April 2019. The EAC and VAC are reflective of resumption activities and revised demolition approach implementation.

Contract Performance Report Formats are provided in Appendix A.

FUNDS vs. SPEND FORECAST ($M)

WBS 011/RL-0011 Nuclear Matl Stab & Disp PFP	FY2018 Projected Funding	FY2018 Spending Forecast	FY2018 Variance
Spending Forecast	80.0	59.5	20.5
Incremental Scope Pending Change Management	0.0	0.0	0.0
RL-0011 - Total	80.0	59.5	20.5

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 $59.5 million to allow for recovery actions and continuation of demolition activities to achieve slab-on-grade. Projected funding is $80.0 million. The spending forecast decreased due to a change in fee.

Critical Path Schedule

The PFP Critical Path schedule begins with the continuation of resumption activities related to the December contamination event. After a scheduled mock-up and management assessment (MA) are completed, the project will obtain DOE concurrence for resumption of low risk demo activities. Debris disposition of the 234-5Z rubble piles will resume starting with the frontside waste. Once the waste debris is loaded out, demolition will resume on the remaining sections of zones 2 and 7, with the exception of the drain line. Remote Mechanical C process line demolition, Remote Mechanical A process line demolition, and loadout of glovebox HA-46, in parallel with completion of the basement of 234-5Z demolition will begin after a second MA and concurrence is obtained to resume high risk demo from DOE. The 234-5Z demolition is projected to complete February 26, 2019. The 236-Z canyon demolition will then resume with completion scheduled for April 25, 2019, 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 project closeout activities completing September 9, 2019.

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		04/25/19	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 a path forward. An RCA has been conducted and resumption actions and expected completion have been established. 14 days were lost on the schedule in June due to identified corrective actions required to resume 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 compliance with DOE Manual 460.2-1. 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)

CH2MHILL
Plateau Remediation Company

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

June 2018
CHPRC-2018-06, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

The DOE Operational Readiness Review (ORR) was completed on April 17, 2018. After successful closeout of pre-start findings and corrective actions, request for DOE approval of critical decision (CD)-4 for the C.1-1, Sludge Retrieval Project Line Item 15-D-401 was submitted to DOE on May 10, 2018. CD-4 Approve Start of Operations was approved on June 4, 2018. Sludge removal began on June 12, 2018, completing Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) milestone M-016-175. Sludge Transport & Storage Container (STSC) 1 is scheduled to be disconnected and prepped for shipment on June 25, 2018, and the first shipment of sludge placed in a T Plant cell is forecast to complete on June 27, 2018 (PM-12-2-18).

Project breakdown structure (PBS) RL-0012 scope is 98.3 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	2	14	• 6/11/18 – Employee reported feeling pressure in the ears while donning and doffing EVA PAPA in training. Body part affected: both ears. (24862) • 6/25/18 – Employee was lifting a 1½-inch hose and experienced shoulder pain. Body part affected: Left shoulder. (24880)
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 monthly and quarterly routines during the period.

KW Basin Sludge Removal Capital Asset Project

- The 100K Operations support team performed preventive maintenance and calibrations on both Engineered Container Retrieval and Transfer System (ECRTS) components and Annex Utility System components.
- RL transmitted approval of CD-4, Approval Start of Operations, to CHPRC on June 4, 2018.
- Sludge removal began on June 12, 2018, completing Tri-Party Agreement milestone M-016-175.
- The filling of the first STSC with sludge (from Engineered Container 210) was completed on June 22, 2018. Disconnect and preparation for shipment to T Plant is forecast to complete on June 25, 2018.

MAJOR ISSUES

Issue:
CHPRC is planning to complete the first shipment of sludge from 105KW Basin to T Plant on June 27, 2018, which would achieve performance measure (PM) PM-12-2-18 (June 30, 2018). Given the minimal remaining float, CHPRC management is monitoring both the cost and schedule associated with this work.

Corrective Action:
CHPRC completed the contractor ORR in March. The DOE ORR was completed in April. CHPRC submitted the request for authorization to startup letter and RL transmitted the approved Request for Startup on May 22, 2018.

Status:
Issue closed. Sludge retrieval began on June 12, 2018, and the PM is forecast to complete on June 27, 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

	Unmitigated Risk Impacts	Assessment		Comments
		Month	Trend	
RL-0012/WBS-012				
Explanation of major changes to the project monthly stoplight chart: Risk STP-154, *ORR Results in Delays to the Project,* and STP-155, *CD-4 Approval Takes Longer than Planned,* were closed per authorization for startup from DOE, and removed from the stoplight.				
Realized Risks (Risks that are currently impacting project cost/schedule)				
STP-151: Leak Tightness of Sludge Transportation System Casks	A failed leak test of the Sludge Transportation System (STS) Cask could result in in-scope unplanned work and significant schedule delays not assumed in the Sludge Removal Project (SRP) baseline. **Risk Handling Strategy:** Control **Probability:** Low (10% to 25%) **Worst Case Impacts:** $1,000K, 48 days			**Risk Event:** Although the project did not realize a failed cask leak rate test, a negative trend on Cask 2 resulted in a project management determination that it was necessary to procure a replacement lid. **Risk recovery action(s)** / **FC Date** / **%** Verify that both casks can pass the leak test criteria prior to initiating sludge removal operations. / Complete / 100 Institute procedural controls that maintain cask sealing surfaces in a condition that leak tightness is not compromised. / Complete / 100 Procure a replacement cask lid if a negative leak rate trend is observed. / 9/30/18 / 25 **Risk Action Assessment:** No major changes in June. A procurement order has been processed to procure a new STS Cask Lid. Cask 2 will not be used until the new lid has been received and successfully leak tested.
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)				
No critical risks identified in June.				
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:** Accept **Probability:** Very Low (<10%) **Worst Case Impacts:** $2 million, 48 days			**Risk Triggers:** 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 Evaluation of the potential for installation of camera systems to allow Operations and Radiation Protection Management to monitor testing and operation dry runs to ensure appropriate discipline and PPE are used to complete STSC connect/disconnect evolutions. / Complete / 100 **Mitigation Assessment:** No major changes in June. Training, procedure development, and RSA affidavits were completed. DOE authorized sludge removal operations on May 22, 2018, through the "Office of Environmental Management Approval for Startup of the Engineered Container Transfer System" email (Correspondence No. 1802002).

<table>
<tr><th></th><th>Unmitigated Risk Impacts</th><th colspan="2">Assessment
Month | Trend</th><th>Comments</th></tr>
<tr><td colspan="5">RL-0012/WBS-012</td></tr>
<tr><td>STP-073-C: Processing Efficiency - Retrieval & Shipping</td><td>The realized processing efficiency associated with sludge retrieval and shipping operations does not match the baseline plan.

Risk Handling Strategy: Control

Probability: Low (10% to 25%)
Worst Case Impacts: $0K, 48 days</td><td>  </td><td>  </td><td>Risk Triggers: Actual processing efficiency associated with sludge retrieval and shipping operations does not match baseline assumptions. While Management Directive (MD) PRC-MD-RP-53085, Suspension of 67 percent Confidence Level Surveys, was rescinded for 100K Radiological Area Activities, conservative radiological practices may extend operational activities beyond what was assumed in the baseline. This risk will continue in FY2018/FY2019 during operations campaign.

<table>
<tr><th>Mitigation action(s)</th><th>FC Date</th><th>%</th></tr>
<tr><td>Establish a Production Control Center to facilitate maximum efficiency integrating SRP operations and maintenance activities.</td><td>Complete</td><td>100</td></tr>
<tr><td>Review operations and maintenance activities required to produce each sludge STSC and establish a “typical” schedule integrating all activities in the most efficient sequence possible.</td><td>Complete</td><td>100</td></tr>
<tr><td>Revised plan to establish the appropriate campaign schedule</td><td>7/31/18</td><td>50</td></tr>
</table>

Mitigation Assessment:
No major changes in June. Project personnel continue 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.</td></tr>
<tr><td colspan="5">Unassigned Risks (Pending ownership of identified threats/opportunities)
CHPRC proposed five risks that are outside of CHPRC’s ability to manage and, as such, should be re-assigned to RL (STP-011D, STP-018, STP-073, STP-073-A, and STP-073-B). The proposal was not accepted by RL, stating, “the opportunities and threats appear to be under the control of CHPRC to manage”. CHPRC submitted letter CHPRC-1602146 R1 on August 30, 2016, in response to RL’s rejection letter.

CHPRC processed BCR-PRC-18-016R0, Incorporate Remaining FY2018 Work Scope for CO 327 Accelerating the Shipment of Sludge, to ensure that the project reflected the assumed scope to be completed within the current period of performance (five STSCs transported to T Plant by September 30, 2018).</td></tr>
</table>

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	3.8	4.0	3.3	0.2	6.4%	0.7	17.8%

Numbers are rounded to the nearest $0.1 million

CM Schedule Performance (+$0.2M/+6.4%)
The variance is within reporting thresholds.

CM Cost Performance (+$0.7M/+17.8%)

Current positive cost variance is the result of an over-accrual from Pacific Northwest National Laboratory (PNNL) in May. The contract to date costs for sample maintenance from PNNL was revised to the correct amount in June.

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	732.6	732.4	703.0	(0.1)	-0.0%	29.5	4.0%	745.4	717.2	14.2	28.2

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 (+$29.5M/+4.0%)
The variance is within reporting thresholds.

Variance at Completion (+$28.2M/+3.8%)
The variance is within reporting thresholds.

Contract Performance Report Formats are provided in Appendix A.

FUNDS vs. SPEND FORECAST
($M)

RL-0012 Spent Nuclear Fuel Stabilization and Disposition	FY2018 Projected Funding	FY2018 Spending Forecast	FY2018 Variance
Expense – Spending Forecast	41.9	37.9	4.0
Incremental Scope Pending Change Management	0.0	0.0	(0.0)
Expense – Subtotal	41.9	37.9	4.0
Line Item (LI)	18.8	17.7	1.1
Incremental Scope Pending Change Management	0.0	0.0	(0.0)
LI – Subtotal	18.8	17.7	1.1
RL-0012 – Total	**60.7**	**55.6**	**5.1**

Numbers are rounded to the nearest $0.1 million.

Funds/Variance Analysis
Fiscal year (FY) 2018 funding for PBS RL-0012 is $60.7 million. Positive variance of $4.0 million in expense funding is based on revised funding levels in the Central Plateau control point provided by RL in March 2018. 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 project critical path schedule runs through STSC 1, completion of retrieval operations, including the filling of STSCs with sludge, transporting to T Plant, and placement of STSC 1 in T Plant cell completing PM-12-2-18. Tri-Party Agreement milestone M-016-176, Complete Sludge Removal from 105KW Fuels Storage Basin, is required by December 2019.

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 requests (BCRs) define CHPRC planning with respect to Tri-Party Agreement milestones. The following table shows the Tri-Party Agreement milestone 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	6/12/2018 (A)	Complete	

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.

DOE ACTIONS / DECISIONS

None currently identified.

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

CH2MHILL
Plateau Remediation Company

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

T. L. Hobbes
Vice President for River
Risk Management Project

M. A. Wright
Vice President for
Project Technical
Services

June 2018
CHPRC-2018-06, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

During the June reporting period, May 28 – June 24, 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. The River Risk Management Project (RRMP) continued operations at the Environmental Restoration Disposal Facility (ERDF) and began issuing subcontracts for permit and document modifications at the Integrated Disposal Facility (IDF).

This month:

- Management of Cesium and Strontium Capsule (MCSC) Project: Work continues on the final design for the Cask Storage System (CSS) and the Capsule Storage Area (CSA) pad. A formal Final Design Review kickoff meeting was held on June 21, 2018, for the CSA. The CSS Thermal, Universal Capsule Sleeve (UCS) Structural, TSC Structural, Vertical Concrete Cask (VCC) Structural and VCC Drop analyses were completed for the CSS final design. Work continues on the preliminary design for the Waste Encapsulation and Storage Facility (WESF) Modifications. The draft 60 percent Preliminary Documented Safety Analysis (PDSA) was provided to DOE for review. The Tugger and Vertical Cask Transporter (VCT) were received from West Valley, New York. Supplemental design information for the CSA and WESF Modifications were transmitted to Ecology for review. The information was requested by Ecology in support of their Resource Conservation and Recovery Act of 1976 (RCRA) permit completeness determination.
- At T plant, the sludge receipt team initiated sludge operations and forecasted to receive first shipment of sludge from the 100-K West Reactor Basin to T Plant on June 27, 2018. There are four additional shipments planned this year.
- The project continued the detailed planning for FY2019-FY2021 in support of DOE's out-year planning.

EMS Objectives and Target Status

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 use equipment as received.	9/30/18	100%
18-EMS-WFMP-OB2-T1	Chemical management compliance.	Evaluate the process for chemical management at Canister Storage Building (CSB) and T Plant. Perform an assessment on chemical inventory locations.	9/30/18	63%
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	100%

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	60%
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	60%

TARGET ZERO PERFORMANCE

(Reported on a calendar month basis.)

	CM Quantity	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	2	N/A
Total Recordable Injuries	0	2	N/A
First Aid Cases	2	18	6/12/18 – Employee was cooking breakfast in the microwave and used a fork to verify eggs were cooked. Upon poking with a fork, the yoke exploded and sprayed hot egg yolk parts in employee's eye and wrist. Employee was transported to HPMC, evaluated, and released with no restrictions. (24863) 6/27/18 – Employee struck right hand on cabinet, causing laceration. At Kadlec, employee received four sutures and was released with no restrictions. (24885)
Near Misses	0	0	N/A

KEY ACCOMPLISHMENTS

Waste and Fuels Management Project

13.01 Project Management

- Performed/Completed:
  - Current Consent Agreement and Final Order (CAFO) document development status: On April 16, 2018, Ecology identified additional changes to the Sampling and Analysis Plan (SAP) portion of the CAFO closure plans with additional changes related to statistical analyses. CHPRC personnel have met with RL and Ecology multiple times to agree on a path forward. An additional meeting is scheduled with Ecology on July 9, 2018, to attempt resolution of their concerns.
  - The project continued the detailed planning for FY2019-FY2021 in support of out-year planning.

13.02 Capsule Storage & Disposition

- Performed/Completed:
  - Two WESF operational drills and one Emergency Preparedness drill.
  - Outdoor lighting enhancements for WESF walking and working areas.
  - Offloading of the Tugger and VTC from West Valley, New York; in support of the W-135 project.
  - Canyon entries in support of 15-ton crane wire rope, hook, and sheave inspections.
  - Support for U.S. Environmental Protection Agency and Washington State Department of Ecology (WDOE) tour.
  - Decontamination and removal of hose on the tank 100 recirculation loop. Awaiting new components that will allow recirculation and sampling of the tank.
- Completed Surveillances/Preventive Maintenance (PM):
  - 36 PM packages.

13.03 Canister Storage Building (CSB)

- Performed/Completed:
  - One operational drill at CSB.
  - Review of 90 percent design and submittal of Review Comment Record (RCR) comments to subcontractor for AH-004 upgrades.
  - Initiation of Air Handler 004 Upgrades material staging and fieldwork.
- Completed Surveillances/PMs:
  - 24 PM packages.

13.06 Transuranic (TRU) Repackaging

- Repackaging:
  - Two shipments of M-091 legacy suspect transuranic mixed (TRUM) waste to Perma-Fix Northwest (PFNW) from the Central Waste Complex (CWC). Once returned, these will contribute 71.7 cubic meters (m^3) toward the next volumetric objective, bringing the total to date to 294.5m^3.

13.07 Waste Receiving and Processing (WRAP)

- Performed/Completed:
  - Monthly inspections for WRAP.
- Completed Surveillances/PMs:
  - 192 surveillances.
  - 21 PM packages.

13.08 T Plant

- Performed/Completed:
  - Initiation of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) Waste areas in 211T and 2706TA.

- The first and second U Plant Canyon entry to retrieve crane parts. Retrieval of all planned parts is complete.
- WDOE tour.

o Completed Surveillances/PMs:
- 427 surveillances.
- 29 PM packages.

Sludge Receipt

o Performed/Completed:
- Forecasted to receive first shipment of sludge from the 100-K West Reactor Basin to T Plant on June 27, 2018. Four additional shipments are planned for this year.

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

o Performed/Completed:
- Installation of locking devices on power panel E5698L-SD.
- Container moves in 2404WA to support lighting upgrades.

o Completed Surveillances/PMs:
- 267 surveillances.
- 12 PM packages.

o Shipments received:
- Four 1800 TLs from the Plutonium Finishing Plant (PFP) into CWC in four shipments.
- Twenty-four drums from Pacific Northwest National Laboratory (PNNL) into CWC in one shipment.
- Thirteen SWBs and five boxes from PFNW into CWC in nine shipments.

13.15 TRU Disposition

o Performed/Completed:
- Continued detailed review of three TRU waste streams; one is reaching completion.
- Received Los Alamos National Laboratory (LANL-CO) response to revised Hanford Annual Transuranic Waste Inventory Report. Comments are being addressed and a revised submission will be made in early July.

13.16 Offsite Spent Nuclear Fuel Disposition

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

13.21 Mixed Waste Disposal Trenches (MWT)

o Completed surveillances/PMs:
- 112 surveillances.

o Shipments received:
- Five boxes from PFNW into MWT31 in two shipments.

13.24 Management of Cesium and Strontium Capsules Project

o Performed/Completed:
- CSA Design: The formal Final Design Review kickoff meeting was held on June 12, 2018.
- WESF Modifications Design: Architect/Engineer subcontractor continued preliminary design activities for the WESF Modifications.

13.25 Capsules Interim Storage Operations

o Performed/Completed:
- CSS design: NAC International, continues to work on the CSS final design. The CSS Thermal, UCS Structural, TSC Structural, VCC Structural and VCC Drop analyses were completed.
- Engineering: Work continues on the fabrication of the new Pass-Through Gauge to complete capsule dimension checks.
- Nuclear Safety: Transmitted the draft 60 percent PDSA to DOE for review.

- Environmental: Ecology continues to review supplemental information provided for the CSA and WESF modification RCRA permit incompleteness determination.

River Risk Management Project

13.10 Environmental Restoration Disposal Facility (ERDF)

- Received 17,377 tons of waste for disposal in June.
- Received 130,928 tons fiscal year-to-date (FYTD).
- Continued full dress in-field mockups to prepare for the disposal of PFP waste, ensuring the implementation of PFP lessons learned.

13.12 Integrated Disposal Facility (IDF)

- Care & Custody
  - Performed/completed June monthly inspections.
  - Collected daily flow and tank level data.
  - Performed six required significant storm event inspections.
- IDF Operational Readiness
  - Awarded subcontract to support IDF RCRA permit modifications.
  - Continued the conceptual final cover design for the RCRA permit addenda.
  - Completed the statement of work (SOW) for the subcontract to design the facility modifications and site infrastructure.
  - Issued requisition for subcontract to revise IDF performance assessment documents to address DOE Low-Level Waste Disposal Facility Federal Review Group (LFRG) review comments. Subcontract will be awarded in early July.
  - Issued requisition for contracted labor to support preparation of the IDF Waste Acceptance Criteria (WAC) and Waste Analysis Plan (WAP). Subcontract will be awarded in early July.

Project Technical Services (PTS) Support

- Project Delivery:
  - CSB Air Handling unit 004:
    - Mobilized to site and completed installation and sealing of ducting. Testing is scheduled for July 13, 2018.
  - W-135 Geotechnical Investigation:
    - Mobilized to field and completed drilling of boreholes – Construction Completion Document issued.
  - Trench 31 and 34 Operational Layer Construction:
    - Completed scope of work development and issued request for proposal for contractor bids.
    - Estimate and schedule preparation were completed.
  - Supported update of Facility Emergency and Hazard Information Checklists (FEHIC) for: CWC/LLBG/WRAP.

MAJOR ISSUES

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:
The permit application was formally submitted to Ecology on November 21, 2017, with the 30 percent design information. Ecology's completeness review for the WESF permit modification request was received on February 5, 2018. Ecology's completeness review for the Capsule Interim Storage (CIS) permit application was received on February 13, 2018. Ecology concluded that the permit applications were incomplete. Additional information to address the completeness review was transmitted to Ecology on May 8, 2018. Specific comments on the proposed permit addenda have not yet been received from Ecology.

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 provide support to RL regarding cost and dose impacts and awaits 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 Waste Isolation Pilot Plant (WIPP) in Carlsbad, New Mexico. 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 FY2018 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 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 that was transmitted on July 6, 2016 (CHPRC-1602928). The project continues to await RL direction for sanitary water system facility modifications. The MSA water purveyor also performed the annual cross-connection review at WESF on February 6, 2018. WESF is currently awaiting the report. Additionally, at MSA's request, a letter was transmitted that describes to the MSA water purveyor the recently completed risk reduction activities at WESF (e.g.; W-130 Project) and the current schedule for removal of capsules to dry storage. On May 7, 2018, CHPRC received a response to this status stating that "the facility hazard level can be reduced from severe to high ONLY after Project W-135 is fully executed, with the capsules removed and protective basins drained." CHPRC plans to notify RL that they anticipate work for the planning and preparations necessary for modifications to the potable water system will be included and authorized in the FY19 work authorization.

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: No major changes to the stoplight chart in June. Risk WSD-TR-01, *DOE Provided Drivers Not Available*, was removed from the Realized Risk section, and added to the Critical Risks section.				
Realized Risks (Risks that are currently impacting project cost/schedule)				
WSD-TR-03: Equipment fails CVSA Inspection or is Non-Operational	The Commercial Vehicle Safety Alliance (CVSA) Inspection identifies defects/issues with MSA Managed Fleet equipment that requires repairs or replacement, resulting in cost impacts and schedule delays. **Risk Handling Strategy:** Accept **Probability:** Medium (26% to 74%) **Worst Case Impacts:** $500K, 64 days			**Risk Event:** On March 29, 2018, the clutch on the tractor that is used when pulling super sacks went out. In addition, during a return shipment from PFNW, water inside the Super 7A was discovered. **Risk recovery action(s)** / **FC Date** / **%** Perform tractor clutch repair. / Complete / 100 Perform leak test on Super 7A. / 8/2018 / 0 Perform four shipments to PFNW in June. / Complete / 100 **Risk Action Assessment:** No significant changes in June. Due to the realization of this risk, the project performed a repair on the tractor clutch. The tractor was returned to service following the repair. The Super 7A was returned from PFNW with water inside, which could indicate a leak. Investigations will be conducted to identify the cause. Shipments continue with the Super 7A-2.
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>Risk Title</th><th>Unmitigated Risk Impacts</th><th colspan="2">Assessment
Month | Trend</th><th>Comments</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 the T Plant crane.</td><td>Ongoing</td><td>N/A</td></tr></table>
Mitigation Assessment:
No significant changes in June.
The project has put into place mitigating strategies (i.e., aggressive Surveillance and Maintenance [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 August 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 and continues to work with the vendor to acquire additional critical spares. In addition, spare parts from U Plant were salvaged.</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 waste, 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 June.
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 through the remainder of the fiscal year.</td></tr>
</table>

<table>
<tr><th>Risk Title</th><th>Unmitigated Risk Impacts</th><th colspan="2">Assessment
Month | Trend</th><th>Comments</th></tr>
<tr><td colspan="5">RL-0013/WBS-013</td></tr>
<tr><td>WSD-140: As-Found-Unknown Conditions - T Plant</td><td>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</td><td>  </td><td>  </td><td>Risk Trigger Metric: Based on unknown conditions, the possible risk triggers are unknown.

<table><tr><th>Mitigation action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>Repairs to 221-T Dock number 2 in support of sludge receipt.</td><td>Complete</td><td>100</td></tr><tr><td>Submittal of a baseline change request (BCR) to break out the planning package planned for May.</td><td>Complete</td><td>100</td></tr><tr><td>Repair piping in the head-end of tunnel.</td><td>8/2018</td><td>0</td></tr></table>
Mitigation Assessment:
No significant changes in June.
Past periods included work on dock two removal and installation as well as asphalt repair. In April, a leak was repaired that impacted the canyon. In addition, piping in the head-end of the tunnel will require repair. This repair is currently scheduled to be initiated in August. The project has identified additional structural issues with the facility stairs and exits for which evaluations and repairs will be carried out as necessary.</td></tr>
<tr><td>WSD-125: Multi-Year Pause in Waste Processing Results in Unexpected Container Integrity Issues</td><td>A pause in waste processing results in an unexpected container degradation within Solid Waste Operations Complex (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</td><td>  </td><td>  </td><td>Risk Trigger Metric:
Degraded containers are discovered in CWC.
<table><tr><th>Mitigation action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>Perform daily/weekly waste container surveillances to identify container abnormalities.</td><td>Ongoing</td><td>N/A</td></tr><tr><td>Manage a “watch list” of waste containers that have shown signs of degradation or are associated with degraded containers.</td><td>Ongoing</td><td>N/A</td></tr><tr><td>Process waste packages at a rate funded by RL.</td><td>Ongoing</td><td>N/A</td></tr><tr><td>Procuring stainless steel 85-gallon overpacks for alternative storage of containers that show signs of degradation.</td><td>Complete</td><td>100</td></tr></table>
Mitigation Assessment:
No significant changes in June.
The project continued to perform container surveillances in June to identify container and container cover abnormalities. Three drums have been placed in overpacks in FY2018, in addition to 24 containers in 2404WC with signs of exterior corrosion, which were placed in stainless steel overpacks on October 18, 2017. Five additional drums with corrosion were identified for overpack and four are complete. Furthermore, the overpack of storage box 75DMA16F3 was completed. 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.</td></tr>
<tr><td>WSD-TR-01: DOE Provided Drivers Not Available</td><td>Scheduling issues prevent the government-provided drivers from being assigned/available to make off-site waste shipments, resulting in cost impacts and schedule delays.
Risk Handling Strategy: Transfer

Probability: Low (10% to 25%)
Worst Case Impacts: $100K, 48 days</td><td>  </td><td>  </td><td>Risk Trigger Metric: Federal drivers were unavailable to perform scheduled waste shipments.

<table><tr><th>Mitigation action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>Scheduling remaining FY2018 shipments with supporting functions.</td><td>Complete</td><td>100</td></tr><tr><td>Perform four shipments to PFNW in June.</td><td>Complete</td><td>100</td></tr></table>
Mitigation Assessment:
No significant changes in June.
An April shipment was delayed due to a transportation audit resulting in federal driver conflicts. The project was successful in rescheduling the remaining FY2018 shipments with supporting functions to mitigate this realized risk.</td></tr>
<tr><td colspan="5">FY2018 Risk Triggers (Risk could be realized in FY2018)</td></tr>
</table>

Risk Title	Unmitigated Risk Impacts	Assessment		Comments
		Month	Trend	
RL-0013/WBS-013				
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 used, 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 used. **Mitigation action(s)** / **FC Date** / **%** None identified at this time. / N/A / N/A **Mitigation Assessment:** No changes in June. The 2003 pre-conceptual design is based on design criteria that is older than 13 years old. Design criteria that impacts the ability to use 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.
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 significant changes in June. 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 which is in draft, but has not yet been published.
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 June. 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.
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 changes in June. 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 awaiting a determination of incompleteness and other comments on the application. The determination of incompleteness is primarily associated with the need for additional design information, which is currently being gathered. CHPRC submitted supplemental design information for the WESF Mods and CSA to RL in May to support Ecology's incompleteness determination. RL has transmitted this information to Ecology. Ecology is currently reviewing the design information. The project anticipates that a temporary authorization will be necessary if the permitting process is not timely.
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)				

<table>
<tr><th>Risk Title</th><th>Unmitigated Risk Impacts</th><th colspan="2">Assessment
Month | Trend</th><th>Comments</th></tr>
<tr><td colspan="5">RL-0013/WBS-013</td></tr>
<tr><td>WSD-086:
W&FM Industrial Accident or Contamination</td><td>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</td><td>  </td><td></td><td>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.
<table><tr><th>Mitigation action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>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.</td><td>Ongoing</td><td>N/A</td></tr></table>Mitigation Assessment:
No significant changes in June.
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.</td></tr>
<tr><td>WSD-133:
Results of External Audits/Assessments Impact Operations</td><td>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: Control

Probability: Medium (26% to 74%)
Worst Case Impacts: $3,000K, 0 days</td><td>  </td><td>  </td><td>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.
<table><tr><th>Mitigation action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>Replace WESF pool cell instrumentation systems, add 21 PM/S WRAP electrical system activities, and perform WRAP floor repair.</td><td>Ongoing</td><td>N/A</td></tr><tr><td>Provide RL information to substantiate the current project position.</td><td>Ongoing</td><td>N/A</td></tr><tr><td>Participate in technical mitigations to ensure compliance.</td><td>Ongoing</td><td>N/A</td></tr></table>Mitigation Assessment:
No significant changes in June.
The project has replaced the bulk of the WESF pool cell instrumentation system and is currently working the on-line beta monitoring modifications. WRAP floor repairs are ongoing. Completed maintenance on the High Energy Real Time Radiography Linear Accelerator. Additional maintenance work will be performed based on facility work priority.</td></tr>
<tr><td>WSD-136:
CWC/WRAP Components Fail</td><td>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: Control

Probability: Medium (26% to 74%)
Worst Case Impacts: $2 million, 0 days</td><td>  </td><td>  </td><td>Risk Trigger Metric: Maintenance activities at CWC increase due to aging facilities.
<table><tr><th>Mitigation action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>Floor repairs, Master Documented Safety Analysis (MDSA) container stacking requirements, replacement of exhaust fans.</td><td>Ongoing</td><td>N/A</td></tr><tr><td>Obtain spare parts for the Fire Alarm Control Units (FACU) via deactivation of old FACUs.</td><td>9/2018</td><td>N/A</td></tr><tr><td>Conduct fieldwork for 2727W deactivation.</td><td>8/2018</td><td>50</td></tr><tr><td>Conduct fieldwork for MO433 deactivation.</td><td>9/2018</td><td>0</td></tr><tr><td>Conducting doorframe replacements and electrical equipment repairs as necessary.</td><td>Ongoing</td><td>N/A</td></tr></table>Mitigation Assessment:
No significant changes in June.
The WRAP roof was analyzed for structural integrity following water intrusion. There was insufficient basis for the roof’s integrity, which may lead to an eventual roof replacement. The MDSA container stacking requirements are complete. Maintenance work at CWC will be scheduled based on facility work priorities. The WRAP facility experienced failure of the majority of the breakers earlier in the year and is currently repairing Motor Control Centers (MCC). A sinkhole in the WRAP parking lot was repaired in April 2018. Repair to the line and fire hydrant causing the sinkhole were completed in October 2017.</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 June.</td></tr>
</table>

PROJECT BASELINE PERFORMANCE
Current Month
($M)

WBS 013/RL-0013 Waste and Fuels Management Project	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance ($)	Schedule Variance (%)	Cost Variance ($)	Cost Variance (%)
Total	9.0	11.2	12.7	2.2	24.8%	(1.4)	-12.8%

Numbers are rounded to the nearest $0.1 million

CM Schedule Performance (+$2.2M/+24.8%)

The current month (CM) positive schedule performance variance is associated with TRU repacking schedule recovery for suspect TRU/MLLW ahead of schedule. Also contributing to the positive schedule performance is schedule recovery related to the MCSC Project (W-135) Project Management activities, CSA and CSS design, and completion of capsule characterization activities that were scheduled in prior months.

CM Cost Performance (-$1.4M/-12.8%)

The CM cost performance variance is primarily due to ERDF costs being collected in Project Breakdown Structure (PBS) RL-0013 while the budget remains in PBS RL-0041. The project will process a BCR in FY2018 that will move the ERDF budget for FY2018 to PBS RL-0013. The variance is offset due to significant efficiencies in labor utilization within Project Management. This is attributable to the continued implementation of efficiencies as a cost cutting measure. Efficiencies include resource sharing across multiple scopes of work in areas of engineering, training, emergency preparedness, corrective action management, and environmental management. Also contributing to the offset of the negative cost performance is the MCSC Project (W-135) due to claiming performance for the capsule characterization activities with minimal costs associated for this scope. The project developed an alternative sampling plan consisting of visual observation instead of laboratory sampling and RH/Large Package Capability due to the efficiencies related to the conceptual design for retrieval. The efficiencies are the result of already existing reliable documents and data, which has reduced the effort needed to continue developing the work scope.

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	1,285.8	1,282.5	1,201.6	(3.3)	-0.3%	80.9	6.3%	1,382.5	1,307.4	105.9	75.1

Numbers are rounded to the nearest $0.1 million

CTD Schedule Performance ($-3.3M/-0.3%)

The CTD schedule variance is within threshold.

CTD Cost Performance (+$80.9M/+6.3%)
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&FMP; 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 the Corrective Action System (CAS) and using 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&FMP; 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 (+$75.1M/+5.4%)
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&FMP; 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&FMP; and eliminating the separate waste forecast system by integrating forecasting as part of the baseline process and SWITS. The variance at completion is offset because the forecast for ERDF operations has been moved into PBS RL-0013 from PBS RL-0041, but a BCR to transfer the budget from PBS RL-0041 will not be processed until later in FY2018.

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	150.8	167.4	(16.7)
Incremental Scope Pending Change Management	0.0	(44.2)	44.2
RL-0013 – Total	150.8	123.3	27.5

Numbers are rounded to the nearest $0.1 million.

Funds/Variance Analysis
The FY2018 projected funding level for PBS RL-0013 of $150.8 million is based on the revised guidance provided by RL following passage of the FY2018 Omnibus. The $27.5 million variance between projected funding and the spend forecast is primarily due to the absence of ERDF costs from October-April charged to RL-0041; Project W-135 has not experienced subcontract charges at the anticipated level, deferral of regulatory document preparations (Revision 9, Part B, and CAFO closure plans) due to delay in receipt of regulatory comments, and realization of reduced projected staffing levels.

Critical Path Schedule
Critical Path Analysis will be provided upon request.

MILESTONE STATUS

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

Number	Title	Due Date	Actual Date	Forecast Date	Status/ Comment
C-026-07L	Tritium Treatment Technology Developments to Ecology and EPA.	3/31/18	3/22/18 (A)		Completed
M-091-53	Submit Milestone Change Request to Replace Target Dates for Capabilities to Process TRUM Waste	9/30/18		9/30/18	On schedule
M-092-00	Acquire Facilities for Cs/Sr, Na & SCW	9/30/18		9/30/18	In Program Planning
M-091-52-T01A	Remove Five (5) Mixed Waste Containers from Outside Storage Area A and/or Outside Storage Area B	11/30/18	4/26/18 (A)		Completed
M-026-07D	Evaluation of Tritium Treatment Technology to EPA & Ecology	3/31/19		3/31/19	On schedule
C-026-07M	Submit Tritium Treatment Technology Developments to Ecology & EPA	3/31/19		3/31/19	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 treatment, storage and disposal (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 Carlsbad Field Office (CBFO).	No WIPP shipments are planned within the remaining contract period of performance.

DOE ACTIONS / DECISIONS

Description	CHPRC Delivery Date	Expected RL Due Date
CSB – Obtain RL DSA Approval	1/31/2018 (A)	7/19/2018

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

CH2MHILL
Plateau Remediation Company

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

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

M. A. Wright
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Project Technical
Services

June 2018
CHPRC-2018-06, 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 completed in June 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	34.7	288.3	2.1	20.2						
HX P&T	38.9	279.9	2.0	19.0						
KR-4 P&T	14.0	89.1	0.1	0.8						
KW P&T	14.2	127.2	0.7	9.0						
KX P&T	36.5	290.9	2.2	18.1						
200 West P&T	92.6	861.7	9.4	76.8	197.0	1,747.0	$.22x10^{12}$	$1.98x10^{12}$	11.2	116.2
Combined	**230.7**	**1937.0**	**16.4**	**143.9**	**197.0**	**1,747.0**	**$.22x10^{12}$**	**$1.98x10^{12}$**	**11.2**	**116.2**
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	3	1	1
100-HR-3	6	0	6
200-UP-1	5	1	5
200-ZP-1	4	0	2
M-24 Milestone	1	0	1
Total Wells	**19**	**2**	**15**
Site Wide Boreholes	**29**	**0**	**29**

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	66%
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	100%

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	5	32*	6/4/2018 – Employee experienced knee pain while exiting a vehicle after arriving at the job site. As the employee proceeded to work, the pain worsened. The individual was taken to HPMC and then escorted to Physicians Immediate Care for evaluation. The employee returned to work through HPMC and has been referred to an orthopedic specialist for further evaluation. (24854) 6/5/2018 – Employee developed a bump on the forehead after hitting their head against a door. The individual was evaluated at HPMC and returned to work with no restrictions. (24856) 6/11/2018 – Employee requested a worker compensation claim after seeing an off-site orthopedic specialist who diagnosed them as having bilateral carpal tunnel syndrome. The diagnosis was confirmed at HPMC. The employee returned to work without restrictions. (24861) 6/13/2018 – Employee fell while walking up steps, suffering a scrape on the right palm. The employee was seen by HPMC where they were treated for hand pain with over-the-counter medication and released to return to work without restrictions. (24866) 6/20/18 – Employee experienced difficulty breathing and tightness in the chest the day after working with an engraving machine. The individual was evaluated at HPMC for exposure to vapors and returned to work with no restrictions. (24877) *1 First Aid case, PTS in support of RL-0030.
Near-Misses	0	0	NA

KEY ACCOMPLISHMENTS

RL-0030.O1 RL-0030 Operations

River Corridor

300-FF-5 OU

- Stage B field construction activities progressed ahead of schedule with injection components, including the injection skids, borehole injection and monitoring equipment, sampling equipment, electrical resistance tomography geophysical equipment, and the above-ground chemical injection hoses all in place. The construction acceptance work package (WP) has been initiated with testing expected to occur in July. All base chemicals needed for the manufacturing of the injection solution have been ordered from the chemical manufacturer.

100-KR-4 OU

- Completed construction and development of well 199-K-232 on June 14, 2018.
- Completed drilling at well 199-K-234 on June 13, 2018.

100–HR-3 OU

- Transmitted the Draft Revision 1, 100-HR-3 Pump and Treat System Operations and Maintenance Plan to RL for both RL and Ecology review on June 6, 2018.
- Completed minor text changes to the draft Record of Decision (ROD) based on a Tri-Party Agency meeting held on June 12, 2018. Per discussions with U.S. Environmental Protection Agency (EPA), it appears that the ROD may be signed in July.
- Completed Operational Acceptance Testing (OAT) of extraction well 199-H3-29 on June 19, 2018. Anticipate sample collection for elevated constituents (technetium-99 and nitrate) to start the week of June 25, 2018.

100-NR-2 OU

- Completed internal review of the Draft B Remedial Investigation/Feasibility Study (RI/FS) report. The document is in editing/production and is planned to be provided as a Decisional Draft to RL in August.

100-BC-5 OU

- Met with EPA and RL on May 30 and June 4, 2018, to review and resolve EPA comments on the Draft Revision 0 Proposed Plan (PP). Completed final revisions and cleared the document for public release on June 7, 2018. The document was provided to RL and EPA on June 8, 2018. The Draft Revision 0 PP was forwarded for EPA legal review on June 11, 2018.
- Met with RL on June 7, 2018, to discuss current schedule and demands for completing both the Revision 0 RI/FS and Revision 0 PP. Completion of the cultural review evaluation is the critical path activity for completion of the RI/FS.

Central Plateau

200-UP-1 OU

- Completed construction of the last of 22 200-UP-1 wells in support of Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) Milestone M-016-193 (well 699-39-68).
- RL review of the Decisional Draft Remedial Design Investigation Report for the 200-UP-1 Operable Unit (OU) Southeast Chromium Plume is underway and expected to be completed by June 28, 2018.

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

- Initiated construction activities for extension of the 200-BP-5 extraction system to a third extraction well, 299-E33-361.
- Completed the Decisional Draft Tracer Study Sampling Analysis Plan (SAP), which will be provided to RL by June 25, 2018. The SAP defines field-scale tracer tests planned for near U Plant and the B-Complex. Briefed RL on the results of the Phase 1 tracer study June 21, 2018.
- Continued preparation of the draft Phase 1 tracer study report, which is on schedule to be provided to RL by June 28, 2018. Briefed RL on the results of the Phase 1 tracer study June 21, 2018.

200-DV-1 OU

- Briefed RL on 200-DV-1 Workbook – S Complex characterization results June 13, 2018, in preparation for the next EPA and Ecology briefing planned for July 3, 2018.

200-ZP-1 OU

- Completed the first campaign of sediment removal from modular storage unit (MSU) 3 on June 1, 2018, removing approximately 25 cubic yards of sediment.
- Received concurrence from EPA and RL on June 14, 2018 that sample results of MSU 3 were satisfactory. Approximately 100,000 gallons of MSU water has been treated at the 200 West P&T as of June month end.
- Briefed RL on the 200 West P&T highlights from the annual P&T report and 200-ZP-1 recommendations on June 14, 2018.

200-WA-1 and 200-BC-1

- Briefed RL on the optimized target analytic list on June 11, 2018.

200 East Closure Plans

- Completed Option 2 Closure Plan Template on June 14, 2018.
- Confirmed completion of comment resolution for the 216-A-36B closure plan with Ecology on June 14, 2018.
- Conducted Closure Plan Needs Meeting with Ecology on June 14, 2018, for the 216-A-37-1 crib.

200-EA-1

- Briefed RL on 200-EA-1 RI/FS work plan and SAP internal comment modifications on June 11, 2018.

RCRA Groundwater Monitoring

- All the Engineering Evaluation Reports (EERs) for the 200 East area have been issued as Regulator Review Drafts with the exception of B/BX/BY, NRDWL, and IDF. Comments on all submitted documents have been received and disposition is underway.
- All the EERs for 200 West are being prepared final as Revision 0. The Groundwater Monitoring Plans for 200 West have started and comments on WMA-U are being resolved. Templates for the remaining plans will be developed based on these comment resolutions.

Project Technical Services Accomplishments

- Training and Procedures
  - Supported update to Training and Inspection Plan for groundwater monitoring plans.
  - Worked with Soil and Groundwater Remediation Project (S&GRP) Environmental Compliance Officer to update the project-specific Universal Waste/Recyclable Material Handling and Packaging procedure.

- Operations Program
  - Conducted training on Measuring and Testing Equipment notice of deficiencies.
- Emergency Preparedness
  - Released the Revision 0 Facility Response Plan (SGRP-IP-0603-6265).
- 300-FF-5 Stage B Project Delivery
  - Completed setting of chemical storage tanks.
  - Completed install of mechanical and electrical components.
  - Commenced shoreline stairway construction.

Groundwater P&T Facilities

- Overall, the P&T systems are operating above target as depicted in the P&T performance graph below.

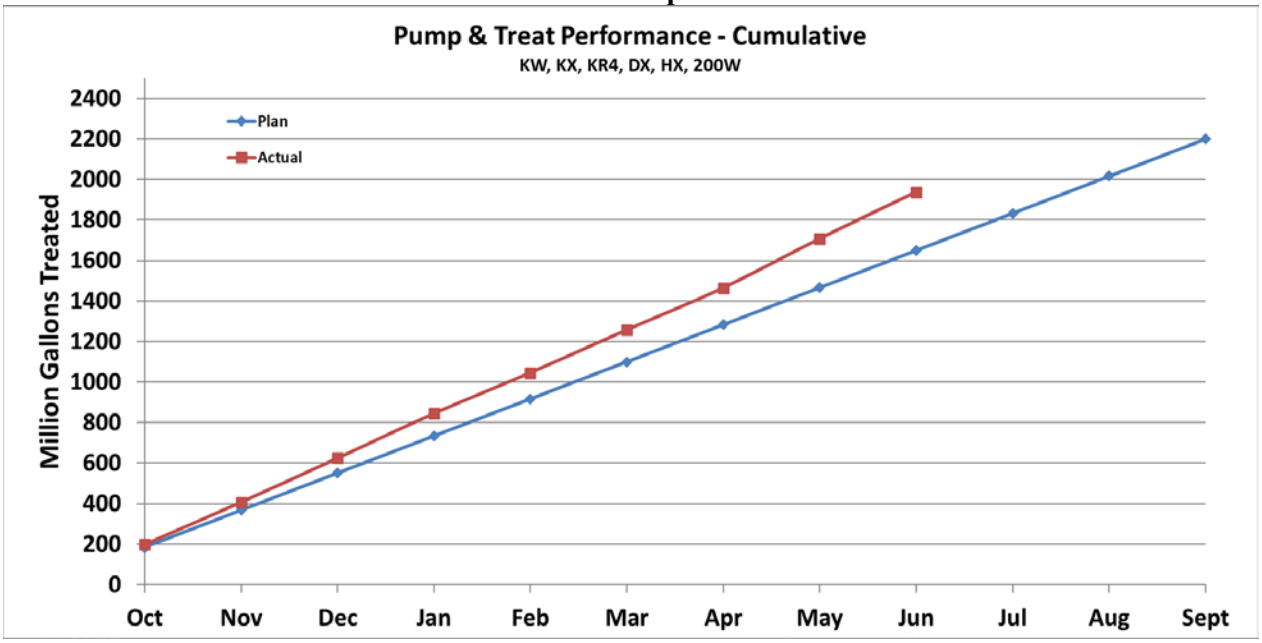
200 West P&T

Operated the 200 West P&T at an average of 2,143 gallons per minute (gpm).

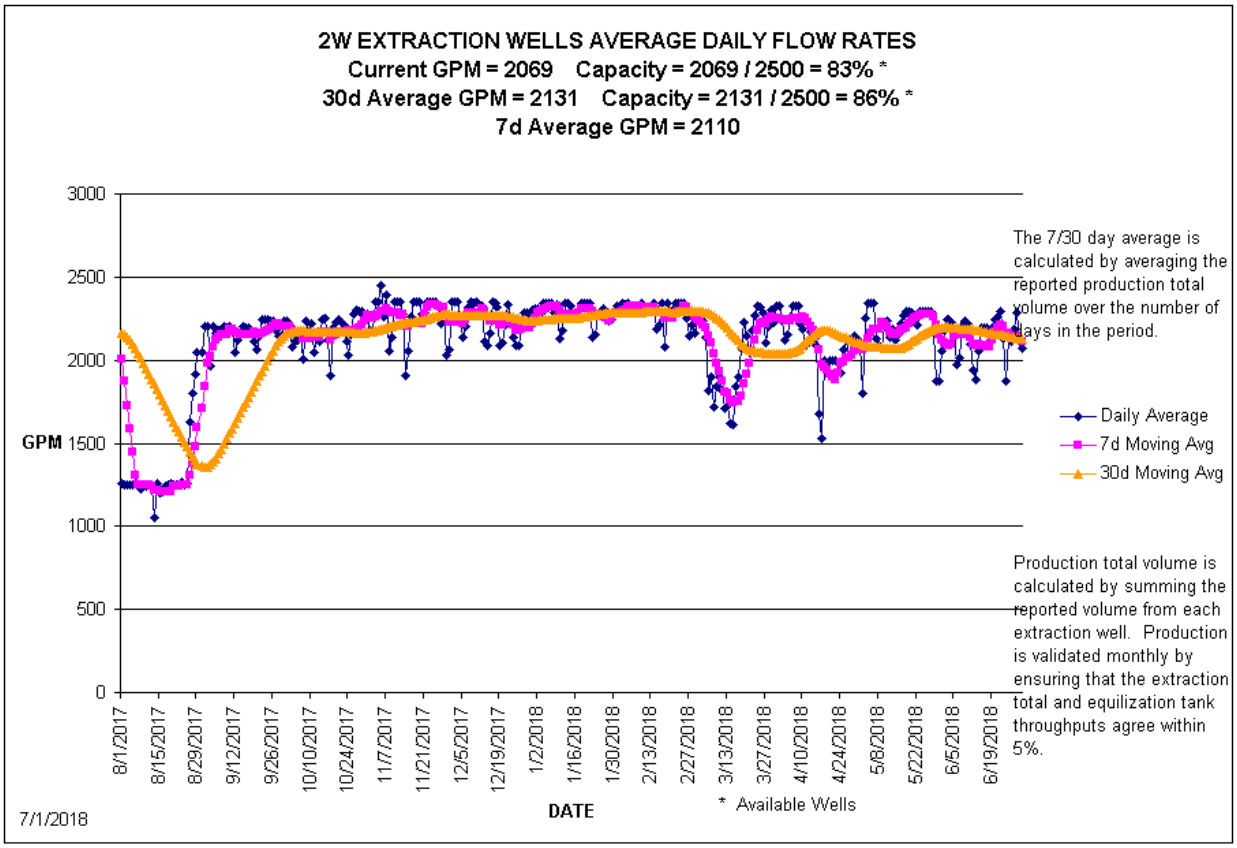
100 Area P&Ts

- Operated the DX P&T at 802 gpm, above the facility capacity of 775 gpm.
- Operated the KR-4 P&T at 323 gpm, near the facility capacity of 330 gpm.
- Operated the KW P&T at 328 pm, near the facility capacity of 330 gpm.
- Operated the KX P&T at 844 gpm, below the facility capacity of 900 gpm.
- Operated the HX P&T at 898 gpm, near the facility capacity of 900 gpm.

FY2018 P&T Operations



200 West P&T



MAJOR ISSUES

No major issues identified during this reporting period.

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

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	9.5	8.7	8.1	(0.8)	-8.3%	0.5	6.0%
Numbers are rounded to the nearest $0.1 million.							

CM Schedule Performance (-$0.8M/-8.3%)
The current period negative schedule variance is the result of positive schedule variance earned in prior periods returning to zero:

- 100-HR-3 P&T optimization well drilling and associated well realignments.
- 100-KR-4 P&T well drilling.
- 200-UP-1 monitoring well drilling to support Tri-Party Agreement Milestone M-016-193.

CM Cost Performance (+$0.5M/+6.0%)
The favorable current period cost variance is the result of:

- More spare parts being checked out than were replaced by purchasing in the Integrated Field Work control account.
- 100-HR-3 P&T labor resources being loaned to support modutank decanting.
- Existing supply of on-hand chemicals for 200W P&T resulted in fewer orders than planned in the current month.
- The Usage Based Services Distributions account seeing fewer leased vehicles, fuel, inspection, maintenance, and report work than originally planned.
- This positive variance was offset in part by preparation for 300-FF-5 Stage B injections. Field work preparation activities were performed in a prior year and then the project was laid up. The project is now restarting site preparation activities.

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	1,500.7	1,493.8	1,445.1	(6.9)	-0.5%	48.7	3.3%	1,595.5	1,545.1	100.0	50.4

Numbers are rounded to the nearest $0.1 million.

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

CTD Cost Performance (+$48.7M/+3.3 %)
The variance is within reporting thresholds.

Variance at Completion (+$50.4M/+3.2%)
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	121.9	113.9	8.0
Incremental Scope Pending Change Management	0.0	0.0	0.0
RL-0030 –Total	121.9	113.9	8.0

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 is $121.9 million. In June there was no significant change in forecast.

Critical Path Schedule

Critical path analysis will be provided upon request.

MILESTONE STATUS

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

Number	Title	Due Date	Actual Date	Forecast Date	Status/ Comment
Milestones on Schedule					
M-015-92A	Submit RFI/CMS & RI/FS Work Plan for 200-EA-1 OU to Ecology	7/31/18		7/19/18	On schedule.
M-024-69-T01	Conclude discussions of well commitments initiated under M-024-58	8/1/18		7/31/18	On schedule.
M-016-193	Investigate SE Chromium Plume, Install Wells, Evaluate GW Monitoring Data & Install Monitoring Wells	9/30/18		9/26/18	On schedule.
M-015-21A	Submit 200 BP-5 & 200 PO-1 OU FS Report and PP(s) to Ecology	3/31/19		2/26/19	On Schedule.
Milestones at Risk					
M-015-93C	Initiate Characterization Field Work for 200-SW-2 Operable Unit Landfills	9/30/18		TBD	At risk. A signed Tri-Party Agreement change control form was provided to Ecology on June 19, 2018.

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.

DOE ACTIONS / DECISIONS

Description	CHPRC Delivery Date	Expected RL Due Date
RL Review Draft Revision 1 100-HR-3 Pump and Treat System Operations and Maintenance Plan	6/7/2018 (A)	7/6/2018
RL Review Draft Central Plateau Tracer Test Sampling Analysis Plan	6/22/2018 (A)	7/20/2018
RL Review Draft KW Rebound Study Report	6/26/2018	7/26/2018
Concurrent RL and CHRPC Review of Internal Draft SST WMA U Groundwater Monitoring Plan	6/29/2018	7/9/2018
RL Transmit Draft Revision 0 100-BC-5 RI/FS Report to Regulators for Review	7/2/2018	7/2/2018
RL Transmit Draft A 200-EA-1 RI/FS Work Plan to Regulators for Review	7/2/2018	7/19/18
Concurrent RL and CHPRC Review of Internal Draft SST WMA T Groundwater Monitoring Plan	7/10/2018	7/17/2018
RL Transmit Draft IDF Engineering Evaluation Report to Ecology for Review	7/12/2018	7/13/2018
Concurrent RL and CHRPC Review of Internal Draft SST WMA TX-TY Groundwater Monitoring Plan	7/18/2018	7/24/2018
Concurrent RL/Regulator Review Draft A 200-EA-1 RI/FS Work Plan	7/20/2018	8/18/2018
RL Transmit Draft B 200-BP-5 RI to Regulators for Final Review	7/24/2018	7/25/2018
RL Transmit Draft NRDWL/SWL Engineering Evaluation Report to Ecology for Review	7/25/2018	7/25/2018
RL Review Draft 200W P&T GW Remediation Plan	7/27/2018	8/25/18
Concurrent RL and CHPRC Review of Internal Draft SST WMA S-SX Groundwater Monitoring Plan	7/31/2018	8/7/2018
Concurrent RL and CHPRC Review of Internal Draft 216-S-10 Pond and Ditch Groundwater Monitoring Plan	8/6/2018	8/13/2018
Concurrent RL and CHPRC Review of Internal Draft LLBG WMA-4 Groundwater Monitoring Plan	8/13/2018	8/20/2018
RL Transmit Revision 0 SST WMA C Engineering Evaluation Report to Ecology	8/16/2018	9/7/2018
RL Transmit Revision 0 216-A-37-1 Crib Engineering Evaluation Report to Ecology	8/17/2018	9/12/2018
Concurrent RL and CHPRC Review of Internal Draft LLBG WMA-3 Groundwater Monitoring Plan	8/22/2018	8/29/2018
RL Review of Decisional Draft B 100-NR-2 RI/FS	8/24/2018	9/22/2018
Concurrent RL and CHPRC Review of Internal Draft SST WMA B-BX-BY Engineering Evaluation Report	8/29/2018	8/29/2018
Concurrent RL and CHPRC Review of Internal Draft 216-B-63 Trench Engineering Evaluation Report	8/31/2018	9/7/2018
RL Submit Revision 0 100-BC-5 RI/FS Report to Regulators	9/10/2018	9/24/2018
RL Review Decisional Draft B Revision 1 200-ZP-1 RD/RAWP	9/21/2018	10/10/2018
RL Issue Revision 0 100-BC-5 Proposed Plan for Public Review	9/21/2018	9/23/2018

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

CH2MHILL
Plateau Remediation Company

T.E. Bratvold
Vice President for
Central Plateau Risk
Management

June 2018
CHPRC-2018-06, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

The Plutonium Uranium Extraction Plant (PUREX) Tunnel 2 site improvement effort was completed this month, which included road upgrades and site clearing in readiness for grouting. The final design for the grout conveyance system was released to the contractor and fabrication of the first set commenced. The contractor proposals for the grout contract were evaluated and a selection was made. Award of the contract is pending DOE consent. Additionally, demolition and loadout of the 222-B facility continued.

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	1	1	6/13/18 – Teamsters were preparing to off-load boxes from their pickup truck when a teamster leaned on the handrail and the bracket broke, cutting the inside of his left forearm. Teamster was taken to HPMC and was referred to the emergency room for stitches. He received eight stitches and was returned to work with a restriction. (24868)
First Aid Cases	0	6	N/A
Near Misses	0	0	N/A

KEY ACCOMPLISHMENTS

RL-0040 Accomplishments

Central Plateau Risk Reduction (CPRM) Facilities and Waste Sites

- Performed PUREX Stack Sampling.
- Removed low-hanging power line feeding Near-Field Air Monitor on the south side of PUREX to support Infrastructure activities for tunnel work.
- Performed power outage at 231Z-DS-1 and completed equipment maintenance. (Lockout/Tagout overtag on Pole W976).
- Completed the Semi-Annual Presumed Asbestos Containing Material (PACM) Waste Identification Data System (WIDS) site surveillances.

PUREX Tunnel 2 Stabilization Project

- **Project Technical Services (PTS) Support**
  - Mobilization subcontractor commenced and completed site improvements.
  - Grout Conveyance – Commenced fabrication and completed set up of mockup at Subcontractor's shop.

- Integrated Disposal Facility (IDF) Site – Anchored and set trailer, commenced electrical upgrades.
- Grouting Contract – Contractor proposals received, reviewed, and a recommendation was completed, awaiting final consent to award from RL..
- Released 'issued for construction' drawings on grout extension boom.

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

- Completed B Plant pre-filter change-out 1.
- Planning is underway for entry into B Plant to investigate anomalies.

REDOX Canyon Risk Mitigation

- **Relocating REDOX team into MO-049**
  - Completed all re-lamping and replacement of damaged lighting fixtures.
  - Moved radiological technicians slated to support 202S (REDOX) into MO-409.
  - Completed installation of human resources communication boards, training workstations, and computers.
  - Completed skirting repair of MO-409.
- **Relocating mask station, and Industrial Health and Radcon count rooms**
  - Completed ground preparation and staged connex boxes north of MO-409 for use in storage, mask station, and industrial health and radcon count stations.
  - Completed beryllium facility assessments and released connex boxes located in REDOX yard for use.
  - Retrieved power panel board from Plutonium Finishing Plant (PFP) and staged at REDOX for electrical installations related to climate controlled connex boxes.
- **REDOX Proper Progress**
  - Received new eyewash stations for mitigation of chemical contamination risks and provided to pipe fitters for field preparation.
  - Retrieved and staged generator to support temporary power installations at REDOX.
  - Approved Blower Room 3 Roof Reinforcement work package.
  - Obtained commitment from 222-S Engineering to verify communication line termination at 222-S. It is currently assumed the communication line interferes with placement of Blower Room 3 roof reinforcement.
  - Approved accountability board and accountability badge designs for sign shop production.
  - Identified isotopic surveys/smears needed to finalize REDOX Radiological Technical Evaluation.
  - Received electrical equipment necessary for temporary power and lighting installation.
  - Reviewed future ventilation and waste egress conceptual drawings with mechanical engineers.
  - Completed final physical sampling of liquids and powders discovered in the REDOX Silo to date.
  - Completed examination of 11 additional tanks in the REDOX Silo. This includes radiological smears at entry point, industrial hygiene monitoring at entry point, and visual inspection. NOTE: This was also the first time use of the long-reach camera purchased to mitigate need for building scaffolding and moving ladders.
  - Prepped and shipped Environmental Restoration Disposal Facility (ERDF) waste containers.

MAJOR ISSUES

Issue
Over the past 12 months, the rate of radiological and foreign material buildup on both pre- and primary filter media at B Plant has exceeded historical trends. In the last year, the ventilation pre-filters have been replaced three times, as opposed to previous years with replacements only every 18 to 24 months. Additionally, debris collected on filter media indicate corrosion upstream of the filters.

Corrective Action
Perform B Plant Canyon entry to investigate elevated radiological dose rates. This will be the first entry into B Plant Canyon since 1998.

Status
Entry is planned for July.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

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

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

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

Increased Confidence
No Change
Decreased Confidence

Risk Title	Unmitigated Risk Impacts	Assessment		Comments
		Month	Trend	
RL-0040/WBS-040				
Explanation of major changes to the project monthly stoplight chart: No major changes to the stoplight chart in June.				
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 recovery actions, causing unplanned, in-scope work, and schedule delays to the project. **Risk Handling Strategy:** Control **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. After initial filter change out was completed in October 2017, dose rates on the pre-filters quickly became elevated and were replaced in December 2017.

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.	August 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%
Perform dose rate monitoring of pre-filters in ACT-001 and ACT-002 filter banks.	January 2018 – Current	Ongoing	N/A

Risk Title	Unmitigated Risk Impacts	Assessment		Comments
		Month	Trend	
RL-0040/WBS-040				
				Order and receive additional materials (e.g., tents, bags) to support additional pre-filter replacement. — February 2018 — Complete — 100% Develop revision to pre-filter change out work package to improve ALARA and general efficiency. — February 2018 — Complete — 100% Complete site setup and replace pre-filters. — May 2018 — Complete — 100% **Recovery Action Assessment:** The replacement of the pre-filters were completed in June. Daily (M-Th) dose rate surveys are being performed on the pre-filter banks to track the increasing dose rates. Planning has commenced to perform an entry into B Plant to investigate the anomaly. Threshold limits and the new pre-filter removal work package has been approved. Site setup, including containment tent construction, for the current pre-filter change was started on May 23, 2018. Site cleanup and waste disposition are scheduled to be completed in August 2018.
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)				
No critical risks identified in June.				
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)				
No high risk threat value risks in June.				
Unassigned Risks (Pending ownership of identified risks/opportunities)				
No unassigned risks identified in June.				

PROJECT BASELINE PERFORMANCE
Current Month
($M)

WBS 040/ RL-0040 Nuclear Facility D&D	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance ($)	Schedule Variance (%)	Cost Variance ($)	Cost Variance (%)
Total	2.4	3.1	3.5	0.7	29.1%	(0.4)	-11.6%

Numbers are rounded to the nearest $0.1 million

CM Schedule Performance: (+$0.7M/+29.1%)
The current month (CM) schedule variance is primarily due to completing the mobilization of the PUREX Tunnel 2 grout conveyance system earlier than originally planned. In order to meet the mockup deadline, the contractor is in the process of fabricating a single conveyance set to use during the mockup. If the mockup proves to be successful, the contractor will fabricate the remaining five sets. In addition, the performance of behind schedule work scope associated with the demolition of the 222-B facility is contributing to the positive schedule performance.

CM Cost Performance: (-$0.4M/-11.6%)
The CM cost variance is within threshold.

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	482.0	479.3	454.8	(2.7)	-0.6%	24.5	5.1%	510.7	487.4	32.7	23.3

Numbers are rounded to the nearest $0.1 million

Cost to date (CTD) Schedule Performance: (-$2.7M/-0.6%)
The CTD schedule variance is within reporting thresholds.

CTD Cost Performance: (+$24.5M/+5.1%)
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, maintenance, and D4 activities as a result of using existing site equipment and fewer resources, and program management using fewer resources.

Variance at Completion (+$23.3M/+4.6%)
The variance at completion (VAC) 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	69.0	40.4	28.5
Incremental Scope Pending Change Management	0.0	9.8	(9.8)
RL-0040 – Total	69.0	50.2	18.7

Numbers are rounded to the nearest $0.1 million.

Funds/Variance Analysis
Fiscal year (FY) 2018 projected funding for project breakdown structure (PBS) RL-0040 is $69.0 million. It is anticipated that the majority of the variance will be applied to the PUREX Tunnel 2 scope.

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

MILESTONE STATUS

Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) milestones represent significant events in project execution. RL Enforceable Agreement (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 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	3/28/2018 (A)		Completed
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	In negotiation with RL to adjust schedule to FY2020

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.

DOE ACTIONS / DECISIONS

Description	CHPRC Delivery Date	Expected RL Due Date
224B (B Plant) Removal Action Work Plan (RAWP) (2017-34)	8/16/17 (A)	9/30/18
202A (PUREX) Draft B EE/CA to Ecology for review	12/11/17 (A)	8/31/18
221B (B Plant) EE/CA to Ecology for Review	1/11/18 (A)	8/31/18
REDOX RAWP (2017-06) to RL for Review	3/15/18 (A)	7/18/18
Tier 2 Misc. (B Plant) SAP (2017-47) to RL for Review	4/17/18 (A)	8/28/18
Tier 2 Misc. Fac. (B Plant) RAWP (2016-50) to RL for Review	5/2/18 (A)	8/27/18

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

CH2MHILL
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M. A. Wright
Vice President for
Project Technical
Services

June 2018
CHPRC-2018-06, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

The 100K Closure Project continued remediation of Waste Site 116-KE-2 and made preparations to excavate Waste Site 100-K-47:1; completed final preparations for garnet filter media removal system (GFMR) integrated testing; and finalized the new strategy for K West Basin deactivation and demolition (D&D). The 324 Building Disposition Project continued to make progress with equipment procurements, testing, and fabrication, equipment installation at the mockup, and interference removal activities within the 324 Building. Workers at the 618-10 Burial Ground completed infrastructure demobilization activities.

EMS Objectives and Target Status (Draft)

Objective #	Objective	Target	Due Date	Status
18-EMS-KBOPR-OB1-T1	Improve compliance/ pollution and spill prevention	Monitor and evaluate universal waste (UW) and recycling accumulation areas for compliance with CHPRC procedures. Survey spill prevention measures.	9/30/18	72%
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	60%
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	4	27	6/12/18 – Employee injured both legs while loading a drum onto a pickup truck. The employee was taken to HPMC and released to work without restrictions. (24568) 6/20/18 – Three employees were working the dump ramp when the wind blew dust into their faces. All employees reported metallic tastes in their mouths. The employees were taken to HPMC for evaluation and released to work without restrictions. (24878, 24879, 24883)
Near Misses	0	0	N/A

KEY ACCOMPLISHMENTS

K Basin Operations

- 100K Closure Project:
  - 100K Soil Remediation:
    - Continued excavation of radioactive waste crib Waste Site 116-KE-2 (approximately 66 percent complete).
      - Continued RadCon work planning for the deep excavation currently planned to commence in mid-August.
    - Verification Sampling Instruction sent to DOE, signed and approved for Waste Site 100-K-99, and is currently with the U.S. Environmental Protection Agency (EPA) for review.
    - Verification Sampling Instruction completed; beginning Sample Collection and Analysis of Waste Site 100-K-50:2.
    - Verification Sampling Instruction sent to DOE, signed and approved for Waste Site 100-K-13, and is currently with EPA for review and approval.
  - K West Basin Deactivation:
    - Garnet Filter Media Removal (GFMRS):
      - Testing personnel at Maintenance and Storage Facility (MASF) completed the GFMRS integrated test set up. The GFMRS test procedure is complete and out for review.
      - HiLine Engineering successfully completed hydrostatic testing of the Overfill Recovery Tool mobilization water piping on June 19, 2018. HiLine started instrumentation installation on Sludge Transport & Storage Container (STSC) Units 425 and 426. Energy Northwest completed calibration of STSC radar level instrumentation and continued calibration of STSC leak detectors.
      - Garnet Filter Number 3 Sluice Outlet Valve V-305 Risk Mitigation:
        - Temporarily on hold. The project is working to restart and complete the work in FY2018.
    - Sand Filter Media Removal System (SFMRS):
      - All testing is complete.
      - The draft SFMRS design requirements document is complete, and engineers started preparing the system description document.
    - K West Basin Below-water Debris Characterization:
      - Conducted the first Attila 3-D modeling software training session in which a 3-D model of the K West basin was developed. In a future session, the training exercise will be to develop basin debris field models.
      - Settled solids Data Quality Objective/Sampling Analysis Plan is in the final review and approval stage.
      - Two Viking type A packages were acquired from sample services for use in shipping settled solids samples to the 222S laboratory. Two sample cells were provided to 222S laboratory analysts to act as a mockup to determine how the solids samples will be retrieved and analyzed.
      - Conducted checkout of the data and signal continuity of the gamma camera at Building 142-K.
  - K East Reactor Interim Safe Storage (ISS):
    - Conducted a walk down of the 105KE Reactor Building with RL and EPA to discuss asbestos insulation and transite panels to remain in place during the ISS period.
    - Updated the 105KE ISS asbestos whitepaper to address EPA comments.
    - Discussed CHPRC reviewer comments with the geotechnical contractor on the draft revision to the 2012 geotechnical engineering study report for the soils that will surround the K East Reactor during Safe Storage Enclosure (SSE) construction.

  - Finished Incorporating 100K Engineering Manager comments into DD-49286, 105KE ISS Project Functional Design Criteria, Revision 7.
  - Expanded the list of reviewers and continued internal review of the draft revision to DD-53559, 105KE ISS Project Execution Plan.
  - Started development of the draft statement of work (SOW) for the SSE construction contract, including earthwork and SSE fabrication and construction.
  - Held multiple discussions with Fire Protection Engineering/Fire Marshall's Office regarding initial RL determination that 105KE ISS would require fire suppression system based on DOE-STD-1066-2012 and DOE O 420.1C requirements. A determination was made by the Hanford Fire Marshall's office that an exemption can be prepared for both 105KE and 105KW due to the unique purpose, structure, and requirements of the SSE.
- Ancillary Facility Deactivation & Demolition (D&D):
  - Continued Thermal System Insulation abatement in 165K East Power Control Building (approximately 70 percent complete).
  - Progressing revision of DOE/RL-2005-26, *RAWP for 100K Reactor and Ancillary Facilities*.
  - Reviewed plans for Air Emission Calculations and development of the Air Monitoring Plan (AMP) with the CHPRC Air Emissions Subject Matter Expert.
  - Awaiting parts for a roof crawler to conduct load test of the 166KE Fuel Storage Bunker roof in support of 166-KE D&D and Waste Site 130-KE-2 remediation. Continued working on FY2019 demolition preparation and demolition schedule.
  - Continuing preparation of the 100D/H Remedial Action Report.
- Remaining Closure Operations:
  - Continued collecting shrub seeds from various locations around the Hanford Site to support FY2019 re-vegetation efforts (includes 618-10).
  - Finished installation of asphalt at the 300-5 Interim Stabilization Waste Site.
  - Waste Sites 331LSLT1 and 331LSLST2:
    - Began removing landscaping rock and top soil/grass in preparation for impermeable liner installation. Removed, chipped, and containerized a large tree in the Waste Site 331-LSLT2 work area.
    - Submitted work request to Mission Support Alliance, LLC to update the Cultural/ Ecological assessment to expand the Area of Potential Effect to include the drainage area East of the parking lot roadway and increase the SOW to include excavation across the roadway for Waste Site 331-LSLT2.
    - Met with Pacific Northwest National Laboratory and reviewed the prepared Industrial Hygiene Exposure Assessment, and obtained concurrence for the controls that will be applied during application of the poly-urea spray on the impermeable liner seams.

River Risk Management Project

- 618-10 Burial Ground:
  - Continued to work on environmental cleanup documentation and the River Corridor Contract critical decision (CD)-4 closeout and documentation.
  - Completed infrastructure demobilization activities.

- 324 Building Disposition Project
  - Completed a major upgrade to electronic Radiochemical Engineering Cell (REC) ventilation pressure transmitters and added a new recorder.
  - Successfully performed thirteen Preventative Maintenance (PM) packages. Highlighted in the PMs was the completion of annual calibrations for all ventilation controllers and transmitters.
  - Completed the factory acceptance testing (FAT) of the 324 Building cameras and lights at the fabricator's facility.
  - Two concrete dump tools were fabricated and delivered to the Mockup and 324 Building.

- Continued intrusive sampling of the REC pipe cubicles. This activity supports embedded pipe filling prior to core drilling the REC walls for REA through support installation. Grouted four of five embedded pipes in cubicles B-12 & B-14.
- Completed the grout study strength tests.
- Began fabrication of the modified airlock rail system.
- Installed temporary lights and cameras in 324 Building A-Cell.
- Began removal of chemical lines and interferences in the Sample Load-Out (SLO) Room.
- Moved 12 drums of waste generated from geotechnical testing to the Container Transfer Area.
- Conducted the micropile installation demonstration.
- Completed the transfer mechanism construction acceptance testing (CAT) at the Mockup.
- Performed pipe-cutting tool handling demonstration to provide design and operability feedback.
- Initiated training for prototypic installation of first 324 Building REA through support.
- Began micropile verification test installation at the 324 Building.
- Completed C-Cell Gallery Floor Tile Removal.
- The Water Delivery System was delivered to the Mockup.
- Awarded the subcontract for the 324 Filter Frames, Mounts and Tools.
- Completed fabrication of the 324 Rad Assay System; FAT is planned to take place next month.
- Continued fabrication for the 324 Collimated Detector System.
- Completed the Cameras & Lighting System CAT at the Mockup.
- PTS Support:
  - Training and Procedures
    - Completed Difficulty, Importance, and Frequency Analyses on Stationary Operating Engineer tasks at the 324 Facility.
  - Operations Program - ConOps/Work Control/Conduct of Work
    - Attended Micropile Demo to review hazardous energy controls for project.
  - Emergency Preparedness (EP)
    - Issued 324 Building Emergency Plan, Revision 3.

MAJOR ISSUES

Issue

In February 2018, a higher-than-expected ratio of alpha to beta/gamma contamination was detected in a localized area in the REC airlock after removing waste from C-Cell. Discovery of an elevated latent contamination level upon removal of the waste was unexpected and beyond the reasonable control of CHPRC. This condition is the realization of risk RCC-300-296-01, Latent Conditions Impact Facility Modification.

Corrective Action

Determine cause for high alpha reading and update appropriate procedures as necessary. Perform a follow-on review to identify previously unknown legacy activities conducted in the REC cells to determine contributing factors to elevated alpha levels.

Status

Timely Orders have been issued and a Notification of Differing Site Conditions Letter (CHPRC-1801178) was transmitted to RL in April. Workers at the 324 Building finalized high alpha contamination recovery, implemented corrective actions from RL, implemented additional controls, and resumed cell cleanout activities. The project has procured/obtained handheld instruments required for the additional controls and is in the process of procuring Alpha personal contamination monitors (PCM2s).

Issue

A shortage of radiation control technicians, radiation control engineers, radiation control work planners, and radiation control first line managers is hampering 100K Closure Project soil remediation and basin characterization work.

Corrective Action

The project continues to work with labor relations and central radiation protection management to fill needed positions.

Status

Ongoing.

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: Removed risk *RCC-300-296-13:300-296 Design Review issues arise for the structural modification to the 324 Building* from the Realized Risk section of this report, as it was determined that the risk was best suited to capture constructability issues during the installation of the structural modifications. A new risk, *RCC-300-296-30: 300-296 Design Changes Result in Increased Subcontractor Change Order(s) / Claims* was established to capture the current realized risk associated with development of the structural modification design. Risk *RCC-300-296-08: 300-296 Failure of a cell shield door* was moved from the Critical Risk section to the Realized Risk section.				
Realized Risks (Risks that are currently impacting project cost/schedule)				
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 Event:** During operation of cleanout activities on June 19, 2018, the A-Cell Crane door became restricted from closing, prohibiting airlock entry. **Recovery action(s)** / **FC Date** / **%** Airlock Entry Recovery from A-Cell Crane Door Malfunction / 7/16/2018 / 5 A-Cell Crane Door Malfunction Recovery / 7/31/2018 / 5 **Recovery Assessment:** A-Cell Crane door became restricted from closing, prohibiting airlock entry. No personnel were affected. The A-Cell crane door remains in the partially open position. Access into the airlock is restricted while recovery from the open crane door is being conducted. Recovery actions are being developed, as indicated with the mitigation actions listed to resume airlock entries.
RCC-300-296-01: Latent Conditions Impact Facility Modification	A higher-than-expected ratio of alpha to beta/gamma contamination was detected in a localized area in the REC airlock after removing waste from C-Cell. **Risk Handling Strategy:** Control **Probability:** Likely (75% to 90%) **Worst Case Impacts:** $294.5K, 72 days			**Risk Event:** A higher-than-expected ratio of alpha to beta/gamma contamination was detected in a localized area in the REC airlock after removing waste from C-Cell. Discovery of an elevated latent contamination level upon removal of the waste was unexpected and beyond the reasonable control of CHPRC. **Recovery action(s)** / **FC Date** / **%** Resume cell cleanout efforts following legacy contamination discovery. / 4/4/2018 / 100 **Recovery Assessment:** No major changes in June. Timely Orders have been issued and a Notification of Differing Site Conditions Letter (CHPRC-1801178) was transmitted to RL in early April. Workers at the 324 Building finalized high alpha contamination recovery, implemented corrective actions from RL, and resumed cell cleanout activities on April 4, 2018. However, the project will continue to monitor corresponding impacts and segregate costs as a result of this risk being realized. The Estimate to Complete (ETC) has been updated. The FY2019

				Annual Update is in development to capture known impacts. This risk will be evaluated as a Critical Risk in the upcoming period, pending any setbacks.
RCC-300-296-30: 300-296 Design Changes Result in Increased Subcontractor Change Order(s) / Claims	Structural modifications estimate is currently based upon the vendor's estimate as of the 30 percent design. The 60 percent design through initiation of 90 percent design and testing of the currently identified 324 Building structural modifications to support design are ongoing. Due to the uncertainty and evolution of developments, design changes may be required upon completion of all design phases. **Risk Handling Strategy:** Control **Probability:** Very Likely (>90%) **Worst Case Impacts:** $3,318K, 136 days			**Risk Event:** Upon review of the 30 percent design submittal, it was determined that 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) / 8/9/2018 / 95 Contractor Prepare and Submit Structure Modification Design –Final (VE2810A) / 11/29/2018 / Ongoing **Recovery Assessment:** To reduce the potential impacts associated with conflicting drawing information, applicable design efforts were updated to encompass further analysis of cell footings, load limitations, and field demonstrations to ensure safe and successful completion. Additional efforts through progress on the 30 percent to 60 percent design activities have been incorporated into the Field Execution Schedule (FES), along with the ETC, to reflect impacts of risk being realized.
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 Event:** During recent vendor tests and/or FAT, issues and conditions were identified with mockup equipment, resulting in additional redesign, materials, and/or fabrication efforts greater than planned. Remote equipment procurements that have resulted in cost and/or schedule impacts include the REA system components (through support and dummy post assemblies), and transfer mechanism (electrical components). **Recovery action(s)** / **FC Date** / **%** Perform Construction Acceptance Test (CAT) for Mockup Equipment Install - Cameras and Lighting; REA system with HPUs; Transfer Mechanism (VE0640) / 7/26/2018 / 66.7 **Recovery Assessment:** No major changes in June. Equipment procurements are continuously monitored and tracked to account for additional redesign efforts, materials, and fabrication efforts resulting in cost and/or schedule impacts. This risk has the potential to be realized during the execution of the CAT. Impacts have been incorporated into the project schedule, 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			**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. **Mitigation action(s)** / **FC Date** / **%** 324 Min. Safe Spare Parts and Routine Preventive Maintenances (PMs) (R03095) / 9/30/2018 / 73.2 **Mitigation Assessment:** No major changes in June. Ventilation PM is being routinely performed. Spare fan parts are available for minor failures if occurrence is realized.
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:** Control **Probability:** Likely (75% to 90%) **Worst Case Impacts:** $832.7K, 144 days			**Risk Trigger Metric:** REC crane failure occurs during operations. **Mitigation action(s)** / **FC Date** / **%** Order and Procure Spare Parts – REC Cranes / 10/9/2018 / Ongoing **Mitigation Assessment:** No major changes in June. 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 in January 2018. The project is in the process of acquiring evaluations and recommendations with manufacturers to assist with determining preventive maintenance, spare part requirements, and corrective maintenance in the event of necessary repairs. These efforts are expected to reduce the potential for impacts.
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)				
No high risks identified in June.				

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 the RL contracting officer, it will be removed from the stoplight chart.
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 the 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 the 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	15.2	11.9	8.8	(3.2)	-21.3%	3.2	26.6%

Numbers are rounded to the nearest $0.1 million

CM Schedule Performance (-$3.2M/-21.3%)

The current month unfavorable schedule variance is primarily caused by the 324 Building Disposition Project, which experienced delays with 324 Building structural modifications due to subcontractor delays in completing the structural modifications design. Additionally, the project experienced delays in performing cell sealing and core drilling, as well as REC cleanout activities due to the A-Cell crane door malfunctioning and delays in mobilizing debris and grout removal crews.

CM Cost Performance (+$3.2M/+26.6%)

The current month favorable cost variance is partially due to the collection of the majority of the Environmental Restoration Disposal Facility (ERDF) actual costs in Project Breakdown Structure (PBS) RL-0013. 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 FY2018 appropriations have been finalized, ERDF is now costed under PBS RL-0013. A baseline change request (BCR) to transfer budget from PBS RL-0041 to PBS RL-0013 will be processed later in FY2018. Additionally, the 618-10 Burial Ground experienced efficiencies due to the re-sequencing of infrastructure demobilization activities that allowed the optimization of resources, resulting in significant progress with no additional costs. The current month cost variance is partially offset due to increased costs at the 324 Building Disposition Project for the installation of a conference room trailer, as well as increased staffing levels to support ongoing work. The project also experienced additional costs for the subcontractor that is developing the 60 percent design for structural modifications at the 324 Building due to additional design requirements including more extensive building modeling, soil stabilization and building verifications and demonstrations.

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	604.9	582.9	515.2	(21.9)	-3.6%	67.7	11.6%	678.6	601.8	86.6	76.7

Numbers are rounded to the nearest $0.1 million

CTD Schedule Performance (-$21.9M/-3.6%)
The schedule variance is within reporting thresholds.

CTD Cost Performance (+$67.7M/+11.6%)
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. As discussed in the current month cost variance, a majority of the ERDF costs were collected in RL-0013, contributing to the contract to date cost variance. These favorable variances are slightly offset by a negative CTD variance in the 324 Building Disposition 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 (+$76.7M/+11.3%)
The 100K Closure positive variance at completion (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 VAC is also due to the ERDF operations forecast transferring to RL-0013 with the budget remaining in PBS RL-0041 until a BCR can be processed later in in FY2018. The remaining VAC is primarily due to the implementation of efficiencies and staffing ramp downs at the 618-10 Burial Ground. Offsetting the positive variance, the 324 Building Disposition Project experienced increased costs associated with airlock cleanout, engineering and design activities, continued staff ramp up, and equipment procurement activities.

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	137.2	6.4
Incremental Scope Pending Change Management	0.0	0.2	(0.2)
RL-0041 - Total	143.6	137.4	6.2

Numbers are rounded to the nearest $0.1 million.

Funds/Variance Analysis:
FY2018 projected funding for PBS RL-0041 is $143.6 million. The delta between the spending forecast and projected funding levels for FY2018 is partially due to attrition and staffing ramp-downs at the 618-10 Burial Ground project. Additionally, the delta between the spend forecast and projected funding levels for the 324 Building Disposition Project is primarily due to scope deferral related to structural modifications, core drilling, and cell sealing. The delta is unfavorably offset due to the FY2018 annual PMB update direction 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 FY2018 appropriations have been finalized, ERDF is now forecasted, costed, and funded under PBS RL-0013. However, ERDF actuals for the first half of FY2018 remain in RL-0041 until a cost transfer can be processed.

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 (EA) 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 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 Record of Decision (ROD) requirements.	9/30/2018		7/3/2018	Clarification regarding completion of the milestone resulted in adjusting the forecast completion date to line up with completion of the closeout verification package (CVP) instead of the infrastructure demobilization activities.
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 Prepare, Review, Approve & Issue DSA/TSR SER Revision	4/2/18 (A)	6/28/18
RL Approval of SNR	7/31/18	8/27/18
RL Certify Information – RL Manager Letter to Ecology (1301 ,1325)	8/28/18	9/8/18
Ecology receive the certified CHPRC and RL Information (1301, 1325)	9/9/18	9/9/18
Class 1 Prime modification RL Certification send Class 1 Prime to Ecology for Action to close 1301-N and 1325-N	9/22/18	10/5/18
Deliver attachment(s) and certification(s) to RL (1301, 1325)	10/9/18	10/9/18

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

CH2MHILL
Plateau Remediation Company

T. E. Bratvold
Vice President for
Central Plateau Risk
Management

June 2018
CHPRC-2018-06, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

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

EMS OBJECTIVES AND TARGET STATUS

None currently identified.

TARGET ZERO PERFORMANCE

(Reported on a calendar month basis.)

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

KEY ACCOMPLISHMENTS

RL-0042 Accomplishments

- Performed the visual circuit verifications for 400 Area electrical system. This is a predecessor activity to completing the lockout/tagout (LO/TO) documentation for the intrusive circuit verification work package (WP) and completing the P-16 pump installation.
- Received RL Labor Review Board's determination that Plant Forces will complete the installation of the C-670 electrical fire pump control panel.
- Received all remaining parts and wiring necessary to complete the replacement of the C-670 electrical fire pump control panel.
- Work Change Notice (WCN) drafted to add Motor Control Centers (MCC) 130 and 131 to the 400 Area Electrical Circuit Verifications work package and routed for engineering review.

MAJOR ISSUES

Issue:
Identified and investigated a LO/TO incident associated with previous electrical work (2017) on the P-16 pump motor starter.

Corrective Action: A new Work Package (WP) to physically verify 400 Area electrical circuits for water utility equipment will be developed. This verification must be completed before further work is performed on the 400 Area water utility equipment. This also affects the completion of a number of WPs that are currently in development/review.

Status: WP continues to be developed to physically verify 400 Area electrical circuits due to inaccuracies discovered in the electrical drawings for the water utilities equipment. The 400 Area drawing for the 400 Area electrical circuit verification WP has been completed and the Tagout Authorization Form (TAF) continues to be prepared. A Hazard Review Board (HRB) was held for the non-LO/TO portion of the 400 Area electrical circuit verifications WP. A partial release will allow visual inspections to be performed in advance of work that will be performed under the TAF. A resource request was submitted to start the visual verification work.

RISK MANAGEMENT STATUS

No key risks currently identified.

PROJECT BASELINE PERFORMANCE
Current Month
($M)

RL-0042 FFTF Closure	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance ($)	Schedule Variance (%)	Cost Variance ($)	Cost Variance (%)
Total	0.2	0.2	0.1	(0.0)	9.9%	0.1	34.0%

Numbers are rounded to the nearest $0.1M

CM Schedule Performance: (+$0.0M/+9.9%)
The schedule variance is within reporting thresholds.

CM Cost Performance: (+$0.1M/+34.0%)
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	25.9	25.9	21.4	0.0	0.0%	4.5	17.3%	26.5	22.0	0.6	4.5

Numbers are rounded to the nearest $0.1 million

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

CTD Cost Performance (+$4.5M/17.3%)
The cost variance reflects efficient use of resources to support deactivation activities.

Variance at Completion (+$4.5M/+16.8%)
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	2.0	2.0
Incremental Scope Pending Change Management	0.0	0.0	0.0
RL-0042 – Total	4.0	2.0	2.0

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 $2.0 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

CH2MHILL
Plateau Remediation Company

June 2018
CHPRC-2018-06, 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)* 2018 / 05 / 28
b. LOCATION (Address and ZIP Code) Richland, WA	b. NUMBER RL14788		b. PHASE	b. TO *(YYYYMMDD)* 2018 / 06 / 24
	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	398,621	241,605	5,830,563	6,188,368	5,830,563	6,188,368	

6. ESTIMATED COST AT COMPLETION

	MANAGEMENT ESTIMATE AT COMPLETION (1)	CONTRACT BUDGET BASE (2)	VARIANCE (3)
a. BEST CASE	5,879,928		
b. WORST CASE	6,033,160		
c. MOST LIKELY	5,946,763	5,987,578	40,815

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 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	0	512	5,619	512	-5,108	988,662	973,496	1,120,444	-15,166	-146,948	0	0	0	988,662	1,198,898	-210,236
RL-0012 SNF Stabilization & Disp	3,777	4,018	3,302	241	716	732,565	732,438	702,982	-127	29,456	0	0	0	745,246	717,065	28,181
RL-0013 Solid Waste Stab & Disp	9,010	11,248	12,694	2,238	-1,445	1,285,832	1,282,496	1,201,558	-3,337	80,938	0	0	0	1,362,465	1,287,410	75,055
RL-0030 Soil &Water Rem-Grndwtr/Vadose	9,457	8,671	8,147	-786	523	1,500,727	1,493,819	1,445,123	-6,909	48,696	0	0	0	1,532,754	1,482,362	50,392
RL-0040 Nuc Fac D&D - Remainder Hanfrd	2,396	3,093	3,450	696	-357	481,988	479,252	454,777	-2,736	24,475	0	0	0	489,666	466,392	23,275
RL-0041 Nuc Fac D&D - RC Closure Proj	15,167	11,931	8,759	-3,236	3,172	604,869	582,944	515,219	-21,925	67,725	0	0	0	651,055	574,327	76,728
RL-0042 Nuc Fac D&D - FFTF Proj	171	188	124	17	64	25,885	25,887	21,411	2	4,476	0	0	0	26,487	22,024	4,463
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														131,450	131,450	0
e. SUBTOTAL	39,979	39,660	42,095	-319	-2,435	5,620,528	5,570,330	5,461,513	-50,198	108,817	0	0	0	5,927,786	5,879,928	47,858
f. MANAGEMENT RESERVE														66,835		
g. TOTAL	39,979	39,660	42,095	-319	-2,435	5,620,528	5,570,330	5,461,513	-50,198	108,817	0	0	0	5,994,621		
9. RECONCILIATION TO CONTRACT BUDGET BASELINE																
a. VARIANCE ADJUSTMENT																
b. TOTAL CONTRACT VARIANCE									-50,198	108,817				5,994,621	5,879,928	114,693

** 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)* 2018 / 05 / 28
b. LOCATION (Address and ZIP Code) Richland, WA	b. NUMBER RL14788		b. PHASE	b. TO *(YYYYMMDD)* 2018 / 06 / 24
	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							
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)
34 - Env Program & Strategic Plng	800	770	704	-31	66	82,875	82,249	75,337	-626	6,912	0	0	0	85,652	78,846	6,807
35 - Business Services	0	0	0	0	0	477,296	477,296	453,565	0	23,731	0	0	0	477,296	453,565	23,731
36 - Prime Contract & Proj Integr	147	147	103	0	45	8,288	8,288	4,946	0	3,342	0	0	0	8,807	5,347	3,460
3B - PFP Closure Project	0	512	5,619	512	-5,108	899,880	884,714	1,039,387	-15,166	-154,673	0	0	0	899,880	1,117,841	-217,961
3C - Waste & Fuels Management Project	8,814	11,030	9,500	2,216	1,530	1,170,456	1,167,147	1,082,024	-3,309	85,123	0	0	0	1,246,285	1,159,766	86,519
3D - Soil & Groundwater Remediation	8,612	7,857	7,411	-756	446	1,316,424	1,310,141	1,262,353	-6,283	47,788	0	0	0	1,345,518	1,295,982	49,535
3G - K Basin Oper & Plateau Remediation Project	7,034	6,729	5,699	-306	1,030	1,019,612	1,017,924	960,566	-1,688	57,358	0	0	0	1,045,365	984,972	60,394
3H - River Risk Management Project	12,020	9,353	9,512	-2,667	-158	226,191	205,799	186,458	-20,392	19,341	0	0	0	259,807	243,147	16,660
3K - Central Plateau Risk Reduction	2,550	3,264	3,549	713	-285	419,507	416,772	396,877	-2,734	19,895	0	0	0	427,726	409,012	18,714
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														131,450	131,450	0
e. SUBTOTAL *(Performance Measurement Baseline)*	39,979	39,660	42,095	-319	-2,435	5,620,528	5,570,330	5,461,513	-50,198	108,817	0	0	0	5,927,786	5,879,928	47,858
f. MANAGEMENT RESERVE														66,835		
g. TOTAL	39,979	39,660	42,095	-319	-2,435	5,620,528	5,570,330	5,461,513	-50,198	108,817	0	0	0	5,994,621		

** 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.*

June 2018

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: 2018/05/28 b. TO: 2018/06/24

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	$398,621	$5,987,578	$5,994,621	($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

ITEM	BCWS CUM TO DATE	BCWS FOR REPORT PERIOD	BUDGETED COST FOR WORK SCHEDULED (NON - CUMULATIVE) SIX MONTH FORECAST +1 Jul-18	+2 Aug-18	+3 Sep-18	+4 Oct-18	+5 Nov-18	+6 Dec-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)	**5,580,549**	**40,318**	**40,564**	**46,719**	**218,041**	**0**	**0**	**0**	**3,391,477**	**391,653**	**471,323**	**504,826**	**485,027**	**550,434**	**131,450**	**5,926,190**
b. BASELINE CHANGES AUTH DURING REPORT PERIOD																
BCR-012-18-008R0 - Change EV Method from Percent Complete to LOE														**0**		**0**
BCR-013C-18-020R0 - W-135 Project WBS Re-alignment														**(0)**		**(0)**
BCR-041-18-018R0 - Incorporate CO 330 Re-Plan 116-KE-2 Waste Site Remediation														**1,272**		**1,272**
BCR-PRC-18-026R0 - Incorporate CO 326 Re-Plan 105KW Basin Characterization														**323**		**323**
BCRA-PRC-18-025R0, HPIC Updates June 2018														**0**		**0**
c. PM BASELINE (END OF PERIOD)	**5,620,528**	**39,979**	**41,201**	**47,521**	**218,535**	**0**	**0**	**0**	**3,391,477**	**391,653**	**471,323**	**504,826**	**485,027**	**552,030**	**131,450**	**5,927,786**
7. MANAGEMENT RESERVE																**66,835**
8. TOTAL																**5,994,621**

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)* 2018 / 05 / 28
b. LOCATION (Address and ZIP Code) Richland, WA	b. NUMBER RL14788		b. PHASE	b. TO *(YYYYMMDD)* 2018 / 06 / 24
	c. TYPE CPAF	d. SHARE RATIO	c. EVMS ACCEPTANCE NO: ; X YES *(YYYYMMDD)* 2009 / 09 / 18	

5. PERFORMANCE DATA

WBS.Resp Org Group ORGANIZATIONAL CATEGORY (1)	ACTUAL CURRENT PERIOD (2)	ACTUAL END OF CURRENT PERIOD *(Cumulative)* (3)	FORECAST *(Non-Cumulative)* SIX MONTH FORECAST BY MONTH *(Enter names of months)* +1 JUL 2018 (4)	+2 AUG 2018 (5)	+3 SEP 2018 (6)	+4 OCT 2018 (7)	+5 NOV 2018 (8)	+6 DEC 2018 (9)	ENTER SPECIFIED PERIODS 2nd QTR FY19 (10)	3rd QTR FY19 (11)	FY19 END (12)	FY19-LC (13)	ATCOMPLETE (14)	AT COMPLETION (15)
300 - Office of the President	6	787	6	6	6	0	0	0	0	0	0	0	0	805
303 - Internal Audit	4	515	5	6	6	0	0	0	0	0	0	0	0	531
304 - General Counsel	5	482	5	5	5	0	0	0	0	0	0	0	0	497
31 - Communications	8	1094	8	8	8	0	0	0	0	0	0	0	0	1117
32 - Safety Health Security & Quality	56	7611	57	58	58	0	0	0	0	0	0	0	0	7784
34 - Env Program & Strategic Plng	39	5162	43	43	43	0	0	0	0	1	0	1	0	5293
35 - Business Services	65	8238	67	67	67	0	0	0	0	0	0	0	0	8439
36 - Prime Contract & Proj Integr	61	5602	63	63	63	0	0	0	0	0	0	0	0	5791
38 - Project Technical Services	38	5877	40	40	40	0	0	0	0	0	0	0	0	5998
3B - PFP Closure Project	185	50781	199	197	202	204	204	204	599	537	61	0	0	53189
3C - Waste & Fuels Management Project	359	52765	360	346	337	16	11	8	19	23	3	0	0	53890
3D - Soil & Groundwater Remediation	283	38747	285	286	280	10	10	9	25	12	11	14	0	39689
3G - K Basin Oper & Plateau Remediation Project	227	33493	228	245	231	11	8	6	5	0	0	0	0	34228
3H - River Risk Management Project	222	5583	235	230	226	14	11	6	12	8	3	3	0	6330
3K - Central Plateau Risk Reduction	143	17078	150	124	122	15	26	15	23	1	0	0	0	17555
g. TOTAL DIRECT	1700	233816	1751	1723	1693	269	270	247	684	584	78	19	0	241134

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)** 2018/05/28
b. LOCATION (Address and ZIP Code) Richland, WA 99354	**b. NUMBER** DE-AC06-08RL14788		**b. PHASE** Base	**b. TO (YYYY/MM/DD)** 2018/06/24
	c. TYPE CPAF	**d. SHARE RATIO**	**c. EVMS ACCEPTANCE** 2009/09/18 NO YES X	

	BCWS	BCWP	ACWP	SV in $	SV in %	CV in $	CV %	SPI	CPI
Current:	39,979	39,660	42,095	(319)	-0.8%	(2,435)	-6.1%	0.99	0.94
Cumulative:	5,620,528	5,570,330	5,461,513	(50,198)	-0.9%	108,817	2.0%	0.99	1.02
	BAC	**EAC**	**VAC in $**	**VAC in %**	**TCPI**				
At Complete:	5,927,786	5,879,928	47,858	0.8%	0.85				

Explanation of Variance/Description of Problem:

Current Period Schedule Variance: The current month (CM) schedule variance within reporting thresholds.

Current Period Cost Variance: The CM negative cost variance is primarily due to project breakdown structure (PBS) RL-0011 PFP demolition resumption actions and implementation of the new demolition requirements associated with the December 2017 contamination events. This includes fixative applications, performance of radiological surveys, and stabilization activities to support resumption of PFP demolition. This also includes additional material and equipment purchases to support the revised demolition approach. As resumption corrective actions (RCA) are performed, costs for labor, subcontracts, and material purchases add to the current month variance. Assignment of Jacobs Engineering corporate resources and reassignment of CHPRC personnel to support the RCA and programmatic assessments have also contributed to the variance. In addition, the resulting delay in demolition activities from the contamination event are causing an extension of unplanned project management, min-safe, and support resources.

Also contributing to the negative cost variance is PBS RL-0041 increased costs at the 324 Building Disposition Project for the installation of a conference room trailer, as well as unplanned increased staffing levels to support ongoing work. The project also experienced additional costs for the subcontractor that is developing the 60 percent design for structural modifications at the 324 Building due to additional design requirements including more extensive building modeling, soil stabilization and building verifications and demonstrations. PBS RL-0013 and RL-0041's negative cost variances are offset by budget residing in RL-0041 for ERDF scope, which is being collected in RL-0013. A Baseline Change Request will be processed in the next month to align ERDF to RL-0013.

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

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 $47.9 million, with $66.8 million of management reserve (MR), for a total positive variance of $114.7 million. For June, the project was 0.8 percent behind schedule and 6.1 percent over planned cost. Contract to date (CTD), the project was 0.9 percent behind schedule and 2.0 percent under planned cost.

The difference between the Contract Budget Base and the Total Allocated Budget increased by $2.07M based on authorized, unpriced work that has not yet been added to the performance measurement baseline.

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

BCR-041-18-018R0, Incorporate CO 330 Re-Plan 116-KE-2 Waste Site Remediation

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

BCR-PRC-18-026R0, Incorporate CO #326 Re-Plan 105KW Basin Characterization

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 + $47.86 million, +0.8% and is within reporting thresholds.

Format 1 and 3 Contract Data:

Contract Price Adjustments

CPs - In Process		
	Total Authorized Unpriced Work	$398,621
Approved Adjustments to Contract Price (not reflected in B.4-1 Table)		
	Total Negotiated Cost Changes	-
	Grand Total Adjustments	$398,621

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

Undistributed Budget Activity

BCR Number	Title	PBS	Fiscal Year	UB
N/A	N/A	N/A	2018	N/A

Overall, there was no change to the Undistributed Budget during June.

Management Reserve Activity

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

Overall, there was no change in MR in June.

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 June.

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	07/19/2018		

** 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)

CH2MHILL
Plateau Remediation Company

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
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S. E. Johnson
Director of
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K. K. Dickerson
Vice President for
Prime Contract and
Project Integration

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

June 2018
CHPRC-2018-06, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROGRAM SUMMARY

Project Services and Support functional activities continue to provide support and technical services to all CHPRC projects, as well as central management of cross-cutting services. This section is reported on a quarterly basis.

EMS Objectives and Target Status (Draft)

Objective #	Objective	Target	Due Date	Status
18-EMS-ADMIN-OB1-T1	Reduce energy intensity.	Increase facility occupancy rates to greater than 83 percent by compressing occupancy and vacating underutilized facilities. Occupancy compression to be maintained through disposition of buildings or square footage reduction.	9/30/18	60%
18-EMS-PTS-OB1-T1	Spill prevention/waste minimization/pollution prevention.	Monitor and evaluate spill prevention program and existing techniques to reduce and/or eliminate spills to the environment by surveillances and on-going training. Also survey universal waste and recycling areas.	9/30/18	68%
18-EMS-PTS-OB2-T1	Monthly chemical management inspection.	Ensure chemical products are accurately tracked, maintained, and excessed/disposed. Perform quarterly assessment on chemical inventory locations.	9/30/18	76%

TARGET ZERO PERFORMANCE

	Current Quarter	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	0	N/A
Total Recordable Injuries	0	0	N/A
First Aid Cases	2	7	6/20/18 – Employee was bitten by a spider/bug. Went to HPMC and was given a tetanus shot and over the counter anti-itch cream. (24872) 6/20/18 – Employee stood up from chair and felt pop in left hip. Went to HPMC and was released without restrictions. (24871)
Near-Misses	0	0	N/A

KEY ACCOMPLISHMENTS

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

- There were two injuries reported during this quarter in the functional groups.
  - Occupational Safety and Industrial Hygiene (OS&IH) accomplishments:
    - Initiated “No Excuses” Driving Safety Campaign.
    - Supported the 2018 Safety Connect held at the TRAC Center.
    - Functional Employee Zero Accident Council finalized their 2018 Safety Improvement Plan.
    - Functional Employee Zero Accident Council initiated a Parking Lot Safety Campaign.
    - Supported development and review of project safety communications pertaining to safety footwear and respiratory protection.
    - Performed annual assessment of the newly published 2018 American Conference of Governmental Industrial Hygienist Threshold Limit Values.
    - Assisted Radiological Control Organization with RCT injury review and ergonomic evaluations.
    - Completed quarterly assessment of the Computerized Accident and Injury Reporting System data quality input and reporting timeframes.
    - Participated in the Integrated Safety Management System Corrective Action Working Group.
    - Convened the Industrial Hygiene Technical Forum, discussing professional development, exposure assessment, measurement methodology, process integration, and program assessment.
    - Updated PRC-MP-SH-40452, CH2M HILL Plateau Remediation Company Voluntary Protection Program Plan.
    - Revised PRC-PRO-SH-40516, Chemical Management Program.
    - Published revision to PRC-PRO-SH-17916, Industrial Hygiene Exposure Assessments.
    - Presented Workers’ Compensation Process presentation to multiple projects.
    - Initiated and completed procedural revision of PRC-PRO-SH-40463, Ergonomics.
    - Implemented new procedure, PRC-PRO-SH-54243, Industrial Hygiene Sample Management.
    - Completed Apparent Cause Evaluation Report for Repetitive Use Work Packages are not Meeting Hazard Analysis Standards (CR-2018-0536).

- Completed assessment on Hazard Communication Training pertaining to Globally Harmonized Systems (GHS), SHS&Q-2018-WSA-21071.
- Completed CHPRC Vehicle Safety Program Assessment, SHS&Q-2018-WSA-19326.
- Completed Independent Assessment on the CHPRC Respiratory Protection Program, SHS&Q-2018-IA-19389.
- Completed CHPRC Bloodborne Pathogen Control Plan Assessment, SHS&Q-2018-WSA-19324.
- Completed Safety Management Program Assessment on Subcontractor Hazardous Waste Operations and Emergency Response Training, SHS&Q-2018-WSA-19390.
- Transmitted to RL the Quarterly Report of Highly Radioactive Beryllium Samples Processed Second Quarter CY 2018, CHPRC-1603202 R8.

o Radiological Control accomplishments:

- Initiated 10 CFR 835 assessment to address elements not addressed in the Jacob's Engineering Corporate review.
- Supported revision of the Administrative Interface Agreement Between Washington River Protection Solutions and CH2M HILL Plateau Remediation Company Operations Interface for Activities within or adjacent to Nuclear Facilities.
- Supported Plutonium Finishing Plant (PFP) review of Continuous Air Monitoring Data Logging.
- Provided input to RL regarding the health of the CHPRC Radiological Protection Program.
- Supported DOE Headquarters assessment of RL radiological oversight.
- Supported PFP recovery activities.
- Radiological Oversight and Assistance Committee conducted monthly activities in April, May and June.
- Completed Radiological Work Planning Work Site Assessment.
- Completed Work Site Assessment on CHPRC As Low As Reasonably Achievable Process.
- Initiated Radiological Work Planning Work Site Assessment.
- Initiated procurement of radon discriminating prototype instrumentation for performing direct field measurements.
- Established scheduled monthly Radiological Work Planner meetings.
- Provided training to CHPRC Radiological Control personnel on reliance of using Continuous Air Monitors as an indicator for determining if there is a spread of contamination.
- Supported Sentinel implementation planning (new site-wide access control system).
- Continued providing Senior Supervisory Watch for clearance survey process.
- Hiring Health Physicists to support ongoing PFP Closure Project corrective actions, EM-3, EA, and Jacobs Corporate Assessment actions.
- Completed Decision Making Package for Detection Capability of Portable Radiation Detection Instruments.
- Developed Radiological Survey Report review checklist to improve overall quality of documentation.
- Conducted 2017 Fourth Quarter Company ALARA meeting.
- Conducted 2018 Second Quarter Radiological Protection Leadership Meeting.
- Conducted skills-mix evaluation for radiological control personnel.
- Completed review and approved Technical Evaluations for:
  - Research Technology Laboratory Radiation Protection Technical Evaluation.
  - PFP 234-5Z Work Placement Air Emission Monitoring Technical Basis Document.
  - Waste Encapsulation and Storage Facility Characterization, Dosimetry, and Workplace Air Sampling.

- Use of Hot Water Pressure Washers for Equipment Decontamination at PFP.

o Nuclear Operations Support & Compliance accomplishments:
  – Correspondence transmitted to Department Of Energy Richland Operations Office (RL):
    - Letter, CHPRC-1704539.2, dated May 1, 2018, *Transmittal of the 2017 Annual Update to the B Plant Documented Safety Analysis, HNF-14804, Revision 8, Comment Incorporation*.
    - Letter, CHPRC-1801734, dated May 1, 2018, *Documentation of Annual Review of the Package-Specific Safety Document for Steel Drums, CHPRC-01039, Revision 3*.
    - Letter, CHPRC-1703585.1, dated May 2, 2018, *Transmittal of the 2017 Annual Update to the Documented Safety Analysis for the 224-T Facility, CP-14641, Revision 7, Comment Incorporation*.
    - Letter, CHPRC-1801745, dated May 3, 2018, *Transmittal of the Safety Basis Criteria Document for the T Plant and the Waste Handling Facilities Documented Safety Analyses, CHPRC-03096, Revision 0*.
    - Letter, CHPRC-1801851, dated May 14, 2018, *Transmittal of the 2018 Annual Update to the Tank 241-Z-361 Documented Safety Analysis, HNF-20503, Revision 3; the Technical Safety Requirements for the Tank 241-Z-361 Facility, HNF-20504, Revision 5; and the Unreviewed Safety Question Determinations Summary*.
    - Letter, CHPRC-1800657.1, dated May 21, 2018, *Transmittal of the Waste Encapsulation and Storage Facility Documented Safety Analysis, HNF-8758, Revision 12, and the Waste Encapsulation and Storage Facility Technical Safety Requirements, HNF-8759, Revision 12, Comment Incorporation*.
    - Letter, CHPRC-1704539.2 REISSUE, dated May 21, 2018, *Retransmittal of the 2017 Annual Update to the B Plant Documented Safety Analysis, HNF-14804, Revision 8, Comment Incorporation*.
    - Letter, CHPRC-1704111.1, dated May 22, 2018, *Transmittal of the RL Reviewed and Comment Incorporated Annual Update to the 324 Building Basis For Interim Operation, CHPRC-02979, Revision 3; the 324 Building Technical Safety Requirements, CHPRC-02980, Revision 2; the Addendum to the 324 Building BIO for Demolition of 324 Building Support Areas, CHPRC-02982, Revision 1; the Addendum to the 324 Building Basis For Interim Operation For Stabilization, CHPRC-02983, Revision 2; and the Remote Soil Excavation Addendum to the 324 Building Basis for Interim Operation, CHPRC-03197, Revision 0*.
    - Letter, CHPRC-1802246, dated June 11, 2018, *Submittal of the 2018 Annual Update of the B Plant Safety Basis and the Unreviewed Safety Question Determination Summary*.
    - Letter, CHPRC-1802251, dated June 12, 2018, *Transmittal of the 2017-2018 Annual Unreviewed Safety Question Determination Summary for CHPRC Transportation Safety*.
  – Correspondence received from RL:
    - Letter, 18-NSD-0023_RL, dated May 24, 2018, *Transmittal of Revision E of the U.S. Department of Energy (DOE) Exemptions DOE-E1403 and DOE-E1405*.
    - Letter, 18-NSD-0022_RL, Dated June 26, 2018, *Approval of the Annual Update to the 324 Building Basis for Interim Operation (BIO), CHPRC-02979, Revision 3, the Addendum to the 324 Building BIO for Demolition of 324 Building Support Areas, CHPRC-02982, Revision 1, the Addendum to the 324 Building Basis for Interim Operation for Stabilization, CHPRC-02983, Revision 2, and the Remote Soil Excavation Addendum to the 324 Building Basis for Interim Operation, CHPRC-03197, Revision 0*.
    - Letter, 18-NSD-0026_RL, dated June 26, 2018, *Approval of the Waste Encapsulation and Storage Facility (WESF) Documented Safety Analysis (DSA), HNF-8758, Revision 12, and the WESF Technical Safety Requirements, HNF-8759, Revision 12, Comment Incorporation*.

- Other:
  - Informal submittal for RL comments – *60% Draft Preliminary Documented Safety Analysis for Capsule Storage Area*.

o Operational Awareness, 77023, dated May 8, 2018, *2018 Annual Update of the Package-Specific Document for the Steel Drums (CHPRC 01039 Rev 3) (No Changes).*

o Contractor Assurance Regulatory Reporting (CARR) accomplishments:
- 885 Condition Reports (CRs) were screened:
  - Zero significant issue identified.
  - Five adverse issues identified.
  - 383 Track Until Fixed issues identified.
  - 181 Trend Only items identified.
  - 300 Opportunity for Improvement (OFI) items identified.
  - 16 Screened Out.
- 873 CRs administratively closed.
- 1,226 CRs actions administratively closed.
- Provided Course #600082, *CHPRC Responsible Manager Training - Issues Management*, to CHPRC employees.
- Provided support to Radiological Control in updating the matrix for the EA-30 and EM-3.11 site visit reports.
- Provided full time support to PFP Issues Management and Occurrence Reporting activities.
- Finalized Root Cause Evaluation and transmitted final Occurrence Reporting and Processing System (ORPS) report EM-RL--CPRC-PFP-2017-0018 *Discovery Of Contamination Spread.*
- Transmitted Final ORPS report EM-RL--CPRC-PFP-2018-0004 *Technical Safety Requirement (TSR) Specific Administrative Control Noncompliance.*
- Transmitted Notification and Final ORPS report EM-RL--CPRC-PFP-2018-0005 *Personnel Injury - Broken Bone in Foot.*
- Transmitted final ORPS report EM-RL--CPRC-324FAC-2018-0001, *"Pop" and Spark Observed While in the Process of Cutting Electrical Wires In Junction box (Near Miss).*
- Transmitted Noncompliance Tracking System (NTS) report NTS-EM-RL--CPRC-PFP-2018-0006562, *Discovery of Contamination Spread.*
- Provided support for the Bi-Monthly Defense Nuclear Facility Safety Board (DNFSB) Resident Inspector Meeting.
- Fifty-six documents were provided in response to DNFSB requests for information.
- Provided support for the DNFSB On Site Review of Hanford Electrical Infrastructure.
- Two external Lessons Learned were submitted in OPEXShare.
  - 2018-RL-HNF-0005 *Using Consumer Products for Non-Consumer Uses at DOE Facilities*.
  - 2018-RL-HNF-0007 *Previous Success Leads to Decisions that Resulted in Spread of Radiological Contamination*.
- Five internal Lessons Learned were submitted in OPEXShare:
  - 2018-W&FMP-0002 - *Place Work Areas and Equipment in Safe Configuration to Avoid Potential Uncontrolled Electrical Hazards*.
  - 2018-SGRP-0001 - *Double Wall High Density Polyethylene Bond Apparently Failed Due to Improper Bonding*.
  - 2018-PFP-0003 *Re-Evaluate Nuclear Safety Requirements for Material Storage When Demolition Conditions Change*.
  - 2018-W&FMP-0003 *Lack of Validation of Understanding Requirement Changes Leads to Technical Safety Requirement Noncompliance.*
  - 2018-SGRP-0002 *Assessment of Long-Held Processes Leads to Numerous Improvements.*

- Three internal Just-In-Time were submitted in OPEXShare:
  - 2018-RRMP-0002 - *Tearing Issues with Kimberly Clark KleenGuard A30 Disposable Coveralls.*
  - 2018-PFP-0002 *Discovery of Contamination Spread at the Plutonium Finishing Plant during Demolition Activities.*
  - SGRP-JT-18-002 *Stop Work Using Manufacturer Installed Lifting Straps*.

o Performance Oversight, Assessment, and Quality Assurance accomplishments:
- Issued surveillance report, SHS&Q-2018-SURV-20068, QA-599 Section 2.0 Personnel Training and Qualifications.
- Initiated SHS&Q-2018-WSA-21102, *Work Site Assessment Performance* on May 23, 2018 to review samples of the 364 WSAs completed between October 1, 2017 and May 18, 2018. Assessment completed June 2018, and eight Condition Reports were generated.
- Updated PRC-PRO-QA-40091 to incorporate actions from CR-2018-0551.
- Issued fiscal year (FY) 2019 Assessment Planning Call letter to CHPRC upper management and the Project Assessment Coordinators.
- Completed Surveillance, SHS&Q-2018-SURV-20068, *QA-599 Section 12 Software Quality Assurance*.
- Initiated SHS&Q-2018-SURV-20067, *Review of Quality Assurance Program*, Section 1.0.
- Reviewed PRC-MP-QA-599, *Quality Assurance Program*, annual minor changes with DOE representative. Completed Annual Submittal of the *Quality Assurance Program*, PRC-MP-QA-599, Review for Approval.
- Completed successful testing of CHPRC NCR System Test Script, SCR 22 to upgrade CHPRC NCR to ColdFusion 11. Upgrade of CHPRC NCR Electronic System to ColdFusion 11 released to production.
- Supported DOE RL AU-18-ESQ-CHPRC-002 “Design and Software Quality Assurance.”
- Supported Annual Audit of the OCRWM Quality Assurance Program.
- Conducted in-field activities for the 10 CFR 835 Subpart F “Entry Control Program,” surveillance. The surveillance resulted in eight Findings and four Opportunities for Improvement.
- Participated in Office of Enforcement Briefing and Interview Activities.

o Fire Protection (FP) accomplishments:
- Completed PUREX FHA update for Tunnel 2 grouting.
- Completed six Facility Fire Protection Assessments (FFPAs).
- Completed three Technical Safety Requirement (TSR) Fire Protection Assessments.
- Prepared for upcoming EA-30 Fire Protection Program Assessment of Central Waste Complex/T Plant.
- Provided support for PFP recovery actions, including working with facility and Mission Support Alliance (MSA) staff to develop PFP Fire Water Loop “compensatory measure for temporary condition”. The PFP Fire Hazards Analysis (FHA) is being updated in order to document this change.
- Supported evaluation of options for Interim Safe Storage of K East reactor.
- Continued comment resolution on revised FP procedures. Met with several Project representatives to ensure adequate understanding of potential impacts.
- Supported CWC facility Operations in evaluating options for fire system operability during lighting upgrades of 2404WA, 2404WB, and 2404WC.
- WESF – W-135 Project pre-FHA is underway. Resolved comments on sprinkler system evaluation document.
- Drafted request for DOE approval to deactivate and lay-up FFTF Fire Alarm System.
- Provided support to the 324 Facility A-Cell crane door closure issue.

Environmental Program and Strategic Planning (EP&SP)

- **Environmental Protection**
  - Supported Environmental Data Integration by developing a database for Tracking Inspection Actions for Regulatory Agencies (TIARA).
  - Obtained concurrence from Ecology on an administrative permit modification to incorporate the Washington State General Order for Concrete Batch Plan Operations into the Air Operating Permit. The following documents were submitted to RL for transmittal to State of Washington, Department of Ecology (Ecology) and U.S. Environmental Protection Agency (EPA):
    - PUREX Tunnel 2 Concrete Batch Plant usage Administrative Amendment to the AOP.
    - PUREX Tunnel 2 Radiological Air Notice of Construction Application.
  - Responded to additional records and information requests resulting from a Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) Article XXXII Stop Work letter from EPA and Ecology, and the Letter of Concern from Washington State Department of Health (WDOH), regarding the PFP contamination events.
  - Completed Agreement for use of Temporary Exhausters during demolition of 234-5Z Building.
  - Completed information/certification submittal to MSA for:
    - 2017 Air Operating Permit database certification.
    - Annual Resource Conservation and Recovery Act (RCRA) Permit Underground Pipeline Mapping and Marking Report.
  - Provided PFP Root Cause Evaluation Report to EPA, Ecology, and WDOH in response to "Creation of Danger" letter.
  - Provided four transuranic waste container acceptable knowledge packages to Ecology.
  - Supported revision of Part A forms for the following waste management units and transmitted to Ecology to begin process to remove these units from the Hanford RCRA Permit.
    - 1301-N.
    - 1324-N/NA.
    - 1325-NA.
    - 1706-KE.
    - 600 Area Purgewater Storage and Treatment Facility.
  - Compliance Status
    - Provided draft letters to RL in response to Ecology Inspection Reports for WRAP, CWC, NRDWL/LLBG Green Islands, 200 Area Ponds, Ditches and Cribs, LLBG Trenches 31/34, and WESF. Working with RL on subsequent Ecology major risk response related to three of these letters.
    - Facilitated Annual Hanford RCRA inspections as well as regulatory agency inspections at PUREX Tunnel 1, 400 area, 200 Area Steam-lines, CWC, WRAP, ERDF, 1301-N, 1325-N, 183-H, 300 Area Process Trenches, T Plant, 200 Area Ponds, Ditches, Cribs, and Trenches, NRDWL, LLBG GIs, and Diffuse and Fugitive EUs.
- **Environmental Compliance and Quality Assurance**
  - Assessment Status
    - Independent Assessment, Internal Audit of CHPRC Environmental Management System (EMS), was completed on May 2, 2018, and resulted in five findings and seven opportunities for improvement. This was completed in preparation of the external ISO 14001 audit.
    - Surveillance, Effectiveness Review of Corrective Actions from CR-2017-1414, was completed on June 21, 2018 and resulted in no findings or opportunities for improvement.
- **Demonstrate active leadership and progress toward obtaining new Resource Conservation and Recovery Act (RCRA) Permit for the Hanford Site**
  - Facilitated and participated in the following meetings:
    - Weekly permit Project Management Team meetings.
    - Weekly permit meeting for Hanford contractors.

  - Weekly schedule strategy discussions with Ecology.
  - Biweekly schedule status meetings with RL, ORP, Ecology, and contractors.
  - Monthly Tier 2 Meeting with RL, ORP, and Ecology Senior Management.
- Maintained the permit schedule.
- Provided a detailed monthly schedule report and analysis for progress on the permit to Ecology, RL, ORP, and the contractors.
- Provided tracking and status of open issues that are preventing progression of the permit.
- Provided fulltime regulatory expertise and project management support.

- **Quality and timeliness of key documents submitted**
  - From April through June 2018, 69 environmental documents supporting various CHPRC projects were completed through EP&SP Publication Services. Publication Services was established to provide a systematic process for performing technical editing and formatting of environmental documents.

Business Services

- **Supply Chain:**
  - Assisted the Source Evaluation Board for the selection of the grout installation subcontractor for the PUREX Tunnel 2 Grout Stabilization project. Award is anticipated by July 9, 2018.
  - Completed acquisition planning for the re-compete of spectral gamma logging and neutron moisture logging services for Soil and Groundwater Remediation Project. Total estimated value including options is approximately $5,600,000.
  - Conducted the initial Buyer's Technical Representative (BTR) Forum designed to provide BTRs with up-to-date information and a platform to share lessons learned and best practices. The forums will be conducted on a quarterly basis and are designed to enhance communication of the CHPRC supply chain.
  - Completed a Work Site Assessment of the Inter Company Work Order process. One opportunity for improvement was noted.
  - Met with project personnel to develop a statement of work for improving energy efficiency at the Environmental Remediation Disposal Facility (ERDF). The project commenced with planning a preliminary budget estimate for replacing current halogen/sodium lights with more energy efficient Light Emitting Diode (LED) lights.
  - Completed a construction subcontractor review to ensure the minimum level of work performed by their own work forces was in compliance with Federal Acquisition Regulation (FAR) 36.501. Revised lower-tier subcontract reporting to include a requirement for offerors to disclose the anticipated level of lower-tier subcontracting in each proposal.
  - Completed acquisition planning to perform engineering services for designing the necessary support facilities at the Integrated Disposal Facility (IDF). The total estimated value of this work is approximately $300,000.
- **Facilities & Property Management (F&PM):**
  - Continuing the 2018 Property Inventory Campaign, 74.48 percent complete at the end of June 2018.
  - Completed relocation of remaining office trailers from 618-10.
  - Completed setup of MO6301 at 300-296.
  - Completed beneficial occupancy of MO2525 shower trailer for Central Plateau Projects.
  - Completed demo of MO6502 at 618-10.
  - Completed relocating furniture and miscellaneous supplies from ENW building 127 to 400 area storage facility.
  - Setup of MO6116 in 300 area is 80 percent complete.
  - Started the process to setup MO6114 in the 200E unsecured corridor for occupancy by the Central Plateau Risk Management Project.

- **Finance:**
  - Continuing with the series of RL finance/contracting officer meetings to discuss and align topics identified in the CHPRC Incurred Cost Audit Corrective Action Plan for FY2009-FY2015.
  - April through June month-end completed with no cost suspensions.
  - Submitted FY2018 2nd Quarter International Transactions report to RL Finance.
  - Submitted the FY2018 2nd Quarter reconciliation of RL's Accounts Payable – Accrued Liabilities account (#2110).
  - Continued providing support for an RL Property Recognition and Reporting (CR 4202) Assessment.
  - Provided support to an RL Sunflower testing assessment.
  - Continued providing support to RL for the FY2017 Invoice Assessment of Labor Charges.
  - Provided support to RL for FY2017 Invoice Assessment for non-labor charges.
  - RL Inventory Assessment was closed with no findings.
- **Human Resources (HR):**
  - Worked with other Hanford Contractors to implement impending Paid Family Leave state law.
  - Provided RL with the "Contractor Report of Annual Earnings of $100,000 and Above" effective June 16, 2018.
  - Developed plan to address workforce needs for FY2019 based on budget guidance and priorities.
  - Completed the online Rating and Ranking process for exempt/non-exempt employees.
  - Participated in the 2018 World at Work Salary Budget Survey as a component of CY2019 Salary Increase Fund Notification and Position to Market Analysis.
  - Participated in the 2018/2019 Mercer U.S. Compensation Planning and Willis Tower Watson Surveys to gauge CHPRC'S salary position with the market.
  - Implemented new job titles and/or new Common Occupational Classification System (COCS) codes for 49 employees in the Planner/Scheduler and Estimator job classifications.
  - Completed and provided response to an Office of Federal Contract Compliance Programs (OFCCP) Audit.
  - Created a new Crystal Enterprise report for reorganization/work location changes that will better assist groups needing to know when personnel moves have taken place.
  - Participated in the Hanford Future Workforce committee by leading a subcommittee to address workforce stability at the Hanford Site.
  - Met with representatives from Washington State University (WSU) to discuss partnering related to future workforce needs.
- **Labor Relations (LR):**
  - Continued, with HR, to provide support to PFP Recovery efforts by coordinating resource needs within the CHPRC projects and OHCs, as well as hiring temporary employees for certain classifications.
  - The following is the current status of grievances in the arbitration process:
    - PRC-016-044, 049, and 050 – termination. Status: Arbitration held April 25, 2018 – awaiting arbitrator's decision, expected in July 2018.
    - PRC-017-010 – union claiming employee should have been paid between time when ready to return to work and when started with MSA. Status: Arbitration scheduled March 21, 2019.
    - PRC-017-035 & PRC-017-050 (Jurisdictional – building of supports). Status: Arbitration scheduled November 6, 2018.
    - PRC-017-039 – union claiming filling out of Electronic Bill of Material. Status: Arbitration scheduled December 12-13, 2018.
    - PRC-017-040 – union claiming exempt performed Excessing of Material. Status: Arbitration scheduled February 21, 2019.
    - PRC-017-042 – union grieving Company's closure of the Plastic Shop at PFP. Status: Arbitration scheduled January 22, 2019.

  - PRC-017-052 – union claiming termination not just. Status: Arbitration scheduled for May 8 and 9, 2019.
- The following grievances have been requested by Hanford Atomic Metal Trades Council (HAMTC) to move to arbitration and are pending arbitration dates:
  - PRC-017-045 (Waterline assigned to Building Trades).
  - PRC-018-001 (Demobilization of equipment on Davis Bacon work site).
  - PRC-018-008 (Discipline).
  - PRC-018-010 (Discipline).
  - PRC-018-011 (Tumbleweed Removal).

- **Procurement:**
  - In the third quarter of FY2018, awarded/amended 320 contracts with a total value of $14.9 million. Additionally, awarded 747 new material purchase orders (PO) valued at $2.9 million to support ongoing project objectives.
  - At the end of 117 months of the CHPRC project, procurement volume has been significant: $2.7 billion in contract activity has been recorded with approximately 56.4 percent, or $1.53 billion, in awards to small businesses. These awards include 8,190 contract releases, 26,155 POs, and 302,356 PCard transactions.
  - Major contract awards:

Contract/ Release	Award Date	Awarded To	Title	Contract Type	Value
58163-12	4/11/18	Babcock Services Inc	100 D/H Area Interim Remedial Action Completion Report-Support	T&M	$100,000.00
66136	4/12/18	Aspen Resources Limited Inc	Project Engineer/Scientist Technical Services 100K Characterization.	T&M	$157,100.00
66007-10	4/19/18	S S Papadopulos & Associates Inc	GW Modeling Support for CERCLA Documents	LHC	$118,036.68
66007-1	4/19/18	S S Papadopulos & Associates Inc	RCRA Engineering Evaluation Reports	LHC	$239,275.92
61180-3	4/26/18	NAC International Inc	Task 3 - CSS Final Design	T&M	$1,234,881.02
36883-79	4/30/18	OJEDA	Impermeable Barriers at 300 Area Interim Stabilization Sites	FFP	$275,000.00
36538-107	5/1/18	Watts Construction Inc	PUREX Tunnel 2 Site Improvement	FFP	$260,000.00
54134-16	5/15/18	Columbia Energy & Environmental Services Inc	Modified Airlock Track and Cart	FFP	$86,683.92
55705-7	6/6/18	Intermech Inc	PUREX Tunnel 2 Grout Conveyance	FFP	$790,000.00
58163	6/7/18	Babcock Services Inc	RCRA Permitting for IDF	T&M	$145,803.13
66556	6/12/18	Longenecker & Associates Inc	PFP Resumption Oversight & Assessment Team	T&M	$104,909.40

Prime Contract and Project Integration (PC&PI)

- **Project Management/Compliance Assessments**
  - Preparation and the disposition of eight Baseline Change Requests (BCRs) by the Change Control Board (CCB) was facilitated in April, 12 BCRs in May, and seven BCRs in June by Project Management/Compliance Assessments as part of their responsibility as CHPRC CCB coordinator.
  - During May through June, Project Management/Compliance Assessments supported efforts by the River Risk Reduction and Sludge Retrieval Projects to work with RL to prepare for the submittal of Critical Decision (CD)-4, *Approve Start of Operations or Project Completion*, documentation for each project as required by DOE O 413.3B, *Program and Project Management for the Acquisition of Capital Assets*. CD-4 is the achievement of the project completion criteria defined in the Project Execution Plan (PEP), the approval of transition to operations, and it marks the completion of the execution phase. The request for approval of CD-4, Approve Start of Operations, for the Sludge Retrieval Project was submitted to RL on May 10, 2018. DOE-HQ approved CD-4 on May 18, 2018. RL transmitted approval of CD-4, Approval Start of Operations, to CHPRC on May 22, 2018.
  - During June Project Management/Compliance Assessments worked with RL and the PFP Closure Project to begin preparations for requesting DOE-HQ approval of Critical Decision 2/3, Approve Performance Baseline/Start of Execution, for the proposed plan to complete the RL-0011.C2 PFP Demolition Capital Asset Project. In support of the CD 2/3, a DOE-HQ led Independent Cost Estimate/External Independent Review (ICE/EIR) of the scope, estimated cost, and schedule to complete the RL-0011.C2 project is tentatively planned at Hanford for mid-September 2019.
  - During April, in their role as the CHPRC Technical Authority for DOE O 413.3B, *Program and Project Management for the Acquisition of Capital Assets*, Project Management/Compliance Assessments assisted the PUREX Tunnel 2 Stabilization Project in the finalization of their Project Execution Plan.
- **Prime Contract Compliance (PCC):**
  - During April through June, PCC received and processed 10 contract modifications (659-663) from RL.
  - The Correspondence Review Team received and determined the distribution for 160 incoming letters/documents. The PCC manager reviewed 96 outgoing correspondence packages.
  - Submitted CHPRC 1801178 “Notification of Differing Site Condition – Latent Condition Discovery in the Radiochemical Engineering Complex Airlock and C-Cell with Elevated Alpha Contamination at the 324 Building”.
  - Submitted CHPRC-1801420 – Contract Number DE-AC06-08RL14788 – “Performance Measure Completion Request for Contracting Officer Acceptance per PRC Clause B.8(C) – RL-012, Fiscal Year 2018, PM-12-1-18”.
  - Submitted CHPRC-1801427 – “Performance Measure Completion Request for Contracting Officer Acceptance per PRC Clause B.8(C) – RL-013, Fiscal Year 2018, PM-13-2-18”.
- **Information Management:**
  - Processed 125,067 electronic records into the Integrated Document Management System (IDMS).
  - Continued desktop computing equipment upgrade project in support of HLAN Windows 10 implementation to be completed in FY2018. To-date, 396 computers have been refreshed.
  - Completed PRC PMRS version 4.0 and COBRA version 8.1 upgrades.
- **Project Integration**
  - Project Support, Systems Integration & Schedule Integration
    - Developed, implemented, and trained Project Controls staff on using the automated tool for validations and quality checks on BCRs.
    - Developed and implemented a monthly performance automated e-CAM notebook report.
    - Completed the upgrade and data quality checks of the scheduling tool (Primavera P6 v17.7) and the schedule analysis tool (Acumen 8.1).

- Developed a Project Controls (Analyst) monthly processing SharePoint training site.
- Developed an EVMS system/tool training program and presented during the three-day Earned Value Professional Certification (EVPC) course given to CHPRC personnel. In addition, prepared and presented overviews of Work Authorization, Variance Analysis Reporting (VAR) Tool, and Cobra/PMRS.
- Teamed with Washington River Protection Solutions LLC (WRPS) to develop a presentation for the Energy Facility Contractor's Group (EFCOG) on the state of the Integrated Master Schedule (IMS) complex-wide and what is being done to improve and implement scheduling best practices.
- Completed and issued the second quarter RL Key Deliverables report.
- Performed Work Site Assessment PC&PI-2018-WSA-19489, CHPRC Control Account Manager (CAM) Notebooks. The WSA was to evaluate the status of the CAM Notebooks to assure they were current, accurate, and complete. A total of nine Opportunities for Improvement were identified and entered into CRRS for assignment.
- Supported the FY2018 DOE Financial Statement Audit by KPMG, data request for Cobra user account configuration controls, system audit logs, HR lists, and IT policies and procedures.

o Estimating & Program Support

- Performed quality checks of Basis of Estimate and backup documents for FY2019 Post Contract Baseline estimate support.
- Submitted one change proposal (CP)/request for equitable adjustment (REA):
  - CP 030 PRC 1707 - GW Engineering Reports - Monitoring Plan, submitted June 20, 2018.
- Submitted Truthful Cost or Pricing Data (TCoPD) for CPs/REAs to support the anticipated global settlement:
  - CP 041 304 1593 - 324 Complex, submitted May 23, 2018.
  - CP 041 305 1616 - 300-296 Waste Site Design Change, Initiate Procurements, Initiate Testing, and Initiate Removal of Debris, submitted May 23, 2018.
  - CP 041 306 1595 - ERDF, submitted May 23, 2018.
  - CP 041 306 1596 - 618-10 Burial Ground, submitted May 23, 2018.
  - CP 041 306 1597 - River Corridor Closure Contract (RCCC) Remaining Closure Operations, submitted May 23, 2018.
  - CP 041 306 1600 - 316-4 Waste Site, submitted May 23, 2018.
  - CP 041 306 1610 - 600-63 Waste Site, submitted May 23, 2018.
  - CP 041 306 1613 - Minor Capital Funded Projects RCCC Transition Add-Ons, submitted May 23, 2018.
  - CP 041 306 1615 - Surveillance & Maintenance Sites RCCC Transition Add-Ons, submitted May 23, 2018.
  - CP 013 308 1629 - Management of the Cesium and Strontium Capsules Capital Asset Project Deductive Proposal, submitted June 20, 2018.
  - CP 013 311 1625 - Emergency Response for Facility/Waste Site ESH&Q or Remediation (roof, misc.), submitted May 23, 2018.
  - CP 030 318 1618 - 200-WA-1 and 200-BC-1 Operable Units Characterization, submitted May 23, 2018.
  - CP 041 319 1640 - Garnet Filter Media Removal, submitted June 19, 2018.
  - CP 041 320 1642 - Sand Filter Medial Removal Design, submitted June 18, 2018.
  - CP 013 322 1639 - Integrated Disposal Facility Revised Operational Requirements, submitted May, 23, 2018.
  - CP 040 324 1641 - Miscellaneous PBS RL-040 Work Scope, submitted May 23, 2018.
  - CP 041 326 1651 - 105-KW Fuel Storage Basin, submitted June 18, 2018.

- CP 012 327 1646 - Sludge Retrieval Project (SRP) Acceleration of 105KW and T Plant, submitted May 23, 2018.
- CP 041 328 1656 - 300-296 Waste Site Additional Scope, submitted May 23, 2018.
- CP 041 330 1662 - 100K FY2018 Waste Site Remediation Activities, submitted May 23, 2018.

– Completed cost evaluations for CPs/REAs with completed work scope to support the anticipated global settlement:
- CP 030 299 1578 - 200 West Pump & Treat System Membrane Bioreactor Cassette Additions based on actual cost.
- CP 041 304 1594 - 300-296 Design Review and Gap Analysis, removed Kurion costs of $250K.

– Miscellaneous estimating support:
- Provided response to RL Request for Information on CP 012/013 327 1646 - Sludge Retrieval Project Acceleration of 105KW and T Plant, submitted on June 14, 2018.
- Provided Pacific Northwest National Laboratory (PNNL) a rough order of magnitude cost estimate for backfill of the foundation hold for the Radiological Technology Laboratory.
- Provided support to the U. S. Navy RF2070, Calendar Year 2018 Shipment 1 (SSN-697) for Puget Sound Naval Shipyard.
- Provided support to the U. S. Navy RF2071, Calendar Year 2018 Shipment 2 (SSN-712) for Puget Sound Naval Shipyard.
- Provided support for Inter-Entity Work Order RF2068 Travel and Per Diem Expenses for Support to Office of Legacy Management VPP Readiness Reviews.

o 000 Project EVM Support & Reporting:
– Prepared FY2019 Post Contract Baseline Planning package for 000 accounts.
– Issued three months of CHPRC Monthly Performance Reports to RL.
– Submitted the March, April and May Gold Metrics to RL.
– Submitted second quarter Facility Information Management System (FIMS) Quarterly Maintenance Report.
– Completed Safety Hour reporting each month.
– Compiled Integrated Project Team (IPT) and Monthly Project Review packages for March, April, and May.
– Prepared monthly Indirect Project Review packages.

- **Program Integration**
  o Interface Management:
  – Facilitated inter-contractor communication and activities to resolve a failed sanitary sewer main pipe in the 300 Area. The failed main supported a facility feed pipe from the 324 Building and some surrounding mobile offices and restroom/shower trailers.
  – Facilitated CHPRC comment responses and regulatory strategies related to a new Site Evaluation for the proposed WRPS LAWPS/TSCR construction activities. The proposed siting areas are adjacent to or on top of CHPRC managed groundwater wells and waste sites. Continued efforts will be required between contractors, RL, ORP, and Ecology to identify acceptable regulatory pathways required to impeded upon and/or remove piping/debris from non-remediated waste sites.
  – Facilitating equipment loan activities with PNNL regarding the Ammonium Injection Trailer. PNNL has requested the trailer to support test activities at another DOE site.
  – Facilitating communications and requests to reset MSA loaned labor resource needs for the balance of FY2018. Primary updates are related to restart and continued demolition of the PFP facilities.

- Completed internal review of the J.13/J.14 contract table updates. Primary areas of update include reassignment of River Corridor Closure Contract waste sites and removal of demolished facilities. Updated tables are with MSA for administration and processing with RL.
- Completed reviews and concurrence on MSA Service Delivery Documents.
- Completed draft and final reviews of the annual Infrastructure Services and Alignment Plan.
- Issued HNF-48239, Revision 7, Administrative Interface Agreement between CHPRC and MSA for Safeguards and Security Program; TOC-AIA-PRC-00031, Revision 2, Administrative Interface between WRPS and CHPRC for Operations Interface Activities within or Adjacent to Nuclear Facilities; and City of Richland 300 Area Electrical Services Interfaces and Responsibilities Agreement between The City of Richland, PNNL, CHPRC, and MSA.

o Risk Management:
- Completed second quarter risk register reviews, and initiated planning efforts to support the FY2018 Performance Measurement Baseline (PMB) update annual deliverable to RL.
- Supported PFP Closure Project replanning efforts and presented risk analysis results to Senior Management. Efforts will continue through September to support the planned DOE-HQ led ICE/EIR of the proposed scope, estimated cost, and schedule to complete the RL-0011.C2 PFP Demolition Capital Asset Project. The ICE/EIR is tentatively planned at Hanford for mid-September 2018. It is being performed in support of obtaining DOE approval of Critical Decision 2/3, Approve Performance Baseline/Start of Execution.
- Supported Central Plateau Risk Mitigation planning efforts for the grouting of PUREX Tunnel 2 and presented the associated risk analysis results to Senior Management and RL.
- Updated Monte-Carlo software to align with CHPRC's upgrade of P6 scheduling software systems.
- Conducted monthly assessments of the status of key project risks, and risk impacts associated with BCRs.

o Strategic Management:
- In April and May 2018, Strategic Management continued scope planning for FY2019, to determine priorities and propose an updated Integrated Priority List (IPL) to RL. As part of this effort, presentations and support documents were produced and provided to RL to support funding requests. Presentations were also provided upon DOE requests to brief the regulatory agencies on FY2018 and FY2019 priorities and funding impacts.
- Strategic Management supported the Post Contract Baseline Planning effort, including establishing funding targets, providing recommendations to senior management, reviews of FY2019 Work Breakdown Structure (WBS) dictionaries, and FY2020-FY2021 WBS dictionaries and Basis of Estimate (BOEs).
  - Strategic Management continued their support of assessing and documenting risks at the Central Plateau and River Corridor projects. At DOE request, strategic management provided the Project Evaluation Matrix updates, and support documentation to brief the Government Accountability Office (GAO) and regulatory agencies on the evaluation process. Support was also provided for internal briefings and project integration on the matrix. CHPRC formally transmitted the Project Evaluation Matrix in June to support DOE prioritization of projects that address the highest risk sites.
- Strategic Management continues partnering with the Environment Program & Strategic Planning group on long-term cleanup initiatives. Focus during April through June 2018 was providing RL with additional information on cleanup strategies, including FY2019-FY2021 funding profiles for projects. In addition, a variety of presentations were reviewed and provided to DOE, and support provided to workshops for the AMRP cleanup strategy.

- During June, Strategic Management provided updates to the Tri-Party Agreement negotiation spreadsheet, which shows estimated project costs to comply with Tri-Party Agreement milestones. These updates were based on the CHPRC long range plan, DOE baseline, and prior assessments.
- In the quarter, Strategic Management compiled and provided updates to RL on the FY2018 IPL progress, based on actuals through March with a new FY2018 estimate at completion (EAC) calculation based on the March forecasts. Change forms for the IPL were submitted to RL, and an updated Execution Year Priority List was approved by RL in June 2018.
- Sitewide productivity metrics were produced during the quarter, based on project input, which document work performed against expected work packages.

Project Technical Services (PTS)

- **Engineering Services**
  - Initiated search for engineering specific training to support the projects.
- **Training and Procedures**
  - Participated with MSA and WRPS in vendor demonstrations for a software solution to replace the existing learning management system. Vendor evaluations were completed based on input from all three contractors. Evaluation results were then used by MSA Contracts to determine the preferred candidate. MSA will continue through the procurement process and plans to make the final selection before the end of this FY.
  - Worked with Industrial Hygiene subject matter experts to develop and implement a new computer-based training course on the fundamentals of handling biological hazards. This course was developed based on requests from non-janitorial workers who may be requested to cleanup biological wastes (such as rodent droppings) in radiological areas. Since there is no regulatory driver for this training, it will be made available as just-in-time training for workers to refresh themselves on good practices immediately before performing work.
  - Worked with PFP and Conduction of Operations (ConOps) Subject Matter Experts (SMEs) to prepare a new section in CHPRC General Employee Training regarding communication elements of ConOps. Completed training analysis, design, development, and implementation on a short turnaround to support PFP restart action commitments.
  - Assisted 100K Project and HAMMER personnel in reconciling a training completion issue for users of Bullard Evolutionary Air (EVA) powered air purifying respirator (PAPR). This exercise highlighted that 100K is currently the only facility using this particular mask. Further discussions indicated the mask may be replaced with one that is more widely used across the site, which streamlines the issuance and training processes and should ultimately save time and money without impacting safety.
  - Worked with Emergency Preparedness (EP) personnel to review and revise training plans and training templates for EP coordinators. This update will increase the EP coordinators ability to support other projects during drills or actual emergency response activities.
- **Operations Program**
  - ConOps/Work Control/Conduct of Work
    - Supported apparent cause evaluation for hazard implementation for repetitive use work packages for CR-2018-0536.
    - Supported development of presentation of common cause evaluation results for hazardous energy events to the Facility Manager's Forum.
    - Provided feedback to RL regarding inquiry for data to support new metrics.
    - Completed draft for tri-annual review of CHPRC Conduct of Operations Program (PTS-2018-WSA-19513).
    - Compiled data for work site assessment of open frame breaker preventative maintenance.

- Presented Common Cause Evaluation of hazardous energy issues to Facility Managers Forum and the Executive Safety Review Board.
- Attended Trend Working Group kickoff meeting.
- Supported startup/readiness collaboration team meeting to review lessons learned and review upcoming activities.
- Participated in the Integrated Safety Management System (ISMS) Management Assessment - Corrective Action Working Group.
- Completed acquisition verification services (AVS) Annual Supplier Review for – Energy NW Standards Lab Buyer's Technical Representative/Engineer/Requestor Survey.
- Drafted PRC-STD-OP-54266 Hazardous Energy Control.
- Processed change to Cold and Dark (C&D) procedure to emphasize C&D Manager responsibilities.
- Worked with Facility Management to establish the Field Work Supervisor (FWS) Task team to evaluate the administrative burden being placed on FWS for execution of field work.

o Emergency Preparedness (EP)
- Conducted Facility Emergency Response Organization (FERO) Staffing Improvement Recommendations/Plan with Facility Managers Task Team.
- Supported Safety Connect Event.
- Conducted business continuity program audit.
- Conducted Third Quarter EP Program Assessment, one finding, five opportunities for improvement (OFI's).
- Conducted program improvement workgroups with Emergency Preparedness Coordinators.

Communications:

- Communications supported RL in proactive and reactive media stories:
  - KUOW (April 11, 2018), Workers Set To Empty Hanford's Infamous K-Basin Of Radioactive Sludge.
  - Tri-City Herald (May 5, 2018), A year after a radioactive tunnel collapsed, is Hanford safer?
  - NBC Right Now (May 9, 2018), Hanford PUREX tunnel collapse: looking back one year later.
  - Tri-City Herald (June 13, 2018), Some of Hanford's deadliest waste is finally on the move.
  - Tri-City Herald (June 25, 2018), This radioactive waste at Hanford has waited 9 years for this moment. We're safer for it, DOE says.
  - EM Newsletter (June 2018), Crews Reduce Risk at Plutonium Finishing Plant Demolition Work Site.
- Communications supported RL in the development of social media posts featuring:
  - PFP progress updates.
  - Sludge Removal Project.
  - 324 Building Mockup Facility.
  - STEM Like ME! Program.
  - ERDF Waste Shipment.
  - 618-10 Burial Ground completed.
  - Groundwater Treatment Program.
- Communications supported RL in the development of presentations and documents:
  - Hanford Site Cleanup Budget Priorities on April 23, 2018, in Richland. RL and ORP provided an overview of Hanford cleanup budget priorities.
  - Hanford Advisory Board (HAB) Public Involvement Committee Meeting in Richland on June 52, 2018. Presentations included CHPRC project updates.

MAJOR ISSUES

In accordance with performance measure PM-00-1-18, CHPRC reports the below issues potentially affecting the completion of individual outcomes and the overall success of the contract, as well as actions taken or recommended to resolve those issues.

Issue	Recommendation
No business system issues currently identified. Please see the Overview for contract alignment issue status.	N/A

PROJECT BASELINE PERFORMANCE
Current Month
($M)

WBS 000 Project Services and Support	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance ($)	Schedule Variance (%)	Cost Variance ($)	Cost Variance (%)
Office of the President	0.2	0.2	0.1	0.0	0.0%	0.0	6.3%
Internal Audit	0.1	0.1	0.1	0.0	0.0%	0.1	54.9%
General Counsel	0.1	0.1	0.1	0.0	0.0%	0.0	6.8%
Communications	0.1	0.1	0.1	0.0	0.0%	0.0	13.7%
Safety, Health, Security, and Quality	1.0	1.0	1.1	(0.0)	-0.0%	(0.0)	-3.9%
Environmental Program and Strategic Planning	0.4	0.4	0.3	0.0	0.0%	0.1	18.3%
Business Services	1.8	1.8	1.7	0.0	0.0%	0.1	6.2%
Prime Contract and Project Integration	1.8	1.8	1.6	0.0	0.0%	0.2	13.5%
Project Technical Services	0.6	0.6	0.6	(0.0)	-0.2%	0.1	8.8%
Indirect WBS 000 Total	**6.3**	**6.3**	**5.7**	**(0.0)**	**-0.0%**	**0.6**	**9.0%**

Numbers are rounded to the nearest $0.1 million.

Indirect WBS 000

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

CM Cost Performance: (+$0.6M/+9.0%)
The positive cost variance is attributable to lower subcontractor cost realized than planned in Internal Audit due to time phasing of subcontractors performing incurred cost audits on a milestone invoicing schedule. Additionally, lower subcontractor cost is due to desktop computing equipment purchases made in the prior year that were originally planned for this year, as well as less user based services support required then planned. Also, organizations have been operating at leaner staffing levels due to open vacancies, workforce restructuring impacts, and unplanned absences due to personal injury.

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

WBS 000 Project Services and Support	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance ($)	Schedule Variance (%)	Cost Variance ($)	Cost Variance (%)	Budget at Completion (BAC)
Office of the President	1.4	1.4	1.4	0.0	0.0%	0.0	3.0%	2.0
Internal Audit	1.4	1.4	0.6	0.0	0.0%	0.8	56.6%	1.9
General Counsel	1.2	1.2	0.9	0.0	0.0%	0.3	28.3%	1.6
Communications	0.9	0.9	0.9	0.0	0.0%	0.1	6.3%	1.3
Safety, Health, Security and Quality	10.0	10.0	9.8	(0.0)	-0.0%	0.1	1.4%	13.6
Environmental Program and Strategic Planning	4.0	4.0	3.2	0.0	0.0%	0.8	19.4%	5.5
Business Services	17.6	17.6	16.6	0.0	0.0%	1.1	6.0%	24.1
Prime Contract and Project Integration	17.5	17.5	15.9	0.0	0.0%	1.5	8.8%	23.9
Project Technical Services	6.1	6.1	5.7	(0.0)	-0.2%	0.4	7.3%	8.4
Indirect WBS 000 Total	**60.2**	**60.2**	**55.0**	**(0.0)**	**-0.0%**	**5.2**	**8.6%**	**82.3**

Numbers are rounded to the nearest $0.1 million.

Indirect WBS 000
FYTD Schedule Performance: (-$0.0M/-0.0%)
The variance is within reporting thresholds.

FYTD Cost Performance: (+$5.2M/+8.6%)
The positive cost variance is attributable to less labor cost than budgeted due to workforce restructuring impacts, open vacancies, project needs, as well as unplanned absences higher than planned. Also contributing to the positive variance is lower subcontractor cost realized than planned in Internal Audit due to time phasing of subcontractors performing incurred cost audits on a milestone invoicing schedule. Additionally, lower subcontractor cost is due to desktop computing equipment purchases made in the prior year that were originally planned for this FY as well as reduced subcontractor support for planned EVMS assessment activities. The positive cost variance is partially offset by unplanned dosimetry due to bioassay costs associated with the December contamination issue at PFP.

FY2018 G&A Analysis
($M)

WBS 000 Project Services and Support	FY 2018 FYTD BCWS	FYTD Actual	FYTD Variance (O)/U		FY2018 BCWS	FY2018 Forecast	FY2018 Variance (O)/U
General & Administrative (G&A)	**60.2**	**55.0**	**5.2**		**82.3**	**79.3**	**3.0**
Office of the President	1.4	1.4	0.0		2.0	1.9	0.0
Internal Audit	1.4	0.6	0.8		1.9	1.8	0.1
General Counsel	1.2	0.9	0.3		1.6	1.5	0.1
Communications	0.9	0.9	0.1		1.3	1.2	0.1
Safety, Health, Security and Quality	10.0	9.8	0.1		13.6	14.1	(0.4)
Env. Program & Strategic Planning	4.0	3.2	0.8		5.5	4.7	0.8
Business Services	17.6	16.6	1.1		24.1	23.5	0.5
Prime Contract and Project Integration	17.5	15.9	1.5		23.9	22.4	1.5
Project Technical Services	6.1	5.7	0.5		8.4	8.2	0.2

	FY2018	
G&A Distribution	**(57.2)**	**(84.3)**
G&A Liquidation (Over)/Under	**(2.2)**	**(5.0)**

Liquidation Analysis

For June, after a $3.6 million over-liquidation passback in February and a $2.8 million over-liquidation passback in May, the application of the general & administrative (G&A) rate has over-liquidated total to date G&A cost by $2.2 million. The FY2018 year-end projected over-liquidation of $5.0 million reflected in the FY spend forecast reflects a projected decrease in G&A costs as well as an increase to the G&A base.

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

Appendix C
Capital Asset Projects

CH2MHILL
Plateau Remediation Company

June 2018
CHPRC-2018-06, 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)

CH2MHILL
Plateau Remediation Company

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

June 2018
CHPRC-2018-06, 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 critical decision (CD)-4 closure to remove the final glovebox from the 234-5Z Facility during demolition. The remaining glovebox (HA-46) has been staged until the area of the 234-5Z Facility is demolished. The total 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

- None

Once stabilization and implementation of new demolition requirements are complete, demolition on 234-5Z will resume. After completing lower risk demolition outside of Remote Mechanical A (RMA), glovebox HA-46 will be removed during higher risk demolition.

MAJOR ISSUES

On December 15, 2017, contamination was found outside of the established Plutonium Finishing Plant (PFP) radiological boundaries. On December 18, 2017, follow-up radiological surveys found additional contamination present in the administrative office area. CHPRC is continuing to identify resumption requirements based on a finalized root cause analysis (RCA) and working with RL and regulators to develop a resumption plan to enable demolition activities to resume. This will allow for the removal of the final glovebox remaining in 234-5Z.

CORRECTIVE ACTION LOG

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

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

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

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

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

Increased Confidence
No Change
Decreased Confidence

Risk Title Risk Owner	Unmitigated Risk Impacts	Assessment		Comments
		Month	Trend	
RL-0011/WBS-011.05.01.01.06 (CAP.1)				
Explanation of major changes to the project monthly stoplight chart: No major changes to the stoplight chart in June.				
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 June.				
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 June.				
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)				
No critical risks identified for RL-0011/WBS-011.05.01.01.06 (CAP.1) in June.				
Unassigned Risks (Pending ownership of identified risks/opportunities)				
No unassigned risks identified for RL-0011/WBS-011.05.01.01.06 (CAP.1) in June.				

CRITICAL PATH SCHEDULE

The PFP Critical Path schedule begins with the continuation of resumption activities related to the December contamination event. After a scheduled mock-up and management assessment (MA) are completed, the project will obtain DOE concurrence for resumption of low-risk demolition activities. Debris disposition of the 234-5Z rubble piles will resume, starting with the frontside waste. Once the waste debris is loaded out, demolition will resume on the remaining sections of zones 2 and 7, with the exception of the drain line. Remote Mechanical C (RMC) process line and RMA process line demolition will begin after a second management assessment is completed and concurrence granted by DOE to resume higher-risk demolition activities. Working in parallel with RMA and RMC will be the completion of the basement of 234-5Z demolition and removal of HA-46. This leads to CD-4 declaration and confirmation of the completion worksheet. The CD-4 closeout completion milestone is scheduled for April 29, 2019.

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	04/29/19	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 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 order on demolition activities was declared and a critique was held to discuss the contamination spread, possible causes, and a path forward. An RCA has been conducted and resumption actions with expected completion dates have been identified. There was a 13-day loss since May as a result of corrective actions that were known at June month-end that have been incorporated into the resumption schedule to resume 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

CH2MHILL
Plateau Remediation Company

June 2018
CHPRC-2018-06, 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_C1 - PFP D&D (ARRA/Base)	a. FROM *(YYYYMMDD)* 2018 / 05 / 28
b. LOCATION (Address and ZIP Code) Richland, WA	b. NUMBER RL14788		b. PHASE	b. TO *(YYYYMMDD)* 2018 / 06 / 24
	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	344,886	340,865	344,886	

6. ESTIMATED COST AT COMPLETION	MANAGEMENT ESTIMATE AT COMPLETION (1)	CONTRACT BUDGET BASE (2)	VARIANCE (3)
a. BEST CASE	332,615		
b. WORST CASE	335,013		
c. MOST LIKELY	335,008	330,987	-4,021

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	-19	0	19	235,514	235,495	259,814	-19	-24,319	0	0	0	235,514	259,828	-24,313
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	-19	0	19	315,152	315,133	332,601	-19	-17,468	0	0	0	315,152	332,615	-17,463
f. MANAGEMENT RESERVE														2,393		
g. TOTAL	0	0	-19	0	19	315,152	315,133	332,601	-19	-17,468	0	0	0	317,545		

9. RECONCILIATION TO CONTRACT BUDGET BASELINE

a. VARIANCE ADJUSTMENT																
b. TOTAL CONTRACT VARIANCE									-19	-17,468				317,545	332,615	-15,070

*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)* 2018 / 05 / 28
b. LOCATION (Address and ZIP Code) Richland, WA	b. NUMBER RL14788		b. PHASE	b. TO *(YYYYMMDD)* 2018 / 06 / 24
	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							
ITEM (1)	WORK SCHEDULED (2)	WORK PERFORMED (3)	COST WORK PERFORMED (4)	SCHEDULE (5)	COST (6)	WORK SCHEDULED (7)	WORK PERFORMED (8)	COST WORK PERFORMED (9)	SCHEDULE (10)	COST (11)	COST VARIANCE (12a)	SCHEDULE VARIANCE (12b)	BUDGET (13)	BUDGETED (14)	ESTIMATED (15)	VARIANCE (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	-19	0	19	254,725	254,706	280,021	-19	-25,315	0	0	0	254,725	280,035	-25,310
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	-19	0	19	315,152	315,133	332,601	-19	-17,468	0	0	0	315,152	332,615	-17,463
f. MANAGEMENT RESERVE														2,393		
g. TOTAL	0	0	-19	0	19	315,152	315,133	332,601	-19	-17,468	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 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: b. PHASE c. EVMS ACCEPTANCE	RL_0011_C1 - PFP D&D (ARRA/Base) Plateau Remediation Contract NO YES X 9/18/2009	4. REPORT PERIOD a. FROM: 2018/05/28 b. TO: 2018/06/24

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)													
			SIX MONTH FORECAST													
ITEM	BCWS CUM TO DATE	BCWS FOR REPORT PERIOD	+1 Jul-18	+2 Aug-18	+3 Sep-18	+4 Oct-18	+5 Nov-18	+6 Dec-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)* 2018 / 04 / 23
b. LOCATION (Address and ZIP Code) Richland, WA	b. NUMBER RL14788		b. PHASE	b. TO *(YYYYMMDD)* 2018 / 05 / 27
	c. TYPE CPAF	d. SHARE RATIO	c. EVMS ACCEPTANCE NO: ; X YES *(YYYYMMDD)* 2009 / 09 / 18	

5. PERFORMANCE DATA

WBS.Resp Org Group ORGANIZATIONAL CATEGORY (1)	ACTUAL CURRENT PERIOD (2)	ACTUAL END OF CURRENT PERIOD *(Cumulative)* (3)	FORECAST *(Non-Cumulative)* SIX MONTH FORECAST BY MONTH *(Enter names of months)* +1 JUN 2018 (4)	+2 JUL 2018 (5)	+3 AUG 2018 (6)	+4 SEP 2018 (7)	+5 OCT 2018 (8)	+6 NOV 2018 (9)	ENTER SPECIFIED PERIODS 1st QTR FY19 (10)	2nd QTR FY19 (11)	3rd QTR 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	3	15445	0	0	0	0	0	0	0	1	0	0	0	15446
g. TOTAL DIRECT	3	15461	0	0	0	0	0	0	0	1	0	0	0	15463

-

CLASSIFICATION (When Filled In)

CONTRACT PERFORMANCE REPORT
FORMAT 5 - Explanations and Problem Analysis

FORM APPROVED
OMB No. 0704-0188

1. CONTRACTOR	2. CONTRACT		3. PROGRAM	4. REPORT PERIOD
a. NAME CH2M HILL Plateau Remediation Company	a. NAME Plateau Remediation Contract		a. NAME MPB - RL_0011_C1 - PFP D&D (ARRA/Base)	a. FROM (YYYYMMDD) 2018/05/28
b. LOCATION (Address and ZIP Code) Richland, WA	b. NUMBER RL14788		b. PHASE	b. TO (YYYYMMDD) 2018/06/24
	c. TYPE CPAF	d. SHARE RATIO	c. EVMS ACCEPTANCE No X Yes (YYYYMMDD) 2009 / 09 / 18	

Direct Projects

5. Evaluation	Budget	Earned	Actuals	SV in $	SV in %	CV in $	CV in %	SPI	CPI
Current:	0	0	-19	0	-	19	-	-	-
Cumulative:	315,152	315,133	332,601	-19	0.0%	-17,468	-5.5%	1.00	0.95
	BAC	**EAC**	**VAC in $**	**VAC in %**	**TCPI to BAC**	**TCPI to EAC**			
At Complete:	315,152	332,615	-17,463	-5.5%	-	1.37			

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 November 19, 2016. The current schedule now reflects a completion date of April 29, 2019. There was a 13 day loss since May as a result of corrective actions that were known at June month-end that have been incorporated into the current resumption schedule to resume demolition activities.

The current RL-11 performance schedule indicates that the PFP project will achieve slab-on-grade by April 25, 2019. 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 has been conducted and recovery actions and expected completion dates have been identified. Efficiencies have previously been identified in readying the 234-5Z facility for demolition where NDA and characterization data supported leaving more piping and ducting in place for demolition. In addition, efficiencies were recognized in 236-Z (PRF) where work was performed on filter boxes in parallel with the gallery gloveboxes. This allowed for acceleration of the start of 236-Z demolition. This 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 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 June.
3. Forecast Schedule with No Baseline: None in the month of June.
4. UB Balance: None in the month of June.
5. Negative ACWP: None in the month of June.
6. EAC Analysis: Best Case = $332,615; Most Likely = $335,008; Worst Case = $335,013. 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.
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 June.
9. Freeze Period Changes: None in the month of June.
10. Retroactive Changes: None in the month of June.
11. EVT Changes: None in the month of June.

Prepared by: Eric Denton **7/17/2018** **Approved by:** **Date:**

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

CH2MHILL
Plateau Remediation Company

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

June 2018
CHPRC-2018-06, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

On December 15, 2017, contamination was found outside of the established Plutonium Finishing Plant (PFP) radiological boundaries. On December 18, 2017, follow-up radiological surveys found additional contamination present in the administrative office area. Work was stopped after the second event, pending completion of a root cause analysis (RCA) and development of a resumption plan. CHPRC finalized the Root Cause Evaluation (RCE) in April and is working with RL and regulators to develop a plan to enable demolition activities to resume. Plutonium Reclamation Facility (PRF) debris, which had been loaded into super sacks prior to stopping work, was loaded out and adjustments to the work control zone and radiological buffer area (RBA) inside the work control zone are nearly complete. Once all resumption pre-start items are complete, the project will begin demolition debris loadout.

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

- Accomplishments to achieve stabilization following the December 2017 contamination event include:
  - Continued maintenance applications of fixative.
  - Routine radiological surveys.
  - Completed the expansion of the revised RBA.
  - Extra radiological surveys when sustained winds were 30 miles per hour or greater.
  - Decontaminated and released five government vehicles.
- Continued implementation of new demolition requirements associated with the December 2017 contamination event. Efforts include:
  - Completed PRF high Material At Risk (MAR) super sack loadout.
  - Completed retrieval of personal items from trailers within the new RBA.
  - Continued shipments of previously packaged waste.
  - Completed installation of hand and foot monitors.

MAJOR ISSUES

Issue:
On December 15, 2017, contamination was found outside of the established PFP radiological boundaries. On December 18, 2017, follow-up radiological surveys found additional contamination present in the administrative office area. CHPRC is continuing to identify resumption requirements based on a finalized RCA and working with RL and regulators to develop a plan to enable demolition activities to resume.

Corrective Action:
Work was stopped after the second event, pending completion of pre-start resumption activities. Material relocation, waste shipments, and loading of the PRF super sacks continues to support enhanced radiological postings and resumption of demolition activities.

Status:
CHPRC has identified resumption requirements based on finalized RCA, and is working with RL and regulators to implement resumption plans to enable demolition activities to resume.

- Some of the activities that were performed during June were:
  - Implementation of additional radiological monitoring (i.e., continuous air monitor (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 in the PFP work control zone.
  - Maintenance, repair, and rebuild of existing equipment and systems in a safe/compliant configuration.
  - Continued 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.).
  - Completed loadout of PRF super sack waste.
  - Continued retrieval of personal items from trailers within the new RBA.
  -

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	Unmitigated Risk Impacts	Assessment		Comments
		Month	Trend	
RL-0011/WBS-011.OA				
Explanation of major changes to the project monthly stoplight chart: No major changes to the stoplight chart in June.				
Realized Risks (Risks that are currently impacting project cost/schedule)				
PFP-P1-001: Deterioration of Super Sack's within the PFP Demolition Zone	The 21 super sack packaged items (17 strongbacks, two size-reduced glovebox bags, and two miscellaneous items) have deteriorated over the course of the past few months and need to be repacked or tarps installed prior to shipment to the Central Waste Complex (CWC). **Risk Handling Strategy:** Control **Probability:** Low (10% to 25%) **Worst Case Impacts:** $0, 20 days			**Risk Event:** During loadout of the super sacks, liquid was identified in four super sacks. The super sacks had degradation and through weather events and fixative application, liquid had accumulated in the sacks. **Risk recovery action(s)** / **FC Date** / **%** Initiate work package early in planning phase to install tarps. / Complete / 100% Procure non long-lead tarps in the event tarps are required. / Complete / 100% Procure pumps to remove liquid from super sacks / Complete / 100% **Risk Action Assessment:** Hand pumps were procured and the work package was revised to allow for pumping of liquid. This allowed for super sacks to be loaded into compliant shipping packages and resulted in minimal impact to super sack loadout schedule. All super sacks were loaded in June.
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)				
FY2018 Risk Triggers (Risk could be realized in FY2018)				
PFP-P-004: Stop Work From Concerned Workers	Concerned workers results in a stop work to address an off-normal or safety issues. The work cannot be restarted until the implementation of corrective actions is completed, resulting in schedule impacts to the project. **Risk Handling Strategy:** Accept **Risk Handling Strategy:** **Probability:** Very Likely (>90%) **Worst Case Impacts:** $0, 52 days			**Risk Event:** During resumption of PRF super sack loadout, a stop work was called from concerned workers on spotters for forklift operations. **Risk recovery action(s)** / **FC Date** / **%** Update communications as positions change. / Ongoing / N/A Provide new maps, with entry/exit instructions when boundaries are revised. / Ongoing / N/A Encourage additional worker involvement. / Ongoing / N/A Increase frequency of post-job reviews. / Ongoing / N/A **Risk Action Assessment:** A review was conducted to address worker concerns on qualified spotters. Management and the workforce discussed proper spotting qualifications and developed a path forward to ensure spotters were properly identified before returning to work. The stop work resulted in one lost day of progress for loading the super sack waste from PRF.
PFP-P-005: Unexpected Contamination Event within Established Boundaries	During operational activities (i.e. execution of characterization, monitoring, disposition of chemicals, and shipment) a loss of contamination control within the newly established boundary is experienced. **Risk Handling Strategy:** Control **Probability:** Low (10% to 25%) **Worst Case Impacts:** $0, 64 days			**Risk Event:** On May 19, 2018, low-level contamination was discovered during routine surveys. RCTs detected the contamination a few feet outside of the RBA south of 19th Street and Camden Avenue, but within the work control boundary. Since being detected, the sample decayed to 279 disintegrations per minute (dpm)/100 cm^2. The area is now controlled as a contamination area (CA), and additional surveys are planned. No workers were contaminated. **Risk recovery action(s)** / **FC Date** / **%** Conduct air modeling. / Ongoing / N/A Conduct large particle modeling. / Ongoing / N/A Analyze data and use it to establish new boundaries for PFP demolition zone. / Ongoing / N/A Establish and maintain new radiological boundaries / Ongoing / N/A **Risk Action Assessment:** The area was posted as a CA pending further investigation. With the contamination being discovered within the work control boundary, no workers were contaminated in this event. Applicable surveys were performed and work was not impacted.

PFP-P1-003: Weather Impacts During Stabilization, Waste Disposition, & Support	Inclement weather, including moderate winds, low or high temperatures, and thunderstorms will result in in-scope unplanned work and result in schedule impacts to the project. **Risk Handling Strategy:** Control **Probability:** Low (10% to 25%) **Worst Case Impacts:** $0, 24 days			**Risk Trigger:** When sustained wind speeds are greater than 20 mph or gusts are above 30 mph, work will be stopped pending radiological surveys to confirm no contamination has spread beyond established boundaries. **Mitigation action(s)** / **FC Date** / **%** Plan for 80% T.O.E. / Ongoing / N/A **Mitigation Assessment:** Wind has continued to impact progress on resumption activities at the expected rate. Surveys are being conducted more efficiently and are resulting in less time to recover from wind events, allowing work to resume sooner following an event.

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

No high threat risks identified in June.

Unassigned Risks (Pending ownership of identified risks/opportunities)

No unassigned risks identified in June.

<table>
<tr><th>Risk Title</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.OA</td></tr>
<tr><td colspan="5">Explanation of major changes to the project monthly stoplight chart:
No major changes to the stoplight chart in June.</td></tr>
<tr><td colspan="5">Realized Risks (Risks that are currently impacting project cost/schedule)</td></tr>
<tr><td>PFP-P1-001: Deterioration of Super Sack's within the PFP Demolition Zone</td><td>The 21 super sack packaged items (17 strongbacks, two size-reduced glovebox bags, and two miscellaneous items) have deteriorated over the course of the past few months and need to be repacked or tarps installed prior to shipment to the Central Waste Complex (CWC).

Risk Handling Strategy: Control

Probability: Low (10% to 25%)
Worst Case Impacts: $0, 20 days</td><td>  </td><td>  </td><td>Risk Event: During loadout of the super sacks, liquid was identified in four super sacks. The super sacks had degradation and through weather events and fixative application, liquid had accumulated in the sacks.

<table><tr><th>Risk recovery action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>Initiate work package early in planning phase to install tarps.</td><td>Complete</td><td>100%</td></tr><tr><td>Procure non long-lead tarps in the event tarps are required.</td><td>Complete</td><td>100%</td></tr><tr><td>Procure pumps to remove liquid from super sacks</td><td>Complete</td><td>100%</td></tr></table>
Risk Action Assessment: Hand pumps were procured and the work package was revised to allow for pumping of liquid. This allowed for super sacks to be loaded into compliant shipping packages and resulted in minimal impact to super sack loadout schedule. All super sacks were loaded in June.</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-P-004: Stop Work From Concerned Workers</td><td>Concerned workers results in a stop work to address an off-normal or safety issues. The work cannot be restarted until the implementation of corrective actions is completed, resulting in schedule impacts to the project.

Risk Handling Strategy: Accept
Risk Handling Strategy:

Probability: Very Likely (>90%)
Worst Case Impacts: $0, 52 days</td><td>  </td><td>  </td><td>Risk Event: During resumption of PRF super sack loadout, a stop work was called from concerned workers on spotters for forklift operations.

<table><tr><th>Risk recovery action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>Update communications as positions change.</td><td>Ongoing</td><td>N/A</td></tr><tr><td>Provide new maps, with entry/exit instructions when boundaries are revised.</td><td>Ongoing</td><td>N/A</td></tr><tr><td>Encourage additional worker involvement.</td><td>Ongoing</td><td>N/A</td></tr><tr><td>Increase frequency of post-job reviews.</td><td>Ongoing</td><td>N/A</td></tr></table>
Risk Action Assessment: A review was conducted to address worker concerns on qualified spotters. Management and the workforce discussed proper spotting qualifications and developed a path forward to ensure spotters were properly identified before returning to work. The stop work resulted in one lost day of progress for loading the super sack waste from PRF.</td></tr>
<tr><td>PFP-P-005: Unexpected Contamination Event within Established Boundaries</td><td>During operational activities (i.e. execution of characterization, monitoring, disposition of chemicals, and shipment) a loss of contamination control within the newly established boundary is experienced.

Risk Handling Strategy: Control

Probability: Low (10% to 25%)
Worst Case Impacts: $0, 64 days</td><td>  </td><td>  </td><td>Risk Event: On May 19, 2018, low-level contamination was discovered during routine surveys. RCTs detected the contamination a few feet outside of the RBA south of 19th Street and Camden Avenue, but within the work control boundary. Since being detected, the sample decayed to 279 disintegrations per minute (dpm)/100 cm^2. The area is now controlled as a contamination area (CA), and additional surveys are planned. No workers were contaminated.

<table><tr><th>Risk recovery action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>Conduct air modeling.</td><td>Ongoing</td><td>N/A</td></tr><tr><td>Conduct large particle modeling.</td><td>Ongoing</td><td>N/A</td></tr><tr><td>Analyze data and use it to establish new boundaries for PFP demolition zone.</td><td>Ongoing</td><td>N/A</td></tr><tr><td>Establish and maintain new radiological boundaries</td><td>Ongoing</td><td>N/A</td></tr></table>
Risk Action Assessment: The area was posted as a CA pending further investigation. With the contamination being discovered within the work control boundary, no workers were contaminated in this event. Applicable surveys were performed and work was not impacted.</td></tr>
</table>

PFP-P1-003: Weather Impacts During Stabilization, Waste Disposition, & Support	Inclement weather, including moderate winds, low or high temperatures, and thunderstorms will result in in-scope unplanned work and result in schedule impacts to the project. **Risk Handling Strategy:** Control **Probability:** Low (10% to 25%) **Worst Case Impacts:** $0, 24 days			**Risk Trigger:** When sustained wind speeds are greater than 20 mph or gusts are above 30 mph, work will be stopped pending radiological surveys to confirm no contamination has spread beyond established boundaries. **Mitigation action(s)** / **FC Date** / **%** Plan for 80% T.O.E. / Ongoing / N/A **Mitigation Assessment:** Wind has continued to impact progress on resumption activities at the expected rate. Surveys are being conducted more efficiently and are resulting in less time to recover from wind events, allowing work to resume sooner following an event.

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

No high threat risks identified in June.

Unassigned Risks (Pending ownership of identified risks/opportunities)

No unassigned risks identified in June.

CRITICAL PATH SCHEDULE

The PFP Critical Path schedule begins with the continuation of resumption activities related to the December contamination event. After a scheduled mock-up and management assessment (MA) are completed, the project will obtain DOE concurrence for resumption of low risk demo activities. Debris disposition of the 234-5Z rubble piles will resume, starting with the frontside waste. Once the waste debris is loaded out, demolition will resume on the remaining sections of zones 2 and 7, with the exception of the drain line. Remote Mechanical C (RMC) process line demolition, Remote Mechanical A (RMA) process line demolition and loadout of glovebox HA-46, in parallel will be completion of the basement of 234-5Z demolition will begin after a second MA and concurrence is obtained to resume high risk demo from DOE. The 234-5Z demolition is projected to complete February 26, 2019. The 236-Z canyon demolition will then resume with completion scheduled for April 25, 2019, 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 project closeout activities completing September 09, 2019. The CAP2 CD-4 closeout is scheduled for July 10, 2019.

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 of Demolition of all PFP Facilities.	8/31/18	07/10/19	Progress has been temporarily put on hold on PFP demolition activities. There was a 15-day loss of schedule for June. This was a result of incorporation of the revised demo approach from the contamination event that occurred on December 15, 2017. During 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 a path forward. An RCA has been conducted and resumption actions with expected completion dates have been 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

CH2MHILL

Plateau Remediation Company

June 2018
CHPRC-2018-06, 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)* 2018 / 05 / 28
b. LOCATION (Address and ZIP Code) Richland, WA	b. NUMBER RL14788		b. PHASE	b. TO *(YYYYMMDD)* 2018 / 06 / 24
	c. TYPE CPAF	d. SHARE RATIO	c. EVMS ACCEPTANCE NO: — X: 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	149,381	56,683	149,381	

6. ESTIMATED COST AT COMPLETION	MANAGEMENT ESTIMATE AT COMPLETION (1)	CONTRACT BUDGET BASE (2)	VARIANCE (3)
a. BEST CASE	140,946		
b. WORST CASE	144,381		
c. MOST LIKELY	144,381	51,683	-92,698

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_C2.05 Disposition PFP Facility	0	507	4,657	507	-4,149	55,307	42,327	78,278	-12,980	-35,950	0	0	0	55,307	140,946	-85,639
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	507	4,657	507	-4,149	55,307	42,327	78,278	-12,980	-35,950	0	0	0	55,307	140,946	-85,639
f. MANAGEMENT RESERVE														3,434		
g. TOTAL	0	507	4,657	507	-4,149	55,307	42,327	78,278	-12,980	-35,950	0	0	0	58,741		

9. RECONCILIATION TO CONTRACT BUDGET BASELINE

a. VARIANCE ADJUSTMENT																
b. TOTAL CONTRACT VARIANCE									-12,980	-35,950				58,741	140,946	-82,205

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)* 2018 / 05 / 28
b. LOCATION (Address and ZIP Code) Richland, WA	b. NUMBER RL14788		b. PHASE	b. TO *(YYYYMMDD)* 2018 / 06 / 24
	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					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)
3B - PFP Closure Project	0	507	4,657	507	-4,149	55,307	42,327	78,278	-12,980	-35,950	0	0	0	55,307	140,946	-85,639
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	507	4,657	507	-4,149	55,307	42,327	78,278	-12,980	-35,950	0	0	0	55,307	140,946	-85,639
f. MANAGEMENT RESERVE														3,434		
g. TOTAL	0	507	4,657	507	-4,149	55,307	42,327	78,278	-12,980	-35,950	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 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: b. PHASE c. EVMS ACCEPTANCE	RL_0011_C2 PFP Demolition Capital Asset Project Plateau Remediation Contract NO YES X 9/18/2009	4. REPORT PERIOD a. FROM: 2018/05/28 b. TO: 2018/06/24

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

ITEM	BCWS CUM TO DATE	BCWS FOR REPORT PERIOD	BUDGETED COST FOR WORK SCHEDULED (NON - CUMULATIVE) SIX MONTH FORECAST +1 Jul-18	+2 Aug-18	+3 Sep-18	+4 Oct-18	+5 Nov-18	+6 Dec-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																**3,434**
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)* 2018 / 05 / 28
b. LOCATION (Address and ZIP Code) Richland, WA	**b. NUMBER** RL14788		**b. PHASE**	**b. TO** *(YYYYMMDD)* 2018 / 06 / 24
	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 JUL 2018 (4)	+2 AUG 2018 (5)	+3 SEP 2018 (6)	+4 OCT 2018 (7)	+5 NOV 2018 (8)	+6 DEC 2018 (9)	ENTER SPECIFIED PERIODS 2nd QTR FY19 (10)	3rd QTR FY19 (11)	FY19 END (12)	FY19-LC (13)	ATCOMPLETE (14)	AT COMPLETION (15)
3B - PFP Closure Project	149	1817	148	146	151	152	152	152	446	411	45	0	0	3620
g. TOTAL DIRECT	149	1817	148	146	151	152	152	152	446	411	45	0	0	3620

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) 2018/05/28
b. LOCATION (Address and ZIP Code) Richland, WA	b. NUMBER RL14788		b. PHASE						b. TO (YYYYMMDD) 2018/06/24
	c. TYPE CPAF	d. SHARE RATIO	c. EVMS ACCEPTANCE No X Yes (YYYYMMDD) 2009 / 09 / 18						

Direct Projects

5. Evaluation	Budget	Earned	Actuals	SV in $	SV in %	CV in $	CV in %	SPI	CPI
Current:	0.0	507.3	4,656.7	507.3	-	-4,149.4	-817.9%	-	0.11
Cumulative:	55,306.9	42,327.2	78,277.5	-12,979.7	-23.5%	-35,950.4	-84.9%	0.77	0.54
	BAC	**EAC**	**VAC in $**	**VAC in %**	**TCPI to BAC**	**TCPI to EAC**			
At Complete:	55,306.9	140,946.2	-85,639.3	-154.8%	-	0.21			

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 resumption efforts from the contamination event that occurred on December 15, 2017. A root cause analysis has been finalized and corrective actions are being implemented 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 concerns over events both inside and outside of the facility.” The main issue involved employee proximity to radiological boundary areas during demolition. Radiological boundaries were reconfigured and impacted employees were relocated. As a result of delays in the ready for demolition activities, completion of the C2 CD-4 has been delayed. TPA milestone M-083-00A due 9/30/2017 was not met. 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. A contamination event occurred on Friday, December 15, 2017 swing shift when 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 has been conducted and recovery actions and expected completion dates are identified. This is partially offset with the removal of the 18 sections of the PRF gallery gloveboxes, progress on demolition of 236-Z, demolition of the 2727-Z and 2729-Z facilities, the 242-ZA and 242-Z facilities, the 291-Z facility, 291-Z stack, 234-5ZA, 252-Z1, 2503-Z, 2735Z, 2734ZA, ZB, ZC, ZD, and ZL facilities.

Cost Variance: The cumulative negative cost variance is associated with MSA resources arriving to support PFP demolition that were planned as P/Q shift support with a baseline start date of February 2016. 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. 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. 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 a contributing factor. Unplanned Management Assessment efforts for the 234-5Z and 291-Z facilities took longer than originally assumed. 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 concerns over events both inside and outside of the facility.” The main issue involved employee proximity to radiological boundary areas during demolition. Radiological boundaries were reconfigured and impacted employees were 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 where 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 has been conducted and resumption actions and expected completion dates are identified. This is partially offset by recognized efficiencies associated with the removal of the 18 sections of the PRF gallery gloveboxes, progress on demolition of 236-Z, demolition of the 2727-Z and 2729-Z facilities, the 242-ZA and 242-Z facilities, the 291-Z facility, 291-Z stack, 234-5ZA, 252-Z1, 2503-Z, 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. 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 2017 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 April 2019. The April date is reflective of the known actions and resumption efforts associated with a contamination event that occurred in December, 2017. 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 demolition of the PFP facilities. 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 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. 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 impacted 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.
CHPRC continues to identify resumption requirements based on a finalized RCA and working with RL and regulators to implement resumption plan to enable demolition activities to resume.
Some of the activities that were performed during June were:
o Implementation of additional radiological monitoring (i.e., continuous air monitor (CAMs), cookie sheets).
o Completed the expansion of the revised Radiological Buffer Area (RBA).
o Continued mobilization of supplies and equipment to maintain the PFP footprint in a safe configuration.
o Continued application of fixatives (i.e., paints, stabilization agents) to items and areas in the PFP work control zone.
o Maintenance, repair, and rebuild of existing equipment and systems in a safe/compliant configuration.
o Continued activities to reconfigure boundaries, canister transfer areas, loadout areas, and waste storage areas to accommodate a larger work control zone.
o Reconfiguration of equipment in the PFP work control zone to support stabilization activities (water systems, foggers, etc.).
o Completed PRF high Material At Risk (MAR) super sack loadout.
o Completed retrieval of personal items from trailers within the new RBA.
o Completed installation of hand and foot monitors.
Monthly Summary (to include technical causes of VARs, Impacts) and Corrective Action(s):
The following items are addressed, as applicable, per the EVMSIH:
1. Schedule Margin Analysis: In the EAC there is currently no remaining schedule margin in this capital asset account. Schedule margin was lost in February 2016 as a result of impacts from stop works associated with PremAire breathing air issues related to size reduction of the HA-9A glovebox and impacts from a safety pause associated with a PremAire Breathing Air radiological event resulting in increased survey requirements for PPE and a requirement for removing additional asbestos in the 234-5Z facility prior to demolition activities commencing.
2. IMS Data dictionary Changes: No change in the month of June
3. Forecast Schedule with No Baseline: No change in the month of June
4. UB Balance: No change in the month of June
5. Negative ACWP: No change in the month of June
6. EAC Analysis: Best Case = $140,946; Most Likely = $144,381; Worst Case = $144,381. 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.
7. Negative CV > VAC: No change in the month of June
8. MR Transactions: No change in the month of June
9. Freeze Period Changes: No change in the month of June
10. Retroactive Changes: No change in the month of June
11. EVT Changes: No change in the month of June

Prepared by: Eric Denton **Date: 07/18/18** **Approved by:** **Date:**

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

CH2MHILL
Plateau Remediation Company

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

June 2018
CHPRC-2018-06, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

The DOE Operational Readiness Review (ORR) was completed on April 17, 2018. After successful closeout of pre-start findings and corrective actions, request for DOE approval of critical decision (CD)-4 for the C.1-1, Sludge Retrieval Project Line Item 15-D-401 was submitted to DOE, on May 10, 2018. CD-4 Approve Start of Operations, was approved on June 4, 2018. Sludge removal began on June 12, 2018, completing (M-016-175). Sludge Transport & Storage Container (STSC) 1 is scheduled to be disconnected and prepped for shipment on June 25, 2018 and the first shipment of sludge placed in a T-Plant cell is forecast to complete on June 27, 2018 (PM-12-2-18).

Project breakdown structure (PBS) RL-0012 scope is 98.3 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

- RL transmitted approval of CD-4, Approval Start of Operations, to CHPRC on June 4, 2018.
- Sludge removal began on June 12, 2018, completing Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) Milestone M-016-175.
- The filling of the first STSC with sludge (from Engineered Container 210) was completed on June 22, 2018. Disconnect and preparation for shipment to T Plant is forecast to complete on June 25, 2018.

MAJOR ISSUES

Issue:

CHPRC is planning to complete the first shipment of sludge from 105KW Basin to T Plant on June 27, 2018, which would achieve performance measure PM-12-2-18 (June 30, 2018). Given the minimal remaining float, CHPRC management is monitoring both the cost and schedule associated with this work.

Corrective Action:

CHPRC completed the contractor ORR in March. The DOE ORR was completed in April. CHPRC submitted the request for authorization to startup letter and RL transmitted the approved Request for Startup on May 22, 2018.

Status:

Issue closed. Sludge retrieval began on June 12, 2018 and the performance measure is forecast to complete on June 27, 2018.

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: Risk STP-154, *ORR Results in Delays to the Project*, was closed per authorization for startup from DOE, and was removed from the stoplight.				
Realized Risks (Risks that are currently impacting project cost/schedule)				
No realized risks identified in June.				
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)				
No critical risks identified in June.				
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 June.				
Unassigned Risks (Pending ownership of identified threats/opportunities)				
No unassigned risks identified in June.				

CRITICAL PATH SCHEDULE

The project critical path schedule runs through STSC 1, completion of retrieval operations, including the filling of STSCs with sludge, transporting to T Plant, and placement of STSC 1 in T Plant cell completing PM-12-2-18. Tri-Party Agreement milestone M-016-176, Complete Sludge Removal from 105KW Fuels Storage Basin, is required by December 2019.

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	11/30/19	5/22/18 (A)	The forecast date includes a schedule margin from the project's risk analysis.

*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

None currently identified.

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

CH2MHILL
Plateau Remediation Company

June 2018
CHPRC-2018-06, 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)* 2018 / 05 / 28
b. LOCATION (Address and ZIP Code) Richland, WA	b. NUMBER RL14788		b. PHASE	b. TO *(YYYYMMDD)* 2018 / 06 / 24
	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	296,931	303,823	296,931	

6. ESTIMATED COST AT COMPLETION

	MANAGEMENT ESTIMATE AT COMPLETION (1)	CONTRACT BUDGET BASE (2)	VARIANCE (3)
a. BEST CASE	283,559		
b. WORST CASE	288,981		
c. MOST LIKELY	288,981	295,873	6,892

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 (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-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	0	0	103	0	-103	133,421	133,421	126,773	0	6,647	0	0	0	133,421	126,773	6,647
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	103	0	-103	290,282	290,282	283,559	0	6,722	0	0	0	290,282	283,559	6,722
f. MANAGEMENT RESERVE														5,421		
g. TOTAL	0	0	103	0	-103	290,282	290,282	283,559	0	6,722	0	0	0	295,703		

9. RECONCILIATION TO CONTRACT BUDGET BASELINE

a. VARIANCE ADJUSTMENT																
b. TOTAL CONTRACT VARIANCE									0	6,722				295,703	283,559	12,144

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)* 2018 / 05 / 28
b. LOCATION (Address and ZIP Code) Richland, WA	b. NUMBER RL14788		b. PHASE	b. TO *(YYYYMMDD)* 2018 / 06 / 24
	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							
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)
3G - K Basin Oper & Plateau Remediation Project	0	0	103	0	-103	290,282	290,282	283,559	0	6,722	0	0	0	290,282	283,559	6,722
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	103	0	-103	290,282	290,282	283,559	0	6,722	0	0	0	290,282	283,559	6,722
f. MANAGEMENT RESERVE														5,421		
g. TOTAL	0	0	103	0	-103	290,282	290,282	283,559	0	6,722	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 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 RL_0012_15_D_401 KW Basin Sludge Removal Project a. NAME: Plateau Remediation Contract b. PHASE c. EVMS ACCEPTANCE NO YES X 9/18/2009	4. REPORT PERIOD a. FROM: 2018/05/28 b. TO: 2018/06/24

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

ITEM	BCWS CUM TO DATE	BCWS FOR REPORT PERIOD	BUDGETED COST FOR WORK SCHEDULED (NON - CUMULATIVE) SIX MONTH FORECAST +1 Jul-18	+2 Aug-18	+3 Sep-18	+4 Oct-18	+5 Nov-18	+6 Dec-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)	**290,282**	**0**	**0**	**0**	**0**	**0**	**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)	**290,282**	**0**	**0**	**0**	**0**	**0**	**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)* 2018 / 05 / 28
b. LOCATION (Address and ZIP Code) Richland, WA	b. NUMBER RL14788		b. PHASE	b. TO *(YYYYMMDD)* 2018 / 06 / 24
	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 JUL 2018 (4)	+2 AUG 2018 (5)	+3 SEP 2018 (6)	+4 OCT 2018 (7)	+5 NOV 2018 (8)	+6 DEC 2018 (9)	ENTER SPECIFIED PERIODS 2nd QTR FY19 (10)	3rd QTR FY19 (11)	FY19 END (12)	FY19-LC (13)	ATCOMPLETE (14)	AT COMPLETION (15)
3G - K Basin Oper & Plateau Remediation Project	10	7640	0	0	0	0	0	0	0	0	0	0	0	7640
g. TOTAL DIRECT	10	7640	0	0	0	0	0	0	0	0	0	0	0	7640

-

CLASSIFICATION (When Filled In)

CONTRACT PERFORMANCE REPORT
FORMAT 5 - Explanations and Problem Analysis

FORM APPROVED
OMB No. 0704-0188

1. CONTRACTOR	2. CONTRACT		3. PROGRAM	4. REPORT PERIOD
a. NAME CH2M HILL Plateau Remediation Company	**a. NAME** Plateau Remediation Contract		**a. NAME** 012- RL-12 SNF Stabilization and Disposition	**a. FROM (YYYYMMDD)** 2018/05/28
b. LOCATION (Address and ZIP Code) Richland, WA	**b. NUMBER** RL14788		**b. PHASE**	**b. TO (YYYYMMDD)** 2018/06/24
	c. TYPE CPAF	**d. SHARE RATIO**	**c. EVMS ACCEPTANCE** No X Yes (YYYYMMDD) 2009 / 09 / 18	

5. Evaluation

Direct Projects

	Budget	Earned	Actuals	SV in $	SV in %	CV in $	CV in %	SPI	CPI
Current:	0.0	0.0	102.8	0.0	-	-102.8	-	-	0.00
Cumulative:	290,281.7	290,281.7	283,555.2	0.0	0.0%	6,726.5	2.3%	1.00	1.02
	BAC	**EAC**	**VAC in $**	**VAC in %**	**TCPI to BAC**	**TCPI to EAC**			
At Complete:	290,281.7	283,555.2	6,726.5	2.3%	0.00	-			

Explanation of Variance/Description of Problem:
Current Period:
Schedule Variance: Within Threshold.

Cost Variance: Within Threshold.

Cumulative To Date:

Schedule Variance: Within Threshold.

Cost Variance: Within Threshold.

Impact:
Schedule Impact: Within Threshold

Cost Impact: Within Threshold

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: None in the month of June.
2. IMS Data dictionary Changes: None in the month of June.
3. Forecast Schedule with No Baseline: None in the month of June.
4. UB Balance: None in the month of June.
5. Negative ACWP: 012.17.01.01 due to cost transfers associated with oversight of fabrications associated with other Projects.
6. EAC Analysis: Best Case = $283.6M; Most likely = $283.6M; Worst Case =$283.6M. 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. The Project is complete as of June month end, therefore Best Case, Most Likely, and Worst Case EACs are equal.
7. Negative CV > VAC: None in the month of June.
8. MR Transactions: None in the month of June.
9. Freeze Period Changes: None in the month of June.
10. Retroactive Changes: None in the month of June.
11. EVT Changes: None in the month of June.

Prepared by: R. Lehman **Date: 07/24/18** **Approved by:** **Date:**

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

CH2MHILL
Plateau Remediation Company

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

June 2018
CHPRC-2018-06, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

Workers at the 618-10 Burial Ground Complex completed demobilization activities in June.

KEY ACCOMPLISHMENTS

618-10 Burial Ground Cleanup Verification Package

- Waste Site Reclassification Form for the 618-10 Burial Ground was signed by RL and Environmental Protection Agency (EPA) on June 18, 2018.

618-10 Burial Ground Complex Demobilization

- Crews completed all CHPRC field work for demobilization at the 618-10 Burial Ground Complex. The infrastructure demobilization schedule will remain incomplete due to the MSA electrical utilities delay in removing the power poles running out to the 400 Area.

River Corridor Contract Critical Decision (CD)-4, Project Completion, and Documentation

- Completed comment resolution on the CD-4 closeout package and checklist.
- Transition Turnover Package (TTP) has been signed; awaiting issued closeout verification package (CVP).

MAJOR ISSUES

Issue

The completion date for infrastructure demobilization has been pushed to September 2018 due to a delay with Mission Support Alliance, LLC (MSA) in removing the power poles going out from the 618-10 Burial Ground complex to the 400 Area. MSA is required to have an ecological/cultural review done before they can perform the work. MSA estimates that they will be able to start work on the remaining scope in July. However, due to the risk of fire season, 618-10 Burial Ground management is forecasting that the work will not be able to be completed until the end of the fiscal year (FY).

Corrective Action

The 618-10 Burial Ground management is communicating with MSA to minimize any additional impacts to cost or schedule over what has already been forecasted.

Status

The 618-10 Burial Ground management has verified that MSA will not need any CHPRC personnel on site when they are able to complete the work. As a result, the 618-10 Burial Ground project completed ramp-down of staff and continues closeout of other contracts.

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: No major changes in June.				
Realized Risks (Risks that are currently impacting project cost/schedule)				
No realized risks identified in June.				
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)				
No critical risks identified in June.				
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 June.				

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	64.5	67.5	46.3	3.0	4.7%	21.2	31.4%	68.9	47.2	0.9	21.7

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 power pole removal and CD-4 activities.

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	Actual Date	Forecast Date	Status/ Comment
KPP 1	Complete the 618-10 Burial Ground Remediation	1/31/2020		7/3/2018	Completion Criteria: Complete remediation, closeout sampling, issuing the CVP, 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	1/25/2018 (A)		The 316-4 Waste Site CVP was issued on January 25, 2018, completing requirements of KPP 2.
	CD-4 Closeout	1/31/2020		9/30/2018	

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None to report at this time.

DOE ACTIONS / DECISIONS

None to report at this time.

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

CH2MHILL

Plateau Remediation Company

June 2018
CHPRC-2018-06, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

CLASSIFICATION (When Filled In)

CONTRACT PERFORMANCE REPORT
FORMAT 1 - WORK BREAKDOWN STRUCTURE

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

1. CONTRACTOR	2. CONTRACT	3. PROGRAM	4. REPORT PERIOD
a. NAME CH2M HILL Plateau Remediation Company	a. NAME PARS II - RL-0041.C1 Base Funded Nuc Fac D&D River Corr	a. NAME PARS II - RL-0041.C1 Base Funded Nuc Fact D&D River Corr	a. FROM *(YYYYMMDD)* 2018 / 05 / 28
b. LOCATION (Address and ZIP Code) Richland, WA	b. NUMBER RL14788	b. PHASE	b. TO *(YYYYMMDD)* 2018 / 06 / 24
	c. TYPE CPAF / d. SHARE RATIO	c. EVMS ACCEPTANCE 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	47,227	0	47,227	

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	47,227		
b. WORST CASE	47,826		
c. MOST LIKELY	47,227	0	-47,227

8. PERFORMANCE DATA

CAPN.PBS / Control Account.PARS 2 WBS (3) / 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-0041 Nuc Fac D&D - RC Closure Proj																
RL_0041_C1.05.02 618-10 Burial Ground	1,242	1,321	323	79	998	51,592	54,602	41,571	3,010	13,031	0	0	0	56,014	42,477	13,538
RL_0041_C1.05.03 316-4 Waste Site	0	0	0	0	0	11,183	11,183	4,259	0	6,924	0	0	0	11,183	4,259	6,924
RL_0041_C1.05.04 600-63 Waste Site	0	0	0	0	0	1,611	1,611	445	0	1,167	0	0	0	1,611	445	1,167
RL_0041_C1.05.06 RCC CD 4 Closeout and Doc	12	12	6	0	6	70	70	14	0	56	0	0	0	112	46	66
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	1,254	1,333	329	79	1,004	64,455	67,466	46,289	3,010	21,177	0	0	0	68,921	47,227	21,694
f. MANAGEMENT RESERVE														0		
g. TOTAL	1,254	1,333	329	79	1,004	64,455	67,466	46,289	3,010	21,177	0	0	0	68,921		

9. RECONCILIATION TO CONTRACT BUDGET BASELINE

a. VARIANCE ADJUSTMENT																
b. TOTAL CONTRACT VARIANCE									3,010	21,177				68,921	47,227	21,694

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)* 2018 / 05 / 28
b. LOCATION (Address and ZIP Code) Richland, WA	b. NUMBER RL14788		b. PHASE	b. TO *(YYYYMMDD)* 2018 / 06 / 24
	c. TYPE CPAF	d. SHARE RATIO	c. EVMS ACCEPTANCE NO: ; X YES *(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	1,242	1,321	323	79	998	51,592	54,602	41,571	3,010	13,031	0	0	0	56,014	42,477	13,538
RL_0041_C1.05.03 316-4 Waste Site	0	0	0	0	0	11,183	11,183	4,259	0	6,924	0	0	0	11,183	4,259	6,924
RL_0041_C1.05.04 600-63 Waste Site	0	0	0	0	0	1,611	1,611	445	0	1,167	0	0	0	1,611	445	1,167
RL_0041_C1.05.06 RCC CD 4 Closeout and Documenta	12	12	6	0	6	70	70	14	0	56	0	0	0	112	46	66
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)*	1,254	1,333	329	79	1,004	64,455	67,466	46,289	3,010	21,177	0	0	0	68,921	47,227	21,694
f. MANAGEMENT RESERVE														0		

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: PARS II - RL-0041.C1 Base Funded Nuc Fact D&D River Corr Plateau Remediation Contract b. PHASE c. EVMS ACCEPTANCE NO YES X 9/18/2009	4. REPORT PERIOD a. FROM: 2018/05/28 b. TO: 2018/06/24	

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 Jul-18	+2 Aug-18	+3 Sep-18	+4 Oct-18	+5 Nov-18	+6 Dec-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)	**63,201**	**1,254**	**1,579**	**2,102**	**785**	**0**	**0**	**0**	**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)	**64,455**	**1,254**	**1,579**	**2,102**	**785**	**0**	**0**	**0**	**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)* 2018 / 05 / 28
b. LOCATION (Address and ZIP Code) Richland, WA	b. NUMBER RL14788		b. PHASE	b. TO *(YYYYMMDD)* 2018 / 06 / 24
	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 JUL 2018 (4)	+2 AUG 2018 (5)	+3 SEP 2018 (6)	+4 OCT 2018 (7)	+5 NOV 2018 (8)	+6 DEC 2018 (9)	ENTER SPECIFIED PERIODS 2nd QTR FY19 (10)	3rd QTR FY19 (11)	FY19 END (12)	FY19-LC (13)	ATCOMPLETE (14)	AT COMPLETION (15)
041.6 - 618 10 Projects														
RL_0041_C1.05.02 618-10 Burial Ground	9	1236	5	4	4	0	0	0	0	0	0	0	0	1249
RL_0041_C1.05.03 316-4 Waste Site	0	69	0	0	0	0	0	0	0	0	0	0	0	69
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	9	1319	5	4	4	0	0	0	0	0	0	0	0	1332

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) 2018 / 05 / 28
b. LOCATION (Address and ZIP Code) Richland, WA	b. NUMBER RL14788		b. PHASE	b. TO (YYYYMMDD) 2018 / 06 / 24
	c. TYPE CPAF	d. SHARE RATIO	c. EVMS ACCEPTANCE No X Yes (YYYYMMDD) 2009 / 09 / 18	

5. Evaluation

Direct Projects

	Budget	Earned	Actuals	SV in $	SV in %	CV in $	CV in %	SPI	CPI
Current:	1,253.9	1,333.0	329.3	79.1	6.3%	1,003.7	75.3%	1.06	4.05
Cumulative:	64,455.3	67,465.5	46,288.6	3,010.2	4.7%	21,176.9	31.4%	1.05	1.46
	BAC	**EAC**	**VAC in $**	**VAC in %**	**TCPI to BAC**	**TCPI to EAC**			
At Complete:	68,920.9	47,226.7	21,694.2	31.5%	0.06	1.55			

Explanation of Variance/Description of Problem:

CURRENT MONTH
The current month schedule variance is within reporting thresholds.
The current month cost variance is partially due to resource sharing and staff attrition that resulted in a reduction in staffing, as well as project efficiencies in re-sequencing activities to finish most infrastructure demobilization activities ahead of schedule with no additional resources.

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 as planned 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 as planned 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 June.
3. Forecast Schedule with No Baseline: None in the month of June.
4. UB Balance: N/A
5. Negative ACWP: None in the month of June.
6. EAC Analysis: Best Case: $47.2M; Most Likely: $47.2M; Worst Case: $47.8M. 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.
7. Negative CV > VAC: N/A
8. MR Transactions: None in the month of June.
9. Freeze Period Changes: None in the month of June.
10. Retroactive Changes: None in the month of June.