CHPRC-2016-06
Revision 0

Monthly Performance Report

June 2016

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

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

P.O. Box 1600
Richland, Washington 99352

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Monthly Performance Report

J. A. Ciucci
President and Chief Executive Officer

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

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CHPRC-2016-06, Revision 0

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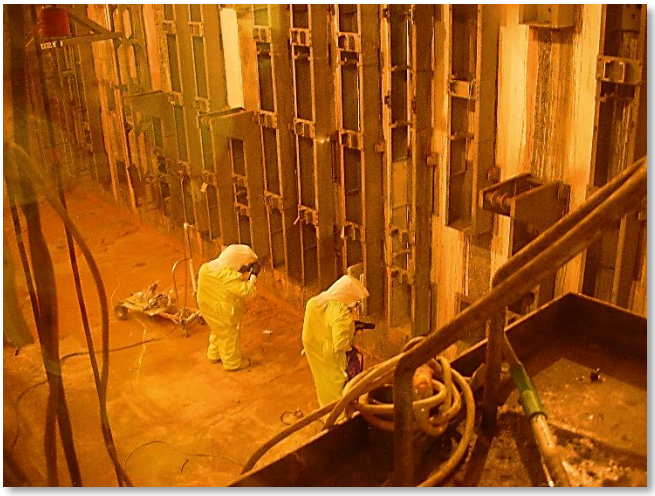
PROJECT BASELINE SUMMARY SECTIONS

APPENDICES

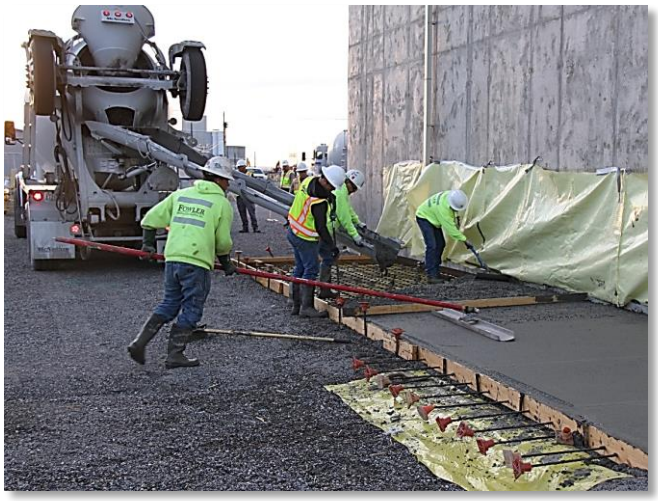
EXECUTIVE SUMMARY

CH2M HILL Plateau Remediation Company advanced cleanup throughout the Hanford Site during the month of June. Major accomplishments included:

- The Plutonium Finishing Plant (PFP) Closure Project demolished the 225-WC building, a no longer-used wastewater sampling facility that once supported PFP, and continued decontamination of the Plutonium Reclamation Facility (PRF).
- The Waste and Fuels Management Project (W&FMP) completed the initial core drilling into the hot pipe trench at the Waste Encapsulation and Storage Facility (WESF) in order to investigate communication between the hot pipe trench and B Plant in preparation for grouting.
- The Soil and Groundwater Remediation Project (S&GRP) completed drilling and final acceptance of six remedy performance wells on June 22, 2016, in the 100-FR-3 Operable Unit (OU), and initiated well installation for three of six new monitoring wells in the 100-NR-2 OU.
- The K Basin Operations and Plateau Remediation (KBO&PR) Project completed the placement and saw cutting of the concrete nitrogen pad and began curing.



Workers at the PFP continued decontaminating the PRF.



Workers level concrete for the nitrogen pad at the K West Annex.

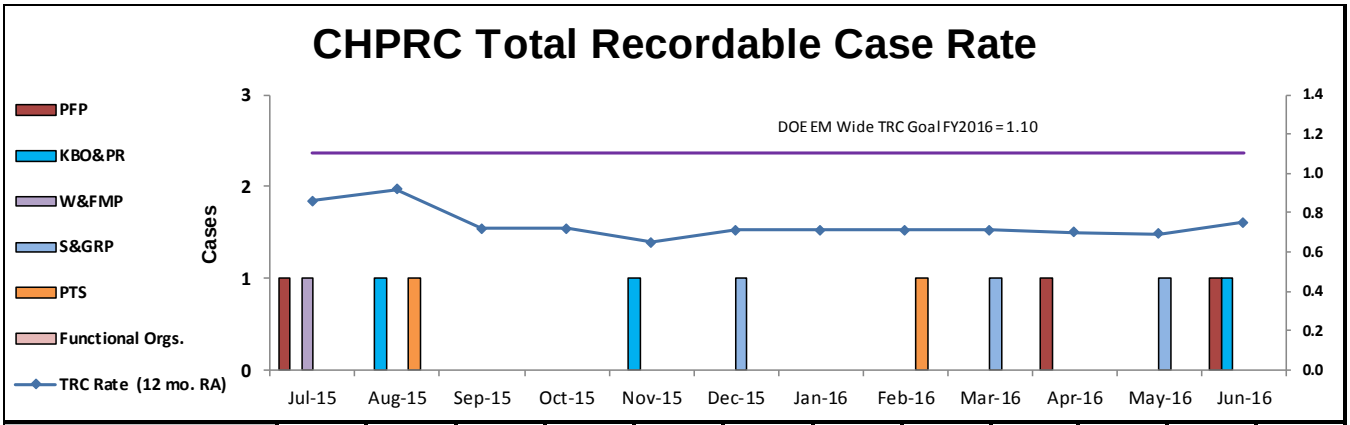
- The June 2016 President's Zero Accident Council (PZAC) meeting was held on June 8, 2016, and hosted by S&GRP. The three main ideas were: Confined Space--know your entry limitations and procedure requirements; Electrical Safety--Know what is important to ensure you go home safely at night; and Site Fire Information--Know the ins and outs of keeping fire hazards to a minimum this season.
  - Four "*Thinking Target Zero*" (TTZ) bulletins were published in June to convey important occupational, safety, health, and environmental messages:
    - Heat Stress Safety.
    - Cooking Outdoors.
    - 2016 VPPPA Region X Conference.
    - Water Safety.
  - June *Weekly Safety Tailgate* briefing packages communicated relevant topics and safety information to the workforce:
    - Four Lessons Learned: 1) Savannah River Remediation -- Equipment Operator slips; 2) CHPRC -- catastrophic failure of a hand held test meter occurred when the equipment being tested was energized; 3) Los Alamos National Laboratory -- Recognize and respond to changed conditions; and 4) Idaho National Laboratory -- attachment to drill socket causes severe finger trauma.
    - Weekly Ethics Moments.
    - Reporting Injuries.
    - Hazardous Waste Recycling.
    - June is National Safety Month: Stand Ready to Respond, Be Healthy, Watch Out for Dangers, and Share the Roads Safely.
    - Fall Protection.
    - Eye safety reminder.
    - Summer safety – hot objects.
    - Annual Environmental Management System Assessment.
    - Electrical Safety Reminder.
    - Surge Protector Recall.
    - Holiday Safety Focus.
    - Electric Shock Drowning.
    - Pedestrian Safety Reminder.
  - The June Kudos Corner recognized individuals and teams who made a significant contribution to safety at work, home or play:
    - Kudos to the W&FMP team for working another 90 days without a recordable injury. This is the third consecutive 90-day period W&FMP employees worked safely, for a total of 270 days.
    - Kudos to two S&GRP workers for creating a Safety Data Sheet (SDS) system. The system is a process improvement to safety because it consolidates SDS information for all S&GRP chemicals and makes it easier for employees to access chemical information.
    - Kudos to Project Technical Service (PTS) worker who recognized a noncompliant condition while at 142-K. The worker was reviewing a photo of the installed smoke detector and

identified that a junction box behind the smoke detector did not have the required cover. The worker contacted the project, and they were able to promptly correct the issue.

- Kudos to the PFP employees, and employees from other CHPRC projects, for their safe response to a false criticality alarm at PFP. The immediate response was excellent, and the follow-up response that day and throughout the weekend helped the project recover from this event.

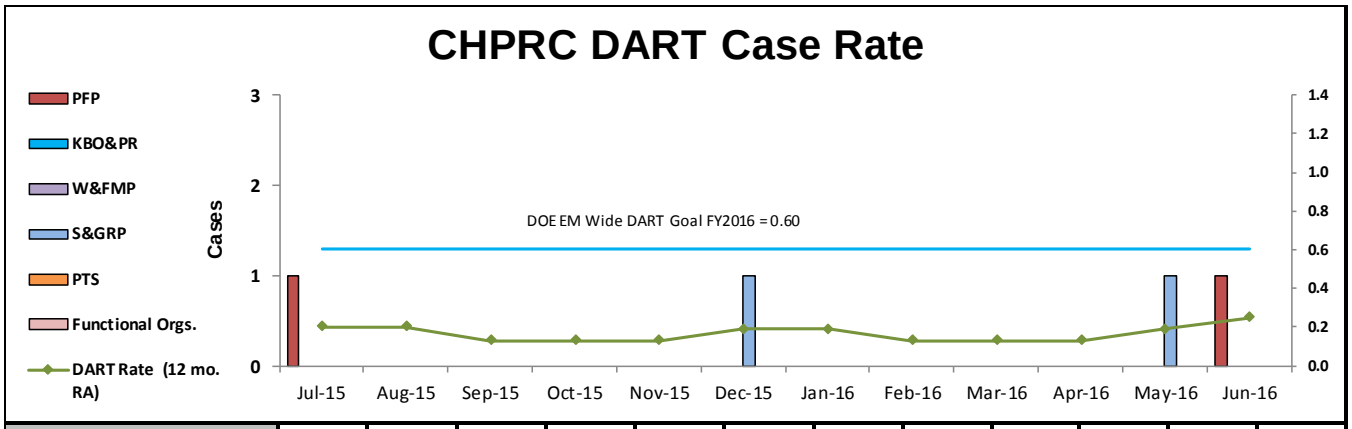
TARGET ZERO PERFORMANCE

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



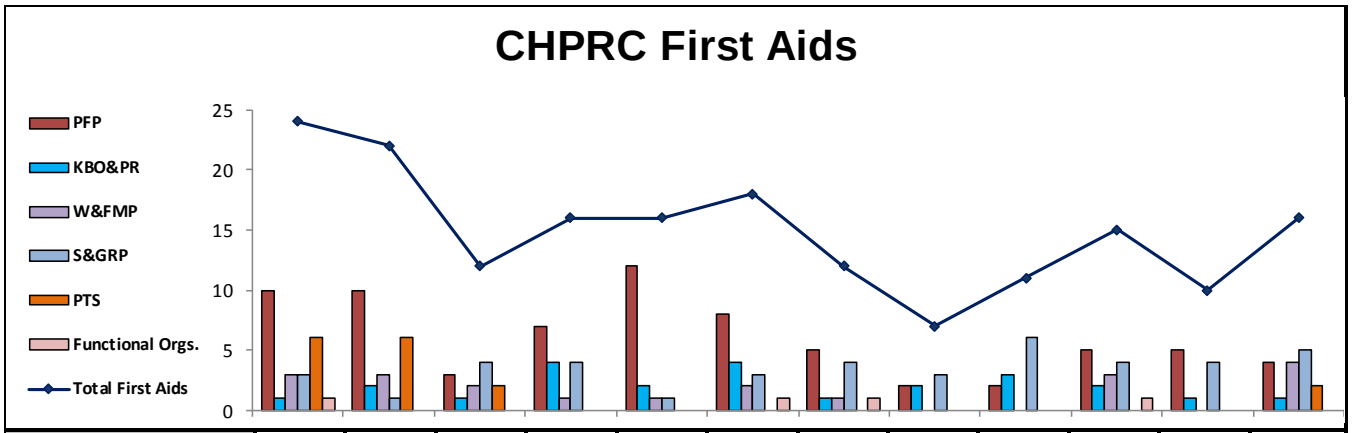
	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16
PFP	1	0	0	0	0	0	0	0	0	1	0	1
KBO&PR	0	1	0	0	1	0	0	0	0	0	0	1
W&FMP	1	0	0	0	0	0	0	0	0	0	0	0
S&GRP	0	0	0	0	0	1	0	0	1	0	1	0
PTS	0	1	0	0	0	0	0	1	0	0	0	0
Functional Orgs.	0	0	0	0	0	0	0	0	0	0	0	0
Recordable Cases	**2**	**2**	**0**	**0**	**1**	**1**	**0**	**1**	**1**	**1**	**1**	**2**
TRC Rate (12 mo. RA)	**0.86**	**0.92**	**0.72**	**0.72**	**0.65**	**0.71**	**0.71**	**0.71**	**0.71**	**0.70**	**0.69**	**0.75**

Total Recordable Injury Case (TRC) Rate: The 12-month rolling average TRC rate of 0.75 is based on a total of twelve Recordable injuries. There were two Recordable cases for June.



	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16
PFP	1	0	0	0	0	0	0	0	0	0	0	1
KBO&PR	0	0	0	0	0	0	0	0	0	0	0	0
W&FMP	0	0	0	0	0	0	0	0	0	0	0	0
S&GRP	0	0	0	0	0	1	0	0	0	0	1	0
PTS	0	0	0	0	0	0	0	0	0	0	0	0
Functional Orgs.	0	0	0	0	0	0	0	0	0	0	0	0
DART Cases	**1**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**1**	**1**
DART Rate (12 mo. RA)	**0.20**	**0.20**	**0.13**	**0.13**	**0.13**	**0.19**	**0.19**	**0.13**	**0.13**	**0.13**	**0.19**	**0.25**

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



	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16
PFP	10	10	3	7	12	8	5	2	2	5	5	4
KBO&PR	1	2	1	4	2	4	1	2	3	2	1	1
W&FMP	3	3	2	1	1	2	1	0	0	3	0	4
S&GRP	3	1	4	4	1	3	4	3	6	4	4	5
PTS	6	6	2	0	0	0	0	0	0	0	0	2
Functional Orgs.	1	0	0	0	0	1	1	0	0	1	0	0
Total First Aids	**24**	**22**	**12**	**16**	**16**	**18**	**12**	**7**	**11**	**15**	**10**	**16**

First Aid Case Summary: CHPRC reported 16 first aid cases in June. The contributors were five abrasions/bruises/contusions, five sprains/strains/pains, four miscellaneous (burns, rashes, repetitive motion, etc.) and two insect bites.

KEY ACCOMPLISHMENTS

Projects

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

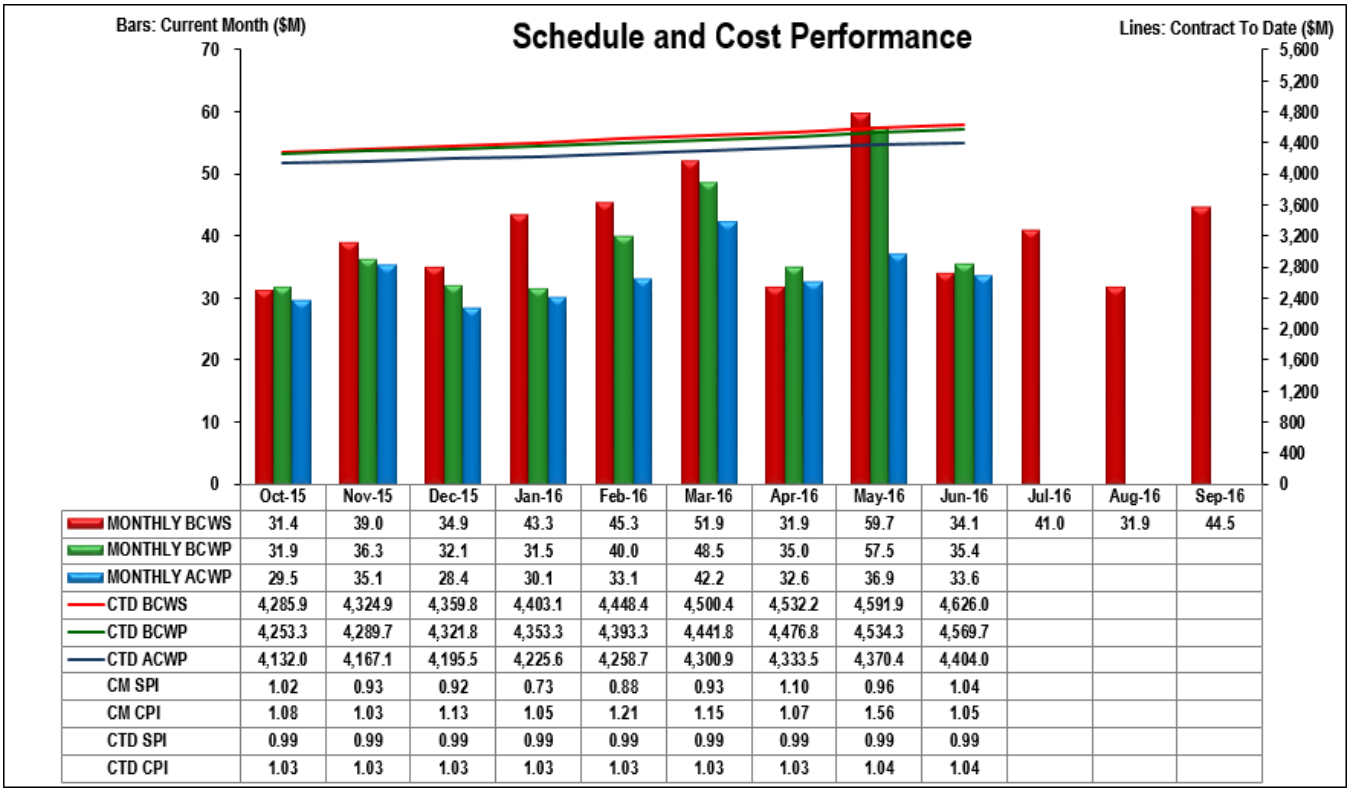
Project Services and Support

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

MAJOR ISSUES

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

EARNED VALUE MANAGEMENT



	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16
MONTHLY BCWS	31.4	39.0	34.9	43.3	45.3	51.9	31.9	59.7	34.1	41.0	31.9	44.5
MONTHLY BCWP	31.9	36.3	32.1	31.5	40.0	48.5	35.0	57.5	35.4			
MONTHLY ACWP	29.5	35.1	28.4	30.1	33.1	42.2	32.6	36.9	33.6			
CTD BCWS	4,285.9	4,324.9	4,359.8	4,403.1	4,448.4	4,500.4	4,532.2	4,591.9	4,626.0			
CTD BCWP	4,253.3	4,289.7	4,321.8	4,353.3	4,393.3	4,441.8	4,476.8	4,534.3	4,569.7			
CTD ACWP	4,132.0	4,167.1	4,195.5	4,225.6	4,258.7	4,300.9	4,333.5	4,370.4	4,404.0			
CM SPI	1.02	0.93	0.92	0.73	0.88	0.93	1.10	0.96	1.04			
CM CPI	1.08	1.03	1.13	1.05	1.21	1.15	1.07	1.56	1.05			
CTD SPI	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99			
CTD CPI	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.04	1.04			

	$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	7.0	6.0	8.5	(1.0)	(2.4)	945.1	896.7	913.6	(48.4)	(17.0)	978.9	1,036.1	(57.2)
RL-0012 - SNF Stabilization & Disposition	6.2	5.8	4.3	(0.4)	1.5	598.1	600.8	577.9	2.7	22.9	738.4	714.0	24.4
RL-0013 - Solid Waste Stab & Disposition	6.1	6.6	6.9	0.5	(0.3)	1059.5	1058.8	994.2	(0.6)	64.7	1,333.1	1,277.2	55.9
RL-0030 - Soil & Water Rem-Grndwtr/Vadose	11.1	12.0	9.3	0.9	2.7	1251.4	1237.4	1209.0	(14.0)	28.4	1,564.8	1,505.7	59.1
RL-0040 - Nuc Fac D&D - Remainder	1.7	1.5	1.7	(0.2)	(0.2)	418.2	414.8	383.6	(3.5)	31.2	469.1	446.7	22.4
RL-0041 - Nuc Fac D&D - RC Closure Project	1.8	3.3	2.7	1.5	0.6	332.1	339.7	308.1	7.6	31.6	408.2	364.1	44.1
RL-0042 - Nuc Fac D&D - FFTF Project	0.2	0.2	0.1	(0.0)	0.0	21.6	21.6	17.6	0.0	4.0	26.5	22.8	3.7
(Values are rounded to the nearest $0.1M) Total	34.1	35.4	33.6	1.3	1.8	4,626.0	4,569.7	4,404.0	(56.2)	165.7	5,519.2	5,366.7	152.5
(Values do not have UB breakout)													

Performance Summary

CHPRC continues to track completion of contract scope within budget and is currently projecting a Variance at Completion of $152.5 million with $66.7 million of Management Reserve (MR) for a total positive variance of $219.2 million. For June, the project was 3.9 percent ahead of schedule and 5.1 percent under planned cost. Contract to Date (CTD), the project was 1.2 percent behind schedule and 3.6 percent under planned cost.

The current month favorable schedule variance is within reporting thresholds.

The current month favorable cost variance is due to RL-0030 100-FR-3 monitoring well drilling contract value was lower than planned within the PMB, 100-KR-4 Operable Unit experienced a savings in the form of P&T operations labor, sampling, analysis, shipping, and regeneration from replacing the Dowex 21K resin with SIR 700, and the 200-ZP-1 Operable Unit experiencing smoother than anticipated installation of the Membrane Bio Reactor (MBR) cassette upgrade resulting in the use of fewer resources (labor, Used Based Services, subcontractor) than originally planned. Partially offset by RL-0011 due to subcontracted labor support costs being higher than planned, consumable materials costing more than planned due to the extended time frame that is taking to complete discrete field work and more Personal Protective Equipment (PAPRs, SCBA, etc.) to support implementation of more conservative radiological controls are driving the increased costs for PFP to achieve Slab on Grade.

FUNDING ANALYSIS

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

PBS	Project	FY2016 Projected Funding	FY2016 Spending Forecast	FY2016 Variance
Spending Forecast				
RL-0011	Nuclear Materials Stabilization and Disposition	110.7	108.2	2.5
RL-0012	Spent Nuclear Fuel Stabilization and Disposition	53.0	44.2	8.8
RL-0012	15-D-401 Sludge Retrieval Project	68.1	30.5	37.6
RL-0013	Waste and Fuels Management Project	106.7	95.3	11.4
RL-0030	Soil, Groundwater and Vadose Zone Remediation	127.5	118.0	9.5
RL-0040	Nuclear Facility D&D, Remainder of Hanford	26.5	21.9	4.5
RL-0041	Nuclear Facility D&D, River Corridor	28.7	28.7	(0.0)
RL-0042	Fast Flux Test Facility Closure	3.2	1.9	1.3
	Total Spending Forecast	**524.3**	**448.8**	**75.5**
Incremental Scope Pending Change Management				
RL-0011	Nuclear Materials Stabilization and Disposition		0.0	(0.0)
RL-0012	Spent Nuclear Fuel Stabilization and Disposition		0.0	0.0
RL-0012	15-D-401 Sludge Retrieval Project		0.3	(0.3)
RL-0013	Waste and Fuels Management Project		10.3	(10.3)
RL-0030	Soil, Groundwater and Vadose Zone Remediation		1.1	(1.1)
RL-0040	Nuclear Facility D&D, Remainder of Hanford		2.7	(2.7)
RL-0041	Nuclear Facility D&D, River Corridor		8.8	(8.8)
	Total Non-Contract Work Scope	**0.0**	**23.3**	**(23.3)**
Total Base:				
RL-0011	Nuclear Materials Stabilization and Disposition	110.7	108.2	2.5
RL-0012	Spent Nuclear Fuel Stabilization and Disposition	53.0	44.2	8.8
RL-0012	15-D-401 Sludge Retrieval Project	68.1	30.8	37.3
RL-0013	Waste and Fuels Management Project	106.7	105.6	1.1
RL-0030	Soil, Groundwater and Vadose Zone Remediation	127.5	119.2	8.3
RL-0040	Nuclear Facility D&D, Remainder of Hanford	26.5	24.7	1.8
RL-0041	Nuclear Facility D&D, River Corridor	28.7	37.5	(8.9)
RL-0042	Fast Flux Test Facility Closure	3.2	1.9	1.3
	Total Base:	**524.3**	**472.0**	**52.3**

Funds/Variance Analysis

FY2016 expected funding did not change in the month of June and remains at $524.3 million. The Spending Forecast decreased $10.2M from last month. The decrease is due to incorporating $3.3 million for projected year-end labor passbacks, $3.9 million reduction in RL-0012 Sludge Retrieval

Project to reflect final settlement of the KW Annex contract and delays with equipment receipt and installation, and approximately $3 million reductions for efficiencies in PBS RL-0012, RL-0013, RL-0030, and RL-0040.

BASELINE CHANGE REQUESTS

In June 2016, CHPRC approved and implemented seven (7) BCRs into the Performance Measurement Baseline (PMB). Each change request is identified in the table below:

Change Request #	Title	Summary of Change
BCR-012-16-023R0	*Correct ERDF Waste Resources in FY2017 and FY2018*	This BCR corrected incorrect ERDF waste volumes in FY2017 and FY2018 introduced by BCR-PRC-16-002R0, returning Budget of to Management Reserve. This BCR decreased the PMB value by $2,979K.
BCR-PRC-16-044R0	*Incorporate FY2016 Fee Adjustment for Analytical Services Change, Mod 493*	This BCR incorporated adjustments to Fee to be consistent with Contract Modification (CM) 493. This BCR does not change the PMB value.
BCRA-012-16-025R0	*Modify & Add Logic Ties for T Plant Balance of Construction*	This BCR added schedule logic back in for a T Plant Construction activity that was inadvertently removed in BCR-012-16-170. This BCR does not change the PMB value.
BCRA-012C-16-027R0	*Schedule Coding Changes*	This BCR corrected the incorrect CAPN and GWBS for 012.17.02.06.01. This BCR does not change the PMB value.
BCRA-041C-16-018R0	*RL-0041 CAP Base Year Shift in Support of FY2017 Annual Update*	This BCR included the Base Year Shift bringing the resource pricing forward to the current Base Year (FY2017). This BCR does not change the PMB value.
BCRA-PRC-016-045R0	*HPIC Updates June 2016*	This BCR documented HPIC changes made in June 2016. This BCR does not change the PMB value.
BCRA-PRC-16-043R0	*Base Year Shift in Support of FY2017 Annual Update*	This BCR included the Base Year Shift bringing the resource pricing forward to the current Base Year (FY2017). This BCR does not change the PMB value.

The Allocated (Distributed) Budget decreased by $2,979K.

Undistributed Budget Activity

BCR Number	Title	Fiscal Year	UB
BCR-012-16-023R0	*Correct ERDF Waste Resources in FY2017 and FY2018*	2015 - 2018	$ 145K

The Undistributed Budget increased by $145K for an overall decrease to the PMB of $3,124K during June.

Management Reserve Activity

BCR Number	Title	Fiscal Year	MR
BCR-012-16-023R0	*Correct ERDF Waste Resources in FY2017 and FY2018*	2015 - 2018	$ 3,124K

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

Fee Activity

BCR Number	Title	Fiscal Year	Fee
BCR-PRC-16-044R0	*Incorporate FY2016 Fee Adjustment for Analytical Services Change, Mod 493*	2015 - 2018	$1,250K

Overall, there was an increase $1,250K to 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 fiscal year. The PMB values of change requests are summarized by fiscal year in the tables below (dollars in thousands):

June 2016 Summary of Changes

	FY 2009-2013	FY2014	FY2015	FY2016	FY2017	FY2018	FYs 2014-2018	Contract Period Total	Total PMB
May 2016 Estimate									
PMB	3,391,477	391,653	471,323	488,884	418,506	360,480	2,130,846	5,522,322	5,522,322
MR	0	0	0	24,731	22,020	16,821	63,572	63,572	63,572
Fee	155,504	14,325	14,501	27,303	9,696	18,011	83,835	239,339	239,339
Total	***3,546,981***	***405,978***	***485,824***	***538,939***	***452,200***	***395,312***	***2,278,253***	***5,825,234***	***5,825,232***
June 2016 Change									
PMB									
Change to PMB	***0***	***0***	***0***	***-12***	***-1,538***	***-1,575***	***-3,124***	***-3,124***	***-3,124***
MR									
Change to MR	***0***	***0***	***0***	***10***	***1,539***	***1,575***	***3,124***	***3,124***	***3,124***
Fee									
Change to Fee	***0***	***0***	***0***	***0***	***625***	***625***	***1,250***	***1,250***	***1,250***
Total Change	***0***	***0***	***0***	***-2***	***626***	***625***	***1,250***	***1,250***	***1,250***
June 2016 Estimate									
PMB	3,391,477	391,653	471,323	488,872	416,968	358,905	2,127,721	5,519,198	5,519,198
MR	0	0	0	24,741	23,559	18,396	66,696	66,696	66,696
Fee	155,504	14,325	14,501	27,303	10,321	18,636	85,085	240,589	240,589
Total	***3,546,981***	***405,978***	***485,824***	***540,915***	***450,848***	***395,937***	***2,279,503***	***5,826,483***	***5,826,483***

Changes to/Utilization of Management Reserve in June 2016

	FY2009-2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2014-2018	Total
May 2016 MR Totals								
RL-0011	0	0	0	4,031	3,821	0	7,852	7,852
RL-0012	0	0	0	0	6,486	3,137	9,623	9,623
RL-0013	0	0	0	8,072	1,716	2,668	12,457	12,457
RL-0030	0	0	0	6,669	6,073	3,220	15,962	15,962
RL-0040	0	0	0	1,815	941	682	3,438	3,438
RL-0041	0	0	0	4,096	2,800	7,000	13,896	13,896
RL-0042	0	0	0	47	184	113	344	344
Total	***0***	***0***	***0***	***24,731***	***22,020***	***16,821***	***63,572***	***63,571***
June 2016 MR Changes/Utilization								
RL-0011	0	0	0				0	0
RL-0012	0	0	0	10	1,539	1,575	3,124	3,124
RL-0013	0	0	0				0	0
RL-0030	0	0	0				0	0
RL-0040	0	0	0				0	0
RL-0041	0	0	0				0	0
RL-0042	0	0	0				0	0
Total	***0***	***0***	***0***	***10***	***1,539***	***1,575***	***3,124***	***3,124***
June 2016 MR Totals								
RL-0011	0	0	0	4,031	3,821	0	7,852	7,852
RL-0012	0	0	0	10	8,025	4,712	12,747	12,747
RL-0013	0	0	0	8,072	1,716	2,668	12,457	12,457
RL-0030	0	0	0	6,669	6,073	3,220	15,962	15,962
RL-0040	0	0	0	1,815	941	682	3,438	3,438
RL-0041	0	0	0	4,096	2,800	7,000	13,896	13,896
RL-0042	0	0	0	47	184	113	344	344
Total	***0***	***0***	***0***	***24,741***	***23,559***	***18,396***	***66,696***	***66,696***

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 10/1/2008 -6/30/2016 Reporting Category				Projection to FY2018 Planned Subcontracting: $2,564,285,972 Contract-to-date awards: $2,370,615,422 Bal remaining to award: $193,670,550	
	$ Value	%	Goal %	Goal award$	Bal to Goal
SB	$1,259,384,137	53.12%	49.3%	$1,264,192,984	$4,808,848
SDB	$217,839,109	9.19%	8.2%	$210,271,450	-$7,567,660
SWOB	$248,427,420	10.48%	7.5%	$192,321,448	-$56,105,972
HUB	$49,710,304	2.10%	2.2%	$56,414,291	$6,703,987
VOSB	$162,327,102	6.85%	3.5%	$89,750,009	-$72,577,093
SDVO	$86,943,337	3.67%	1.3%	$33,335,718	-$53,607,619
NAB	$43,409,759	1.83%	N/A	PRC clause H.20 small business requirement ≥ 17% of CHPRC Contract Price performed by SB.	
Large	$621,748,678	26.23%	N/A		
GOVT	$2,432,784	0.10%	N/A		
GOVT CONT	$482,866,522	20.37%	N/A		
EDUCATION	$104,135	0.00%	N/A	CHPRC Contract Value:	$5,732,255,464
NONPROFIT_	$3,715,728	0.16%	N/A	17% rqmt:	$974,483,429
FOREIGN	$363,437	0.02%	N/A	SB actual:	$1,259,384,137
Total	$2,370,615,422	100.00%	N/A	Bal to rqmt	-$284,900,708

Notes:

1. Since the CHPRC contract award in October 2008, CHPRC has subcontracted over $2.3 billion in goods and services with over 53 percent going to small businesses. Nearly all subcontracting goals have been exceeded.
2. Approximately 91 percent of the total dollars arise from service and staffing contracts and contract amendments with 6 percent of the remaining expenditures arising from P-Card purchases and 3 percent from the balance in purchase orders for materials and equipment.
3. Data is summarized by business categories (Women Owned Minority Business Enterprise codes) in accordance with socioeconomic reporting requirements. Small business categories overlap and should not be added together.

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

Contract Section	Project	GFS/I	Status
CONTRACT			
J.12/C.2.3.6	PBS-13, Transuranic Waste Certification	WIPP provides shipping resources and manages the schedule for transportation of these containers to WIPP. The schedule is variable and the number of shipments is controlled by DOE-HQ on a complex-wide priority. Cost for shipment of TRU waste offsite is borne by the CBFO.	Ongoing (pending restart of WIPP Shipments)

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

T. E. Bratvold
Vice President for
PFP Closure Project

June 2016
CHPRC-2016-06, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

The removal of plutonium-contaminated process equipment continued with a particular focus on removing gloveboxes, associated piping, and ductwork. The total number of gloveboxes removed to date is at 98 percent complete.

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

Significant accomplishments in June included:

- Ancillary building demolition of 225-WC was completed in June.
- Performed 236-Z PRF Canyon clean-up, painting and characterization.
- Performed preparations and set-up for E-4 exhaust duct removal in 236-Z PRF Rooms 40, 41, and 43.
- Abated 150 feet of asbestos.
- Removed or dispositioned in place 364 feet of process vacuum piping.
- Shipped 20m^3 TRU/TRU-M Waste.
- Shipped 49m^3 LLW/MLLW.

Key Metrics

Key Performance Indicators	*Current Month*	*Contract To Date*
Glovebox/ Hood Removed or Dispositioned in Place	-	228 gloveboxes/hoods
KPP Rooms/Areas Ready for Demo	-	60 rooms/areas
Asbestos/ACM Removed	150	26,136 feet
Process Vacuum Piping Dispositioned	364	4,842 feet
COMPLETE Process Transfer Line Dispositioned	-	1,525 feet
COMPLETE Pencil Tank Units Removed (Shipped)	-	196 pencil tank units
Buildings Ready for Demo	1	45 structures
Buildings Demolished or Removed	1	45 structures
Non-radioactive Waste Shipped	-	73 m^3
TRU/TRU-M Shipped	20m^3	2,170 m^3
LLW/MLLW Shipped	49m^3	7,105 m^3

EMS Objectives and Target Status

Objective #	Objective	Targets	Actions	Due Date	Status
16-EMS-PFP-OB1-T1	Minimize emissions resulting from demolition of 234-5Z, 236-Z, 242-Z, and 291-Z.	Inspect 234-5Z, 236-Z, 242-Z, and 291-Z for the presence of asbestos containing materials (ACM) and produce a report identifying ACM requiring removal or abatement and methods for protecting remaining ACM from resulting in visible emissions.	1. Issue report documenting thorough inspection of 236-Z 2. Issue report documenting thorough inspection of 242-Z 3. Issue report documenting thorough inspection of 234-5Z 4. Issue report documenting thorough inspection of 291-Z	08/16/16 05/26/16 01/26/17 01/31/17	100% 100% 10% 0%
16-EMS-PFP-OB1-T2	Minimize emissions resulting from demolition of 234-5Z, 236-Z, 242-Z, and 291-Z.	Develop an air dispersion model that will guide the D4 processes to keep radiological emissions as low as reasonably achievable below the regulatory limit of 10 mrem/year.	5. Issue air dispersion modeling report	12/31/15	100%

TARGET ZERO PERFORMANCE

	Current Month	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	1	2	• 6/7/2016 - Employee was attempting to cut/break a piece of pipe. The worker was using body weight to apply pressure when it broke causing a neck strain. Employee sought treatment and was removed from work due to restrictions. (24019)
Total Recordable Injuries	0	1	N/A
First Aid Cases	4	73	• 6/30/2016 - Employee was working in duct level when knee "popped". Employee was taken to HPMC, evaluated and released to work without restriction. (24049) • 6/16/2016 - Employee was squatting to go under a duct, bumped their hard hat into the duct, causing the employee to put their knee down on the floor causing a contusion. Employee was taken to HPMC, evaluated and released to work without restriction. (24034) • 6/14/2016 - Employee noticed swelling his left hand loading privacy panels that were used in an office environment onto a pallet. The employee reported the swelling. The employee was then transported to HPMC for evaluation. He was examined, given a cold pack and released to work without restrictions. (24025) • 6/1/2016 - Employee bent over to straighten a "candlestick stanchion", stanchion struck employee in his safety glasses, causing an abrasion. Employee taken to HPMC, evaluated and released to work without restriction. (24018)
Near Misses	0	0	N/A

KEY ACCOMPLISHMENTS

11.05 Disposition PFP Facility

- Ancillary building demolition of 225-WC was completed in June.

234-5Z

- Duct Level:
  - Abated 150 feet of asbestos.
  - Removed or dispositioned in place 364 feet of process vacuum piping.

PFP Waste Operations

- Shipped 20m^3 TRU/TRU-M waste.
- Shipped 49m^3 LLW/MLLW.

242-Z

- Sampled tanks and sump in 242-Z and prepared the open tanks for demolition.
- Recovered from an unplanned contamination event due to a malfunctioning criticality alarm.

236-Z PRF

- Canyon:
  - Performed 236-Z PRF Canyon clean-up, painting and characterization.
- PRF Ductwork
  - Performed preparations and set-up for E-4 exhaust duct removal in 236-Z PRF Rooms 40, 41, and 43.

MAJOR ISSUES

Issue:
PRF Canyon floor scrapings from J Pan, staged in collection trays on the Canyon floor expanded resulting in a clear and unanticipated chemical reaction. A previously noted hard substance was observed within the loose debris on J Pan. This hard substance was originally thought to be concrete (congealed, spalled wall fines) but upon further review was believed to be a plasticized material, which was not expected.

Corrective Action:
- Unpackage and place previously packaged J Pan waste back in the PRF Canyon.
- Develop waste packaging instructions for J Pan wastes.
- PFP will perform a visual inspection of waste drums that contain PRF canyon waste prior to shipment from the facility.

Status:
- Waste packaging instructions for J Pan wastes were developed and waste has been packaged per the waste packaging instructions.
- PFP is performing 100 percent visual inspections of waste drums that contain PRF canyon waste prior to shipment.
- Waste Shipment of PRF Canyon Waste to CWC has commenced with shipment of Non-J Pan wastes.
- PNNL analysis of waste samples is complete. Fauske and Associates has completed their evaluation of the potential for a self-accelerating thermal reaction within drums.
- PFP is preparing a final report documenting an evaluation of the PNNL analysis results, the Fauske and Associates evaluation, and an analysis of radiolytic gas generation. Final report is due the middle of July.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

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

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

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

Increased Confidence
No Change
Decreased Confidence

Risk Title	Unmitigated Risk Impacts	Assessment		Comments
		Month	Trend	

RL-0011/WBS-011.OA

Explanation of major changes to the project monthly stoplight chart:
No major changes to the monthly stoplight chart in the month of June.

Realized Risks (Risks that are currently impacting project cost/schedule)

No realized risks identified for RL-0011 in the month of June.

Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)

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

PFP-092-02: Final Facility Characterization Identifies Unexpected Hold-up

Unexpected or late discovery of radiological (Pu) or chemical (Asbestos) holdup requiring added facility deactivation.
Risk Handling Strategy: Control

Probability: Medium (26% to 74%)
Worst Case Impacts: $158K, 20 days

Risk Trigger: Will continue throughout project lifecycle until Demolition activities commence.

Mitigation action(s)	FC Date	%
Perform gamma imaging surveys in conjunction with final PRF canyon cleanup to strategically focus final decontamination.	Complete	100
Revise the project DQO to incorporate provisions to leave for demolition higher residual levels of contamination when supported by the air dispersion model and waste operations	7/21/16	95
Complete 234-5Z Duct Level and backside inspections to identify piping with TSI dropping through to the first floor ceiling void.	7/28/16	85

Mitigation Assessment:
The risk component associated with final characterization of the PRF canyon, gallery gloveboxes, and strongbacks remains critical. This is due to the likelihood that final characterization could demonstrate, after completion of current cleanup activity, that further decontamination of structures and components is necessary. Mitigation actions are being completed in conjunction with ongoing cleanup activity in progress; therefore, risk mitigation is linked to the progress of the deactivation crews. Final safeguards termination NDA surveys in the Gallery Gloveboxes and PRF Canyon are complete with data compilation and reporting in progress. Gamma imaging of the PRF canyon is also complete and supported enabling of Safeguards termination criteria. The draft revision to the DQO has been completed. The forecasted completion date slipped one month in June to incorporate comments received from Nuclear Safety, Rad Protection, NDA, and Safeguards programs prior to final issuance.
The risk component associated with late discovery of asbestos in need of further removal/abatement is no longer critical. Duct level inspections of crawlspaces are in progress. Confirmation of TSI in and above the A-labs resulted in allocation of insulator resources to commence abatement activity, which has slowed progress toward completion of remaining inspections. Project focus now is placed on D&D crews opening up walls to create access to piping suspected to carry TSI. Given the sufficient lead time, there is greater confidence that the added work can be completed by existing insulator crew strength assigned to support the project. In this regard, the work has been incorporated into the ETC. No alternative course of actions needed at this time.

<table>
<tr><th rowspan="2">Risk Title</th><th rowspan="2">Unmitigated Risk Impacts</th><th colspan="2">Assessment</th><th rowspan="2">Comments</th></tr>
<tr><th>Month</th><th>Trend</th></tr>
<tr><td colspan="5">RL-0011/WBS-011.OA</td></tr>
<tr><td colspan="5">FY2016 Risk Triggers (Risk could be realized in FY2016)</td></tr>
<tr><td>PFP-DEMO-02: Air Modeling Increases Equipment Removal/Decontamination for Demo</td><td>Air Dispersion identified additional MAR reduction higher than planned or RL directs constrains from Revision 12 SER, resulting in additional decontamination/fixatives and equipment removal prior to initiating open-air demolition resulting in schedule delays.
Risk Handling Strategy: Control

Probability: Medium (26% to 74%)
Worst Case Impacts: $0, 16 days

*Cost increase will result in cost per day impacts from crews, and hotel load.</td><td>  </td><td>  </td><td>Risk Trigger: July 6, 2015
<table><tr><th>Mitigation action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>Process Revision 2 to the PNNL Air Dispersion Model</td><td>Complete</td><td>100</td></tr><tr><td>Process Revision 3 to the PNNL Air Dispersion Model</td><td>7/21/16</td><td>95</td></tr><tr><td>Once the residual material/contamination is quantified, work with regulators to identify controls to allow for equipment removal and demolition as planned.</td><td>7/28/16</td><td>75</td></tr></table>Mitigation Assessment:
Revision 2 to the PNNL Air Dispersion Model was completed in draft, but was not issued in order to address comments from RL as well as incorporate the latest characterization data. As preliminary Safeguards terminations estimates demonstrate that the PRF Canyon walls and strongbacks MAR is within modeled limits, a final version (Revision 3) is being prepared that will inform demolition control sets for radiological monitoring and work package plans for Gallery glovebox and Strongback removals (the final remaining action). At this time no alternative course of actions are needed.</td></tr>
<tr><td colspan="5">High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)</td></tr>
<tr><td colspan="5">FY2016 Risk Triggers (Risk could be realized in FY2016)</td></tr>
<tr><td>PFP-PRF-22: OPP: NDA Process Allows for Section Results to be used</td><td>Improved NDA process allows for disposition of Gallery Gloveboxes into waste containers by using section data rather than summation of entire glovebox, resulting in schedule efficiencies.
Risk Handling Strategy: Exploit

Probability: Likely (75% to 90%)
Worst Case Impacts: $0, 60 days

*Cost savings will result in cost per day from crews, and hotel load.</td><td>  </td><td>  </td><td>Risk Trigger: During glovebox isolations NDA process allows for section results to be used.
<table><tr><th>Mitigation action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>Complete West Gallery Glovebox Isolation - 2nd Floor, Vacuum Gallery Gloveboxes, And Wipe Down and Decon, Apply Fixative, and Characterize.</td><td>7/14/16</td><td>63</td></tr></table>Mitigation Assessment:
The forecasted completion date for completing the West Gallery Glovebox Isolation slipped three weeks in the month of June. The delay in completing the mitigation action is due to the deactivation crew availability. The delay does not result in an alternative course of action at this time and there are no foreseeable impacts in the near future. The opportunity will continue to be tracked and monitored throughout the Gallery Glovebox subproject lifecycle. No alternative course of actions needed at this time.</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 the month of June.</td></tr>
</table>

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	7.0	6.0	8.5	(1.0)	-14.2%	(2.4)	-40.4%

Numbers are rounded to the nearest $0.1 million.

CM Schedule Variance: (-$1.0M/-14.2%)
The current month negative schedule variance is due to work scope associated with the demolition of 236-Z (PRF) not being performed as originally scheduled. The demolition of PRF has been delayed due to resources being redirected to support ready for demolition activities associated with 242-Z and PRF (other project critical path work) and impacts from previous radiological issues resulting in a PFP Management safety pause and historical stop works (Breathing Air, PAPR, SCBA) and recovery efforts from an unplanned criticality alarm. Once the main PFP structures are closer to being ready for demo and the resources are available, demolition of the remaining ancillary buildings will occur leading to demolition of PRF. Partially offsetting the unfavorable variance is the completion of behind schedule work scope such as the decontamination efforts of the PRF Gallery gloveboxes, and completion of demolition of the first ancillary building (225-WC), completed in June.

CM Cost Variance: (-$2.4M/-40.4%)
The current period unfavorable cost variance is a result of a cost correction on the purchase of an articulating lift. The actual costs for this procurement were realized in a prior period under WBS 011.05.C3.04.01, and due to implementation of BCR-011C-16-006R0 which was implemented in the month of May to ensure compliance with EVMS-IH Requirements, specifically LOI 29.C.2, “Level of Effort (LOE) Work Packages with insignificant cumulative ACWP reviewed for purposes of preventing false variance reporting”, a cost transfer was done in June moving the actuals into the appropriate WBS resulting in a current period negative cost variance. In addition, subcontracted labor support costs are higher than planned due to extension of end date of field work as a result of impacts from discrete work scope being behind schedule. Consumable materials are costing more than planned due to the extended time frame that is taking to complete discrete field work and more Personal Protective Equipment (PAPRs, SCBA, etc.) to support implementation of more stringent radiological controls requirements are driving the increased costs for PFP to achieve Slab on Grade.

Contract-to-Date ($M)

WBS 011/ RL-0011 Nuclear Matl Stab & Disp PFP	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance ($)	Schedule Variance (%)	Cost Variance ($)	Cost Variance (%)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)
Total	945.1	896.7	913.6	(48.4)	-5.1%	(17.0)	-1.9%	978.9	1,036.1	(57.2)

Numbers are rounded to the nearest $0.1 million

CTD Schedule Variance (-$48.4M/-5.1%)
The CTD schedule variance relates to the progress on discrete D&D work scope (apportioned). Re-sequencing of D&D discrete work to align with availability of D&D workers caused a delay in start of work on 242-Z activities. Also contributing to the variance, the 234-5Z Backside Rooms team was assigned to higher priority work scope associated with unplanned door modifications, which supported the in-situ size reduction efforts on the HC-9B and HA-9A gloveboxes located in 234-5Z. Delays have been caused by Stop Works on discrete D&D work associated with Beryllium, tight fitting masks, demister, weather (heat), PremAire breathing air systems and suits, chemical smells, contamination cleanup efforts as a result of a malfunctioning criticality alarm system, and radiological events. Also, duct level characterization, process vacuum, transfer and drain line teams were previously assigned to perform other critical path work in the 236-Z Plutonium Reclamation Facility, 242-Z Americium Facility, and RMA/RMC KPP glovebox removal work efforts. As a result of this realignment of plant priorities and changing approach (area vs. system) to performing work within the balance of 234-5Z, characterization, and process equipment (i.e., ducting, piping, filter box etc.) removal is lagging. In addition, progress on the D&D project management Work Breakdown Structure (WBS) element is apportioned to the discrete D&D work scope and contributes to this variance. Impacts have also been recognized resulting from a chemical reaction when working on the PRF canyon floor cleanup efforts and failure of the PRF Canyon Crane. This is partially offset by recognized efficiencies in asbestos removal and working on future planned work in E4 duct removal. Completion of E4 characterization and scope avoidance of room characterization is also offsetting some of the unfavorable variance.

CTD Cost Variance (-$17.0M/-1.9%)
The Cost Variance is within reporting thresholds.

Variance at Completion (-$57.2M/-5.8%)
The Variance at Completion unfavorable variance is reflective of previous inability to achieve 20 percent increased efficiency associated with time on respirator as assumed in the baseline plan. The Collective Bargaining Agreement was accepted and recognized efficiencies are continuing to be recognized with more time on mask and implementation of the value engineering initiatives associated with High Mass Gloveboxes and grouting. The variance at completion is reflective of PFP's current projected date to reach slab on grade. The project is not expected to meet the Tri-Party Agreement milestone of slab on grade by September 30, 2016.

Contract Performance Report Formats are provided in Appendix A.

FUNDS vs. SPEND FORECAST ($M)

WBS 011/RL-0011 Nuclear Matl Stab & Disp PFP	FY2016 Projected Funding	FY2016 Spending Forecast	FY2016 Spend Variance
Spending Forecast	110.7	108.2	2.5
Incremental Scope Pending Change Management	0	0	0
RL-0011 - Total	110.7	108.2	2.5

Numbers are rounded to the nearest $0.1 million

Funds/Variance Analysis
FY2016 expected funding for RL-0011 remained steady at $110.7 million. The FYSF for June decreased slightly from $108.3 million to $108.2 million.

Critical Path Schedule
The PFP Critical Schedule Path is a resource driven float path. The current E4 team in the 234-5Z duct level completes E4 duct and filterbox removals, then transitions to miscellaneous decon throughout 234-5Z to get it into a ready for demo state. Demolition of 234-5Z will occur in the following sequence: 234-5ZA, Frontside, A-Labs, Backside Rooms/PPSL, RMA Process Lines, RMC Process Lines, and the RADTU & Basement areas. Once the 234-5Z and 291-Z facilities have been demolished, the Tri-Party Agreement milestone – M-083-00A - *PFP Facility Transition and Selection Disposition Activities* will have been met.

Baseline Change Requests
BCRA-PRC-16-045R0, *HPIC Updates June 2016*

MILESTONE STATUS

Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) milestones represent significant events in project execution. DOE Enforceable Agreement milestones were established to provide high-level visibility to critical deliverables and specific status on the accomplishment of these key events. The PMB Annual Update, implemented in September 2013, and subsequent approved BCRs define CHPRC planning with respect to Tri-Party Agreement milestones. The following table is a 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	09/30/16		7/25/17	During the month of June the PFP project lost 6 calendar days to the forecast completion date of the TPA Milestone for the PFP Project to reach Slab on Grade in July 2017. This was due to recovery actions from a contamination event as a result of a false criticality alarm. As the PFP Project continues to make progress on the behind schedule critical path work scope being performed, efficiencies will continue to be evaluated and implemented to recover schedule delays. However, this Tri-Party Agreement completion is not expected to be met. Discussions are ongoing with the regulators to modify the completion date for the M-083-00A TPA milestone and it is expected that a new agreed upon date for completion will be identified in mid-July.

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None identified at this time.

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

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

June 2016
CHPRC-2016-06, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

- The 100K Operations group continued maintaining facilities in a safe and compliant condition, supporting continued debris dose mapping and relocation activities in 105KW Basin and performance of several monthly and quarterly routines during the period. In addition, support was provided to Sludge Removal Project (SRP) work by supporting Annex construction and In-Basin Construction activities.
- On June 02, 2016, RL received approval from DOE-EM for Project 15-D-401, Sludge Removal Project. Beginning with June month end the project will commence reporting within DOE's Project Assessment and Reporting System (PARS II).
- Continued execution of the MASF Preoperational Acceptance Test (MPAT) with a testing status at 70 percent complete.
- Completed Performance Measure (PM)-12-8-16 with delivery of the cell storage equipment that will be installed in the T-Plant canyon to allow receipt and storage of the sludge transport and storage containers (STSC), (i.e. leveling frames, containment system, leak detectors).
- Continued (internal & external) reviews of the draft integrated 105K West Basin Document Safety Analysis (DSA) and Technical Safety Requirement (TSR). Submittal of the safety basis to RL is on schedule for August 2016. The formal DSA/TSR must be approved and implemented prior to K Basin Preoperational Acceptance Testing (KPAT).
- Development of a criteria document for the transportation safety authorization was completed and RL Transportation Safety Representatives have provided verbal concurrence. CHPRC is pursuing written concurrence from our customer. Work continued on structural, thermal, gas generation, containment and criticality evaluations.

EMS OBJECTIVES AND TARGET STATUS

None currently identified.

TARGET ZERO PERFORMANCE

	CM Quantity	Rolling 12 Month	Comment
Dart Injuries	0	0	N/A
Recordable Injuries	1	2	• 6/15/2016 - While closing a door, the employee did not remove a finger in time crushing it in the door. The employee required multiple sutures and prescription medication Body part affected: Finger (24030)
First Aids	0	14	N/A
Near Misses	0	0	N/A

KEY ACCOMPLISHMENTS

KW Basin Sludge Retrieval Capital Assest Project

- ECRTS Process Equipment Procurement:
  - Procurement Set #8: Sludge Transport and Storage Container (STSC) Vessels – AVS Source Inspection of vessels 2-5 was completed. With CHPRC (BTR/DA/QAE) satisfied with the completed final data packages for STSC 2-5, ABW shipped STSC 402-405 (4 vessels) to Richland. These four STSCs were receipt inspected by AVS then delivered to HiLine as GFE for installation of associated appurtenances. STSC 406-409 received final AVS Source Inspection and will be packaged for shipping.
  - Procurement Set #9: SS STSC Assemblies (Instrumentation & Appurtenances) – The Overfill Recovery Tools (ORTs) were accepted by AVS. Twelve ORTs will be returned to HiLine as GFE for installation into STSC vessels 2-13. The remaining eleven will be sent to MASF and stored until FY17. STS Handrails/Swing Gates/Placards – This hardware was delivered to MASF.
  - Procurement Set #15: GS Electrical Generator – The electrical generator was receipt inspected and delivered to MASF.
  - Procurement Set #17: STSC Drapes – A modified set of drapes was delivered to MASF.
- MPAT Execution:
  - Executed test activities through fiscal month consistent with project schedule (approximately 70 percent complete).
  - Completed installation of the Nitrogen Supply & Purge Panels and associated piping.
  - Completed interlock testing of the seismic shutdown switches.
  - Completed Nitrogen System retesting.
- KW Annex Construction:
  - Completed formwork, rebar, and grounding for nitrogen pad.
  - Completed Nitrogen pad concrete placement/saw cut and began curing.
  - Completed unpack and inventory of Annex/Basin Rad Panels and Equipment in 142K Building, began setup for testing per HNF-59954.
- In Basin Modifications Construction:
  - Completed concrete placement for the doghouse stem walls in NE Corner of 105K West Basin.
  - Completed fabrication of the booster pump installation rail system.
  - Completed the re-installation of the grating supports above the engineered containers (EC-210 – EC-260).
  - Delivered booster pump rail system to site.
  - Mobilized retainer rails and shielding plates for HIH Doghouse into basin.

T Plant Modifications for Sludge Storage Project

- Fabrication/Procurements:
  - Completed Performance Measure (PM)-12-8-16 with delivery of the Cell Storage equipment that will be installed in the T-Plant canyon to allow receipt and storage of the sludge transport and storage containers (STSC), (i.e., leveling frames, containment system, leak detectors).
- Construction:
  - Continued North Load-Out Pit (NLOP) equipment relocation.
  - MDSA Revision 11 was formally transmitted to RL

- Issued WCN-02 for CS-16-01055/K package.

MAJOR ISSUES

Issue:
MDSA Revision 11 approval/implementation delays and impacts to the T-Plant facility modification schedule and cost:

If the installation of the nitrogen system general service components cannot proceed until the MDSA Revision 11 is implemented, it will impact the current completion date by approximately 6 months (i.e., November FY-16 vs. May FY-17). It also eliminates the projects ability to proactively manage this work scope and accelerate this work where possible. This delay will also increase the nitrogen system installation cost (i.e., General Contractor demob/remob cost, contract delay costs, and additional training cost) and delay the testing completion.

Corrective Action:
The project is currently in the working planning approval process for removal of the existing helium system and the installation of the new nitrogen system. Once approved, construction will start the removal of the helium system and the installation of the nitrogen system per MDSA Revision 10.

Propose that construction is allowed to proceed with the installation of entire nitrogen system (i.e., including the general service components) under a temporary modification or equivalent process. Once MDSA Revision 11 is approved and/or implemented then the completed nitrogen system can be accepted and put into service. This approach will allow construction to complete the nitrogen system installation and testing (e.g., construction acceptance testing and system acceptance testing) early and in sequential fashion.

Status:
Risk of schedule delay and cost increase remains unless proposal is accepted.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

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

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

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

Increased Confidence
No Change
Decreased Confidence

Risk Title	Unmitigated Risk Impacts	Assessment		Comments
		Month	Trend	
RL-0012/WBS-012				
Explanation of major changes to the project monthly stoplight chart: No major changes to the monthly stoplight chart in the month of June.				
Realized Risks (Risks that are currently impacting project cost/schedule)				
STP-123-B: Design Maturity - ECRTS Annex/In-Basin Equip.	Finalization of design media for the ECRTS equipment installation will result in changes to both cost and schedule. **Risk Handling Strategy:** Accept **Probability:** Medium (26% to 74%) **Worst Case Impacts:** $912K, 64 days			**Risk Event:** The project realized additional cost and schedule impacts in June as a result of the construction review of DCN 391, which indicated the Nitrogen and P10 bottles require weather enclosure for bottle storage (DCN-445). Other DCNs identified in the engineering action list are being developed including but not limited to: Prepare Signage Schedule (DCN-209); Release Shielding Calculations and KW Modified Annex ALARA Design Review Checklist (DCN-068), RadCon related missing design-Add P-10 Gas Lines to Annex (DCN-391), Shield Cave Mounting (DCN-422), and Changes to I&C Drawing Updates (DCN-405). The project continues to evaluate the DCNs and the impacts to the project. A BCR requesting a MR drawdown is projected prior to the end of FY16.

Risk recovery action(s)	Risk Date	FC Date	%
Provide weather protection for Annex Nitrogen Bottle station (DCN-445)	6/16/16	7/21/16	0
Add Hose & Valve installation @ transfer box air system (Mitigation of long lead item impact by awarding procurement released to FFP under Release #2) (DCN-410)	12/16/15	10/1/16	0
Prepare Signage Schedule (DCN-209)	4/4/16	7/28/16	70
Release Shielding Calculations and KW Modified Annex ALARA Design Review Checklist (068)	12/16/12	9/29/16	80
Add P-10 Gas Lines to Annex (DCN-391), Status on 6/23 w/CDC pending full size dwg signature.	1/4/16	6/30/16	95
ECR for CAM installation in Basin (ECR-16-000478)	3/7/16	Complete	100
Shield Cave Mounting (DCN-422)	3/23/16	7/28/16	80
I&C Drawing Updates (DCN - 405)	2/8/16	7/28/16	80
Sand Filter Shielding Calc. (DCN-413)	3/8/16	Complete	100

Recovery Action Assessment:
DCNs are identified and reviewed at the weekly engineering meeting to define a path forward for the pending changes. The majority of the DCNs identified to-date are expected to be cleared by August month end. Delays to DCN completion are due to the lack of scope definition for the initial recovery action and priorities and commitments Engineering and other support resources.
During the weekly engineering meetings, the project identifies and reviews DCNs and define a path forward for the pending changes. A Title III Engineering manager has been hired to coordinate the design changes with the construction group.
Mitigation actions are in place that are expected to reduce the probability of the risk occurrence and reduces the potential cost and schedule impacts. Additionally, the risk will continue to be monitored. No additional mitigation actions have been identified at this time.

<table>
<tr><th rowspan="2">Risk Title</th><th rowspan="2">Unmitigated Risk Impacts</th><th colspan="2">Assessment</th><th rowspan="2">Comments</th></tr>
<tr><th>Month</th><th>Trend</th></tr>
<tr><td colspan="5">RL-0012/WBS-012</td></tr>
<tr><td>STP-111-B: Contractor/ Subcontractor Performance - ECRTS Annex/In-Basin Equip. Installation</td><td>The General Conditions Contractor and their supporting subcontractors have historically performed poorly and will be challenged on this project by compliance with project and contract flow down requirements (e.g., quality, nuclear standards, site safety requirements, subcontract management to ensure contract requirements are met, NRTL compliance, suspect counterfeit, Buy-American contract clause, Project Controls requirements, development of Construction Acceptance Testing [CAT], timely processing of submittals compliance with all the subcontract flow down requirements) as well as deployment and maintenance of key staff that are essential to safe, cost effective and on-time project delivery.

Risk Handling Strategy: Control

Probability: Very Likely (> 90%)
Worst Case Impacts: $792K, 96 days</td><td>  </td><td></td><td>Risk Event:
The project began to experience contractor delay due to inadequate general conditions staffing. There has been a delay in the receipt of Proposal for CA#3 (Release #10) as well as a delay in timely receipt of Change Order Proposals. A note regarding this issue was sent to the contractor on June 01, 2016 via CHPRC Contracts Department. There was a delay/impact to field execution based on an issue associated with CR-2016-1246, working Basin steel mod work package scope.
<table><tr><th>Risk recovery action(s)</th><th>Risk Date</th><th>FC Date</th><th>%</th></tr><tr><td>Address issue associated with CR-2016-1246, working outside work package scope.</td><td>6/16/16</td><td>7/15/16</td><td>50</td></tr><tr><td>Contractor delays due to inadequate staffing/mobilization. Will work with contractor to stabilize work resource planning.</td><td>5/17/16</td><td>Ongoing</td><td>NA</td></tr></table>
Recovery Action Assessment:
This is a reoccurring risks relating to the performance of the General Conditions Contractor and their supporting subcontractors. The CHPRC project team continues to work with their subcontractors to ensure the contractors are thoroughly aware of their project responsibilities and have the opportunity to successfully complete their project scope.
Mitigation actions are in place that are expected to reduce the probability of the risk occurrence and reduce the potential cost and schedule impact, and the risk will continue to be monitored. No additional mitigation actions have been identified at this time.</td></tr>
<tr><td>STP-144: Baseline strategy agreed to by RL and CHPRC on Transportation Safety documentation requirements for moving STSCs from the 105K West Basin to T-Plant storage is changed.</td><td>Revision to the Transportation Safety strategy (Site Requirements, Processes and Procedures) regarding shipment of STP STSCs from the 100K area Equip to T-Plant for interim storage could delay RL approval to commence operations.
Risk Handling Strategy: Control

Probability: Very Likely (>90%)
Worst Case Impacts: $2 million, 256 days</td><td>  </td><td>  </td><td>Risk Event:
This risk has been realized. The new RL Transportation Safety Manager and the CHPRC Transportation Safety Manager have agreed to a Transportation Strategy that utilizes a One-Time Request for Shipment (OTRS).
<table><tr><th>Risk recovery action(s)</th><th>Risk Date</th><th>FC Date</th><th>%</th></tr><tr><td>Update schedule baseline to reflect agreed upon Strategy moving forward.</td><td>2/25/16</td><td>7/31/16</td><td>70</td></tr></table>
Recovery Action Assessment:
CHPRC is currently working to produce an updated schedule and cost profile to accommodate the new transportation strategy. Once the cost and schedule impact is established, the project will seek a BCR for MR.</td></tr>
</table>

<table>
<tr><th rowspan="2">Risk Title</th><th rowspan="2">Unmitigated Risk Impacts</th><th colspan="2">Assessment</th><th rowspan="2">Comments</th></tr>
<tr><th>Month</th><th>Trend</th></tr>
<tr><td colspan="5">RL-0012/WBS-012</td></tr>
<tr><td>STP-103-M:
MASF Pre-Operational Acceptance Testing (MPAT)</td><td>The ECRTS equipment does not operate as expected, requiring increased engineering & MASF Testing Staff Support. This will require design modifications of production hardware and changes to control system software. These modifications will negatively impacts downstream testing, construction, readiness and ECRTS Operations.

Risk Handling Strategy: Control

Probability: Low (10% to 25%)
Worst Case Impacts: $500K, 60 days</td><td>  </td><td>  </td><td>Risk Event:
This risk has been realized. During the month of May, the second Transfer System Instrument Spool failed.
<table><tr><th>Risk recovery action(s)</th><th>Risk Date</th><th>FC Date</th><th>%</th></tr><tr><td>Coordinate with Krohne Instrument Manufacturer on Instrument Spool Failure Causal Analysis and subsequent implementation of corrective actions.</td><td>5/31/16</td><td>Complete</td><td>100</td></tr><tr><td>Procure 4 Operationally sound Transfer System Instrument Loops after corrective actions are fully implemented.</td><td>5/31/16</td><td>8/31/16</td><td>5</td></tr><tr><td>Ensure all project technical personnel are available to mitigate emergent technical challenges and establish proactive solutions.</td><td>5/31/16</td><td>Ongoing</td><td>70</td></tr></table>Recovery Action Assessment:
Although the initial Transfer System Instrument Spool failure was considered “infant mortality”, this second failure indicates that a systemic flaw likely exists in the assembly and the instrument manufacturer has been contacted to determine cause of failure and corrective action. A “test article” Transfer System Instrument Spool and a “spare” production Transfer System Instrument Spool are now installed and are allowing the MPAT Test to proceed. While only two days have been lost to project critical path, MPAT Testing continues and the risk of experiencing additional failures exists. The Contractor was required to complete an equipment failure causal analysis, which took longer than anticipated delaying the procurement of the new equipment.
While there are now over 105 Test Deficiency Reports, many associated with equipment operating anomalies and a number of design changes to existing configuration, the technical staff has been successful to date in addressing the balance of the challenges without impacting MPAT test duration or cost. The mitigation strategies were put in place, but a recovery action was added to aggressively pursue instrument failure analysis and corrective action implementation. As a result, the risk strategy has been changed to control.</td></tr>
<tr><td colspan="5">Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)</td></tr>
<tr><td colspan="5">No critical risks identified in the month of June.</td></tr>
<tr><td colspan="5">High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)</td></tr>
<tr><td colspan="5">FY2017 Risk Triggers (Risk could be realized in FY2017)</td></tr>
<tr><td>STP-103:
K Basin Pre-Operational Acceptance Testing (KPAT) & ECRTS Startup</td><td>The ECRTS equipment does not operate as expected requiring increased engineering, startup, operations, and construction Firm Fixed Price contractor support; as well as equipment replacement, procurement, and retesting. Realization of this risk would also require additional training, procedure revision, and design modifications as a result of construction testing and/or Lines of Inquiry for Readiness Review resulting in cost impacts and schedule delays.

Risk Handling Strategy: Control

Probability: Medium (26% to 74%)
Worst Case Impacts: $4.5 million, 90 days</td><td>  </td><td>  </td><td>Risk Trigger:
1) The ECRTS equipment does not operate as expected.
2) Unexpected attrition of critical testing personnel.
<table><tr><th>Mitigation action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>Conduct Full-scale testing of production hardware at MASF prior to installation at K-Basin to avoid costly replacement of malfunctioning equipment during Hot Startup.</td><td>7/31/16</td><td>0</td></tr><tr><td>Develop and refine procedures based upon feedback from testing and operations personnel.</td><td>TBD</td><td>0</td></tr><tr><td>Any Challenges identified at MASF will be resolved prior to completion of cold commissioning. (forecast for July 2016)</td><td>On-going</td><td>0</td></tr><tr><td>Develop streamline strategy (work packages and procedures) to perform in-basin/annex integrated testing and troubleshooting.</td><td>9/30/16</td><td>0</td></tr><tr><td>Utilize Overtime to offset schedule impacts.</td><td>As Needed</td><td>N/A</td></tr><tr><td>Closely monitor employee satisfaction and consider employee incentive to retain key test personnel.</td><td>As Needed</td><td>N/A</td></tr></table>Mitigation Assessment:
No changes in the month of June.
Forecasted mitigation dates are consistent with overall STP critical path schedule.</td></tr>
<tr><td colspan="5">FY2018 Risk Triggers (Risk could be realized in FY2018)</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-0012/WBS-012</td></tr>
<tr><td>STP-018-O: STP Operational Upset or Spill - During 1st STSC</td><td>An operational upset or spill results in a work shutdown at K Basins, resulting in schedule delays.
Risk Handling Strategy: Control

Probability: Medium (26% to 74%)
Worst Case Impacts: $1.3 million, 96 days</td><td>  </td><td>  </td><td>Risk Trigger:
1) An operational upset or spill results in work shutdown at K Basin. This risk will commence in FY2018 and continue throughout project lifecycle until sludge is removed from 105KW Basin.
<table><tr><th>Mitigation action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>Conduct rigorous startup testing following system installation at the 105KW Basin and Annex.</td><td>10/11/17</td><td>0</td></tr><tr><td>Conduct testing and training at MASF and develop procedures that use the information and knowledge gained during the activity for use at the KW Basin.</td><td>Ongoing</td><td>N/A</td></tr></table>Mitigation Assessment:
No changes in the month of June.
Forecasted mitigation dates are consistent with overall STP critical path schedule. Training and procedure development will continue into FY2018. It will complete prior to completion of management self-assessment affidavits in December 2017.</td></tr>
<tr><td>STP-073-C: Processing Efficiency - Retrieval & Shipping, During 1st STSC</td><td>The realized processing efficiency associated with sludge retrieval and shipping operations does not match baseline plan.
Risk Handling Strategy: Accept

Probability: Low (10% to 25%)
Worst Case Impacts: $0K, 8 days</td><td>  </td><td>  </td><td>Risk Trigger:
1) Actual processing efficiency associated with sludge retrieval and shipping operations does not match baseline assumptions. This risk will commence in FY2018 beginning with operations campaign.
<table><tr><th>Mitigation action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>None identified at this time.</td><td>N/A</td><td>N/A</td></tr></table>Mitigation Assessment:
No changes in the month of June.
Operations personnel were given training on the process system equipment and will continue to participate in training activities through production system installation at 100K. No foreseeable impacts in the near future and no alternative course of actions needed at this time.</td></tr>
<tr><td colspan="5">Unassigned Risks (Pending ownership of identified threats/opportunities)</td></tr>
<tr><td colspan="5">CHPRC proposed five risks that are outside of CHPRC's ability to manage and, as such, should be re-assigned to RL (STP-011D, STP-018, STP-073, STP-073-A, and STP-073-B). The proposal was not accepted by RL, stating, "…the opportunities and threats appear to be under the control of CHPRC to manage." CHPRC is continuing to evaluate the impacts of the risks proposed and is working on a letter correspondence to DOE.</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	6.2	5.8	4.3	(0.4)	-5.8%	1.5	25.3%

Numbers are rounded to the nearest $0.1 million

CM Schedule Performance (-$0.4M/-5.8%)
The variance is within reporting thresholds.

CM Cost Performance (+$1.5M/+25.3%)
A settlement was reached with the firm-fixed priced construction contractor for the KW Annex. An accrual adjustment of $1.5 million was posted in the month of June based on the final settlement with the contractor. The BCR is planned for August 2016 to move the funds to Management Reserve.

Contract-to-Date ($M)

RL-0012 Spent Nuclear Fuel Stabilization and Disposition	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance ($)	Schedule Variance (%)	Cost Variance ($)	Cost Variance (%)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)
Total	598.1	600.8	577.9	2.7	0.4%	22.9	3.8%	738.4	714.0	24.4

Numbers are rounded to the nearest $0.1 million

CTD Schedule Performance (+$2.7M/+0.4%)
The variance is within reporting thresholds.

CTD Cost Performance (+$22.9M/+3.8%)
The variance is within reporting thresholds.

Variance at Completion (+$24.4M/+3.3%)
The variance is within reporting thresholds.

Contract Performance Report Formats are provided in Appendix A.

FUNDS vs. SPEND FORECAST ($M)

RL-0012 Spent Nuclear Fuel Stabilization and Disposition	FY2016 Projected Funding	FY2016 Spending Forecast	FY2016 Spend Variance
Expense - Spending Forecast	53.0	44.2	8.8
Incremental Scope Pending Change Management	0.0	0.0	(0.0)
Expense - Subtotal	53.0	44.2	8.8
Line Item	68.1	30.5	37.6
Incremental Scope Pending Change Management	0.0	0.3	(0.3)
LI -Subtotal	68.1	30.8	37.3
RL-0012 – Total	**121.1**	**75.0**	**46.1**

Numbers are rounded to the nearest $0.1 million.

Funds/Variance Analysis

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

Critical Path Schedule

The critical path flows through performance of the MPAT at MASF, installation of process equipment at 100K Basin, K Basin Pre-operational acceptance testing (KPAT) of the facility modifications and annex process equipment, readiness activities, and finally, containerized sludge retrieval operations. Retrieval operations include the filling of STSCs with sludge and transferring them to T Plant, completing Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) milestone M-016-176, *Complete Sludge Removal from 105-KW Fuels Storage Basin* (milestone is outside contract period in FY2019).

Baseline Change Requests

BCR-012-16-023R0, *Correct ERDF Waste Resources in FY2017 and FY2018*
BCRA-012-16-025R0, *Modify/Add Logic Ties for T Plant Balance of Construction*
BCRA-012C-16-027R0, *Schedule Coding Changes*

MILESTONE STATUS

Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) milestones represent significant events in project execution. DOE Enforceable Agreement milestones were established to provide high-level visibility to critical deliverables and specific status on the accomplishment of these key events. The PMB Annual Update, implemented in September 2013, and subsequent approved BCRs define CHPRC planning with respect to Tri-Party Agreement milestones. The following table is the Tri-Party Agreement milestones within the CHPRC contract period (September 30, 2018).

Number	Title	Due Date	Actual Date	Forecast Date	Status/ Comment
M-016-175	Begin Sludge Removal from 105KW Fuel Storage Basin.	9/30/2018		8/27/2018	The forecast date includes schedule margin from the Project's risk analysis.
M-016-177	Complete installation of sludge transfer equipment in K West Reactor facilities	9/30/2017		6/01/2017	The forecast date does not include schedule margin.

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.

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

C. J. Simiele
Vice President for
Waste and Fuels
Management Project
(W&FMP)

June 2016
CHPRC-2016-06, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

W&FMP maintained facilities in a safe and compliant condition. Overall, the project is delivering planned efficiencies, but continues to be impacted by emerging work and realized risks. The WESF Stabilization and Ventilation Project (W-130) completed initial core drilling into Hot Pipe Trench to investigate communication between Hot Pipe Trench and B plant in preparation for grouting. W-130 also modified deionized water line modification in truck port to accommodate new duct. All Construction Completion Documents for Environmental Restoration Disposal Facility (ERDF) Transfer Pipeline Construction has been signed and operations turned over to 200 West Pump and Treat (P&T).

EMS Objectives and Target Status

Objective #	Objective	Target	Due Date	Status
16-EMS-WFMP-OB1-T1	Improve container labeling.	Reconcile data between SWITS and the Operating Record for 750 containers at CWC, and update container labeling for those containers (if needed).	9/30/16	100%
16-EMS-WFMP-OB1-T2	Improve consistency in RCRA inspections between WFM facilities.	Establish consistent format, language, approvals, and corrective action tracking standards for WFM RCRA inspections.	9/30/16	80%
16-EMS-WFMP-OB1-T3	Improve consistency in recordkeeping for RCRA inspections at CWC.	Evaluate and issue procedure for an automated RCRA Checklist and inspection system for CWC.	9/30/16	50%

TARGET ZERO PERFORMANCE

	CM Quantity	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	0	N/A
Total Recordable Injuries	0	2*	N/A *1 Recordable case, PTS in support of RL-0013.
First Aid Cases	4	25*	• 6/1/16 - Employee complained of itchy and burning arms from contact with fiberglass off deteriorated pole. Worker was transported to HPMC where she was examined and provided wound care. Worker was released with no restrictions. (24017) • 6/3/16 - Employee was evaluated at 200W HPMC for possible muscle strain after slipping on an empty waste tote strap. (24020) • 6/15/16 - Employee reported discomfort in his right shoulder while delivering freight and water. Shoulder became stiff and employee was transported to HPMC 200W, where employee was examined and released with restrictions. Returned to work with no restrictions. (24032)

	CM Quantity	Rolling 12 Month	Comment
			• 6/15/16 - Employee scraped wrist on the inside of metal garbage can causing an abrasion. Employee was transported to first-aid station in the 200 area. The treatment provided included: cleaning the wound, applying topical antibiotics and wound dressing. Returned to work with no restrictions. (24035) • *5 First Aid Cases, PTS in support of RL-0013.
Near Misses	0	1	N/A

KEY ACCOMPLISHMENTS

13.01 Project Management

- Ecology conducted a RCRA compliance inspection at WESF.

13.02 Capsule Storage & Disposition

- Performed/Completed:
  - 33 Preventive Maintenance (PM) work packages.

a. Capsule Extended Storage Project:

- The Technical Evaluation of the three proposals are currently in process by the Source Selection Committee.

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

- Performed/Completed:
  - Modification of deionized water line modification in truck port to accommodate new duct.
  - Instrument calibrations on K3N skid and K3N heater with temporary power.
  - High-efficiency particulate air (filter) head removal in Canyon for Cells B, C, D, E, and F. Completed initial core drilling into Hot Pipe Trench to investigate communication between Hot Pipe Trench and B Plant in preparation for grouting.

13.03 Canister Storage Building (CSB)

- Performed/Completed:
  - Tour of the CSB with W&FMP VP, Director and Department of Energy Headquarters (DOE HQ).
  - 26 PM packages.

13.06 TRU Repackaging

- Transuranic mixed (TRUM) waste completed and returned fiscal year to date – 363 m3.
  - Received new Super 7A Trailer.
- M-91 Alternative Study:
  - The annual update was transmitted to RL.
- Shipments Received:
  - Three waste boxes from PFNW into Central Waste Complex (CWC) in two shipments.

13.07 WRAP

- Performed/Completed:
  - Refrigerated Equipment Services (RES) with walk-down of 2404-WC HVAC units and glycol chiller units.
  - Hanford Fire Department (HFD) with correcting Emergency Impairment at 2404-WB.
- Surveillances/PMs:
  - 126 Surveillances.
  - 21 PM packages.

- Shipments Received:
  - Ten drums from PFP to Waste Receiving and Packaging (WRAP) in five shipments.

13.08 T Plant

- Performed/Completed:
  - Removed/Replaced cover Blocks for Cell 8R.
  - Re-lamping Canyon.
- Surveillances/PMs:
  - 476 Surveillances.
  - 33 PM packages.

13.09 CWC and Low Level Burial Grounds (LLBG)

- Performed/Completed:
  - Department of Ecology Resource Conservation and Recovery Act of 1976 (RCRA) compliance inspection of CWC.
  - Relocation of the rail tracks in Trench 94.
- Surveillances/PMs:
  - 22 PM packages.
  - 315 Surveillances.

13.11 Liquid Effluent Facilities

- ERDF Transfer Pipeline Construction:
  - Performed/Completed:
    - All Construction Completion Documents (CCD) signed and operations turned over to 200 West P&T.

13.12 Integrated Disposal Facility

- Completed monthly inspections.

13.14 Solid Waste Base Operations

- Environmental Enhancement:
  - Automated RCRA Inspection sheets CWC:
    - Continue software configuration.
  - SWOC:
    - Completing changes of CWC inspection procedure in PPS.
    - Drafting LLBG and WRAP inspection procedures.

13.16 Off Site Spent Nuclear Fuel Disposition

- Maintained coordination for offsite Spent Nuclear Fuel Disposition.

13.21 Mixed Waste Disposal Trenches (MWT)

- Completed:
  - 145 Surveillances.

MAJOR ISSUES

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

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

Status:
Continuing to use the best demonstrated available technology to provide adequate configuration and minimize the potential for contamination spread during the long-term storage (i.e., protecting boxes with tarps or protective shoring and over packing drums).

Issue:
The CSB FF-01 license contains a maximum stack flow rate of 9,000 Cubic Feet per Minute (CFM), while the monitoring system was verified to be in compliance with regulatory requirements at higher flow rates.

Corrective Action:
RL and WDOH were notified of the situation. Options to rectify the situation were evaluated. WDOH prefers an engineering evaluation by Pacific Northwest National Laboratory (PNNL) to justify use of flow rates less than 9,000 CFM, which the facility has predominately maintained since start up. This will also provide defensibility for past emission data. Engineering provided information to PNNL to support this evaluation. Following successful completion of the engineering evaluation, CHPRC/RL will submit a Notice of Construction (NOC) revision to modify the license to reflect the wider range of stack flow rates.

Status:
RL provided direction to proceed with the PNNL statistical analysis of the CSB stack flow data as well as data from other similar stacks. A contract was awarded to PNNL on July 29, 2015. PNNL supplied preliminary information on September 28, 2015, providing a basis for an expanded flow range. A meeting with RL and WDOH was held October 8, 2015 to present this preliminary data. On October 22, 2015 cleared copies were provided to WDOH for review. WDOH provided positive feedback on the PNNL presentation; but wanted one of six original tests to be re-performed at lower flow rates to validate the PNNL statistical analysis, which used test results from similar stacks for comparison. RL contractual approval was provided April 19, 2016 for the planning and conduct of the flow testing desired by WDOH. Work package planning completion and initiation of field testing (data collection) is planned to start in late July/early August 2016.

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

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

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

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

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

A. Leave MCO H-176 in its current location (Sample/Weld Pit #7).
B. Monitor, on a periodicity determined by Engineering, MCO H-176 temperature and pressure as displayed on the MCO shield plug gauges.
C. As conditions may require, sample and re-fill MCO H-176 to maintain inert gas pressures within the range specified in process standard PS-610.

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

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

CSB in is the process of requesting from RL an extension of the Final ORPS Report EM-RL—CPRC-CSB-2016-0001 and waiving of the Root Cause Analysis.

Associated non-conformance and delinquency (OCRWM) reports that were initiated upon backfilling the MCO are also pending closure at this time. They will be addressed concurrently with the Final ORPS Report, the determination of the Price Anderson Amendment Act status, resulting causal analyses, and follow-on corrective actions.

Issue:
MSA Cross-Connection Control Program recently performed a Health Hazard Level Re-evaluation following the guidance listed in Washington Administrative Code (WAC) 246-290-490, and internal MSA Cross-Connection Control procedures. During the course of this Re-evaluation, it was determined that the 225-B (WESF) Health Hazard Level needs adjustment from High to Severe to be in alignment with WAC 246-290-490 Section 4, requiring service connections to premises posing a severe health hazard to have cross-connection installed with either:

(A) Approved air gap installed for premises isolation; or
(B) Approved RPBA or RPDA installed for premises isolation in combination with an in plant approved air gap; or
(C) Approved Hanford Site water sources modification with downstream controls at facilities.

Corrective Action:
The WAC requires corrective action be accomplished "Within 90 days of the purveyor notifying the consumer ... "or, "In accordance with an alternate schedule acceptable to the purveyor." MSA intends to

work with the affected facilities and RL to develop corrective actions that minimize impacts to ongoing clean-up milestones.

Status:
Central Environmental has prepared and submitted a pre-existing condition notification to RL. A meeting was held on Thursday, April 28 with the MSA Water Purveyor to initiate discussions on a path forward. Additionally, at the request of RL, CHPRC prepared and presented a summary of the facility changes to compliantly isolate both potable and raw water connections. Both an approved in-plant air gap and an approved Reduced Pressure Backflow Assembly are required to meet the elevated hazard. Seven locations within the facility would require modification. RL is currently evaluating options presented by CHPRC and MSA.

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 monthly stoplight chart in the month of June.				
Realized Risks (Risks that are currently impacting project cost/schedule)				
WSD-125: Multi-Year Pause in Waste Processing Results in Unexpected Container Integrity Issues	A pause in waste processing results in an unexpected container degradation within SWOC (excluding TRU Retrieval activities) and require additional resources to respond. **Risk Handling Strategy:** Accept **Probability:** Likely (75% to 90%) **Worst Case Impacts:** $5 million, 0 day			**Risk Event:** In November 2011, degraded containers were discovered in CWC. **Risk recovery action(s)** / **Risk Date** / **FC Date** / **%** Perform daily/weekly waste container surveillances to identify container abnormalities. / 11/01/11 / On-Going / N/A Manage a "watch-list" of waste containers that have shown signs of degradation or are associated with degraded containers. / 11/01/11 / On-Going / N/A Overpack degraded waste packages. / 11/01/11 / 09/30/2016 / 0 Process waste packages at a rate funded by RL. / 11/01/11 / On-Going / N/A **Recovery Action Assessment:** Project continued to perform container surveillances in the month of June to identify container and container cover abnormalities. Overpack of 25 drum waste packages are scheduled to begin July 5, 2016 and complete prior to September 30, 2016. RL has authorized the overpack of an additional 50 drums in FY2016. The project will perform the overpack for Storage box 75DMA16F3, with a subsequent move into 2403WD, once resources become available. A letter is being drafted to request contract direction from RL regarding the definition of a satisfactory container when corrosion is evident. At this time it is undetermined on the timeframe to reach a conclusion.
WSD-W130-07: WESF W-130 Class 3 Permit modifications – Ecology	Significant comments or rejection from Ecology on the Class 3 permit modification and closure plan are issued, resulting in cost impacts and schedule delays. **Risk Handling Strategy:** Control **Probability:** Likely (75% to 90%) **Worst Case Impacts:** $0, 144 days *Cost increase will result in cost per day impacts from crews, and hotel load.			**Risk Event:** Risk was realized upon receipt of letter of incompleteness from Ecology on closure plan and Class III permit modifications. **Risk recovery action(s)** / **Risk Date** / **FC Date** / **%** Obtain second TA from Ecology to allow grouting activities to proceed without full permit approval. / 5/23/16 / Complete / 100 **Recovery Action Assessment:** All recovery actions for this risk have been completed. This risk was determined to no longer be a threat to the project and was closed. It will be removed from the monthly stoplight chart for July.

<table>
<tr><th rowspan="2">Risk Title</th><th rowspan="2">Unmitigated Risk Impacts</th><th colspan="2">Assessment</th><th rowspan="2">Comments</th></tr>
<tr><th>Month</th><th>Trend</th></tr>
<tr><td colspan="5">RL-0013/WBS-013</td></tr>
<tr><td>WSD-W130-17: Changes in the final design are needed after the design is issued</td><td>Changes in the final design are needed after the design is issued. Changes are driven by unexpected conditions, additional reviews of the design media, or field conditions. Design changes result in cost impacts and schedule delays.

Risk Handling Strategy: Control

Probability: Medium (26% to 74%)
Worst Case Impacts: $550K, 112 days</td><td>  </td><td>  </td><td>Risk Event:
Risk was realized when additional reviews of design media and K3N ventilation skid as-built conditions were analyzed during writing of test and operating procedures. Four separate issues have led to the realization of this risk:
1) Changes in fire suppression system design are necessary to allow leak testing of the full system due to limitations in the existing skid design.
2) K3N skid requires modifications to ensure proper operation at WESF.
3) Hot cell penetration sealing requires more work than planned.
4) Communication between hot pipe trench in WESF and B Plant causes grout to flow into B Plant during trench grouting.

<table>
<tr><th>Risk recovery action(s)</th><th>Risk Date</th><th>FC Date</th><th>%</th></tr>
<tr><td>Complete fabrication and installation of new fire suppression system</td><td rowspan="4">2/01/16</td><td>Complete</td><td>100</td></tr>
<tr><td>Perform electrical investigations in service gallery</td><td>Complete</td><td>100</td></tr>
<tr><td>Perform hot pipe trench investigative core drilling</td><td>Complete</td><td>100</td></tr>
<tr><td>Install spool piece in place of dampers to allow testing to progress</td><td>Complete</td><td>100</td></tr>
</table>

Recovery Action Assessment:
The design and modifications to the K3N skid have been completed. Work to perform electrical investigations in the service gallery have completed, however four additional electrical penetrations into the hot cells were identified in the A Cell airlock after a recent entry was made. A small one inch core has been drilled into the hot pipe trench to investigate the interface between WESF and B-Plant. The visual investigations proved inconclusive, however smoke tests have confirmed that there is an open communication path between B-Plant and WESF. Temperature readings have proven that elevated temperatures that would affect grouting is not a concern. Engineering for plugging the interface between the 2 facilities is in progress. At this time no further recovery actions are identified.</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">Lifecycle Risk Triggers (Risk could be realized at any point of the project)</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-019: MLLW & TRU Treatment Impacts</td><td>MLLW & TRU treatment capacity/capability does not meet Hanford needs or treatment does not occur as scheduled, resulting in cost impacts.
Risk Handling Strategy: Accept

Probability: Very Low (<10%)
Worst Case Impacts: $10 million, 0 day</td><td>  </td><td>  </td><td>Risk Trigger Metric: Will continue throughout contract (September 30, 2018).

<table>
<tr><th>Mitigation action(s)</th><th>FC Date</th><th>%</th></tr>
<tr><td>Established multiple treatment contracts for the processing of MLLW and TRU with terms extending to the end of the current CHPRC contract with RL (i.e., September 30, 2018).</td><td>On-Going</td><td>N/A</td></tr>
<tr><td>Continue to work with RL to fund the processing of TRU waste at PFNW at a rate in which keeps them viable (i.e., keeps the doors open).</td><td>On-Going</td><td>N/A</td></tr>
<tr><td>Work with RL and PFNW to increases the quantity of NRC defined special nuclear material (SNM) in PFNW’s Mixed Waste Facility (MWF). Their current limit is 200 grams of total Pu. The limit needs to be increased between 400 – 1,000 grams to allow for larger TRUM waste quantities to be received and processed at their MWF.</td><td>On-Going</td><td>N/A</td></tr>
</table>

Mitigation Assessment:
1) Two contracts are in place with offsite commercial waste treatment which provide sufficient capability/capacity to meet current MLLW demand through the end of the CHPRC contract term. Only PFNW is provided with current capability to process TRU/M waste. This is due solely on the practical limitations imposed by the need to ship the TRU/M waste via road-closure; therefore, additional commercial providers cannot be obtained.
2) Five additional legacy TRUM waste packages have been authorized for shipment to PFNW this fiscal year with five more waste packages that are awaiting authorization. These ten waste packages total ~200m3 which will maintain PFNW’s viability through the end of this fiscal year.

Beginning in early FY2017, it is anticipated that PFP will be making direct TRU waste shipments to PFNW during facility demolition. These shipments will provided enough waste to PFNW to keep them viable for all of FY2017 and possibly FY2018.
3) RL’s action to authorize and or fund this action.

If the TRUM waste generated from the PRF Canyon floor cleanout (J-Pan waste) requires treatment, it would significantly impact the projects ability to have sufficient treatment capability/capability at PFNW for the processing of Legacy TRUM waste to meet M-091-47C and -47D objectives for FY2017 and FY2018.

Current alternative course of action:
To minimize potential impacts to PFP, the plan is to send the PRF Canyon Floor waste to CWC for interim storage, and then if required, gradually ship the waste packages to PFNW for processing as license limits permit. However by doing this, RL-0013 will assume the regulatory risk associated with the waste (i.e., more stringent requirements under RCRA at CWC compared to under CERCLA at PFP); additionally, if treatment is required, it will still load up PFNW with respect to their Pu limits for several years which would significantly limit the shipment of other Pu containing waste (i.e., legacy large container TRU/M waste) to PFNW for processing.</td></tr>
<tr><td colspan="5">High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)</td></tr>
<tr><td colspan="5">Lifecycle Risk Triggers (Risk could be realized at any point of the project)</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-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: Low (10% to 25%)
Worst Case Impacts: $2 million, 33 days</td><td>  </td><td>  </td><td>Risk Trigger Metric:
During planned facility operations activities a suspect system component is discovered that requires attention, or an unexpected malfunction results in this risk being realized. This risk will continue throughout the CHPRC (September 30, 2018).
<table><tr><th>Mitigation action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>None identified at this time.</td><td>N/A</td><td>N/A</td></tr></table>
Mitigation Assessment:
No changes in the month of June.
The mitigation strategies have been put in place (i.e., aggressive S&M activities), as a result, the risk strategy is to accept with no further mitigation actions. Work to repair/replace the Crane rail clip is complete. The crane is currently operational. No alternative course of actions needed at this time.</td></tr>
<tr><td>WSD-136:CWC Components Fail</td><td>CWC facilities and components may reach their end of life or become obsolete. These items will need to be replaced and/or repaired outside of planned funding profiles, resulting in cost impacts.

Risk Handling Strategy: Accept

Probability: Medium (26% to 74%)
Worst Case Impacts: $1.5 million, 0 day</td><td>  </td><td>  </td><td>Risk Trigger Metric:
During planned facility operations activities a suspect system component is discovered that requires attention, or an unexpected malfunction results in this risk being realized. This risk will continue throughout the CHPRC (September 30, 2018).
<table><tr><th>Mitigation action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>None identified at this time.</td><td>N/A</td><td>N/A</td></tr></table>
Mitigation Assessment:
No changes in the month of June.
The mitigation strategies have been put in place (i.e., S&M activities), as a result, the risk strategy is to accept with no further mitigation actions. No alternative course of actions needed at this time.</td></tr>
<tr><td>WSD-137: OPP: Planned Efficiencies</td><td>Funding profile for the contract period are achieved through efficiencies.
Risk Handling Strategy: Exploit

Probability: Likely (75% to 90%)
Worst Case Impacts: $32 million, 0 day</td><td>  </td><td>  </td><td>Risk Trigger: Will continue throughout project lifecycle (September 30, 2018).
<table><tr><th>Opportunity action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>Plan work activities and procurements to be as efficient as possible with minimal resources.</td><td>On-Going</td><td>N/A</td></tr></table>
Opportunity Assessment:
No changes in the month of June.
The project is continuing implementation of planned efficiencies (approximately $58 million to date), however, due to impacts associated with increased regulatory scrutiny, maintenance lessons learned across CHPRC/ DOE Complex, and heightened compliance postures, forecasts will be updated to reflect a reduced level of efficiencies through the balance of the contract period of performance.</td></tr>
<tr><td colspan="5">FY2016 Risk Triggers (Risk could be realized in FY2016)</td></tr>
<tr><td>WSD-W130-18: Failure of WESF Hot Cell during Grouting</td><td>There is a risk that the capacity of the floor or walls of the hot cells cannot sustain the applied loads from grout and fails. In addition, a failure to the cover blocks and or the canyon floor result in cost impacts, and schedule delays.

Risk Handling Strategy: Control

Probability: Medium (26% to 74%)
Worst Case Impacts: $650K, 144 days</td><td>  </td><td>  </td><td>Risk Trigger Metric:
Initiation of hot cell grouting.
<table><tr><th>Mitigation action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>Compare actual grout fill volume with estimated value to determine if hot pipe trench has been filled.</td><td>9/30/16</td><td>0</td></tr><tr><td>Fill hot cells in 3 foot lifts to minimize sudden stress by allowing partial curing between lifts, as well as early detection of hot cell floor failure.</td><td>9/30/16</td><td>0</td></tr></table>
Mitigation Assessment:
No change in the month of June.
Structural evaluations and calculations have been completed and identified controls necessary during grouting (limit lifts of grout placement to 3 feet, compare actual grout volume placed to calculate estimated volume).
No alternative course of actions needed at this time.</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 the month of 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	6.1	6.6	6.9	0.5	8.0%	(0.3)	-5.3%

Numbers are rounded to the nearest $0.1 million

CM Schedule Performance (+0.5M/8.0%)

The current month favorable schedule variance is primarily due to schedule recovery from W-130, WESF K3 Exhaust Ventilation, earning BCWP that was planned in prior months and Super 7A trailer performance taken in June where planned in prior months. A slight offset of negative schedule performance in Burial Grounds CA/HCAs to URMAs where burial ground 3AE was planned in June, but completed in a prior period.

CM Cost Performance (-0.3M/-5.3%)

The current month unfavorable cost variance is due to additional labor resources and overtime, engineering support and materials on WESF Ventilation and Stabilization Project (W-130). The unfavorable performance is partially offset by positive performance in both W&FMP Project Management and SW Ready to Serve. W&FMP Project Management utilizing planned efficiencies (approximately 16+ FTEs below plan) while SW Ready to Serve is utilizing planned efficiencies as well as two Material Withdrawal Requests (MWR) have left the program. The recruitment process to refill is underway.

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

WBS 013/RL-0013 Waste and Fuels Management Project	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance ($)	Schedule Variance (%)	Cost Variance ($)	Cost Variance (%)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)
Total	1,059.5	1,058.8	994.2	(0.6)	-0.1%	64.7	6.1%	1,333.1	1,277.2	55.9

Numbers are rounded to the nearest $0.1 million

CTD Schedule Performance (-0.6M/-0.1%)

The schedule variance is within threshold.

CTD Cost Performance (+$64.7M/+6.1%)

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

Variance at Completion (+$55.9M/+4.2%)

The Variance at Completion is within threshold.

Contract Performance Report Formats are provided in Appendix A.

FUNDS vs. SPEND FORECAST ($M)

WBS 013/RL-0013 Waste and Fuels Management Project	FY2016 Projected Funding	FY2016 Spending Forecast	FY2016 Spend Variance
Spending Forecast	106.7	95.3	11.4
Incremental Scope Pending Change Management	0.0	10.3	(10.3)
RL-0013 – Total	106.7	105.6	1.1

Numbers are rounded to the nearest $0.1 million.

Funds/Variance Analysis
The FYSF was decreased from $106.1 million to $105.6 million due to applying resource efficiencies and forecasting based on current burn rate. Incremental Scope forecast decreased this month by $3.1 million due to an increase in NTE for WESF Ventilation & Stabilization Project, W-130.

Critical Path Schedule
WESF Ventilation & Stabilization Project, W-130, critical path shows a completion of PM-13-5-16 of October, 17, 2016. The project is evaluating options to regain schedule and pull the completion to September 30, 2016. Items under consideration are a change in execution approach and increasing the number of teams. Critical path analysis can be provided upon request.

Baseline Change Requests
BCRA-PRC-16-045R0, *HPIC Updates June 2016*
BCR-PRC-16-044R0, *Incorporate FY2016 Fee Adjustment for Analytical Services Change, Mod 493*

MILESTONE STATUS

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

Number	Title	Due Date	Actual Date	Forecast Date	Status/ Comment
M-091-03J	Submit Revision of TRUM Waste and MLLW PMP to Ecology	6/30/16	6/22/16	6/30/16	Completed
M-091-51	Submit secondary document for new or modified facilities to process all Hanford Site RH TRUM waste.	9/30/16		9/30/16	On Schedule
C-026-07K	Tritium Treatment Technology Developments to Ecology & EPA	3/31/17		3/31/17	On Schedule
M-091-03K	Submit Revision of TRUM Waste and MLLW PMP to Ecology	6/30/17		6/30/17	On Schedule
M-092-05	Determine Disposition Path and Establish Cs/Sr Interim Milestone	6/30/17		6/30/17	On Schedule

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

Contract Section	Project	GFS/I	Status
CONTRACT			
J.12/C.2.3.6	PBS-13, Transuranic Waste Certification	WIPP provides shipping resources and manages the schedule for transportation of these containers to WIPP. The schedule is variable and the number of shipments is controlled by DOE-HQ on a complex-wide priority. Cost for shipment of TRU waste offsite is borne by the CBFO.	Ongoing (pending restart of WIPP Shipments)

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

K. L. Wiemelt
Vice President and
Project Manager for
Soil and Groundwater
Remediation Project

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

June 2016
CHPRC-2016-06, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

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

Treatment Facility	Million Gallons Treated		Chrome (kg)		Carbon Tet (kg)		Nitrate as N (kg)		Tech-99 (pCi)		Uranium (kg)	
	CM	FYTD	CM	FYTD	CM	FYTD	CM	FYTD	CM	FYTD	CM	FYTD
DX P&T	31.5	295.4	4.8	53.7								
HX P&T	31.1	202.8	2.1	18.9								
KR-4 P&T	10.3	119.6	0.3	2.6								
KW P&T	0.0	107.2	0.0	5.5								
KX P&T	36.4	324.6	2.0	19.4								
200 West P&T	41.2	611.6	3.3	47.5	83.0	1414	3625	59010	$.22x10^{12}$	$2.2x10^{12}$	5.4	25.5
Combined	**150.5**	**1661.2**	**12.5**	**147.7**	**83.0**	**1414**	**3625**	**59010**	**$.22x10^{12}$**	**$2.2x10^{12}$**	**5.4**	**25.5**

Well Drilling by Area	FY2016 Planned	Current Month	FY2016 Cumulative
100-KR-4	3	-	-
100-HR-3	8	3	4
200-UP-1	7	-	1
200-UP-1 Chromium Plume	3	-	-
200-ZP-1 C9521	1	-	1
200-ZP-1 monitoring	2	-	2
M-24 Milestone 100-NR-2	6		0
M-24 Milestone C Farm	1	-	1
Vadose Zone	1	-	1
100-F I/U	8	4	8
Total Wells	**40**	**7**	**18**
Site Wide Boreholes	**25**	**5**	**17**

EMS Objectives and Target Status

Objective	Target	Actions	Due Date	Status	Overall Target Status
16-EMS-SGWR-OB1 Monitor and confirm low carbon tetrachloride emissions at the 200 West P&T Facility	T1 – Evaluate treated off gas analytical results from compliance sampling and process sampling each quarter.	Monitor and confirm low carbon tetrachloride emissions at the 200 West P&T Facility.	9/30/16	100%	75%
16-EMS-SGWR-OB2 More effective promotion of EMS	T1 – Promote and increase S&GRP project personnel EMS awareness via various means throughout FY2016.	Present four EMS topics to S&GRP personnel, typically during the S&GRP Monday Tailgate, S&GRP Supervisors' Meeting, or S&GRP All-Hands Meeting.	9/30/16	100%	100%
16-EMS-SGWR-OB3 Promote a more thorough understanding of the regulatory umbrella under which S&GRP conducts operations.	T1 – Promote and increase S&GRP project personnel environmental regulatory awareness via various means, targeting small group settings, throughout FY2016.	Facilitate four regulatory related discussions based on such topical areas as RCRA Permit, CERCLA Decision Documents, Waste Management, Air Permit, etc. These discussions would typically be targeted at smaller S&GRP group settings such as staff meetings, department meetings, PODs, etc.	9/30/16	50%	50%
16-EMS-SGWR-OB4 Reduce the risk of noncompliance with environmental requirements.	T1 – Develop compliance matrices for S&GRP P&T facilities CERCLA RD/RAWPs.	Identify implementing mechanisms and gaps for environmental requirements (i.e., requirement matrices) for the following RD/RAWPs: DOE/RL-96-84, Revision 0 and 0-A, DOE/RL-2006-52, DOE/RL-2006-75, and DOE/RL-2008-78.	9/30/16	55%	55%

TARGET ZERO PERFORMANCE

	CM Quantity	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	2	N/A
Total Recordable Injuries	0	3	N/A
First Aid Cases	7	*51	• 6/9/2016 – While performing routine duties involving lifting Radcon instruments in a bag, the employee experienced a throbbing pain in their shoulder. The employee was examined at Site Medical and was returned to work without restrictions. (24023) • 6/23/2016 – Employee was evaluated by personal physician and HPMC for ongoing pain in both wrists and was released to work without restrictions. (24041) • 6/23/2016 –Employee experienced pain in shoulder while lifting piping in a narrow area. Employee was taken to HPMC for evaluation and was returned to work without restrictions. (24040) • 6/27/2016 – Employee was evaluated at HPMC after an insect bite. The employee was given non-prescription topical ointment and released to work with no restriction. (24042) PTS • 6/29/2016 – Two employees smelled a pungent odor while working near MBR B. They were both taken to HPMC for evaluation and returned to work with no restrictions. (24045, 24046) • 6/30/2016 – Employee was evaluated at HPMC after an insect bite and released to work with no restriction. (24048) *10 FA cases, PTS in support of RL-0030.
Near-Misses	0	3	N/A

KEY ACCOMPLISHMENTS

RL-0030.O1 RL 30 Operations
River Corridor

100-BC-5 Operable Unit

- Transmitted the Decisional Draft 100-BC-5 RI/FS report to RL for review on June 6, 2016.

100-FR-3 Operable Unit

- Completed drilling and final acceptance of six remedy performance monitoring wells on June 22, 2016. Eight wells were drilled; however, two of the eight wells were discovered to have an insufficient water-bearing zone and were subsequently decommissioned.

100-HR-3 Operable Unit

- Completed the third and fourth aquifer pumping tests in June. The fifth (and final) pumping test is planned for the first week of July.

100-KR-4 Operable Unit

- Continued to monitor for the KW Rebound Study, which began on May 16, 2016.
- Initiated the three well drilling campaign as part of the P&T optimization activities.

100-NR-2 Operable Unit

- Initiated well installation for three of the six new monitoring wells.

Central Plateau

200-UP-1 Operable Unit

- Met with EPA on June 15, 2016, to discuss a path forward and completion criteria for meeting M-016-193.
- Provided a revised 200-UP-1 drilling SAP to RL on June 15, 2016, incorporating RL comments received through mid-June.

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

- Initiated construction of a pipeline extension to a second extraction well (E33-360) for the B-Complex extraction system.

200-SW-2 Operable Unit

- Obtained Ecology signature on the sampling and analysis plan (WP Appendix A) on June 6, 2016; obtained RL signature on the RI/FS WP and sampling and analysis plan on June 9, 2016.
- Supported RL in submitting the Revision 1 200-SW-2 RI/FS WP to Ecology and EPA on June 9, 2016. Ecology identified potential dispute on two text items (95 percent UCL process and human health direct contact alternative point of compliance).

200-DV-1 Operable Unit

- Completed sonic drilling of six boreholes as of June 19, 2016, (C9494, C9495, C9492, C9505, C9496 and C5907, respectively). Borehole C9507 (219-T-19) is the deep vadose zone borehole and it was drilled to a total depth of 243.4 ft. bgs. The successful sonic drilling of C9507 is significant as it demonstrates the ability to perform sonic drilling to deeper depths.
- Hydraulic test 3, long duration pumping from two (YE-28 and YE-29) of the three perched water wells, continues. This test is in day 43 of its 60 day pumping cycle with two extraction wells as of June 30, 2016.

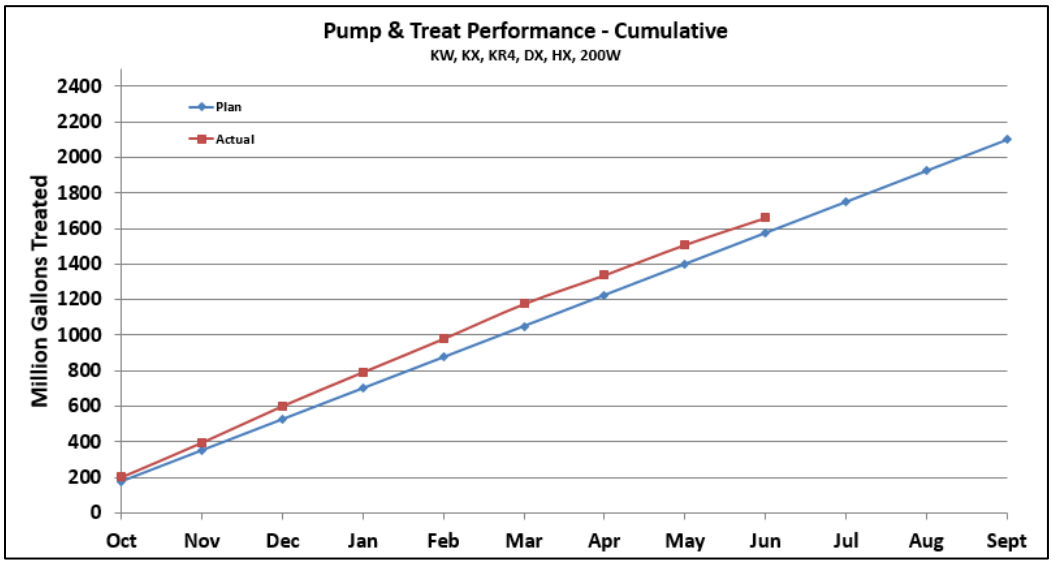
Groundwater P&T Facilities
200 West P&T

- Operated the 200 West P&T at an average of 986 gpm. Lower flow volumes have been experienced because Fluidized Bed Reactor (FBR) A was offline for repair.
- Completed Operations Acceptance Testing for the MBR cassette upgrade on June 21, 2016.
- Completed carbon addition and FBR A was placed back into service on June 28, 2016. Operations have commenced raising plant flows at a rate of 100 gpm per business day, provided facility data and parameters allow.

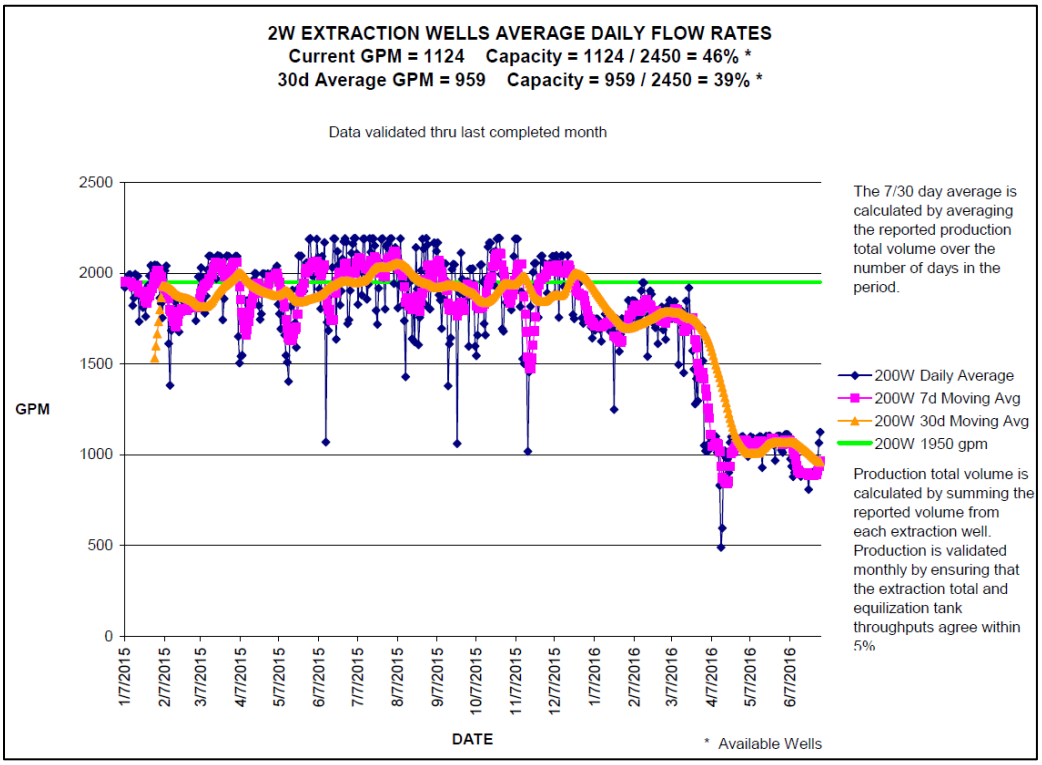
100 Area P&Ts

- Operated the DX P&T at 729 gpm, below the facility capacity of 775 gpm.
- Operated the KR-4 P&T at 238 gpm, below the facility capacity of 330 gpm.
- The KW P&T remains turned off to perform rebound study. Operated the KX P&T at 844 gpm, below the facility capacity of 900 gpm.
- Operated the HX P&T at maximum extraction well capacity. Monthly average at approximately 719 gpm.

FY2016 P&T Operations



200 West P&T



MAJOR ISSUES

Issue:
Experiencing regulatory agency delays in the approval of decision documents, including the legal reviews of the 100-D/H Proposed Plan (DOE/RL-2011-111), extended comment resolution on the 100-N RI/FS Report (DOE/RL-2012-15, Draft A), and Ecology approval of the 200-IS-1 Tri-Party Agreement change packages (C-013-01 and C-014-02), which affect the 200-IS-1 RI/FS Work Plan (DOE/RL-2010-114) scope definition.

Corrective Action:
Maintain visibility on these delays to senior management. RL/CHPRC to continue working with the regulatory agencies to facilitate completion of these documents. Submit Notice of Change (NOC) letters to RL as contract activities are impacted.

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

- 100-HR-3: Resolution of EPA legal comments on the proposed plan (PP) continues, but is expected to complete soon in order to support public review in July.

- 100-NR-2: Six new characterization/monitoring wells are being installed around the reactor area. The results from these wells, expected by the end of the fiscal year, will then be incorporated into the remedial investigation report. Discussions are underway to use some of the process improvements that were identified in the Kaizen meetings to help complete the feasibility study.
- 200-IS-1: Ecology continues to review change package C-13-01, which was provided on December 19, 2015. Dispute has been extended to August 1, 2016. No change.

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

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

Status:
Entry preparations were completed and repairs efforts by the vendor commenced on June 7, 2016. Repair efforts were completed to include hydrostatic testing on June 14, 2016. FBR A tank internals were installed, carbon added and placed back into service June 28, 2016.

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 to the risk stoplight chart in the month of June.				
Realized Risks (Risks that are currently impacting project cost/schedule)				
OPPORTUNITY: SGW-007A: Sampling Requirement Reduction	Reduction in field sampling (locations, frequency, or total number of samples collected) has the opportunity to reduce long-term groundwater monitoring cost. **Risk Handling Strategy:** Exploit **Probability:** Medium (26% to 74%) **Worst Case Impacts:** $3 million, 0 day			**Opportunity Event:** The *Optimization Plan to Revise the Groundwater Sampling Plan* is final and provides the roadmap to revise all groundwater SAPs over the next two years. **Opportunity action(s)** / **FC Date** / **%** Obtain Agency approval of the revised SAPs. / 9/30/16 / 70 **Opportunity Assessment:** All ten CERCLA groundwater monitoring SAPs have been revised and transmitted to RL and the regulators. Seven of the ten CERCLA SAPs are approved by RL and the Agencies, and are either implemented or in the process of being implemented. Comment resolution with the Agencies is on-going for two CERCLA SAPs (200-BP-5 and 200-PO-1). The revised 100-KR-4 SAP will be formally transmitted to EPA in July 2016 All 24 RCRA monitoring plans have been reviewed and revised, as appropriate. Twelve of the RCRA monitoring plans have been revised and transmitted to Ecology. We have received comments from Ecology on all but one monitoring plan (A/AX Farm). Three of the monitoring plans have been implemented and the remaining are in final comment disposition. CHPRC is planning to have them complete and implemented by calendar year-end. Monitoring under the new AEA plan has been implemented. No alternative course of actions are needed at this time.
PRC-005: Delayed Document Approvals	Required regulatory, nuclear safety, or transportation safety documents are not approved within the scheduled timeframes and impact CHPRC scheduled activities. **Risk Handling Strategy:** Transfer **Probability:** Very Likely (>90%) **Worst Case Impacts:** TBD			**Risk Event:** Progress on several key decision documents have been delayed due to regulator comments and resource availability: a) 100-D/H PP: Ecology comments on the draft Revision 0 100-D/H PP were not received within 30 days of transmittal (September 2014). As a result, it is not possible to complete the document within the timeframe identified in the Tri-Party Agreement without extensions. Multiple iterations of EPA legal review (3) have occurred. Final resolution of comments ongoing. b) 100-N RI/FS: Ecology comments on the Draft A 100-N RI/FS and PP were not received within 45 days of transmittal (June 2013). As a result, it is not possible to complete the document within the timeframe identified in the TPA without extensions. c) 200-IS-1 RI/FS Work Plan (WP): RL invoked dispute resolution on December 10, 2013, for Tri-Party Agreement milestone M-015-112, Submit Draft B 200-IS-1 OU RI/FS WP. Resolution of this dispute, which includes the 200-IS-1 OU waste sites and TSD/past practice status, is required before the Draft B RI/FS WP can be submitted. **Risk recovery action(s)** / **Risk Date** / **FC Date** / **%** Resolution with Ecology/EPA on Draft Revision 0 100-D/H PP. / 9/30/14 / 7/31/16 / 90 Resolution with Ecology on Draft A 100-N RI/FS Report. / 6/30/13 / 12/31/16 / 50

Risk Title	Unmitigated Risk Impacts	Assessment		Comments
		Month	Trend	
RL-0030/WBS-030				
				Complete waste site scope definition and dispute resolution with Ecology on Draft B 200-IS-1 RI/FS. | 12/31/13 | 8/30/16 | N/A **Risk Assessment:** a) 100-D/H PP: Meetings continue with EPA, Ecology and RL to resolve EPA's legal comments. A technical memorandum to evaluate approximately 106 100-D/H waste sites that were remediated following completion of the RI/FS is being finalized. Several meetings with the Agencies have occurred in order to support public review in July. b) 100-N RI/FS: The revised RI report files were provided to RL for review. This RI report incorporates Ecology's comments that have been resolved to date. The document comment disposition period of performance is through September 2016 (16-NWP-061). c) 200-IS-1 RI/FS WP: Ecology continues to review the revised change package C-13-01, which was submitted to Ecology on December 19, 2015. TPA milestone negotiations require one month following change package C-13-01 agreement. The dispute resolution period has been extended to August 1, 2016.
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)				
No critical risks identified in the month of June.				
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)				
No high risks identified in the month of June.				
Unassigned Risks (Pending ownership of identified risks/opportunities)				
No unassigned risks identified in the month of 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	11.1	12.0	9.3	0.9	7.7%	2.7	22.7%

Numbers are rounded to the nearest $0.1 million.

CM Schedule Performance (+$0.9M/+7.7%)

The positive schedule variance on the drilling program has resulted in the following:

- Favorable progress made on 100-HR-3 P&T optimization drilling campaign due to acceleration of drilling campaigns planned for FY2017 and FY2018 into FY2016.
- Favorable field conditions resulted in positive performance earned on 100-FR-3 final remedy monitoring well drilling and final acceptance. This positive variance will return to zero in the current fiscal year.
- Positive performance made on the ongoing 200-UP-1 monitoring well drilling campaigns, including recovery of drilling of FY2015 and FY2016 baselined campaigns to support TPA MS M-016-193 and initiation of road and pad installation for three SE chrome plume well campaign planned for FY2017 accelerated by approval of FY2016 buyback scope.

CM Cost Performance (+$2.7M/+22.7%)

The positive cost variance resulted from the following:

- Continuing to experience efficiencies in the Groundwater Monitoring and Performance Assessment account associated with lower analytical laboratory costs. These lower costs are due to the use of offsite laboratories, and lower geophysical logging costs during well drilling due to the competitive procurement process.
- The 100-FR-3 monitoring well drilling contract was competitively bid. The awarded contract value was lower than planned within the PMB. The wells have been completed and accepted.
- The 100-KR-4 Operable Unit experienced a savings in the form of P&T operations labor, sampling, analysis, shipping, and regeneration from replacing the Dowex 21K resin with SIR 700.
- Refurbishments/re-use of existing racks, competitive rates on road crossings, and strategy to align work site locations with parallel tie-in activities has resulted in economies being achieved on 100-HR-3 OU well realignment installation.
- The 200-ZP-1 Operable Unit experienced a positive current month cost variance on the performance of the MBR cassette installation and initiation of the operational acceptance testing. Installation proceeded more smoothly than anticipated resulting in the use of fewer resources (labor, UBS, subcontractor) than originally planned. Plant flows have been lowered to accommodate the MBR cassette installation and the FBR leak that is being repaired, resulting in lower operational costs (fewer chemicals, etc.).

Contract-to-Date ($M)

RL-0030 Soil and Groundwater Remediation	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance ($)	Schedule Variance (%)	Cost Variance ($)	Cost Variance (%)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)
Total	1,251.4	1,237.4	1,209.0	(14.0)	-1.1%	28.4	2.3%	1,564.8	1,505.7	59.1

Numbers are rounded to the nearest $0.1 million.

CTD Schedule Performance (-$14.0M/-1.1%)

The variance is within reporting thresholds.

CTD Cost Performance (+$28.4M/+2.3 %)

The variance is within reporting thresholds.

Variance at Completion (+$59.1/+3.8%)

The variance is within reporting thresholds.

Contract Performance Report Formats are provided in Appendix A.

FUNDS vs. SPEND FORECAST ($M)

RL-0030 Soil and Groundwater Remediation	FY2016 Projected Funding	FY2016 Spending Forecast	FY2016 Spend Variance
Spending Forecast	127.5	118.0	9.5
Incremental Scope Pending Change Management	0.0	1.1	(1.1)
RL-0030 –Total	127.5	119.2	8.3

Numbers are rounded to the nearest $0.1 million

Funds/Variance Analysis

RL-0030 FY2016 expected funding remains at $127.5 million. The FYSF of $119.2 million includes actions anticipated to meet funding targets.

Critical Path Schedule

Critical path analysis can be provided upon request.

Baseline Change Requests

BCRA-PRC-16-043R0, *Base Year Shift in Support of FY2017 Annual Update*

BCRA-PRC-16-045R0, *HPIC Updates June 2016*

MILESTONE STATUS

Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) milestones represent significant achievements in project execution. Enforceable Tri-Party Agreement milestones were established to provide high-level visibility to critical deliverables and specific status on the accomplishment of these key activities. The PMB Annual Update, implemented in September 2013, and subsequent approved BCRs define CHPRC planning with respect to Tri-Party Agreement milestones. A Tentative Agreement for Tri-Party Agreement Milestone series M-015, M-016, M-037, M-085 and M-094 was signed on October 26, 2015 and the final approval package was signed on May 25, 2016. The following table is a one year look ahead of RL-0030 Tri-Party Agreement enforceable milestones, non-enforceable target due dates and commitments. Eight milestones previously reported as part of the tentative agreement have been extended beyond June 2017.

Number	Title	Due Date	Actual Date	Forecast Date	Status/ Comment
Milestones in Dispute					
M-015-112	Submit Draft B, 200-IS-1 Operable Unit Pipeline System Waste Sites RFI/CMS/RI/FS Work Plan to Ecology	2/28/14		TBD	Dispute resolution extended to August 1, 2016 (TPA change control form M-15-13-02).
Milestones on Schedule or at Risk					
M-024-67-T01	Conclude Discussions of Well Commitments	8/1/16		8/1/16	On schedule
M-015-79	Submit RI/FS Report/PP for 100-BC-1/2/5 OUs for GW & Soil	12/15/16		12/15/16	On schedule
M-016-110-T03	Contain the Strontium-90 GW plume at the 100-NR-2 OU	12/31/16		2/16/21	At risk, unable to accomplish work due to Traditional Cultural Property (TCP)
M-024-58J	Initiate Discussions of Well Commitments	6/1/17		6/1/17	On schedule

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.

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

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

June 2016
CHPRC-2016-06, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

The project initiated repairs on the PUREX Stack Sampling System. The project removed class 1 & 2 asbestos material and completed electrical and mechanical isolations at REDOX facilities 2711S and 2718S.

EMS Objectives and Target Status

None currently identified.

TARGET ZERO PERFORMANCE

	Current Month	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	0	N/A
Total Recordable Injuries	0	0	N/A
First Aid Cases	1	4	• 6/27/2016 - Employee was using a hand-held radiation detection instrument for performing radiological surveys and felt chronic discomfort in the thenar part of the left thumb. Employee was examined by HPMC and diagnosed with chronic thumb pain. Was released to work with no new restrictions. (24043)
Near Misses	0	0	N/A

KEY ACCOMPLISHMENTS

- Operations/Maintenance:
  - Performed Boro Scope activity for a subsidence area south of door 18 at PUREX.
  - Performed REDOX entries for the purpose of performing Non-Destructive Assay on pu Bags. In addition, measurements were taken for Glove Bag Construction, Ventilation, Electrical, and Scaffolding.
  - Completed Cold and Dark activities on 2711S and 2718S.
  - Supported painting over Fixed Contamination Areas at 221-B at B-Plant.
  - Supported fence removal at REDOX in preparation for application of fixative on REDOX duct work.
  - Applied fixative on ducts at 2711-S as well as asbestos encapsulation on ducting on the South Side of REDOX.
  - HVAC seasonal maintenance completed for 252-AC.
  - Completed annual R-3/R-4 lube of exhaust fans at Fast Flux Test Facility (FFTF).
  - Continued Planning for work package for Plutonium Nitrate Bag removal.
  - Performed annual Staplex Air Sampler Calculation completed.

- Completed 221-BK Stack Flow Transmitter Calibration, 221-BK Air Clean-up Train 1&2 HEPA Filter Calibration, and 221-BK Temp Indicator Calibration.
- Completed removal of ~75' of TSI piping (glove bag) on the interior and exterior of the 275 EA facility.
- Actively working the Steam Line Annual surveillance.
- Removal of empty raven's nest on the south side of REDOX stairway. No radiological discrepancies were noted during Radiological Control Technician (RCT) surveys.
- Initiated PUREX Stack Sampling System repairs (will complete in July).
- Conducted 21 radiological facility surveillances. 165 Surveys performed YTD.
- Conducted 25 PM activities.

- Continued Progress on Canyon Stabilization Documents:
  - Closure Plan for the PUREX North RCRA tank closures was transmitted to RL with certifications from CHPRC. A tentative public comment date is set for July 18 for 60 days.
  - The REDOX FHA external comments have been incorporated; the document is ready for final issuance by CHPRC.
  - Contract to support the Deactivation planning at REDOX (silo, north sample gallery) was evaluated; a notice to proceed should be issued by June 27, 2016.
  - The revised B Plant EE/CA was provided informally to RL on June 22, 2016, this incorporates all of RL's requested changes. It is ready for full Ecology review.
  - The Removal Action Work Plan (RAWP) for 276BA, 222B, and 2716B was provided to RL on June 21, 2016 for review; this supports the closure of the 276BA tank and upcoming FY2017 scope.
  - The RAWP for PUREX ancillaries (203A and 211A) was drafted and provided for CHPRC internal review.
  - The 276-BA closure plan public comment was extended to August 9, 2016 due to regulator comments. Completed draft for the Temporary Authorization request and it is under review to request closure activities to commence.
- Demolish REDOX Ancillary Facilities:
  - Removed Class 1 & 2 Asbestos material from REDOX buildings 2711S and 2718S.
  - Completed electrical and mechanical isolations at 2711S.
  - Continued electrical and mechanical isolations at 2718S.

MAJOR ISSUES

None currently identified.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

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

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

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

Increased Confidence
No Change
Decreased Confidence

Risk Title	Unmitigated Risk Impacts	Assessment		Comments
		Month	Trend	
RL-0040/WBS-040				
Explanation of major changes to the project monthly stoplight chart: No major changes to the monthly stoplight chart in the month of June.				
Realized Risks (Risks that are currently impacting project cost/schedule)				
No realized risks for the month of June.				
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)				
No critical risks identified in the month of June.				
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)				
Lifecycle Risk Triggers (Risk could be realized at any point of the project)				
D4-064: Aging Building Systems/ Components	Problems with aging building systems/ components (e.g., roofing/structures, etc.) result in inoperability or requires unscheduled maintenance/ outages, resulting in cost impacts. **Risk Handling Strategy:** Accept **Probability:** Likely (75% to 90%) **Worst Case Impacts:** $2 million, 0 day			**Risk Trigger Metric:** During routine surveillance activities unforeseen events cause systems to be compromised. This is a lifecycle risk and will continue through the CHPRC (September 30, 2018). **Mitigation action(s)** / **FC Date** / **%** None identified at this time. / N/A / N/A **Mitigation Assessment:** During monthly routine surveillance activities it was identified that this risk was triggered based on several events with the PUREX Stack Sample System (i.e., bearing sheaves, belt replacement, damper repairs, heat trace failure, and sample line damaged). The project is in process of repairing the damaged sample line. In addition, a conceptual design has been provided to RL with an estimate for replacing the entire PUREX stack sample system. With this data, RL will be able to provide PRC direction on how to proceed, including the potential for a change proposal.
Unassigned Risks (Pending ownership of identified risks/opportunities)				
No unassigned risks identified in the month of 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	1.7	1.5	1.7	(0.2)	-12.2%	(0.2)	-13.6%

Numbers are rounded to the nearest $0.1 million

CM Schedule Performance: (-$0.2M/-12.2%)
The schedule variance is within reporting thresholds.

CM Cost Performance: ($-0.2M/-13.6%)
The cost variance is within reporting thresholds.

Contract-To-Date
($M)

WBS 040/ RL-0040 Nuclear Facility D&D	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance ($)	Schedule Variance (%)	Cost Variance ($)	Cost Variance (%)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)
Total	418.2	414.8	383.6	(3.5)	-0.8%	31.2	7.5%	469.1	446.7	22.4

Numbers are rounded to the nearest $0.1 million

CTD Schedule Performance: (-$3.5M/-0.8%)
The schedule variance is within reporting thresholds.

CTD Cost Performance: (+31.2M/+7.5%)
The favorable cost variance is due to prior year activity that has been previously reported including:

- ARRA-funded work scope included efficiencies with Program Management ($2.6 million), Cold and Dark and Characterization/Waste Identification Form teams ($4.0 million), lower than planned capital equipment costs ($3.0 million), efficiencies with Arid Lands Ecology (ALE) ($3.7 million) and North Slope Facilities ($1.2 million), disposition of railcars D&D ($2.1 million), and Industrial 7 Project ($3.6 million). This is offset by increased material and equipment costs, unexpected asbestos levels, and schedule delays in other ARRA D4 Projects (-$15.3 million). Efficiencies in Outer Area Waste Sites ($6.7 million) are primarily due to Remove, Treat, and Dispose (RTD) O-Zone Waste Sites, and ERDF pass back, which includes the operational efficiencies associated with use of the super dump truck. In addition, under runs in overhead allocation and Usage Based Services ($7.4 million) contributed to the favorable cost variance.
- The remaining CTD favorable cost variance in base-funded work is due to efficiencies for waste site remediation and D4 activities as a result of utilization of existing site equipment and less resources ($1.0 million), S&M costs less than expected ($3.5 million), U Plant completion of the sampling of Cell 30 with less resources than planned ($1.1 million), Program Management utilizing less resources ($3.7 million), Emergency Response activities ($0.8 million) and an underrun in overhead allocations ($2.1 million).

Variance at Completion (+$22.4M/+4.8%)
The Variance at Completion is within reporting thresholds.

Contract Performance Report Formats are provided in Appendix A.

FUNDS vs. SPEND FORECAST ($M)

	FY2016		
WBS 040/RL-0040 Nuclear Facility D&D	Projected Funding	Spending Forecast	Spend Variance
Spending Forecast	26.5	21.9	4.5
Incremental Scope Pending Change Management	0.0	2.7	(2.7)
RL-0040 – Total	26.5	24.7	1.8

Numbers are rounded to the nearest $0.1 million.

Funds/Variance Analysis
There is no change in direct funds for June. The FYSF decreased by $0.2 million from May to June.

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

Baseline Change Requests
BCRA-PRC-16-043R0, *Base Year Shift in Support of FY2017 Annual Update*
BCR-PRC-16-044R0, *Incorporate FY2016 Fee Adjustment for Analytical Services Change, Mod 493*

MILESTONE STATUS

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

Number	Title	Due Date	Actual Date	Forecast Date	Status/ Comment
M-016-250b	Submit to ECY a 3-year rolling prioritized schedule to implement waste site removal actions	3/31/2017		3/31/2017	On Schedule

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.

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

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

June 2016
CHPRC-2016-06, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

The project continued progress on the 165 KE Asbestos Abatement. Continued AB waste site remediation; design for the deep site was completed, waiting on approval from environmental for asbestos removal at 100-K-116. Completed multiple RCCC Transition change proposals.

EMS Objectives and Target Status

None currently identified.

TARGET ZERO PERFORMANCE

	Current Month	Rolling 12 Months	Comment
Days Away, Restricted or Transferred	0	0	N/A
Total Recordable Injuries	0	1	N/A
First Aid Cases	0	7	N/A
Near Misses	0	0	N/A

KEY ACCOMPLISHMENTS

- Area AB waste site remediation:
  - Design for the deep site was completed and the contractor is benched below – 20 ft. to 30 ft. and continuing with this in seven waste sites.
  - 100-K-116 will be in with other asbestos sites and will be worked as soon as approval is received from environmental.
  - Completed verification sampling instructions and waiting on review.
- RCCC Transition:
  - Completed change proposals submittals for the following to RL in response to CO #304, Initiate Transition of RCCC Scope Activities into the Plateau Remediation Contract in June 2016:
    - Implement RCCC Transition – RL-041
    - 618-10
    - 316-4
    - 600-63
    - Remaining Closure Operations (5 individual Sites)
  - Initiated estimates and PMB/CP document preparation for the Additional Sites/Facilities (29 total sites/facilities) requested on May 27, 2016 by RL CO via email direction.
    - Submitted PMB for the 15 Capital sites/facilities on June 27, 2016
    - Initiated Transition Item Checklist Due Diligence process for all Additional Sites/Facilities (29 sites/facilities)

- Submit Life-Cycle Baseline estimate for the 300-296 Project and other Capital Projects - Estimated submission date of June 27, 2016

- 300-296 Accomplishments:
  - Received an NTE of $2 million and authorization to proceed forward with 300-296 design completion activities.
  - Initiated design completion scope.

MAJOR ISSUES

None currently identified.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

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

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

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

Increased Confidence
No Change
Decreased Confidence

Risk Title	Unmitigated Risk Impacts	Assessment		Comments
		Month	Trend	
RL-0041/WBS-041				
Explanation of major changes to the project monthly stoplight chart: No major changes to the monthly stoplight chart in the month of June.				
Realized Risks (Risks that are currently impacting project cost/schedule)				
No realized risks for the month of June.				
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)				
No critical risks identified in the month of June.				
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)				
Lifecycle Risk Triggers (Risk could be realized at any point of the project)				
KBC-002: Subcontract Change Orders/Claims	Subcontracts for D4, soil remediation, and other field support services require revision based on discovery of changed conditions or completion requirements resulting in cost impacts and schedule delays. **Risk Handling Strategy:** Accept **Probability:** Low (10% to 25%) **Worst Case Impacts:** $1.5 million, 66 days			**Risk Trigger Metric:** Field condition changes, including but not limited to, the amount of waste containers provided for soil remediation on a daily basis. Additional field changes include the need to excavate a greater amount of soil than planned to complete remediation. **Mitigation action(s)** / **FC Date** / **%** None identified at this time. / N/A / N/A **Mitigation Assessment:** RL approved $7 million and authorized $5 million in funding for 100K Area cleanup. AB Waste Site soil remediation and asbestos site cleanup will continue with this funding, pending approval by RL of our request for both funding increase and tonnage increase beyond current contract values. At current production rate AB waste site remediation will need to be stopped on July 20, 2016 to prevent exceeding contract allowed tonnage. Due to competing priorities at RL-0011 and RL-0040, craft personnel numbers are not sufficient to maintain an acceptable production rate. Project management is considering demobilizing in July and re-starting only when adequate insulator resources (9 insulators) are available.
Unassigned Risks (Pending ownership of identified risks/opportunities)				
No unassigned risks identified in the month of June.				

PROJECT BASELINE PERFORMANCE
Current Month
($M)

WBS 041/RL-0041 Nuclear Facility D&D – River Corridor	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance ($)	Schedule Variance (%)	Cost Variance ($)	Cost Variance (%)
Total	1.8	3.3	2.7	1.5	86.3%	0.6	17.1%

Numbers are rounded to the nearest $0.1 million

CM Schedule Performance (+$1.5M/+86.3%)

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

CM Cost Performance (+$0.6M/+17.1%)

The current month cost positive cost variance is primarily due to efficiencies associated with shared resources to support AB Waste Sites, 165KE Asbestos Abatement, and other priority work scope.

Contract-to-Date
($M)

WBS 041/ RL-0041 Nuclear Facility D&D – River Corridor	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance ($)	Schedule Variance (%)	Cost Variance ($)	Cost Variance (%)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)
Total	332.1	339.7	308.1	7.6	2.3%	31.6	9.3%	408.2	364.1	44.1

Numbers are rounded to the nearest $0.1 million

CTD Schedule Performance (+$7.6M/+2.3%)

The schedule variance is within reporting thresholds.

CTD Cost Performance (+$31.6M/+9.3%)

The positive cost variance is primarily the result of prior year activity that have been previously reported and Confirmatory Sampling No Action (CSNA) waste sites that were completed early and under cost. In addition, less demolition was required for the KE Sedimentation Basin and there were underruns in G&A and Direct Distributable costs. This was partially offset by the cost overruns in prior years for the Utilities Project.

Variance at Completion (+$44.1M/+10.8%)

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

Contract Performance Report Formats are provided in Appendix A.

FUNDS vs. SPEND FORECAST ($M)

WBS 041/RL-0041 Nuclear Facility D&D – River Corridor	FY2016 Projected Funding	FY2016 Spending Forecast	FY2016 Spend Variance
Spending Forecast	28.7	28.7	(0.1)
Incremental Scope Pending Change Management	0	8.8	(8.8)
RL-0041 - Total	28.7	37.5	(8.9)

Numbers are rounded to the nearest $0.1 million.

Funds/Variance Analysis:
There was no change in project funding in June. The FYSF decreased by $1.3 million due to miscellaneous changes.

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

Baseline Change Requests
BCR-PRC-16-044R0, *Incorporate FY2016 Fee Adjustment for Analytical Services Change, Mod 493*
BCRA-PRC-16-045R0, *HPIC Updates June 2016*

MILESTONE STATUS

None currently identified.

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.

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

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

June 2016
CHPRC-2016-06, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

The FFTF is being Safe & Compliant in a low-cost surveillance and maintenance condition.

EMS OBJECTIVES AND TARGET STATUS

None currently identified.

TARGET ZERO PERFORMANCE

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

KEY ACCOMPLISHMENTS

- Completed all weekly and monthly maintenance/inspections with the 400 Area Water System.
- Worked preparations for 481/602 Three Month P-28 Pump Check.
- Worked preparations for 481 Three Month Sanitary Water Chlorinator Inspection.
- Completed:
  - One PM activity.
  - Five operational surveillances.
  - Five radiological surveillances.

MAJOR ISSUES

None currently identified.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

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

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

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

Increased Confidence
No Change
Decreased Confidence

Risk Title	Unmitigated Risk Impacts	Assessment		Comments
		Month	Trend	
RL-0042/WBS-042				
Explanation of major changes to the project monthly stoplight chart: No major changes to the risk profile for the month of June.				
Realized Risks (Risks that are currently impacting project cost/schedule)				
No realized risks for the month of June.				
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)				
No critical risks identified in the month of June.				
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)				
No high threat value risks identified in the month of June.				
Unassigned Risks (Pending ownership of identified risks/opportunities)				
No unassigned risks identified in the month of June.				

PROJECT BASELINE PERFORMANCE
Current Month
($M)

RL-0042 FFTF Closure	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance ($)	Schedule Variance (%)	Cost Variance ($)	Cost Variance (%)
Total	0.2	0.2	0.1	(0.0)	-2.5%	(0.0)	12.8%

Numbers are rounded to the nearest $0.1M

CM Schedule Performance: (-$0.0M/-2.5%)
The schedule variance is within reporting thresholds.

CM Cost Performance: (+$0.0M/+12.8%)
The cost variance is within reporting thresholds.

Contract-to-Date ($M)

RL-0042 FFTF Closure	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance ($)	Schedule Variance (%)	Cost Variance ($)	Cost Variance (%)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)
Total	21.6	21.6	17.6	0.0	0.1%	4.0	18.5%	26.5	22.8	3.7

Numbers are rounded to the nearest $0.1 million

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

CTD Cost Performance (+$4.0M/+18.5%)
The cost variance reflects efficient use of resources to support deactivation activities.

Variance at Completion (+$3.7M/+14.0%)
The Variance at Completion is within reporting thresholds.

Contract Performance Report Formats are provided in Appendix A.

FUNDS VS. SPEND FORECAST ($M)

	FY2016		
RL-0042 FFTF Closure	Projected Funding	Spending Forecast	Spend Variance
Spending Forecast	3.2	1.9	1.3
Incremental Scope Pending Change Management	0	0	0
RL-0042 – Total	3.2	1.9	1.3

Numbers are rounded to the nearest $0.1 million

Funds Analysis
Projected Funding remains unchanged from last month. The FYSF also remains unchanged.

Critical Path Schedule
Critical path analysis is not applicable to this project. The remaining contract scope is performance of interim surveillance and maintenance activities pending facility disposition.

Baseline Change Requests
None currently identified.

MILESTONE STATUS

None currently identified.

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.

Appendix A
Contract Performance Reports

Format 1 - Work Breakdown Structure

Format 2 - Organizational Categories

Format 3 - Baseline

Format 4 - Staffing

Format 5 - Explanation and Problem Analysis

ch2m

June 2016
CHPRC-2016-06, 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: Dollars

PENDING UPDATE TO: OMB No. 0704-0188

1. CONTRACTOR	2. CONTRACT	3. PROGRAM	4. REPORT PERIOD
a. NAME: CH2M HILL Plateau Remediation Company	a. NAME: Plateau Remediation Contract	a. NAME: Plateau Remediation Contract	a. FROM (YYYYMMDD): 2016 / 05 / 23
b. LOCATION (Address and ZIP Code): Richland, WA	b. NUMBER: RL14788	b. PHASE:	b. TO (YYYYMMDD): 2016 / 06 / 19
	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	5,561,895	24,043	240,589	5,802,484	5,674,029	5,802,484	5,802,484	

6. ESTIMATED COST AT COMPLETION

	MANAGEMENT ESTIMATE AT COMPLETION (1)	CONTRACT BUDGET BASE (2)	VARIANCE (3)
a. BEST CASE	5,366,744		
b. WORST CASE	5,446,450		
c. MOST LIKELY	5,433,439	5,585,938	152,499

7. AUTHORIZED CONTRACTOR REPRESENTATIVE

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

8. PERFORMANCE DATA

CAPN.PBS / ITEM (1)	CURRENT PERIOD: BUDGETED COST WORK SCHEDULED (2)	BUDGETED COST WORK PERFORMED (3)	ACTUAL COST WORK PERFORMED (4)	VARIANCE SCHEDULE (5)	VARIANCE COST (6)	CUMULATIVE TO DATE: BUDGETED COST WORK SCHEDULED (7)	BUDGETED COST WORK PERFORMED (8)	ACTUAL COST WORK PERFORMED (9)	VARIANCE SCHEDULE (10)	VARIANCE COST (11)	REPROGRAMMING ADJUSTMENTS: COST VARIANCE (12a)	SCHEDULE VARIANCE (12b)	BUDGET (13)	AT COMPLETION: BUDGETED (14)	ESTIMATED (15)	VARIANCE (16)
NA PBS Not Assigned	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RL-0011 Nuclear Mat Stab & Disp PFP	7,042	6,044	8,483	-999	-2,439	945,103	896,680	913,635	-48,423	-16,955	0	0	0	978,938	1,036,123	-57,185
RL-0012 SNF Stabilization & Disp	6,175	5,820	4,350	-355	1,470	598,116	600,793	577,916	2,677	22,877	0	0	0	738,302	713,895	24,407
RL-0013 Solid Waste Stab & Disp	6,112	6,598	6,946	486	-348	1,059,477	1,058,828	994,161	-649	64,667	0	0	0	1,332,665	1,276,721	55,944
RL-0030 Soil &Water Rem-Grndwtr/Vadose	11,140	11,997	9,270	857	2,727	1,251,398	1,237,420	1,209,012	-13,978	28,408	0	0	0	1,563,901	1,504,788	59,114
RL-0040 Nuc Fac D&D - Remainder Hanfrd	1,688	1,482	1,683	-206	-201	418,207	414,754	383,575	-3,453	31,179	0	0	0	469,135	446,714	22,421
RL-0041 Nuc Fac D&D - RC Closure Proj	1,778	3,311	2,745	1,534	567	332,105	339,687	308,124	7,582	31,563	0	0	0	405,893	361,834	44,058
RL-0042 Nuc Fac D&D - FFTF Proj	155	151	132	-4	19	21,565	21,580	17,589	15	3,990	0	0	0	26,468	22,772	3,696
b. COST OF MONEY N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
c. GENERAL AND ADMINISTRATIVE N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
d. UNDISTRIBUTED BUDGET														0	3,897	-3,897
e. SUBTOTAL	34,090	35,403	33,608	1,313	1,795	4,625,972	4,569,742	4,404,013	-56,230	165,729	0	0	0	5,515,301	5,366,744	148,557
f. MANAGEMENT RESERVE														66,696		
g. TOTAL	34,090	35,403	33,608	1,313	1,795	4,625,972	4,569,742	4,404,013	-56,230	165,729	0	0	0	5,581,997		

9. RECONCILIATION TO CONTRACT BUDGET BASELINE

a. VARIANCE ADJUSTMENT										0						
b. TOTAL CONTRACT VARIANCE									-56,230	165,729				5,581,997	5,366,744	215,253

CLASSIFICATION (When Filled In)

CLASSIFICATION (When Filled In)

CONTRACT PROGRAM MANAGEMENT REPORT
FORMAT 2 - ORGANIZATIONAL CATEGORIES

DOLLARS IN Dollars

PENDING UPDATE TO OMB No. 0704-0188

1. CONTRACTOR	2. CONTRACT		3. PROGRAM	4. REPORT PERIOD
a. NAME CH2M HILL Plateau Remediation Company	a. NAME Plateau Remediation Contract		a. NAME Plateau Remediation Contract	a. FROM *(YYYYMMDD)* 2016 / 05 / 23
b. LOCATION (Address and ZIP Code) Richland, WA	b. NUMBER RL14788		b. PHASE	b. TO *(YYYYMMDD)* 2016 / 06 / 19
	c. TYPE CPAF	d. SHARE RATIO	c. EVMS ACCEPTANCE NO: X YES *(YYYYMMDD)* 2009 / 09 / 18	

5. PERFORMANCE DATA

WBS.Resp Org Group	CURRENT PERIOD					CUMULATIVE TO DATE					REPROGRAMMING ADJUSTMENTS			AT COMPLETION		
	BUDGETED COST		ACTUAL	VARIANCE		BUDGETED COST		ACTUAL	VARIANCE					BUDGETED	ESTIMATED	VARIANCE
ITEM	WORK SCHEDULED	WORK PERFORMED	COST WORK PERFORMED	SCHEDULE	COST	WORK SCHEDULED	WORK PERFORMED	COST WORK PERFORMED	SCHEDULE	COST	COST VARIANCE	SCHEDULE VARIANCE	BUDGET			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12a)	(12b)	(13)	(14)	(15)	(16)
34 - Env Program & Strategic Plng	558	605	573	47	32	62,313	62,288	57,972	-25	4,316	0	0	0	82,402	80,555	1,847
35 - Business Services	0	0	0	0	0	472,524	472,524	448,488	0	24,036	0	0	0	472,524	448,488	24,036
36 - Prime Contract & Proj Integr	224	224	105	0	119	4,246	4,246	2,240	0	2,006	0	0	0	8,426	6,047	2,379
3B - PFP Closure Project	6,992	5,993	8,476	-999	-2,483	858,037	809,614	834,316	-48,423	-24,702	0	0	0	891,679	956,755	-65,076
3C - Waste & Fuels Management Project	6,766	7,243	7,395	478	-152	952,676	951,977	887,063	-699	64,914	0	0	0	1,227,853	1,171,659	56,194
3D - Soil & Groundwater Remediation	10,527	11,336	8,652	809	2,684	1,089,691	1,075,738	1,045,384	-13,953	30,355	0	0	0	1,380,710	1,317,262	63,448
3G - K Basin Oper & Plateau Remediation Project	9,024	10,001	8,407	977	1,594	1,186,484	1,193,355	1,128,550	6,870	64,805	0	0	0	1,451,707	1,382,081	69,626
Resp Org Not Assigned	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	3,897	-3,897
e. SUBTOTAL *(Performance Measurement Baseline)*	34,090	35,403	33,608	1,313	1,795	4,625,972	4,569,742	4,404,013	-56,230	165,729	0	0	0	5,515,301	5,366,744	148,557
f. MANAGEMENT RESERVE														66,696		
g. TOTAL	34,090	35,403	33,608	1,313	1,795	4,625,972	4,569,742	4,404,013	-56,230	165,729	0	0	0	5,581,997		

CLASSIFICATION (When Filled In)

CONTRACT PERFORMANCE REPORT

FORMAT 3 - BASELINE

DOLLARS IN THOUSANDS

Form Approved

OMB No. 0704-0188

1. CONTRACTOR	2. CONTRACT	3. PROGRAM	4. REPORT PERIOD
CH2M HILL Plateau Remediation Company	a. NAME: Plateau Remediation Contract	a. NAME: Plateau Remediation Contract	a. FROM: 2016/05/23
b. LOCATION:	b. NUMBER: RL14788	b. PHASE	b. TO: 2016/06/19
Richland, WA	c. TYPE: CPAF	c. EVMS ACCEPTANCE	
	d. SHARE RATIO:	NO YES X 9/18/2009	

5. CONTRACT DATA

a. ORIGINAL NEGOTIATED COST	b. NEGOTIATED CONTRACT CHANGE	c. CURRENT NEGOTIATED COST (A + B)	d. ESTIMATED COST AUTH UNPRICED WORK	e. CONTRACT BUDGET BASE (C + D)	f. TOTAL ALLOCATED BUDGET	g. DIFFERENCE (E - F)
4,312,366	$1,249,529	$5,561,895	$24,043	$5,585,938	$5,585,894	$45

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 (1)	BCWS CUM TO DATE (2)	BCWS FOR REPORT PERIOD (3)	SIX MONTH FORECAST +1 Jul-16 (4)	+2 Aug-16 (5)	+3 Sep-16 (6)	+4 Oct-16 (7)	+5 Nov-16 (8)	+6 Dec-16 (9)	FY09-13 (10)	FY14 (11)	FY15 (12)	FY16 (13)	FY17 (14)	FY18 (15)	UNDISTRIB BUDGET (16)	TOTAL BUDGET (17)
a. PM BASELINE																
(BEGIN OF PERIOD)	**4,591,883**	**34,102**	**41,006**	**31,852**	**44,493**	**34,570**	**32,726**	**35,986**	**3,391,477**	**391,653**	**471,323**	**488,884**	**414,754**	**360,480**	**3,752**	**5,522,322**
b. BASELINE CHANGES AUTH DURING REPORT PERIOD																
BCR-012-16-023R0 - Correct ERDF Waste Resources in FY2017 and FY2018												**(12)**	**(1,610)**	**(1,647)**	**145**	**(3,124)**
BCR-PRC-16-044R0 - Incorporate FY2016 Fee Adjustment for Analytical Services Change, Mod 493																**0**
c. PM BASELINE (END OF PERIOD)	**4,625,973**	**34,090**	**41,006**	**31,853**	**44,493**	**34,477**	**32,597**	**35,842**	**3,391,477**	**391,653**	**471,323**	**488,872**	**413,144**	**358,833**	**3,897**	**5,519,198**
7. MANAGEMENT RESERVE																**66,696**
8. TOTAL																**5,585,894**

CLASSIFICATION (When Filled In)

CONTRACT PROGRAM MANAGEMENT REPORT
FORMAT 4 - STAFFING

PENDING UPDATE TO OMB No. 0704-0188

1. CONTRACTOR	2. CONTRACT		3. PROGRAM	4. REPORT PERIOD
a. NAME CH2M HILL Plateau Remediation Company	a. NAME Plateau Remediation Contract		a. NAME Plateau Remediation Contract	a. FROM *(YYYYMMDD)* 2016 / 05 / 23
b. LOCATION (Address and ZIP Code) Richland, WA	b. NUMBER RL14788		b. PHASE	b. TO *(YYYYMMDD)* 2016 / 06 / 19
	c. TYPE CPAF	d. SHARE RATIO	c. EVMS ACCEPTANCE YES 2009 / 09 / 18	

5. PERFORMANCE DATA

Organizational Breakdown Structure (OBS)	ACTUAL CURRENT PERIOD	ACTUAL END OF CURRENT PERIOD *(Cumulative)*	FORECAST *(Non-Cumulative)* SIX MONTH FORECAST BY MONTH *(Enter names of months)*								AT COMPLETION
			+1 JUL 2016	+2 AUG 2016	+3 SEP 2016	+4 OCT 2016	+5 NOV 2016	+6 DEC 2016	REM FY2017	FY2018	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(11)	(12)	(15)
300 - Office of the President	16	630	5	5	5	6	6	6	48	63	781
303 - Internal Audit	6	406	5	5	5	5	5	5	40	60	541
304 - General Counsel	4	378	5	5	5	5	5	5	39	60	512
31 - Communications	8	890	11	11	10	9	9	9	72	108	1,137
32 - Safety Health Security & Quality	59	6,431	64	66	67	64	64	64	509	775	8,168
34 - Env Program & Strategic Plng	41	4,214	40	40	39	48	48	47	375	602	5,502
35 - Business Services	54	6,868	67	67	65	68	68	68	539	761	8,637
36 - Prime Contract & Proj Integr	52	4,199	59	60	58	68	68	68	538	643	5,827
38 - Project Technical Services	34	5,143	40	43	42	36	36	36	287	427	6,125
3B - PFP Closure Project	417	49,561	443	427	464	434	375	424	1,252	18	53,801
3C - Waste & Fuels Management Project	371	46,955	331	331	327	372	366	368	2,940	4,493	57,121
3D - Soil & Groundwater Remediation	319	33,115	287	281	269	296	298	293	2,338	3,639	41,951
3G - K Basin Oper & Plateau Remediation Projec	326	44,845	371	340	301	307	306	310	2,438	3,465	53,225
Resp Org Not Assigned	0	0	0	0	0	0	0	0	0	0	0
g. TOTAL DIRECT	1,705	203,636	1,727	1,681	1,657	1,717	1,653	1,702	11,416	15,114	243,329

CLASSIFICATION (When Filled In)

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

CLASSIFICATION (When Filled In)

CONTRACT PERFORMANCE REPORT
FORMAT 5 - EXPLANATIONS AND PROBLEM ANALYSES

FORM APPROVED
OMB No. 0704-0188

1. CONTRACTOR	2. CONTRACT		3. PROGRAM	4. REPORT PERIOD
a. NAME CH2M HILL Plateau Remediation Company	**a. NAME** Plateau Remediation Contract		**a. NAME** Plateau Remediation Contract	**a. FROM (YYYY/MM/DD)** **2016/05/23**
b. LOCATION (Address and ZIP Code) Richland, WA 99354	**b. NUMBER** DE-AC06-08RL14788		**b. PHASE** Base	**b. TO (YYYY/MM/DD)** **2016/06/19**
	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:	34,090	35,403	33,608	1,313	3.9%	1,795	5.1%	1.04	1.05
Cumulative:	4,625,973	4,569,742	4,404,013	(56,230)	-1.2%	165,729	3.6%	0.99	1.04
	BAC	EAC	VAC in $	VAC in %	TCPI				
At Complete:	5,519,198	5,366,673	152,525	2.8%	0.99				

Explanation of Variance/Description of Problem:

Current Period Schedule Variance: The variance is within reporting thresholds.

Current Period Cost Variance: The current month favorable cost variance is due to RL-0030 100-FR-3 monitoring well drilling contract value was lower than planned within the PMB, 100-KR-4 Operable Unit experienced a savings in the form of P&T operations labor, sampling, analysis, shipping, and regeneration from replacing the Dowex 21K resin with SIR 700, and the 200-ZP-1 Operable Unit experiencing smoother than anticipated installation of the Membrane Bio Reactor (MBR) cassette upgrade resulting in the use of fewer resources (labor, UBS, subcontractor) than originally planned. Partially offset by RL-0011 due to subcontracted labor support costs being higher than planned, consumable materials costing more than planned due to the extended time frame that is taking to complete discrete field work and more Personal Protective Equipment (PAPRs, SCBA, etc.) to support implementation of more conservative radiological controls are driving the increased costs for PFP to achieve Slab on Grade.

Cumulative Schedule Variance: The variance is within reporting thresholds.

Cumulative Cost Variance: The variance is within reporting thresholds.

Impact:

Current Period Schedule: The lifecycle EAC has been updated. No other significant impacts overall.

Current Period Cost: No significant impact overall, the lifecycle EAC has been updated.

Cumulative Schedule: N/A

Cumulative Cost: N/A

Corrective Action:

Current Period Schedule: No Corrective Actions are needed at this time; within threshold.

Current Period Cost: EAC has been adjusted accordingly.

Cumulative Schedule: N/A

Cumulative Cost: N/A

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

CHPRC continues to track completion of contract scope within budget and is currently projecting a Variance at Completion of $152.5 million with $66.7 million of Management Reserve (MR) for a total positive variance of $219.2 million. For June, the project was 3.9 percent ahead of schedule and 5.1 percent under planned cost. CTD, the project was 1.2 percent behind schedule and 3.6 percent under planned cost.

There were two significant BCRs in the period that impacted the PMB; BCR-012-16-023R0 – *Correct ERDF Waste Resources in FY2017 and FY2018* and BCR-PRC-16-044R0 – *Incorporate FY2016 Fee Adjustment for Analytical Services Change, Mod 493*.

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 +$152.5 million, +2.8% and is within reporting thresholds.

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

Format 1 and 3 Contract Data: **Contract Price Adjustments**

CPs - In Process		
	Total Authorized Unpriced Work	**$24,043**
Approved Adjustments to Contract Price (not reflected in B.4-1 Table)		
	Total Negotiated Cost Changes	**-**
	Grand Total Adjustments	**$24,043**

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

Undistributed Budget Activity

BCR Number	Title	Fiscal Year	UB
BCR-012-16-023R0	*Correct ERDF Waste Resources in FY2017 and FY2018*	2015 - 2018	$ 145K

The Undistributed Budget increased by $145K for an overall decrease to the PMB of $3,124K during June.

Management Reserve Activity

BCR Number	Title	Fiscal Year	MR
BCR-012-16-023R0	*Correct ERDF Waste Resources in FY2017 and FY2018*	2015 - 2018	$ 3,124K

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

Fee Activity

BCR Number	Title	Fiscal Year	Fee
BCR-PRC-16-044R0	*Incorporate FY2016 Fee Adjustment for Analytical Services Change, Mod 493*	2015 - 2018	$1,250K

Overall, there was an increase $1,250K to 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	7/18/2016		

Appendix B
Project Services and Support
(WBS 000)

T. L. Vaughn
Vice President for
Safety, Health, Security
and Quality

M. A. Wright
Vice President for
Project Technical
Services

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

D. A. Millikin
Director of
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R. M. Millikin
Vice President for
Prime Contract and
Project Integration

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

June 2016
CHPRC-2016-06, 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.

EMS Objectives and Target Status

Objective #	Objective	Target	Due Date	Status
16-EMS-ADMIN-OB1-T1	Reduce energy intensity.	Increase facility occupancy rates to greater than 82 percent by compressing occupancy and vacating underutilized facilities. Vacated/unoccupied facilities declared unusable and designated inactive placed in Care Taker System.	9/30/16	40%
16-EMS-ADMIN-OB2-T1	Maximize the acquisition and use of environmentally preferable products in the conduct of operations.	Establish/utilize green catalogs to maximum extent for products beyond office supply purchases on the web site.	10/9/16*	25%
16-EMS-ADMIN-OB3-T1	Energy and natural resource conservation.	Establish electronic signature system for contracts using Adobe Acrobat.	9/30/16	80%
16-EMS-PTS-OB1-T1	Reduce the potential generation and release of toxic, hazardous, and non-regulated chemical materials to the environment, evaluate for compliance with universal waste and other recycling requirements, and identify opportunities for waste reduction.	Monitor and evaluate spill prevention program and existing techniques to reduce and/or eliminate spills to the environment by surveillances, on-going training.	9/30/16	74%
16-EMS-PTS-OB2-T1	Increase chemical management oversight of subcontractors and PTS operations.	Increase chemical management oversight of subcontracts, evaluate chemical procurement methods, identify expired chemicals, track, and properly dispose of expired chemicals. Perform quarterly assessment on chemical inventory locations.	9/30/16	54%

*This O&T cannot be closed out completely until after FY2016 ends. Progress will be at least 60 percent by July 31, 2016.

TARGET ZERO PERFORMANCE

	Current Month	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	0	N/A
Total Recordable Injuries	0	1	N/A
First Aid Cases	0	5	N/A
Near-Misses	0	0	N/A

KEY ACCOMPLISHMENTS

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

- SHS&Q activities provide support and technical services to all CHPRC projects and central management of crosscutting services. There were no injuries during the month of June in the functional groups.
  - Occupational Safety and Industrial Hygiene (OS&IH) accomplishments:
    - Continued support of site-wide standards committees and site-wide steering committees.
    - Continued implementation of the Chronic Beryllium Disease Prevention Program (CBDPP) Revision 2A. Beryllium assessments have been completed on 1279 CHPRC facilities. Beryllium characterizations have been completed on 1211 CHPRC facilities.
    - Continued reviewing RCCC transition preliminary facilities transfer list Beryllium assessments.
    - Hazard Review Board support to projects.
    - Continued to provide support to the PFP, PTS, and KBO&PR for respiratory protection issues.
    - Continued support to projects on oversight of confined space work activities.
    - Assisted and supported W&FMP for 324 Confined Space determination on ventilation compartments.
    - Continued to provide support to projects to approve additional competent/qualified personnel for DOE-0360 Revision 1, *Confined Space*.
    - Support to KBO&PR, PTS, PFP and W&FMP on Fall Protection Work Permit (FPWP) reviews.
    - Provided support to W&FMP in the development of FPWP for 324 Building Stack activities, WRAP Stack access.
    - Provided support to W&FMP for FPWP development for WESF ventilation activities.
    - Provided support to KBO&PR in the development of FPWP for PUREX Stack access.
    - Assisted W&FMP and KB&POR with fixed ladder issues.
    - Participated on committee for endorsed Scaffold Procedure development.
    - Support to projects on scaffolding program requirements.
    - Provided support for Globally Harmonized System and Chemical Management implementation across projects.
    - Provided training to Facility Chemical Custodians for Chemical Management Program.

- Supported S&GRP with confined space work permit for FBRA entry.
- Provided support to PFP, W&FMP, PTS, and KBO&PR for asbestos characterization activities.
- Assisted with Surveillance and Maintenance in resolving the REDOX stop work involving asbestos issue.
- Assisted PTS with Lead control plan for Trench 94.
- Assisted W&FMP with developing a path forward on Trench 94 excavation issues.
- Provided training and mentoring support to project OS&IH for ergonomic evaluation process.
- Facilitated implementation of the Respiratory Protection Electronic Tracking program across the projects and 90 percent implemented.
- Assisted PFP in development of a robust maintenance program for MSA TL PAPRs due to increase in usage.
- Assisted in updating job aids for user inspections.
- Working with Hanford Fire Department (HFD) to develop robust maintenance and tracking instructions.

o Radiological Control accomplishments:
- Completed High Wind Event response evaluation for Hanford Site RadCon forum submittal.
- Continued support for Survey Simple, to include V5.3 update.
- Continued oversight at PFP for specific high hazard activities (242Z and PRF Canyon).
- Continued support for project Hazard Review Boards, In-Progress ALARA Reviews and causal evaluations.
- Continued support of RCCC transition planning activities.
- Performed oversight for radiological surveys conducted at 618-10.
- Provided Rad Work Planning Refresher Training.
- Revised PRC-PRO-RP-40109, *Radiological Work Planning*, and PRC-PRO-RP-40021, *Radiological Work Permits*, adding extremity dose monitoring and controls to prevent ACL exceedances.
- Supported Training Review Board for RCT.
- Reviewed and approved Technical Evaluation for CPS&M (Misc. Plutonium Facilities).
- Provided CSP training course to CPS&M, SWOC, and 100K personnel.

o Nuclear Operations Support & Compliance accomplishments:
- Safety Basis documents and letters transmitted to RL include:
  - Letter, CHPRC-1602815 dated June 22, 2016, *Transmittal of the Evaluation of Safety of the Situation, the Operability Evaluation, and the Unreviewed Safety Question Determination for the Canister Storage Building Multi-Canister Overpack H176*.
  - Letter, CHPRC-1602494, dated June 23, 2016, *Transmittal of the Documented Safety Analysis for the 216-Z-9 Waste Storage Crib Facility, HNF-58818, Revision 0, the 216-Z-9 Waste Crib Facility Technical Safety Requirements, HNF-59125, Revision 0, and the Fire Hazards Analysis for 216-Z-9 Complex and Tank 241-Z-361, CHPRC-02870, Revision 1*.
  - Letter, CHPRC-1503739.1, dated June 28, 2016, *Transmittal of the Annual Update to the Tank 241-Z-361 Documented Safety Analysis, HNF-20503, Revision 2, the Tank 241-Z-361 Technical Safety Requirements, HNF-20504, Revision 3, and the Fire Hazards Analysis for 216-Z-9 Complex and Tank 241-Z-361, CHPRC-02870, Revision 1*.

- Letters received from RL:
  - Letter, 16-SEI-0106, dated June 9, 2016, *Request for Approval of the 216-Z-9 and 241-Z-361 Emergency Hazards Assessment, CHPRC-02766, Revision 0.*
- Other
  - Letter, CHPRC-1602837 dated June 28, 2016, *Request for Approval of the Waste Encapsulation and Storage Facility (WESF) Emergency Planning Hazards Assessment, HNF-4013, Revision 7.*
  - Completed CHPRC-02929, Revision 0, *Test Plan for In-Field Evaluation of Gore-Tex Nuclear Filters.*
  - Completed CHPRC-02837, Revision 1/1A, *Internal Load Securement Plan for NLOP Equipment in 1800-TL Containers.*
  - Completed CHPRC-02975, Revision 0, *Procurement Specification for 6 ft. x 3 ft. x 3 ft. DOT Specification 7A Container with Grout Ports.*
  - Provided *Criticality Safety Training for Support D&D Workers*.

o Contractor Assurance Regulatory Reporting (CARR) accomplishments:
- 230 Condition Reports (CRs) were screened:
  - Two significant issue identified.
  - One Adverse issue identified.
  - 129 Track until Fixed (TUF) issues identified.
  - 42 Trend Only (TO) items identified.
  - 52 Opportunity for Improvement (OFI) items identified.
  - Four Screened Out.
- 188 CRs administratively closed.
- 306 CR actions administratively closed.
- Continued to provide Issues Management support to PFP.
- Transmitted Notification ORPS report for EM-RL--CPRC-PFP-2016-0006, *Discovery of Lead Shielding during Size Reduction of Glovebox HC-6*; EM-RL--CPRC-PFP-2016-0007, *Glove Breach in 242-Z*; and EM-RL--CPRC-PFP-2016-0008, *Malfunction during Maintenance Results in Unexpected Activation of Criticality Horns.*
- Completed Root Cause Evaluation and transmitted Final ORPS report for EM-RL--CPRC-PFP-2016-0005, *Near Miss – Transportation of Pencil Tanks.*
- Completed Apparent Cause Evaluation for EM-RL--CPRC-PFP-2016-0004, *Technical Error in Implementation of Plug and Cord Exception.*
- Provided support and coordination for the Bi-Monthly a conference call with the DNFSB to discuss the PFP demolition planning and readiness assessment status as well as the Bi-Monthly DNFSB Site Representative Meeting.
- Fifteen documents were provided in response to DNFSB requests for information.
- Provided support and coordination of the monthly DNFSB/STP conference status call.
- Submitted Noncompliance Tracking System report NTS-RL--CPRC-PRCGEN-2016-0001, *GREENLEE Motor Rotation Indicator Failed Catastrophically While Performing Phase Rotation Checks.*
- Provided Course 600082, *Responsible Manager – Issues Management*, to 22 employees.
- One external Lessons Learned and one external Just-In-Time report were submitted to OPEXShare in June 2016: 2016-RL-HNF-0010, *Step Back and See the Forest* (external); and 2016-RL-HNF-0009, *Incorrect Test Meter Used on Energized Equipment* (external).

- Performance Oversight, Assessment, and Quality Assurance accomplishments:
  - Completed in-field activities for the 10 CFR 835, Subpart C, *Standards for Internal and External Exposure*, surveillance activity scheduled through July.
  - Provided specific mentoring and feedback to assessors and responsible managers that conducted management assessments. Feedback was provided to help improve the quality, including clarity and readability of future reports.
  - Conducted in-field activities as part of the *Unanticipated Chemical Reaction during Waste Load-Out* Effectiveness Review at PFP.
  - Continued to work on periodic review of QA-298, Nonconformance Report of Items procedure.
  - Continued assistance, support and overview of Field Automated Checklist Tracking System, (FACTS) for Waste and Fuels organization.
  - Assisted in Integrated Evaluation Plan (IEP) Tool Software Testing.
  - Supported on-site portion of a CH2M Corporate Audit on the OCRWM QA Program
  - Facilitated an Assessment Planning Workshop on June 15, 2016.
  - Issued the FY2017 Integrated Evaluation Plan Planning Call Letter.
  - Uploaded FY2017 Required Assessments to the Assessment Toolbox on the Performance Assurance webpage.
  - Performed Surveillance on PFP preparations for Readiness Assessment to commence demolition.
  - Supported upgrade and testing efforts to restore PFP Criticality Alarm back to service.
  - Supported T-Plant dedication and upgrade efforts to restore ventilation fan to service.
  - Provided two "Do Work Safely" training sessions to new PFP employees.
  - Led two workshop activities in support of the FY2015 Safety Culture Survey.
- Fire Protection accomplishments:
  - Fire Protection continues to progress on many issues, but staffing levels are still lower than work load driven needs.
  - IT&M issues are still a factor in reaching full compliance with regulatory requirements.
  - Combustible controls processes and procedures in Building 324 were discussed with the intent of a more manageable method of compliance.
  - The due diligence report for 618-10 is nearing completion and should be done in early July.
  - A fire suppression sprinkler system modification review for the WESF W-130 Project resulted in a determination the existing sprinkler system does not meet the hydraulic performance required. A modification to the system will be required to resolve the deficiency.
  - The following assessment activities were completed:
    - SWOC:
      - 2X-16-02582/S, LLBG 3 month Combustible Surveillance.
      - W1-16-02595/S, WRAP 3 month Combustible Fire Surveillance.
      - 2X-16-02583/S, CWC 1 Year FHA Key Assumption Assessment.
    - PFP:
      - SR 5 12 4.2 – Monthly Inspection of sprinkler deactivation or deviation areas.
      - SR 5.18.4.2 – Monthly inspection of facility and exterior for compliance with fire protection combustible controls.
      - SR 5.19.4.3 – Monthly inspection of facility for energized power cords, energized battery chargers and spontaneous ignition source material.
      - SAC 5.20.2 – Bi-weekly inspection of front side ventilation zone 1 areas – performed by FSO (2).

- Facility Fire Protection Assessments:
  - Multiple FFPAs were started in June, most are nearing completion. The activities are being conducted by Associate Fire Protection Engineers and mentored by Qualified Fire Protection Engineers (FPE).
- FHA:
  - The 105KW Complex FHA is in technical editing.
  - The T Plant FHA has been published.
  - The REDOX FHA has been published.
  - The 241-Z-361 and 216-Z-9 has been published.
  - The PUREX FHA is in technical editing.
  - The SWOC FHA has been published.
  - The WESF FHA is nearing completion.
  - Building 402 FHA is being developed.
  - Building 324 FHA needs to be rewritten for the 300-296 Project.

- Status of SHS&Q Focus Areas:
  - **Issue:** Beryllium (Be) program assessment findings from DOE-HQ, Office of Safety, Health and Security Independent Oversight Inspection report.
  - **Status:** Continued implementation of Revision 2A across CHPRC. Comment resolution is complete for Revision 3 will be issued soon.
  - **Action:** Beryllium (Be) facility assessments and characterization continues as scheduled. Beryllium facility assessments have been completed on 1279 CHPRC facilities. RCCC work scope is being reviewed for Be implementation and potential concerns for due diligence prior to transition to CHPRC.
  - **Issue:** Accident & Injury Reduction.
  - **Status:** Continue investigating recordable, DART, and first aid injuries to determine cause, prevention, reduction, to prevent recurrence.
  - **Action:** Continue interface with project personnel, supporting EZAC and project safety meetings for continued focus on injury prevention. Recordable injury trend across CHPRC has improved, but continued focus is necessary. Projects are implementing additional actions, to reduce injuries and first aids.
  - **Issue:** PFP Support.
  - **Status:** Supporting PFP with dedicated OS&IH personnel and RadCon personnel, from the SHS&Q Central group for oversight of high risk work activities.
  - **Action:** Supporting PFP initiatives, supplied breathing air system issues; radiological & safety oversight, clearance survey plan upgrades, demo readiness preparations, ACL extensions, and J plan waste path forward.
  - **Issue:** Fire Protection program weaknesses.
  - **Status:** Program weaknesses continue to be identified and corrective actions continue to improve program.
  - **Action:** Continued interface with MSA to work off CHPRC back log items on the MSA IT&M log and to improve MSA HFD support to CHPRC projects. Continued focus on recent workshop actions and path forward.

Environmental Program and Strategic Planning (EP&SP)
Environmental Protection

- **Compliance Status**
  - With RL, met with Washington State Department of Health (WDOH) concerning the General Notices of Potential Violation issued to RL for CSB (air sampling outside of qualified stack flow range), PUREX (loss of monitoring in March 2015), and PUREX and B Plant (lack of CAMs on

stacks). Indications are there will no violation for CSB, and a notice of violation for loss of PUREX monitoring (but no penalty). WDOH appears undecided on the PUREX and B Plant CAMs issue.
  - Cleanup of a late April 400 gallon diesel spill in the 100 K Area was completed in June, with removal of a soil "hot spot" discovered by confirmatory sampling of the original cleanup excavation.
  - There were eight regulatory agency inspections conducted of CHPRC managed areas and facilities: WDOH inspections of the Low Level Burial Grounds, Canister Storage Building and T Plant; and Ecology RCRA inspections of the 207-A South Retention Basin, CWC (2), groundwater monitoring of several TSD units, and the 200 W Area.

Environmental Compliance & Quality Assurance (ECQA)

- **Assessment Program**
  - An external surveillance of the CHPRC EMS Program was completed on June 23, 2016, by an audit team from NSF-ISR. The objective of the surveillance was to determine if current certification to international standard ISO 14001:2004, *Environmental Management Systems – Requirements with guidance for use*, should be continued. The surveillance focused on 14 of the 18 elements of international standard ISO 14001:2004. The surveillance concluded with a recommendation from the team for continued certification. No non-conformities were identified with the ISO 14001 Standard. Two opportunities for improvement were identified.
  - Field work was completed and a draft surveillance report distributed to the assessed organizations for a factual accuracy review on an assessment to determine whether RCRA Operating Record documentation being maintained by MSA for CHPRC operations are readily accessible and that retrieval can be accomplished in a timely manner. The assessment identified 3 opportunities for improvement regarding MSA and CHPRC records management interface, recordkeeping practices, and awareness of organizational recordkeeping responsibilities.
  - PRC-PRO-EP-53109, Environmental Audit Management, was released through PRC Procedure System. The new Level 2 administrative procedure describes the implementation of the organizational processes for the annual planning of EP&SP environmental audits, for scoping and organizing scheduled and ad hoc audits and for performing audit follow up actions including status maintenance and trending. This procedure supplements Integrated Annual Assessment Plan instructions identified in PRC-PRO-QA-40091, Integrated Assessment Planning.

Business Services

- **Acquisition Planning:**
  - Worked with the Sludge Treatment Project to acquire a specialized forklift to load a waste box at the T-Plant facility. The forklift was found at the ERDF Operations and was loaned to CHPRC for use on the T-Plant work.
  - Met with representatives from the 300-296 Remediation Project to discuss upcoming design effort and fabrication packages. Provided non-competitive justification and Acquisition Planning Notice drafts for consideration.
  - Revised Scope of Work (SOW) templates to address a recent corrective action from a Work Site Assessment on Other Hanford Contractor work. Drafted and released a BTR notice advising users of the SOW template change and good work practice recommendations.
  - As part of a corrective action, reviewed procedures to ensure they identified the proper processes and roles/responsibilities for Lockout/Tagout process and training.
  - Performed market research on, and made contact with, service companies that perform readiness assessments and conduct of operations mentoring. Provided the potential sources to Procurement for use in an upcoming solicitation.
  - Met with two off-site precision fabrication companies to discuss their capabilities and upcoming business opportunities at Hanford.

- Completed the identification of RCCC subcontracts that would be assigned to CHPRC effective at transition.
- Completed the development of scope of work for IH/Safety support for the 618-10 Project that is part of the RCCC transition.
- Completed the statements of work for leases of two small warehouses associated with the RCCC transition.

- **Facilities & Property Management (F&PM):**
  - FY2016 Physical Property Inventory review is underway with field work completion date of August 31, 2016. Final inventory review reports and Balanced Score Card submittal by October 31, 2016. F&PM has completed locating 61.89 percent of 3,317 items through June 2016.
  - Permitting and installation were completed for two self-contained showers (MO2506 & MO6500) at PFP. Units became operational in June.
  - MO407 in the 200E area in process of transfer to MSA. Awaiting Inter-contractor Transfer Order (ICTO) signature from MSA. Transfer currently on hold as MSA considering renovation budget concerns.
  - Received word in May from ENW that current warehouse being utilized by WCH will not be available for lease next fiscal year. Lease agreement was generated in June to utilize ENW Building 127 for transitioning Project materials. Work continued to reconcile existing WCH stock prior to relocation.
  - Received direction from RL to begin planning efforts to vacate the 2420 Stevens (2420) building and relocate existing CHPRC employees to the Federal Building. RL employees will relocate to 2420 in an effort to share resources with neighboring DOE-ORP. June began the initial planning and walk-downs of space within 2420 and the Federal Building. Washington River Protection Solutions (WRPS) started efforts to vacate the first floor of 2420.
- **Finance:**
  - June month end completed with no suspensions.
  - Continued working with Cohn Reznick to address FY2015 Incurred Cost Report adequacy questions.
  - Supporting Cohn Reznick request for back-up related to FY2015 Incurred Cost Audit.
  - Continued working transition planning for 618-10 and ERDF.
  - Continued gathering support for Department of Revenue audit of FY2012-2015.
- **Human Resources:**
  - Human Resources presented at the RCT Supervisor Quarterly Meeting, a development topic on establishing clear roles when interfacing with other people to create better understanding in communication.
  - Completed the third session of the Career Ascent Program. The program has one session left and will meet schedule of being complete by September 2016.
  - HR partnered with Labor Relations and Procurement to continue to provide RCT support through the co-employment of contract RCTs.
  - In addition to the already successful CHPRC Women's Network, CHPRC is now launching a second employee network group, called the JuMP (Junior- and Mid-level Professional) Network. JuMP is one of eight employee networks groups sponsored by CH2M. The goals of the JuMP Network include: networking, communication, promoting company and market culture, career and professional development, retention, mentoring, and bridging generational gaps. The vision of the group is to make CH2M the workplace of choice for junior-and mid-level professionals. The JuMP Network will achieve its goals through various development/mentoring/networking opportunities and community service and social activities. The CHPRC JuMP Committee is planning its first launch event to take place in July.

- Supported the Businesses Services Advisory Committee in hosting a breakfast meeting/information session regarding the Washington Closure Hanford (WCH) transferring work scope.
- Partnered with management to bring in 29 of 31 summer interns. The Summer Intern Tour is scheduled for July 19, 2016.
- A detailed project schedule has been developed to hire/transfer 177 RCCC staff on August 29, 2016. Planning and communications are underway to coordinate these hires with all of the impacted organizations. Completed 53 compensation evaluations for exempt and salaried nonexempt employees transitioning from WCH to CHPRC.
- Participated in the 2016 Towers Watson General Industry Salary Budget Survey. The results and data provided in this survey enable CHPRC to gauge our position to market and to follow merit budget trends across the United States.

- **Labor Relations:**
  - Continued transition activities for the remainder of HAMTC represented employees transferring with the 618-10 and ERDF work scope from WCH to CHPRC at the end of August 2016.
  - Arbitration originally scheduled for December 15-16, 2015, to address HAMTC's General Council grievance in regards to D&D activities at PFP has been postponed. Parties continuing to discuss and exchange settlement proposals with the intent to try and resolve issue without proceeding to arbitration.
  - Grievance PRC-014-096 dealing with jurisdiction of steam lines was heard by the arbitrator on March 23, 2016; the arbitrator awarded in favor of the Company in June.
  - Grievances PRC-015-051 and PRC-016-014 dealing with purchasing items (i.e. pipe spools) from offsite vendors have been requested to proceed to arbitration, although the union put a hold on selecting the panel until they can further review.
  - Grievance PRC-016-009 dealing with discipline was also requested for arbitration. Selection of panel is also on hold pending further review.
- **Procurement:**
  - Awarded/amended 135 contracts with a total value of $11.4 million. Additionally, awarded 193 new material Purchase Orders (PO) valued at $596,181 to support ongoing project objectives.
  - At the end of the first 93 months of the CHPRC project, procurement volume has been significant; $2.37 billion in contract activity has been recorded with approximately 53.12 percent, or $1.25 billion, in awards to small businesses. This includes 7,315 contract releases, 20,889 POs, and 249,201 P-Card transactions.
  - On June 2, 2016, Contract 54133-4 for "Fabrication and Testing of WESF W-130 Dampers" was awarded to Hiline Engineering & Fabrication Inc. in the FFP amount of $57,544.94 based on competition.
  - On June 8, 2016, Contract 60332 for "Fabrication of Forty (40) DOT Soft-Sided IP-1 Packages" was awarded to Pactec Inc. in the FFP amount of $63,038.73 based on competition.
  - On June 14, 2016, Contract 60337 for "DOT Specification 7A Type A Containers" was awarded to Containers Technologies Industries, LLC in the FFP amount of $771,000 based upon competition.
  - Contract 36538-94 was awarded to Watts Construction Inc. on June 20, 2016. This is a firm fixed price contract for the construction of well pads and roads at UP-1 to support the drilling campaign. This award is valued at $75,000.00.
  - Contract 48767-04 was awarded to Cascade Drilling LP on June 18, 2016. This is a firm fixed price contract for the installation of three optional well scope in the 200-UP-1 OU, FY2016. This award is valued at $999,400.00.
  - Contract 36883, Release 28 was awarded to Ojeda on June 15, 2016. This is a Time and Material price contract for "234-5Z Plutonium Finishing Plant Pipe Trench Core Drilling and Grouting" SOW. This award is valued at $500,387.65

Prime Contract and Project Integration (PC&PI)

- **River Corridor Closure Contract (RCCC) Transition:**
  - Continued progress on the implementation of Change Order 304, "Initiate Transition of RCCC Scope Activities into the PRC" which authorized CHPRC to prepare a PMB for the RCCC scope transitioning to CHPRC; provided direction to proceed with transition of the 324 nuclear facility and ancillary buildings and 300-296 soil remediation project no later than April 30, 2016 to transition ERDF, the 618-10 and 618-11 burial grounds, and the balance of RCCC scope no later than August 30, 2016; and authorized CHPRC to prepare a change proposal for cost of transition and cost of executing the identified work scope which is being transitioned into the PRC.
  - A Change Proposal (CP) was submitted to RL for 618-10 Burial Ground remediation and Supplement A to the CP for ERDF Operations was submitted to RL addressing removal of ERDF transportation and disposal costs currently in the CHPRC PMB.
  - A life-cycle PMB and associated draft Baseline Change Requests for the scope transferred and to be transferred from the RCCC to CHPRC were submitted to RL.
  - Efforts continued on the development of the Change Proposals to be submitted to RL for the equipment design for the remediation of the 300-296 waste site and associated development testing, Minor Capital Funded Projects, and Surveillance and Maintenance of Minor RCCC transition sites.
- **Contract Compliance and Change Management (CC&CM):**
  - In June, CC&CM received and processed five contract modifications (493, 512, and 514-516) from RL.
  - The Correspondence Review Team received and determined the distribution for 68 incoming letters/documents. The Prime Contract Compliance Manager reviewed 51 outgoing correspondence packages.
  - Issued three Notice of Change Letters: CHPRC-1602274, *Notification of Change Requiring the Evaluation of Monitored Natural Attenuation in the 200-DV-1 Remedial Investigation/Feasibility Study Report*; CHPRC-1602496AR1, *Notification of Change Regarding Contract Modification 513 Additional Fiscal Year 2016 Work Authorization*; and CHPRC-1602896, *Notification of Change to Perform a Central Plateau Cumulative Impact Evaluation and a Biomobilization and Biointrusion Evaluation*.
  - Submitted the following FY2016 Performance Measure Completion Packages:
    - PM-30-6-16, *Complete 200-BP-5 Treatability Test and submit Draft A Treatability Test Report.*
    - PM-30-2-16, *Maximize plume containment and remediation utilization.*
  - Three CPs/REAs submitted (on or ahead of schedule), 22 submitted FY2016 to-date:
    - CP 041 304 1595 - Supplement A - ERDF Deduct (6/20/16).
    - CP 041 304 1596 - 618-10 Burial Ground (6/6/16).
    - CP 011 PRC 1611 - Removal Building Slabs for the 236-Z and 242-Z Facilities (6/9/16).
  - Zero CPs/REAs submitted late.
  - Five CPs/REAs in development:
    - CP 013 PRC 1619 - WESF Monitoring Low Cost Alternative.
    - CP 013 PRC 1620 - WESF Storage Basin Analysis and Quarterly Report.
    - CP 041 304 1613 - Minor Capital Funded Projects RCCC Transition Add-ons.
    - CP 041 304 1615 - Surveillance & Maintenance Sites RCCC Transition Add-ons.
    - CP 041 304 1616 - 300-296 Waste Site Design Change.
  - Supported development of RCCC life-cycle PMB and associated BCRs.
  - Miscellaneous Estimating Support:
    - Supported RL's request for additional information on Change Orders (COs) 269-1541, 289-1563, 294-1570, 300-1589, 301-1590, and 303-1588.
    - Provided support for RL RFI 301-1592-01.

- Provided responses to RL RFI-304-07.
- Long-range planning development support.
- 316-4 Waste Site Alternate Access Through 618-10 Trench ROM.

- **Project Integration:**
  - Progress continued to be made on EVM Assessment Corrective Actions. As of month end, 57 of 68 actions had been completed (84 percent complete).
  - During June, Project Integration facilitated and supported the processing of seven BCRs.
  - Continued to support RCCC Transition planning with emphasis on developing the PMB and change proposals for scope that will transfer to CHPRC.
  - CHPRC continued to support the DOE PM-30/EFCOG initiative to update the DOE Earned Value Management System Interpretation Handbook (EVMSIH).

Integrated Services

- **Interface Management:**
  - Interfaces (Technical, Administrative and Regulatory):
    - Continue to monitor the isolation of the 100 Area Reactor Raw Water Fire Loop system by WCH/MSA. CHPRC has informed MSA that this could be a potential gap in the RCCC scope transition.
    - Continue supporting and facilitating communications between WRPS at 222S and CHPRC at REDOX. Recently facilitated cultural/ecological review clarifications for the water utility isolation and other Managed Task issues (e.g. waste identification and disposition) associated with the water utility isolation on the MSA side of the facility demarcation.
    - Continue working with MSA on rollout communications and implementation issues related to the RL directed limitation on Use of Government Vehicles for Overtime Shift rides home.
    - Worked with MSA and CHPRC internal resources to establish a Work Order for CHPRC to support the LIGO requested electrical outage, which impacted CHPRC facilities and systems in the 400 area.
    - Provided CHPRC's response to the MSA Water Purveyor's notification of deficiency related to Air Gap/Cross Connection compliance actions at WESF, PFP, and 200W P&T. The Global Air Gap option at the source of the MSA raw water distribution system was recommended as the best site alternative.
    - Coordinating CHPRC internal review of MSA's recently proposed restricted roads implementation plan. Comment meetings for concerned parties will be available in July.
    - Provided comments back to MSA on a WRPS proposed temporary restricted road access near the T Farm complex. A temporary restriction was proposed to minimize congestion along the narrow roadway while an in farm project is ongoing this summer. With acceptance of our comments, CHPRC will be able to work around the restriction.
    - Provided CHPRC's final concurrence signature on the FY2016 Infrastructure & Services Alignment Plan (ISAP) to the MSA document manager.
  - Annual Forecast of Services:
    - Continued to evaluate MSA resource needs and impacts related to RCCC Transition.
    - Conducted Biweekly meetings with MSA to ensure ready to serve operations are not impacted.
  - Developing preliminary FY2017 MSA usage based services forecast.
  - Inter-Contractor Issue Resolution:
    - Continue supporting discussions between WRPS at Effluent Treatment Facility (ETF) and CHPRC at the Modutanks facility, regarding lines of demarcation and maintenance on the "tie-in" to the ETF raw water line. Completed draft Interface Control Document (ICD) to cover the new demarcations and contractor roles and responsibilities.

  - Continued working with HFD, CHPRC Projects (SWOC/PFP), and CHPRC Work Control to improve communications, and streamline planning/corrective maintenance items. The SDD J.3 ID#20 will be revised to include interim corrective measures until a more inclusive document can be drafted.
- Controlling and Service Agreements:
  - Continued efforts in supporting the annual review of the J.3 Service Delivery Documents.
  - Finalizing comments received by MSA Electrical Utilities of draft ICD for MSA Electrical Utilities.
  - Supporting ongoing discussions with WRPS regarding the future use of the existing ERDF Leachate Transfer Line and additional tie-in interfaces related to the new Leachate Transfer Line to the 200W P&T. Draft Interface Control Document is routing for signature.
  - Completed the inter-contractor review of the CHPRC/MSA AIA, SWITS Barcode Labels to New Waste Containers, HNF-41866, Revision 3. The document is currently routing for approvals.
  - CHPRC, MSA, and WRPS concluded that no update to the Hanford Site Interface Management Plan, MSC-IMP-00001, Revision 4, will be required in FY2016. In FY2017, the document will be updated to address changes in some signatory positions and the impacts of the RCCC transition on the document.
  - CHPRC, MSA and WRPS met to discuss the recent MSA contract change concerning J.3 ID#68, Major Collection Management (direct-funded service) and potential impacts to all Parties. MSA will research the issue further and reconvene a follow-up meeting in the near future.
- J.3 Table Maintenance:
  - In process updates being tracked for the RCCC Transition effort. Team meetings with MSA/WRPS to work on updates to the J.3 table will continue through the transition. A draft update of the J.3 table that captures known impacts of the transition is with the Other Hanford Contractors for review. The final update of the J.3 table will be sent to DOE as a post transition action.
- Internal Operations:
  - Finalizing a new Administrative Interface Agreement (AIA) to support RCCC transition, related to HLAN conversion at 618-10 and ERDF.
  - Worked with CHPRC Water Purveyor in the 100 and 400 areas to clarify the proper roles and responsibilities between CHPRC/MSA for the water/sewer systems. MSA to continue to perform Usage Bases Services for septic pumping and WDOH compliance reporting.
  - Worked with CHPRC Procurement on the first three CRRS actions resulting from the IFM work site assessment of SOWs for services provided to CHPRC by MSA. The first two actions involved minor changes/corrections to the electronic statement of work templates, and have been completed. The third action – to issue a BTR Notice conveying general SOW information to BTRs and others – has been a collaborative effort between Procurement and IFM to develop, and is nearing completion/issuance.
  - HNF-48239, Revision 5, Roles and Responsibilities for the Safeguards & Security Program AIA was approved and issued.

- **Information Management:**
  - Provided IT, event logistics, and facilitation support to EZAC, PZAC, Ascent Training, Leadership Impact Initiative and various corporate visits and meetings.
  - Provided information clearance and release support for KBO&PR, S&GRP, W&FMP, SHS&Q and PTS documents.
  - Supported numerous IT support requests for cellular phone issues/questions, meeting set-up, network connections, and printing.

- Processed 20,510 Electronic Records into the Integrated Document Management System (IDMS).
- Continued work on analysis, planning, and implementation of software application migrations in support of RCCC transition.

Program Integration

- **000 Project EVM Support:**
  - Prepared Basis of Estimates for FY2017 ETCs and back-up documentation for Indirect accounts.
  - Completed data input for MSA Quality Based Estimates deliverable for FY2017.
  - Continued to support and review data through FTI Consulting.
- **Risk Management and Reporting:**
  - Performed risk register reviews for the CHPRC Projects. In addition, supported the projects with seven BCRs that were processed in the month of June.
  - Completed the integrated PMB risk analysis for the RCCC Work to support the upcoming External Independent Review for RL-0041 CAP.
  - Issued the CHPRC May Monthly Report to RL.
  - Performed an analysis of the EVMS Integrated Project Team (IPT) Package and Project Review packages. Drafting a proposed monthly IPT package for Sr. Management Review/approval.
  - Issued the CHPRC May Monthly Highlights to the Nuclear Business Group.
- **Strategic Management:**
  - Progress continues to be made towards completion of the Productivity Corrective Actions. Completed 22 of 24 actions (status held at 92 percent). Met with Internal Audit on CR-2014-2322 assessment of corrective action closure package preliminary findings and report. A Briefing on the PTL status was provided to the Executive Steering Review Board.
  - Prepared a Draft Integrated Priority List (IPL). Received and integrated comments from CHPRC Projects and RL for use in FY2017 PMB update and Long Range Planning. Projects continue to develop Long Range Planning information.
  - Reviewed historical 224-B documentation to identify equipment (tanks, piping, etc.) that is suspect TRU waste. Provided TRU calculation methodology, drawings, photos, discussed 224-B Building process flows, equipment/system usage, and D4 strategies for cost estimating D4 of the Building.
  - Reviewed and provided comments on the Draft M-091 Engineering Alternative Study.
  - In support of the Hanford Site Composite Analysis, drafted and presented data/knowledge on the Hanford I-129 inventory to RL, along with the Composite Analysis team. Currently investigating the inventory of approximately 20 silver reactors buried and/or in some facilities. Further work will be done to review the historical record and ascertain better quantification and location to be used in modeling to bound the issue and determine whether the contaminants of concern need to be addressed.
  - Gathered historical information on testing operations on influent and discharge air for the 291U sand filter. From those results combined with the history of the U Plant Process (not used for Pu recovery), ascertained that the inventory on the filter is less than one gram of Pu, rather than the book inventory ~600 grams of Pu. Instead of sampling the sand filter, probes will be inserted in existing pipes within the sand filter to obtain dose to curie measurements and establish Pu quantity. This resulted in a significantly less costly approach than retrieving and disposing of sand filter as TRU waste.
  - Researched operations records on the 241-WR Vault from the 1950s which provided a different account of history from today's documentation. Results of this effort were presented to RL and EPA with a recommendation to not characterize the vault at this time. Characterization of the

vault would be extremely hazardous/costly and would result in a need to maintain an operational ventilation until remediation is complete. RL and EPA have agreed with this recommendation.

- Participated in Office of Project Management Oversight and Assessments (EM-20) led External Independent Review for the two subprojects for Chemistry and Metallurgy Research Building Replacement (CMRR) Projects, Los Alamos National Laboratory (LANL). Received a note of appreciation from DOE EM-20 for contributing extensive knowledge in startup planning and operational readiness.

Project Technical Services (PTS)

- **Engineering Services:**
  - Supported identification and logistics of HEPA filters for testing at Mississippi State University.
  - Finalizing Operability Test Procedure for W-130 Project.
  - Supported W-130 project ventilation leak testing strategy.
  - Performed volumetric and surface area calculations to support W-130 leak testing calculations.
  - Supported review design details for adding seals to the W-130 exhaust fan housings.
  - Implement procedure changes and approach for the HEPA Filter Housing Seal Pot Level loop calibrations.
  - Supported development of periodic maintenance instructions and data sheets for WESF Project W-130 equipment.
- **Procedures and Training:**
  - Systems and Routines classroom training was conducted at K Basins for new Operators.
  - Hired new Training and Procedures Manager.
  - Continued Support for 324, 618-10 and ERDF Training and Procedures transitions.
- **Operations Program:**
  - ConOps/Work Control/Conduct of Work
    - Completed two Planner Workshop sessions to finalize the performance, objectives, measures, and commitments.
    - Supported Fire System Maintenance to reduce open PM data sheets.
    - Attended informational meeting on MSA activities regarding creation of system for capture and inputting Facility Information Management System (FIMS) data.
    - Completed PTS PTL Management Assessment.
    - Supported ERDF transition in the areas of lockout/tag out (LOTO) and ConOps.
    - Closing out post start actions in support of B324 transition.
    - Submitted Quarterly Startup Notification Report to RL.
    - Performed extent of condition on repetitive electrical packages to look for issues similar to a recent test equipment event.
    - Supported Building 324 Blue Sheet procedure conversion planning with Building 324 Operational Manager.
  - Emergency Preparedness (EP)
    - Commenced annual EP Program assessment.
    - Toured ERDF facility in preparation for transition.
    - Completed/submitted ERDF Transition Checklist documents.
    - Revised 324 Building Emergency Plan as part of RCCC Transition actions.
    - Supported Lesson's Learned review of response to false criticality alarm at PFP.
    - FFTF Building Emergency Plan submitted and ready for issue.
    - Completed MOP of EP Drill Classification times.
    - EP Coordinators supported the Site Exercise at WRPS by filling various controller, evaluator, and Emergency on Call roles.
    - Conducted drills at the following facilities;
      - Tabletop drill at 100K.

- "No-Notice" drill at S&GRP 200E Pump & Treat mobile (MO-278).
- No-notice Full-Up Ops drill at S&GRP.
- Conducted full-up EP drill at WESF.
- Submitted report for PFP Actual event response for drill credit.

- **Project Delivery**
  - **S&GRP Projects**
    - 289T FBR and CS Platform Modifications:
      - Steel erection completed for the CS 6-PAK tank platforms. Painting of structure in progress.
  - **S&GRP Well Support**
    - Completed bonding of high-density polyethylene (HDPE) at WE12 and WE13 (4,038 lf).
    - Completed bonding at well BP-5 well YE31 (4,200LF bonded).
      - Continued bonding at DV1 (3,700LF of 4,200LF bonded to date).
      - Construction Completion Documents (CCD) completed on 12 of 24 wells.
    - 63,189LF of 76,153LF (80 percent) of HDPE installed and bonded.
    - 84,250LF of 117,161LF (70 percent) electrical cable and fiber installed.
    - Fifteen of 19 (80 percent) road crossings completed.
  - **KBO-PR Projects**
    - REDOX Roof:
      - Approved and released final design.
      - Obtained roof material samples for analysis.
      - Field mobilization scheduled for week of July 25, 2016.
  - **W&FMP Projects**
    - ERDF Transfer Line:
      - Completed backing at corrugated metal pipe pit UP1-4, lid fabrication continues.
      - Completed arc flash calculations for ERDF master control console.
      - Completed asphalt at road crossings.
  - **WESF W-130 Stabilization**
    - Completed HEPA head removal in cells A (East/West), B, C, D, E, F, and G (West).
    - Completed installation of the demister filters.
    - K3N display panel, instrument calibration on skid, and installation of ductwork. K3N Tie in outage scheduled to commence week of July 11.
    - Completed demineralized water reconfiguration.
    - Completed hot pipe trench investigation.
    - Completed install of the above grade fire suppression line.
  - **Trench 94**
    - Completed Navy inspection of reactor components design (RCD) packages.
    - Finalized repair scope on the "red" RCD packages.
    - Completed repairs to RCD 77, 81, and 91, surface prep for 25 and 67.
    - Received Revision 2 of the Naval SOW detailing balance of RCD repairs.
  - **CSB Door Repair**
    - Issued Request for Proposal for NQA-1 construction services, performed pre-bid walk down with prospective bidders.
  - **CWC Roof Repairs**
    - Completed repairs and CCD at building 2402W, 24092WC, 2402WB, 2402WD, 2402WE, and 2402WG.
    - Seven of 13 roofs completed to date.
  - **1803K RW Tank Insulation Repairs**
    - PFWR determination applicable to building trades.

- **324 Soil Remediation**
  - Conducted walk down of 324 building.
  - Commenced planning efforts for interference removal and cell sealing.
  - Electrical Engineering support for 324 mockup building contract in place.
- **MO2226 Remodel**
  - Field work and CCD completed.

- **KW Annex Construction**
  - Performed rounds (daily and weekly) of balance of plant equipment and CM on items identified in PM inspection punch list.
  - Completed asphalt approach.
  - Completed Nitrogen pad concrete placement/saw cut.
  - Completed a shop kick off review of the buyer-furnished equipment plates for the sand filter fabrication with engineering.
  - Completed layout of the nitrogen system tubing installation.
  - Completed formwork, rebar, and grounding for nitrogen ramp and pad.
  - Completed unpack and inventory of Annex/Basin Rad Panels and Equipment in 142K Building.
  - Completed the installation of the remaining safety signification/seismic hangers for the fire protection piping system.
  - Completed UL Inspection & test on repaired Lighting Protection Cable.
- **KW Basin In Basin Modifications Construction**
  - Installed the permanent enclosure panels to complete Door 148 modifications.
  - Continued re-installation of the hose-in-hose shed that was removed to support the concrete placements at Door 148 and Shielding doghouse.
  - Completed the re-installation of the grating supports and fiber grating above the engineered containers (EC-230 – EC-260).
  - Laid out and completed the rebar scan for the transfer bay column modifications.
  - Delivered booster pump rail system to site.
  - Mobilized shielding plates for hose-in-hose Doghouse into basin.
- **T Plant Modification Construction**
  - Continued submittal reviews and procurements.
  - Completed building IP-2 internal securement dunnage for the Drum Load-Out Assembly/Upper Buffer Tank Manifold Assembly.
  - Completed final downsizing of the Drum Load-Out assembly.
  - Started work on the water addition system work scope. The old water addition system removal in the Operations Gallery is 95 percent complete.

Communications

- Communications supported RL in the development of news articles that ran in local media and in the DOE EM Newsletter:
  - An article was published in the Tri-City Herald on June 6, 2016. The article covers CHPRC Manager Pat Marmo's receipt of the DOE, Office of Small and Disadvantages Business' FY2015 Facility Management Contractor Procurement Director of the Year award. Pat received the award for excelling in the use of small businesses to advance Hanford environmental cleanup.
  - An article was published in the DOE EM Newsletter on June 15, 2016, featuring remove the demolition of an ancillary building at the PFP.
  - An article was published in the DOE EM Newsletter on June 30, 2016, featuring final decontamination efforts that are taking place at the PRF at the PFP.

- Communications supported RL in the development of a social media post for "Momentum Monday", featuring soil remediation that is taking place at the 100K area.
- Communications supported RL in the development of the RL Agency Update for the Hanford Advisory Board meeting held on June 8-9.

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	0.1	0.4	(0.0)	-27.1%	(0.3)	-230.9%
Internal Audit	0.1	0.1	0.1	0.0	0.0%	(0.0)	-37.8%
General Counsel	0.1	0.1	0.1	0.0	0.0%	0.0	26.8%
Communications	0.1	0.1	0.1	0.0	0.0%	(0.0)	-2.7%
Safety, Health, Security and Quality	1.1	1.1	1.0	(0.0)	-0.3%	0.1	12.9%
Environmental Program and Strategic Planning	0.4	0.4	0.3	0.0	0.0%	0.1	19.6%
Business Services	1.6	1.6	1.6	0.0	0.0%	0.1	3.9%
Prime Contract and Project Integration	1.6	1.6	1.4	0.0	0.0%	0.2	10.2%
Project Technical Services	0.5	0.5	0.6	(0.0)	-0.3%	(0.0)	-7.8%
Indirect WBS 000 Total	**5.6**	**5.5**	**5.6**	**(0.1)**	**-1.0%**	**(0.0)**	**-0.7%**

Numbers are rounded to the nearest $0.1 million.

Indirect WBS 000

CM Schedule Performance: (-$0.1M/-1.0%)
The variance is within reporting thresholds.

CM Cost Performance: (-$0.0M/-0.7%)
The variance is within reporting thresholds

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

WBS 000 Project Services and Support	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance ($)	Schedule Variance (%)	Cost Variance ($)	Cost Variance (%)	Budget at Completion (BAC)
Office of the President	2.6	2.7	3.9	0.1	2.7%	(1.2)	-42.8%	3.2
Internal Audit	0.8	0.8	0.8	0.0	0.0%	(0.0)	-2.0%	1.1
General Counsel	1.0	1.0	1.5	0.0	0.0%	(0.4)	-40.5%	1.5
Communications	0.7	0.7	0.8	0.0	0.0%	(0.1)	-9.4%	1.0
Safety, Health, Security and Quality	10.5	10.5	8.8	(0.0)	-0.1%	1.7	16.4%	14.8
Environmental Program and Strategic Planning	3.6	3.6	3.1	0.0	0.0%	0.4	12.3%	5.0
Business Services	14.7	14.7	12.9	0.0	0.0%	1.8	12.0%	20.7
Prime Contract and Project Integration	14.7	14.7	13.7	0.0	0.0%	1.0	6.8%	20.7
Project Technical Services	4.9	4.9	4.6	0.0	0.2%	0.3	6.7%	6.9
Indirect WBS 000 Total	**53.6**	**53.6**	**50.0**	**0.1**	**0.1%**	**3.6**	**6.7%**	**75.0**

Numbers are rounded to the nearest $0.1 million.

Indirect WBS 000
FYTD Schedule Performance: (+$0.1M/+0.1%)
The variance is within reporting thresholds.

FYTD Cost Performance: (+$3.6M/+6.7%)
The favorable cost variance is primarily due to an unplanned credit realized as a staff augmentation cost. Also, contributing to the favorable cost variance is the accelerated completion of the final RCCC Transition Plan to RL in February 2016, completing ahead of the planned April 2016 date.

FY2016 G&A Analysis
($M)

WBS 000 Project Services and Support	FY2016 FYTD BCWS	FYTD Actual	FYTD Variance (O)/U		FY2016 BCWS	FY2016 Forecast	FY2016 Variance (O)/U
General & Administrative (G&A)	**53.6**	**50.0**	**3.5**		**75.0**	**74.4**	**0.6**
Office of the President	2.6	3.9	(1.2)		3.2	5.6	(2.4)
Internal Audit	0.8	0.8	(0.0)		1.1	1.2	(0.0)
General Counsel	1.0	1.5	(0.4)		1.5	1.8	(0.3)
Communications	0.7	0.8	(0.1)		1.0	1.2	(0.2)
Safety, Health, Security and Quality	10.5	8.8	1.7		14.8	13.4	1.5
Env. Program & Strategic Planning	3.6	3.1	0.4		5.0	4.3	0.7
Business Services	14.7	12.9	1.8		20.7	19.5	1.1
Prime Contract and Project Integration	14.7	13.7	1.0		20.7	19.6	1.1
Project Technical Services	4.9	4.6	0.3		6.9	7.8	(0.9)

	FYTD	FY2016
G&A Distribution	**(49.7)**	**(74.6)**
G&A Liquidation (Over)/Under	**0.3**	**(0.2)**

Liquidation Analysis
For June, application of the G&A rate has under-liquidated total to date G&A cost by $0.3 million. The FY2016 year-end projected over-liquidation of $0.2 million reflected in the fiscal year spend forecast reflects a projected increase in G&A costs as well as an increase to the G&A base.

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

MAJOR ISSUES

None currently identified.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

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

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

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

Increased Confidence
No Change
Decreased Confidence

Risk Title	Unmitigated Risk Impacts	Assessment		Comments
		Month	Trend	
Executive Level Risks				
Explanation of major changes to the project monthly stoplight chart: No major changes to the risk profile for the month of June.				
Realized Risks (Risks that are currently impacting project cost/schedule)				
PRC-022: Higher Than Anticipated Attrition	Higher than planned attrition or staffing reduction is experienced resulting in project schedule delays, and increased training costs. **Risk Handling Strategy:** Avoid **Probability:** Likely (75% to 90%) **Worst Case Impacts:** $5 million, 40 days			**Risk Event:** CHPRC continues to experience higher than anticipated attrition for FY2016. **Recovery Action Assessment:** Forecasted completion dates for recovery actions were updated to reflect continued planned efforts to recover this risk throughout the PRC. CHPRC continues to increase recruitment, and analysis of comparable markets for salary competitiveness. Potential problems exist pending funding profiles for other site contractors. No alternative course of actions needed at this time.
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)				
No critical risks identified in the month of June.				
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)				
No high threat value risks identified in the month of June.				
Unassigned Risks (Pending ownership of identified risks/opportunities)				
CHPRC continues to conduct internal reviews to ensure risks are still valid. In cases where risk has passed/or is no longer valid CHPRC will no longer report, and close the risk in the database. In the event risk are still valid ownership will need to be established to further identify and address potential impacts to project cost and schedule. There are cases when risks are identified but are outside the control and management of the contractor. However, CHPRC risk management process identifies all risks that could impact overall project success.				

Risk recovery action(s)

Risk recovery action(s)	Risk Date	FC Date	%
Develop/implement CHPRC People Legacy Program.	FY2015	On Going	N/A
Target recruiting for key project resources		On Going	N/A
Continue PFP resource transition plan		On Going	N/A
River Corridor Closure recruitment		On Going	N/A

MILESTONE STATUS

None currently identified.

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None identified.

Appendix C
Capital Asset Projects

June 2016
CHPRC-2016-06, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

Appendix C.1
Capital Asset Project
RL-011.C1 Removal of 174 Gloveboxes from 234-5Z

T. E. Bratvold
Vice President for
PFP Closure Project

June 2016
CHPRC-2016-06, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

Progress continued to work towards CD-4 closure as teams continued to prep glovebox/hoods for extraction during demolition. It is expected that final preparations will be complete on December 08, 2016. At that time gloveboxes will be staged until demolition of 234-5Z commences and completion of Capital Assets Project discreet scope will be completed. The total number of gloveboxes removed to date is at 94 percent complete.

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

Key Metrics	*Current Month Plan*	*Current Month Actuals*	*Cumulative Plan*	*Cumulative Actuals*
Glovebox/Hood Removed	-	-	174	163
COMPLETE KPP Rooms/Areas Ready for Demo	-	-	60	60 rooms/areas

KEY ACCOMPLISHMENTS

- Work remaining on this capital asset project is removal of the gloveboxes from the 234-5Z facility. All work associated with glovebox process equipment removal has been completed. Final preparations to support the physical removal of the remaining gloveboxes will be completed by December 8, 2016. As the project nears the ready for demolition milestone for the 234-5Z building (~February, 2017), more gloveboxes will begin to be removed from the facility.

MAJOR ISSUES

None currently identified.

CORRECTIVE ACTION LOG

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

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

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

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

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

Increased Confidence
No Change
Decreased Confidence

Risk Title Risk Owner	Unmitigated Risk Impacts	Assessment		Comments
		Month	Trend	
RL-0011/WBS-011.05.01.01.06 (CAP.1)				
Explanation of major changes to the project monthly stoplight chart: No major changes to the monthly stoplight chart in the month of 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 the month of June.				
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)				
FY2016 Risk Triggers (Risk could be realized in FY2016)				
PFP-DEMO-21: Glove Box/Equipment Removal/Demolition Material Handling Event	A material handling event (e.g., dropped piece of process equipment) occurs during the PFP demolition resulting in cost impacts and schedule delays. **Risk Handling Strategy:** Accept **Probability:** Low (10% to 25%) **Worst Case Impacts:** $150K, 30 days			**Risk Trigger:** During pre-demolition/demolition activities in FY2016. **Mitigation action(s)** / **FC Date** / **%** None identified at this time. / N/A / N/A **Mitigation Assessment: Mitigation Assessment:** No change in the month of June. The mitigation strategies have been put in place, as a result, the risk strategy is to accept with no further mitigation actions identified at this time. PFP will continue to adhere to the CHPRC ISMS program/ hoisting and rigging program to include detailed analyses of potential hazards and identification of preventive measures to implement prior to starting the work. At this time no alternative course of actions needed.
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)				
No high threat value risks identified for RL-0011/WBS-011.05.01.01.06 (CAP.1) in the month of 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 the month of June.				

CRITICAL PATH SCHEDULE

The PFP Critical Schedule Path is a resource driven float path. The current E4 team in the 234-5Z duct level completes E4 duct and filterbox removals, then transitions to miscellaneous decon throughout 234-5Z to get it into a ready for demo state. Demolition of 234-5Z will occur in the following sequence: 234-5ZA, Frontside, A-Labs, Backside Rooms/PPSL, RMA Process Lines, RMC Process Lines, and finally the RADTU & Basement areas. Once complete, the final step is stabilization of the PFP site leading to completion of the final Tri-Party Agreement milestone – M-083-00A - *PFP Facility Transition and Selection Disposition Activities*.

SCHEDULE MARGIN/MANAGEMENT RESERVE

Reference Appendix C.1 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
CAP.1	Removal of 174 gloveboxes from 234-5Z	11/30/17	8/14/17	Progress continued to work towards CD-4 closure as teams continued to prep glovebox/hoods for extraction during demolition. It is expected that final preparations will be complete on December 08, 2016. At that time gloveboxes will be staged until demolition of 234-5Z commences and completion of CAP discreet scope will be completed. The total number of gloveboxes removed to date is at 94 percent complete.

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

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

Nothing to report at this time.

RL-011.C1
Contract Performance Reports

Format 1 - Work Breakdown Structure

Format 2 - Organizational Categories

Format 3 - Baseline

Format 4 - Staffing

Format 5 - Explanation and Problem Analysis

June 2016
CHPRC-2016-06, 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 MPB - RL_0011_C1 - PFP D&D (ARRA/Base)	a. FROM *(YYYYMMDD)* 2016 / 05 / 23
b. LOCATION (Address and ZIP Code) Richland, WA	b. NUMBER RL14788	b. PHASE	b. TO *(YYYYMMDD)* 2016 / 06 / 19
	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	317,545	0	9,878	327,423	344,695	327,423	344,695	

6. ESTIMATED COST AT COMPLETION

	MANAGEMENT ESTIMATE AT COMPLETION (1)	CONTRACT BUDGET BASE (2)	VARIANCE (3)
a. BEST CASE	332,424		
b. WORST CASE	335,233		
c. MOST LIKELY	334,817	317,545	-17,272

7. AUTHORIZED CONTRACTOR REPRESENTATIVE

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

b. TITLE: Prime Contract 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	6	87	6	-81	235,360	234,425	258,963	-935	-24,538	0	0	0	235,514	259,637	-24,123
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	6	87	6	-81	314,997	314,062	331,750	-935	-17,688	0	0	0	315,152	332,424	-17,272
f. MANAGEMENT RESERVE														2,393		
g. TOTAL	0	6	87	6	-81	314,997	314,062	331,750	-935	-17,688	0	0	0	317,545		

9. RECONCILIATION TO CONTRACT BUDGET BASELINE

a. VARIANCE ADJUSTMENT																
b. TOTAL CONTRACT VARIANCE									-935	-17,688				317,545	332,424	-14,879

CLASSIFICATION (When Filled In)

CLASSIFICATION (When Filled In)

CONTRACT PERFORMANCE REPORT

FORMAT 2 - ORGANIZATIONAL CATEGORIES

DOLLARS IN Thousands of $

FORM APPROVED
OMB No. 0704-0188

1. CONTRACTOR	2. CONTRACT		3. PROGRAM	4. REPORT PERIOD
a. NAME CH2M HILL Plateau Remediation Company	a. NAME Plateau Remediation Contract		a. NAME MPB - RL_0011_C1 - PFP D&D (ARRA/Base)	a. FROM *(YYYYMMDD)* 2016 / 05 / 23
b. LOCATION (Address and ZIP Code) Richland, WA	b. NUMBER RL14788		b. PHASE	b. TO *(YYYYMMDD)* 2016 / 06 / 19
	c. TYPE CPAF	d. SHARE RATIO	c. EVMS ACCEPTANCE [ ] NO [X] YES *(YYYYMMDD)* 2009 / 09 / 18	

5. PERFORMANCE DATA

WBS.Resp Org Group	CURRENT PERIOD					CUMULATIVE TO DATE					REPROGRAMMING ADJUSTMENTS			AT COMPLETION		
	BUDGETED COST		ACTUAL	VARIANCE		BUDGETED COST		ACTUAL	VARIANCE					BUDGETED	ESTIMATED	VARIANCE
ITEM	WORK SCHEDULED	WORK PERFORMED	COST WORK PERFORMED	SCHEDULE	COST	WORK SCHEDULED	WORK PERFORMED	COST WORK PERFORMED	SCHEDULE	COST	COST VARIANCE	SCHEDULE VARIANCE	BUDGET			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12a)	(12b)	(13)	(14)	(15)	(16)
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	6	87	6	-81	254,570	253,635	279,170	-935	-25,535	0	0	0	254,725	279,844	-25,119
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	6	87	6	-81	314,997	314,062	331,750	-935	-17,688	0	0	0	315,152	332,424	-17,272
f. MANAGEMENT RESERVE														2,393		
g. TOTAL	0	6	87	6	-81	314,997	314,062	331,750	-935	-17,688	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 RL_0011_C1 - PFP D&D (ARRA/Base) a. NAME: Plateau Remediation Contract b. PHASE c. EVMS ACCEPTANCE NO YES X 9/18/2009	4. REPORT PERIOD a. FROM: 2016/05/23 b. TO: 2016/06/19

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)
317,545	$0	$317,545	$0	$317,545	$317,545	$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-16	+2 Aug-16	+3 Sep-16	+4 Oct-16	+5 Nov-16	+6 Dec-16	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)	**314,997**	**0**	**0**	**0**	**39**	**19**	**97**	**0**	**302,288**	**4,109**	**7,749**	**890**	**116**	**0**	**0**	**315,152**
b. BASELINE CHANGES AUTH DURING REPORT PERIOD																
None during the reporting period											**0**	**0**	**0**	**0**	**0**	**0**
c. PM BASELINE (END OF PERIOD)	**314,997**	**0**	**0**	**0**	**39**	**19**	**97**	**0**	**302,288**	**4,109**	**7,749**	**890**	**116**	**0**	**0**	**315,152**
7. MANAGEMENT RESERVE																**2,393**
8. TOTAL																**317,545**

CLASSIFICATION (When Filled In)

CONTRACT PERFORMANCE REPORT

FORMAT 4 - STAFFING

Dollars in: FTE

FORM APPROVED
OMB No. 0704-0188

1. CONTRACTOR	2. CONTRACT		3. PROGRAM	4. REPORT PERIOD
a. NAME CH2M HILL Plateau Remediation Company	a. NAME Plateau Remediation Contract		a. NAME MPB - RL_0011_C1 - PFP D&D (ARRA/Base)	a. FROM *(YYYYMMDD)* 2016 / 05 / 23
b. LOCATION (Address and ZIP Code) Richland, WA	b. NUMBER RL14788		b. PHASE	b. TO *(YYYYMMDD)* 2016 / 06 / 19
	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 2016 (4)	+2 AUG 2016 (5)	+3 SEP 2016 (6)	+4 OCT 2016 (7)	+5 NOV 2016 (8)	+6 REMAIN FY17 (9)	ENTER SPECIFIED PERIODS FY18 (10)	FY19-FY24 (11)	AT COMPLETE (12)	(13)	(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	2	15393	2	14	17	0	0	13	0	0	0	0	0	15439
g. TOTAL DIRECT	2	15410	2	14	17	0	0	13	0	0	0	0	0	15456

CLASSIFICATION (When Filled In)

CLASSIFICATION (When Filled In)

CONTRACT PERFORMANCE REPORT
FORMAT 5 - Explanations and Problem Analysis

FORM APPROVED
OMB No. 0704-0188

1. CONTRACTOR	2. CONTRACT		3. PROGRAM				4. REPORT PERIOD
a. NAME CH2M HILL Plateau Remediation Company	a. NAME Plateau Remediation Contract		a. NAME MPB - RL_0011_C1 - PFP D&D (ARRA/Base)				a. FROM (YYYYMMDD) 2016 / 05 / 23
b. LOCATION (Address and ZIP Code) Richland, WA	b. NUMBER RL14788		b. PHASE				b. TO (YYYYMMDD) 2016 / 06 / 19
	c. TYPE CPAF	d. SHARE RATIO	c. EVMS ACCEPTANCE No X Yes		(YYYYMMDI 2009 / 09 / 18		

5. Evaluation

Direct Projects

	Budget	Earned	Actuals	SV in $	SV in %	CV in $	CV in %	SPI	CPI
Current:	0	6	87	6	-	-81	-1432%	-	0.07
Cumulative:	314,997	314,062	331,750	-935	0%	-17,688	-6%	1.00	0.95
	BAC	**EAC**	**VAC in $**	**VAC in %**	**TCPI to BAC**	**TCPI to EAC**			
At Complete:	315,152	332,424	-17,272	-5%	-	1.62			

Explanation of Variance/Description of Problem:
Current Period:

Cost Variance: The current month negative cost variance is associated with a labor cost correction for incorrect charging while removing the HC-4 and HC-6 gloveboxes in Room 166 of 234-5Z. The team inaccurately charged their time in May and the cost correction occurred in June, a month after the work was performed.

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

Impact:
Schedule Impact: The RL-011.C1 project baseline completion date is November 16, 2016. The current schedule now reflects a completion date of August 14, 2017, a loss of 89 calendar days since May, 2016. A FF logic tie with discrete field work was changed to a FS logic tie against the CD-4 closeout package to be consistent with the logic in the Cap Asset 2 Project, causing 83 days of the slip, and the remaining 6 days was the result of delay in getting 234-5Z ready for demo. The baseline completion date is not considered recoverable. The current RL-11 performance schedule indicates that the PFP project will achieve slab-on-grade by May 31, 2017. Efficiencies have been identified in PRF that allow work to be performed on Filter Boxes in parallel with working on the gallery gloveboxes allowing the PFP facility to complete demolition of the 234-5Z facility which contains the gloveboxes needing to be removed to meet the end state of the KPP and TPA milestone. The project expects to continue progress at the rate that has been experienced in the past several months. The PFP Project is not expected to meeting the TPA milestone M-083-00A due date of 9/30/16 for achieving slab-on-grade as a result of the impacts as identified above.

Cost Impact: The historical negative cost variance of ~$17.7M and 5.6%, and CPI of .95 reflect impacts of the safety pauses, stop works, contamination events, and increased complexity of the HA-9A/HC-9B size reduction efforts. This variance is not considered recoverable. The cost variance is partially offset by recognized efficiencies in cleaning up the RMA/RMC control rooms after completion of the size reduction efforts of the 9A/9B gloveboxes. The EAC increased by $93.3K in the month of June resulting in a negative VAC of ~$17.3M. Labor mis-charges associated with glovebox removal efforts caused a portion of the EAC increase this month. Cost corrections done in June moved the labor charges into this account which also increased the EAC.

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

Corrective Action:
There are no corrective actions at this time. There will be no activities performed on this account until 234-5Z is ready for demolition.

Monthly Summary (to include technical causes of VARs, Impacts) and Corrective Action(s):
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 = $332,424; Most Likely = $334,817; Worst Case = $335,233
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: **Date:** **Approved by:** **Date:**

Appendix C.2
Capital Asset Project
RL-011.C2 Demolition of PFP Facilities

T. E. Bratvold
Vice President for
PFP Closure Project

June 2016
CHPRC-2016-06, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

Progress continued to work towards CD-4 closure as teams continued to ready the PFP facilities for demolition. It is expected that the PRF facility will initiate demolition on September 2, 2016 and completion of demolition activities will occur on May 31, 2017.

The following are key metrics associated with this CAP.

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

KEY ACCOMPLISHMENTS

- Ancillary building demolition of 225-WC was completed in June.

MAJOR ISSUES

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

Issue:
PRF Canyon floor scrapings from J Pan, staged in collection trays on the Canyon floor expanded resulting in a clear and unanticipated chemical reaction. A previously noted hard substance was observed within the loose debris on J Pan. This hard substance was originally thought to be concrete (congealed, spalled wall fines) but upon further review was believed to be a plasticized material, which was not expected.

Corrective Action:
- Unpackage and place previously packaged J Pan waste back in the PRF Canyon.
- Develop waste packaging instructions for J Pan wastes.
- PFP will perform a visual inspection of waste drums that contain PRF canyon waste prior to shipment from the facility.

Status:
- Waste packaging instructions for J Pan wastes were developed and waste has been packaged per the waste packaging instructions.
- PFP is performing 100 percent visual inspections of waste drums that contain PRF canyon waste prior to shipment.
- Waste Shipment of PRF Canyon Waste to CWC has commenced with shipment of Non-J Pan wastes.
- PNNL analysis of waste samples is complete. Fauske and Associates has completed their evaluation of the potential for a self-accelerating thermal reaction within drums.
- PFP is preparing a final report documenting an evaluation of the PNNL analysis results, the Fauske and Associates evaluation, and an analysis of radiolytic gas generation.
- PNNL's final report is due the middle of July.

CORRECTIVE ACTION LOG

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

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

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

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

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

Increased Confidence
No Change
Decreased Confidence

Risk Title Risk Owner	Unmitigated Risk Impacts	Assessment Month	 Trend	Comments
RL-0011/WBS-011.05.C3 (CAP.2)				
Explanation of major changes to the project monthly stoplight chart: No major changes to the monthly stoplight chart in the month of June.				
Realized Risks (Risks that are currently impacting project cost/schedule)				
No realized risks identified for RL-0011/WBS-011.05.C3 (CAP.2) in the month of June.				
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)				
FY2016 Risk Triggers (Risk could be realized in FY2016)				
PFP-DEMO-21: Glove Box/Equipment Removal/Demolition Material Handling Event	A material handling event (e.g., dropped piece of process equipment) occurs during the PFP demolition resulting in cost impacts and schedule delays. **Risk Handling Strategy:** Accept **Probability:** Low (10% to 25%) **Worst Case Impacts:** $150K, 30 days			**Risk Trigger:** During pre-demolition/demolition activities in FY2016. **Mitigation action(s)** / **FC Date** / **%** None identified at this time. / N/A / N/A **Mitigation Assessment:** No changes in the month of June. The mitigation strategies have been put in place, as a result, the risk strategy is to accept with no further mitigation actions identified at this time. PFP will continue to adhere to the CHPRC ISMS program/ hoisting and rigging program to include detailed analyses of potential hazards and identification of preventive measures to implement prior to starting the work. At this time no alternative course of actions needed.
PFP-DEMO-07: Removal/Extraction of Equipment Takes Longer Than Planned	Controlled demolition of equipment, gloveboxes, and portions of the cross-cutting process support systems (i.e. ventilation) result in cost impacts, and schedule delays. **Risk Handling Strategy:** Control **Probability:** Medium (26% to 74%) **Worst Case Impacts:** $1.5 million, 30 days			**Risk Trigger:** Due to concern from stakeholders with leaving elevated gloveboxes in PRF for extraction during demolition, a new approach is being evaluated to remove the gloveboxes during Pre-demolition activities using saw-cut and rig out methods. Impacts to the project using this new approach are being evaluated. **Mitigation action(s)** / **FC Date** / **%** Identify and pre-rig equipment with lifting slings. / 6/01/17 / 50 Initiate discussions early in the demo planning of the equipment being left in place for removal during demolish. / Ongoing / N/A Apply fixative to internals of equipment intended to be removed during demolition to contain contamination. / Ongoing / N/A **Mitigation Assessment:** No changes in the month of June. At this time no alternative course of actions needed.
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)				
FY2016 Risk Triggers (Risk could be realized in FY2016)				
PFP-DEMO-05: Inclement Weather	Inclement weather, including moderate winds, low or high temperatures and thunderstorms will impact the demolition of PFP. **Risk Handling Strategy:** Accept **Probability:** Medium (26% to 74%) **Worst Case Impacts:** $0K, 32 days *Cost increase will result in cost per day impacts from crews, and hotel load.			**Risk Trigger:** During pre-demolition/demolition activities in FY2016. Dates tracked in the FES. **Mitigation action(s)** / **FC Date** / **%** None identified at this time. / N/A / N/A **Mitigation Assessment:** No changes in the month of June. The mitigation strategies have been put in place, as a result, the risk strategy is to accept with no further mitigation actions identified at this time. PFP will continue to develop work plans to incorporate required controls. At this time no alternative course of actions needed.
Unassigned Risks (Pending ownership of identified risks/opportunities)				
To ensure success of the project ownership needs to be established to further identify and address potential impacts to project cost and schedule. There are cases when risks are identified but are outside the control and management of the contractor. However, CHPRC risk management process identifies all risks that could impact overall project success.				

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

CRITICAL PATH SCHEDULE

The PFP Critical Schedule Path is a resource driven float path. The current E4 team in the 234-5Z duct level completes E4 duct and filterbox removals, then transitions to miscellaneous decon throughout 234-5Z to get it into a ready for demo state. Demolition of 234-5Z will occur in the following sequence: 234-5ZA, Frontside, A-Labs, Backside Rooms/PPSL, RMA Process Lines, RMC Process Lines, and finally the RADTU & Basement areas. Once complete, the final step is stabilization of the PFP site leading to completion of the final Tri-Party Agreement milestone – M-083-00A - *PFP Facility Transition and Selection Disposition Activities*.

SCHEDULE MARGIN/MANAGEMENT RESERVE

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

CRITICAL DECISION MILESTONE STATUS

Number	Title	* Due Date	**Forecast Date	Status/ Comment
RL-011.C2	Completion Demolition of all PFP Facilities	8/31/18	8/28/17	Progress continued to work towards CD-4 closure as teams continued to ready the PFP facilities for demolition. It is expected that the PRF facility will initiate demolition on September 2, 2016 and completion of demolition activities will occur on May 31, 2017.

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

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None to report at this time.

RL-011.C2
Contract Performance Reports

Format 1 - Work Breakdown Structure

Format 2 - Organizational Categories

Format 3 - Baseline

Format 4 - Staffing

Format 5 - Explanation and Problem Analysis

June 2016
CHPRC-2016-06, 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 RL_0011_C2 PFP Demolition Capital Asset Project	a. FROM *(YYYYMMDD)* 2016 / 05 / 23
b. LOCATION (Address and ZIP Code) Richland, WA	b. NUMBER RL14788		b. PHASE	b. TO *(YYYYMMDD)* 2016 / 06 / 19
	c. TYPE CPAF	d. SHARE RATIO	c. EVMS ACCEPTANCE NO X YES *(YYYYMMDD)* 2009 / 09 / 18	

5. CONTRACT DATA

a. QUANTITY	b. NEGOTIATED COST	c. ESTIMATED COST OF AUTHORIZED UNPRICED WORK	d. TARGET PROFIT/FEE	e. TARGET PRICE	f. ESTIMATED PRICE	g. CONTRACT CEILING	h. ESTIMATED CONTRACT CEILING	i. DATE OF OTB/OTS *(YYYYMMDD)*
1	51,683	0	5,000	56,683	55,177	56,683	55,177	

6. ESTIMATED COST AT COMPLETION

	MANAGEMENT ESTIMATE AT COMPLETION (1)	CONTRACT BUDGET BASE (2)	VARIANCE (3)
a. BEST CASE	46,023		
b. WORST CASE	52,826		
c. MOST LIKELY	50,177	51,683	1,506

7. AUTHORIZED CONTRACTOR REPRESENTATIVE

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

c. SIGNATURE

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																
RL_0011_C2.05 Disposition PFP	3,156	71	209	-3,084	-137	19,962	8,037	8,555	-11,925	-518	0	0	0	47,529	46,023	1,506
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	3,156	71	209	-3,084	-137	19,962	8,037	8,555	-11,925	-518	0	0	0	47,529	46,023	1,506
f. MANAGEMENT RESERVE														4,154		
g. TOTAL	3,156	71	209	-3,084	-137	19,962	8,037	8,555	-11,925	-518	0	0	0	51,683		

9. RECONCILIATION TO CONTRACT BUDGET BASELINE

a. VARIANCE ADJUSTMENT																
b. TOTAL CONTRACT VARIANCE									-11,925	-518				51,683	46,023	5,661

CLASSIFICATION (When Filled In)

CLASSIFICATION (When Filled In)

CONTRACT PERFORMANCE REPORT

FORMAT 2 - ORGANIZATIONAL CATEGORIES

DOLLARS IN Thousands of $

FORM APPROVED
OMB No. 0704-0188

1. CONTRACTOR	2. CONTRACT		3. PROGRAM	4. REPORT PERIOD
a. NAME CH2M HILL Plateau Remediation Company	a. NAME Plateau Remediation Contract		a. NAME RL_0011_C2 PFP Demolition Capital Asset Project	a. FROM *(YYYYMMDD)* 2016 / 05 / 23
b. LOCATION (Address and ZIP Code) Richland, WA	b. NUMBER RL14788		b. PHASE	b. TO *(YYYYMMDD)* 2016 / 06 / 19
	c. TYPE CPAF	d. SHARE RATIO	c. EVMS ACCEPTANCE NO: ; X YES *(YYYYMMDD)* 2009 / 09 / 18	

5. PERFORMANCE DATA

WBS.Resp Org Group	CURRENT PERIOD					CUMULATIVE TO DATE					REPROGRAMMING ADJUSTMENTS			AT COMPLETION		
	BUDGETED COST		ACTUAL	VARIANCE		BUDGETED COST		ACTUAL	VARIANCE					BUDGETED	ESTIMATED	VARIANCE
ITEM	WORK SCHEDULED	WORK PERFORMED	COST WORK PERFORMED	SCHEDULE	COST	WORK SCHEDULED	WORK PERFORMED	COST WORK PERFORMED	SCHEDULE	COST	COST VARIANCE	SCHEDULE VARIANCE	BUDGET			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12a)	(12b)	(13)	(14)	(15)	(16)
3B - PFP Closure Project	3,156	71	209	-3,084	-137	19,962	8,037	8,555	-11,925	-518	0	0	0	47,529	46,023	1,506
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)*	3,156	71	209	-3,084	-137	19,962	8,037	8,555	-11,925	-518	0	0	0	47,529	46,023	1,506
f. MANAGEMENT RESERVE														4,154		
g. TOTAL	3,156	71	209	-3,084	-137	19,962	8,037	8,555	-11,925	-518	0	0	0	51,683		

CLASSIFICATION (When Filled In)

CONTRACT PERFORMANCE REPORT

FORMAT 3 - BASELINE

DOLLARS IN THOUSANDS

Form Approved

OMB No. 0704-0188

1. CONTRACTOR	2. CONTRACT	3. PROGRAM	4. REPORT PERIOD
CH2M HILL Plateau Remediation Company	a. NAME: Plateau Remediation Contract	a. NAME: Plateau Remediation Contract	a. FROM: 2016/05/23
b. LOCATION:	b. NUMBER: RL14788	b. PHASE	b. TO: 2016/06/19
Richland, WA	c. TYPE: CPAF	c. EVMS ACCEPTANCE	
	d. SHARE RATIO:	NO YES X 9/18/2009	

5. CONTRACT DATA

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

ITEM	BCWS CUM TO DATE	BCWS FOR REPORT PERIOD	BUDGETED COST FOR WORK SCHEDULED (NON - CUMULATIVE) SIX MONTH FORECAST +1 Jul-16	+2 Aug-16	+3 Sep-16	+4 Oct-16	+5 Nov-16	+6 Dec-16	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)	**16,806**	**3,156**	**5,368**	**3,921**	**4,889**	**3,013**	**4,568**	**2,819**	**0**	**0**	**6,090**	**28,049**	**13,390**	**0**	**0**	**47,529**
b. BASELINE CHANGES AUTH DURING REPORT PERIOD																
None currently identified.											**0**	**0**	**0**	**0**	**0**	**0**
c. PM BASELINE (END OF PERIOD)	**19,962**	**3,156**	**5,368**	**3,921**	**4,889**	**3,013**	**4,568**	**2,819**	**0**	**0**	**6,090**	**28,049**	**13,390**	**0**	**0**	**47,529**
7. MANAGEMENT RESERVE																**4,154**
8. TOTAL																**51,683**

CLASSIFICATION (When Filled In)

CONTRACT PERFORMANCE REPORT

FORMAT 4 - STAFFING

Dollars in: FTE

FORM APPROVED
OMB No. 0704-0188

1. CONTRACTOR	2. CONTRACT		3. PROGRAM	4. REPORT PERIOD
a. NAME CH2M HILL Plateau Remediation Company	a. NAME Plateau Remediation Contract		a. NAME RL_0011_C2 PFP Demolition Capital Asset Project	a. FROM *(YYYYMMDD)* 2016 / 05 / 23
b. LOCATION (Address and ZIP Code) Richland, WA	b. NUMBER RL14788		b. PHASE	b. TO *(YYYYMMDD)* 2016 / 06 / 19
	c. TYPE CPAF	d. SHARE RATIO	c. EVMS ACCEPTANCE NO: [ ] YES: [X] *(YYYYMMDD)* 2009 / 09 / 18	

5. PERFORMANCE DATA

WBS.Resp Org Group	ACTUAL	ACTUAL	FORECAST *(Non-Cumulative)*											
			SIX MONTH FORECAST BY MONTH *(Enter names of months)*						ENTER SPECIFIED PERIODS					AT
ORGANIZATIONAL CATEGORY	CURRENT PERIOD	END OF CURRENT PERIOD *(Cumulative)*	+1 JUL 2016	+2 AUG 2016	+3 SEP 2016	+4 OCT 2016	+5 NOV 2016	+6 REMAIN FY17	FY18	FY19-FY24	ATCOMPLETE			COMPLETION
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
3B - PFP Closure Project	1	28	35	28	78	82	58	805	0	0	0	0	0	1115
g. TOTAL DIRECT	1	28	35	28	78	82	58	805	0	0	0	0	0	1115

CLASSIFICATION (When Filled In)

CLASSIFICATION (When Filled In)

CONTRACT PERFORMANCE REPORT
FORMAT 5 - Explanations and Problem Analysis

FORM APPROVED
OMB No. 0704-0188

1. CONTRACTOR	2. CONTRACT		3. PROGRAM		4. REPORT PERIOD
a. NAME	a. NAME		a. NAME		a. FROM (YYYYMMDD)
CH2M HILL Plateau Remediation Company	Plateau Remediation Contract		RL_0011_C2 PFP Demolition Capital Asset Project		2016 / 05 / 23
b. LOCATION (Address and ZIP Code)	b. NUMBER		b. PHASE		b. TO (YYYYMMDD)
Richland, WA	RL14788				
	c. TYPE	d. SHARE RATIO	c. EVMS ACCEPTANCE		
	CPAF		No X Yes	2009 / 09 / 18	2016 / 06 / 19

5. Evaluation

Direct Projects

	Budget	Earned	Actuals	SV in $	SV in %	CV in $	CV in %	SPI	CPI
Current:	3,156	71	209	-3,084	-98%	-137	-193%	0.02	0.34
Cumulative:	19,962	8,037	8,555	-11,925	-60%	-518	-6%	0.40	0.94
	BAC	**EAC**	**VAC in $**	**VAC in %**	**TCPI to BAC**	**TCPI to EAC**			
At Complete:	47,529	46,023	1,506	3%	1.01	1.05			

Explanation of Variance/Description of Problem:
Current Period:

Schedule Variance: The current month negative schedule variance is due to the apportioned support activities for project management, cross-cutting support, and consumable materials due to the delay in associated discrete work scope. In addition, work scope associated with the demolition of 236-Z (PRF) not being performed as originally scheduled. The demolition of PRF has been delayed due to resources being redirected to support ready for demolition activities associated with 242-Z and PRF (other project critical path work) . Once the main PFP buildings, (234-5Z, 236-Z, and 242-Z) are closer to being ready for demo and the resources are available, demolition of the remaining ancillary buildings will occur leading in to the demolition of PRF. As a result of delays in the ready for demolition activities, the C2 CD-4 has been delayed to 08/28/2017 and the TPA milestone M-083-00A due date of 9/30/2016 will not be met.

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

Cumulative to Date:

Schedule Variance: The cumulative schedule variance is due to delay of demolition of ancillary buildings and 236-Z caused by resources being redirected to support higher priority critical path work associated with decommissioning of 234-5Z, 242-Z, and 236-Z, as well as the 236-Z Canyon Crane failure. Once the 236-Z building is ready for demo, the diverted resources will be redirected to support demolition of the ancillary buildings in the fall of 2016. Initiation of demolition of the 236-Z facility is currently forecast for September, 2016, with 242-Z and 234-5Z following thereafter. As a result of delays in the ready for demolition activities, the C2 CD-4 has been delayed and the TPA milestone M-083-00A will not be met.

Cost Variance: Within threshold. However, to ensure that the project is able to initiate demolition activities as identified on the current schedule, costs will continue to be realized resulting in a potential unrecoverable cost variance.

Impact:
Schedule Impact: A delay in getting 234-5Z ready for Cold & Dark resulted in a loss of 6 calendar days since May to the critical path to achieving the CD-4 and the TPA Milestone TPA-083-00A, complete PFP facility transition and selected disposition activities, due September 30, 2016.

Cost Impact: Stop Works, Safety Pauses, contamination events, PRF Crane failure, and associated recovery actions have impacted the work to ready facilities for demolition. Mitigation actions are being reviewed and when finalized will be put in place to partially recover the cost impact. In addition, the start of mobilization for PFP demolition (236-Z) has been delayed as a result of discrete D&D ready for demolition scope lagging. The positive VAC is reflective of working one shift during demolition of 236-Z and 242-Z facilities rather than two as planned in the PMB. In addition, the duration for demolition of 234-5Z has been adjusted as it has been determined that due to the time of year demolition will occur, the number of days to demolish the facility will be less than originally assumed. This reduces the amount of demolition and supervision labor resources needed, resulting in the reduction of EAC to BCWS values. The projected net EAC impact of $2,013K since May is the result of increased engineering support and increased costs for D&D support resources related to "down time" in between demolition of 242-Z and 234-5Z.

Corrective Action:
Cost:
Get facilities across PFP ready for demo allowing demolition to begin. Action Mike Douglas due 09/01/2016

MSA subcontracted resources (i.e., Heavy Equipment Operators, Crane Operators, Mechanics, etc.) will be loaned out to other CHPRC and other Hanford contractors when the PFP project can support the needs of others and this offset unnecessary costs to the PFP Project. Action Mike Douglas due 09/30/2016

Schedule:
Safely accelerate decommissioning of 234-5Z, 236-Z, 242-Z, and 291-Z in order to allow demolition of facilities in the PFP complex to begin. Action Mike Douglas 09/30/2016

NOTE: Corrective actions associated with stop works/safety pauses, contamination events, and 236-Z Canyon Crane failure that are impacting the ability to initiate demolition activities in the RL-011.C2 capital asset project were previously addressed in the Operations project corrective action plan.

Monthly Summary (to include technical causes of VARs, Impacts) and Corrective Action(s):
The following items are addressed, as applicable, per the EVMSIH:
1. Schedule Margin Analysis: There is currently no remaining schedule margin in this capital asset account. Schedule margin was lost in February as a result of impacts from stop works associated with PremAire breathing air issues related to size reduction of the HA-9A glovebox and impacts from a safety pause associated with a PremAire Breathing Air radiological event resulting in increased survey requirements for PPE.
2. IMS Data dictionary Changes: No change in the month of 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 = $46,023; Most Likely = $50,177; Worst Case = $52,826
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 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: **Date:** **Approved by:** **Date:**

Appendix C.3
Capital Asset Project
RL-012 Sludge Retrieval Project 15-D-401

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

June 2016
CHPRC-2016-06, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

- On June 02, 2016, RL received approval from DOE-EM for Project 15-D-401, Sludge Removal Project. Beginning with June month end the project will commence reporting within DOE's PARS II.
- Continued execution of the MPAT with a testing status at 70 percent complete.
- Completed Performance Measure (PM)-12-8-16 with delivery of the cell storage equipment that will be installed in the T-Plant canyon to allow receipt and storage of the STSC, (i.e. leveling frames, containment system, leak detectors).
- Continued (internal & external) reviews of the draft integrated 105K West Basin DSA and TSR. Submittal of the safety basis to RL is on schedule for August 2016. The formal DSA/TSR must be approved and implemented prior to KPAT.

KEY ACCOMPLISHMENTS

KW Basin Sludge Retrieval Capital Assest Project

- ECRTS Process Equipment Procurement:
  - Procurement Set #8: STSC Vessels – AVS Source Inspection of vessels 2-5 was completed. With CHPRC (BTR/DA/QAE) satisfied with the completed final data packages for STSC 2-5, ABW shipped STSC 402-405 (4 vessels) to Richland. These four STSCs were receipt inspected by AVS then delivered to HiLine as GFE for installation of associated appurtenances. STSC 406-409 received final AVS Source Inspection and will be packaged for shipping.
  - Procurement Set #9: SS STSC Assemblies (Instrumentation & Appurtenances) – The Overfill Recovery Tools (ORTs) were accepted by AVS. Twelve ORTs will be returned to HiLine as GFE for installation into STSC vessels 2-13. The remaining eleven will be sent to MASF and stored until FY17. STS Handrails/Swing Gates/Placards – This hardware was delivered to MASF.
  - Procurement Set #15: GS Electrical Generator – The electrical generator was receipt inspected and delivered to MASF.
  - Procurement Set #17: STSC Drapes – A modified set of drapes was delivered to MASF.
- MPAT Execution:
  - Executed test activities through fiscal month consistent with project schedule (approximately 70 percent complete).
  - Completed installation of the Nitrogen Supply & Purge Panels and associated piping.
  - Completed interlock testing of the seismic shutdown switches.
  - Completed Nitrogen System retesting.
- KW Annex Construction:
  - Completed formwork, rebar, and grounding for nitrogen pad.
  - Completed Nitrogen pad concrete placement/saw cut and began curing.
  - Completed unpack and inventory of Annex/Basin Rad Panels and Equipment in 142K Building, began setup for testing per HNF-59954.
- In Basin Modifications Construction:
  - Completed concrete placement for the doghouse stem walls in NE Corner of 105K West Basin.
  - Completed fabrication of the booster pump installation rail system.
  - Completed the re-installation of the grating supports above the engineered containers (EC-210 – EC-260).

- Delivered booster pump rail system to site.
- Mobilized retainer rails and shielding plates for HIH Doghouse into basin.

MAJOR ISSUES

None currently identified.

CORRECTIVE ACTION LOG

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

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

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

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

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

Increased Confidence
No Change
Decreased Confidence

Risk Title	Unmitigated Risk Impacts	Assessment		Comments
		Month	Trend	
RL-0012/WBS-012				
Explanation of major changes to the project monthly stoplight chart: No major changes to the monthly stoplight chart in the month of June.				
Realized Risks (Risks that are currently impacting project cost/schedule)				
STP-123-B: Design Maturity - ECRTS Annex/In-Basin Equip.	Finalization of design media for the ECRTS equipment installation will result in changes to both cost and schedule. **Risk Handling Strategy:** Accept **Probability:** Medium (26% to 74%) **Worst Case Impacts:** $912K, 64 days			**Risk Event:** The project realized additional cost and schedule impacts in June as a result of the construction review of DCN 391, which indicated the Nitrogen and P10 bottles require weather enclosure for bottle storage (DCN-445). Other DCNs identified in the engineering action list are being developed including but not limited to: Prepare Signage Schedule (DCN-209); Release Shielding Calculations and KW Modified Annex ALARA Design Review Checklist (DCN-068), Radcon related missing design-Add P-10 Gas Lines to Annex (DCN-391), Shield Cave Mounting (DCN-422), and Changes to I&C Drawing Updates (DCN-405). The project continues to evaluate the DCNs and the impacts to the project. A BCR requesting an MR drawdown is projected prior to the end of FY2016.

Risk recovery action(s)	Risk Date	FC Date	%
Provide weather protection for Annex Nitrogen Bottle station (DCN-445)	6/16/16	7/21/16	0
Add Hose & Valve installation @ transfer box air system (Mitigation of long lead item impact by awarding procurement released to FFP under Release #2) (DCN-410)	12/16/15	10/1/16	0
Prepare Signage Schedule (DCN-209)	4/4/16	7/28/16	70
Release Shielding Calculations and KW Modified Annex ALARA Design Review Checklist (068)	12/16/12	9/29/16	80
Add P-10 Gas Lines to Annex (DCN-391), Status on 6/23 w/CDC pending full size dwg signature.	1/4/16	6/30/16	95
ECR for CAM installation in Basin (ECR-16-000478)	3/7/16	Complete	100
Shield Cave Mounting (DCN-422)	3/23/16	7/28/16	80
I&C Drawing Updates (DCN - 405)	2/8/16	7/28/16	80
Sand Filter Shielding Calc. (DCN-413)	3/8/16	Complete	100

Recovery Action Assessment:
DCNs are identified and reviewed at the weekly engineering meeting to define a path forward for the pending changes. The majority of the DCNs identified to-date are expected to be cleared by August month end. Delays to DCN completion are due to the lack of scope definition for the initial recovery action and priorities and commitments Engineering and other support resources.
During the weekly engineering meetings, the project identifies and reviews DCNs and define a path forward for the pending changes. A Title III Engineering manager has been hired to coordinate the design changes with the construction group.
Mitigation actions are in place that are expected to reduce the probability of the risk occurrence and reduces the potential cost and schedule impacts. Additionally, the risk will continue to be monitored. No additional mitigation actions have been identified at this time.

<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-0012/WBS-012</td></tr>
<tr><td>STP-111-B: Contractor/ Subcontractor Performance - ECRTS Annex/In-Basin Equip. Installation</td><td>The General Conditions Contractor and their supporting subcontractors have historically performed poorly and will be challenged on this project by compliance with project and contract flow down requirements (e.g., quality, nuclear standards, site safety requirements, subcontract management to ensure contract requirements are met, NRTL compliance, suspect counterfeit, Buy-American contract clause, Project Controls requirements, development of Construction Acceptance Testing [CAT], timely processing of submittals compliance with all the subcontract flow down requirements) as well as deployment and maintenance of key staff that are essential to safe, cost effective and on-time project delivery.

Risk Handling Strategy: Control

Probability: Very Likely (> 90%)
Worst Case Impacts: $792K, 96 days</td><td>  </td><td></td><td>Risk Event:
The project began to experience contractor delay due to inadequate general conditions staffing. There has been a delay in the receipt of Proposal for CA#3 (Release #10) as well as a delay in timely receipt of Change Order Proposals. A note regarding this issue was sent to the contractor on June 01, 2016 via CHPRC Contracts Department. There was a delay/impact to field execution based on an issue associated with CR-2016-1246, working Basin steel mod work package scope.
<table><tr><th>Risk recovery action(s)</th><th>Risk Date</th><th>FC Date</th><th>%</th></tr><tr><td>Address issue associated with CR-2016-1246, working outside work package scope.</td><td>6/16/16</td><td>7/15/16</td><td>50</td></tr><tr><td>Contractor delays due to inadequate staffing/mobilization. Will work with contractor to stabilize work resource planning.</td><td>5/17/16</td><td>Ongoing</td><td>NA</td></tr></table>Recovery Action Assessment:
This is a reoccurring risks relating to the performance of the General Conditions Contractor and their supporting subcontractors. The CHPRC project team continues to work with their subcontractors to ensure the contractors are thoroughly aware of their project responsibilities and have the opportunity to successfully complete their project scope.
Mitigation actions are in place that are expected to reduce the probability of the risk occurrence and reduce the potential cost and schedule impact, and the risk will continue to be monitored. No additional mitigation actions have been identified at this time.</td></tr>
<tr><td>STP-103-M: MASF Pre-Operational Acceptance Testing (MPAT)</td><td>The ECRTS equipment does not operate as expected, requiring increased engineering & MASF Testing Staff Support. This will require design modifications of production hardware and changes to control system software. These modifications will negatively impacts downstream testing, construction, readiness and ECRTS Operations.

Risk Handling Strategy: Control

Probability: Low (10% to 25%)
Worst Case Impacts: $500K, 60 days</td><td>  </td><td>  </td><td>Risk Event:
This risk has been realized. During the month of May, the second Transfer System Instrument Spool failed.
<table><tr><th>Risk recovery action(s)</th><th>Risk Date</th><th>FC Date</th><th>%</th></tr><tr><td>Coordinate with Krohne Instrument Manufacturer on Instrument Spool Failure Causal Analysis and subsequent implementation of corrective actions.</td><td>5/31/16</td><td>Complete</td><td>100</td></tr><tr><td>Procure 4 Operationally sound Transfer System Instrument Loops after corrective actions are fully implemented.</td><td>5/31/16</td><td>8/31/16</td><td>5</td></tr><tr><td>Ensure all project technical personnel are available to mitigate emergent technical challenges and establish proactive solutions.</td><td>5/31/16</td><td>Ongoing</td><td>70</td></tr></table>Recovery Action Assessment:
Although the initial Transfer System Instrument Spool failure was considered “infant mortality”, this second failure indicates that a systemic flaw likely exists in the assembly and the instrument manufacturer has been contacted to determine cause of failure and corrective action. A “test article” Transfer System Instrument Spool and a “spare” production Transfer System Instrument Spool are now installed and are allowing the MPAT Test to proceed. While only two days have been lost to project critical path, MPAT Testing continues and the risk of experiencing additional failures exists. The Contractor was required to complete an equipment failure causal analysis, which took longer than anticipated delaying the procurement of the new equipment.
While there are now over 105 Test Deficiency Reports, many associated with equipment operating anomalies and a number of design changes to existing configuration, the technical staff has been successful to date in addressing the balance of the challenges without impacting MPAT test duration or cost.
The mitigation strategies were put in place, but a recovery action was been added to aggressively pursue instrument failure analysis and corrective action implementation. As a result, the risk strategy has been changed to control.</td></tr>
<tr><td colspan="5">Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)</td></tr>
<tr><td colspan="5">No critical risks identified in the month of June.</td></tr>
<tr><td colspan="5">High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)</td></tr>
<tr><td colspan="5">FY2017 Risk Triggers (Risk could be realized in FY2017)</td></tr>
</table>

<table>
<tr><th rowspan="2">Risk Title</th><th rowspan="2">Unmitigated Risk Impacts</th><th colspan="2">Assessment</th><th rowspan="2">Comments</th></tr>
<tr><th>Month</th><th>Trend</th></tr>
<tr><td colspan="5">RL-0012/WBS-012</td></tr>
<tr><td>STP-103:
K Basin Pre-Operational Acceptance Testing (KPAT) & ECRTS Startup</td><td>The ECRTS equipment does not operate as expected requiring increased engineering, startup, operations, and construction Firm Fixed Price contractor support; as well as equipment replacement, procurement, and retesting. Realization of this risk would also require additional training, procedure revision, and design modifications as a result of construction testing and/or Lines of Inquiry for Readiness Review resulting in cost impacts and schedule delays.

Risk Handling Strategy: Control

Probability: Medium (26% to 74%)
Worst Case Impacts: $4.5 million, 90 days</td><td>  </td><td>  </td><td>Risk Trigger:
1) The ECRTS equipment does not operate as expected.
2) Unexpected attrition of critical testing personnel.

<table>
<tr><th>Mitigation action(s)</th><th>FC Date</th><th>%</th></tr>
<tr><td>Conduct Full-scale testing of production hardware at MASF prior to installation at K-Basin to avoid costly replacement of malfunctioning equipment during Hot Startup.</td><td>7/31/16</td><td>0</td></tr>
<tr><td>Develop and refine procedures based upon feedback from testing and operations personnel.</td><td>TBD</td><td>0</td></tr>
<tr><td>Any Challenges identified at MASF will be resolved prior to completion of cold commissioning. (forecast for July 2016)</td><td>On-going</td><td>0</td></tr>
<tr><td>Develop streamline strategy (work packages and procedures) to perform in-basin/annex integrated testing and troubleshooting.</td><td>9/30/16</td><td>0</td></tr>
<tr><td>Utilize Overtime to offset schedule impacts.</td><td>As Needed</td><td>N/A</td></tr>
<tr><td>Closely monitor employee satisfaction and consider employee incentive to retain key test personnel.</td><td>As Needed</td><td>N/A</td></tr>
</table>

Mitigation Assessment:
No changes in the month of June.
Forecasted mitigation dates are consistent with overall STP critical path schedule.</td></tr>
<tr><td colspan="5">FY2018 Risk Triggers (Risk could be realized in FY2018)</td></tr>
<tr><td colspan="5">Unassigned Risks (Pending ownership of identified threats/opportunities)</td></tr>
<tr><td colspan="5">No unassigned risks identified in the month of June.</td></tr>
</table>

CRITICAL PATH SCHEDULE

The critical path flows through performance of the MPAT at MASF, installation of process equipment at 100K Basin, K Basin Pre-operational acceptance testing (KPAT) of the facility modifications and annex process equipment, readiness activities, and finally, containerized sludge retrieval operations. Retrieval operations include the filling of STSCs with sludge and transferring them to T Plant, completing Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) milestone M-016-176, *Complete Sludge Removal from 105-KW Fuels Storage Basin* (milestone is outside contract period in FY2019).

SCHEDULE MARGIN/MANAGEMENT RESERVE

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

CRITICAL DECISION MILESTONE STATUS

Number	Title	*Due Date	**Forecast Date	Status/ Comment
15-D-401	CD-4, Project Completion	11/30/2019	8/26/2018	The forecast date includes schedule margin from the Project's risk analysis.

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

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.

RL-012.C3
Contract Performance Reports

Format 1 - Work Breakdown Structure

Format 2 - Organizational Categories

Format 3 - Baseline

Format 4 - Staffing

Format 5 - Explanation and Problem Analysis

ch2m

June 2016
CHPRC-2016-06, 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) 2016 / 05 / 23
b. LOCATION (Address and ZIP Code) Richland, WA	b. NUMBER RL14788	b. PHASE	b. TO (YYYYMMDD) 2016 / 06 / 19
	c. TYPE CPAF / d. SHARE RATIO	c. EVMS ACCEPTANCE NO: / X / YES (YYYYMMDD) 2019 / 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	299,385	303,653	299,385	

6. ESTIMATED COST AT COMPLETION

	MANAGEMENT ESTIMATE AT COMPLETION (1)	CONTRACT BUDGET BASE (2)	VARIANCE (3)
a. BEST CASE	283,712		
b. WORST CASE	295,393		
c. MOST LIKELY	291,435	295,703	4,268

7. AUTHORIZED CONTRACTOR REPRESENTATIVE

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

b. TITLE: Prime Contract 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)	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	3,185	2,917	1,399	-268	1,517	70,174	72,416	66,844	2,242	5,572	0	0	0	131,120	126,927	4,193
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	3,185	2,917	1,399	-268	1,517	227,035	229,277	223,630	2,242	5,647	0	0	0	287,981	283,712	4,268
f. MANAGEMENT RESERVE														7,722		
g. TOTAL	3,185	2,917	1,399	-268	1,517	227,035	229,277	223,630	2,242	5,647	0	0	0	295,703		

9. RECONCILIATION TO CONTRACT BUDGET BASELINE

a. VARIANCE ADJUSTMENT																
b. TOTAL CONTRACT VARIANCE									2,242	5,647				295,703	283,712	11,991

CLASSIFICATION (When Filled In)

CLASSIFICATION (When Filled In)

CONTRACT PERFORMANCE REPORT

FORMAT 2 - ORGANIZATIONAL CATEGORIES

DOLLARS IN Thousands of $

FORM APPROVED
OMB No. 0704-0188

1. CONTRACTOR	2. CONTRACT		3. PROGRAM	4. REPORT PERIOD
a. NAME CH2M HILL Plateau Remediation Company	a. NAME Plateau Remediation Contract		a. NAME 15_D_401 KW Basin Sludge Removal Project	a. FROM *(YYYYMMDD)* 2016 / 05 / 23
b. LOCATION (Address and ZIP Code) Richland, WA	b. NUMBER RL14788		b. PHASE	b. TO *(YYYYMMDD)* 2016 / 06 / 19
	c. TYPE CPAF	d. SHARE RATIO	c. EVMS ACCEPTANCE NO: ; X ; YES *(YYYYMMDD)* 2019 / 09 / 18	

5. PERFORMANCE DATA

WBS.Resp Org Group	CURRENT PERIOD					CUMULATIVE TO DATE					REPROGRAMMING ADJUSTMENTS			AT COMPLETION		
	BUDGETED COST		ACTUAL	VARIANCE		BUDGETED COST		ACTUAL	VARIANCE					BUDGETED	ESTIMATED	VARIANCE
ITEM	WORK SCHEDULED	WORK PERFORMED	COST WORK PERFORMED	SCHEDULE	COST	WORK SCHEDULED	WORK PERFORMED	COST WORK PERFORMED	SCHEDULE	COST	COST VARIANCE	SCHEDULE VARIANCE	BUDGET			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12a)	(12b)	(13)	(14)	(15)	(16)
3G - K Basin Oper & Plateau Remediation Project	3,185	2,917	1,399	-268	1,517	227,035	229,277	223,630	2,242	5,647	0	0	0	287,981	283,712	4,268
b. COST OF MONEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
c. GENERAL AND ADMINISTRATIVE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
d. UNDISTRIBUTED BUDGET														0	0	0
e. SUBTOTAL *(Performance Measurement Baseline)*	3,185	2,917	1,399	-268	1,517	227,035	229,277	223,630	2,242	5,647	0	0	0	287,981	283,712	4,268
f. MANAGEMENT RESERVE														7,722		
g. TOTAL	3,185	2,917	1,399	-268	1,517	227,035	229,277	223,630	2,242	5,647	0	0	0	295,703		

CLASSIFICATION (When Filled In)

CONTRACT PERFORMANCE REPORT
FORMAT 3 - BASELINE
DOLLARS IN THOUSANDS

Form Approved
OMB No. 0704-0188

1. CONTRACTOR	2. CONTRACT	3. PROGRAM	4. REPORT PERIOD
CH2M HILL Plateau Remediation Company	a. NAME: Plateau Remediation Contract	a. NAME: Plateau Remediation Contract	a. FROM: 2016/05/23
b. LOCATION:	b. NUMBER: RL14788	b. PHASE	b. TO: 2016/06/19
Richland, WA	c. TYPE: CPAF	c. EVMS ACCEPTANCE	
	d. SHARE RATIO:	NO YES X 9/18/2009	

5. CONTRACT DATA

a. ORIGINAL NEGOTIATED COST	b. NEGOTIATED CONTRACT CHANGE	c. CURRENT NEGOTIATED COST (A + B)	d. ESTIMATED COST AUTH UNPRICED WORK	e. CONTRACT BUDGET BASE (C + D)	f. TOTAL ALLOCATED BUDGET	g. DIFFERENCE (E - F)
295,813	$0	$295,813	$0	$295,813	$295,703	$110

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-16	+2 Aug-16	+3 Sep-16	+4 Oct-16	+5 Nov-16	+6 Dec-16	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)	**223,850**	**3,185**	**4,699**	**4,393**	**5,943**	**2,282**	**2,954**	**3,084**	**0**	**27,547**	**50,942**	**69,007**	**37,413**	**8,498**	**0**	**287,981**
b. BASELINE CHANGES AUTH DURING REPORT PERIOD																
None currently identified.											**0**	**0**	**0**	**0**	**0**	**0**
c. PM BASELINE (END OF PERIOD)	**227,035**	**3,185**	**4,699**	**4,393**	**5,943**	**2,282**	**2,954**	**3,084**	**0**	**27,547**	**50,942**	**69,007**	**37,413**	**8,498**	**0**	**287,981**
7. MANAGEMENT RESERVE																**7,722**
8. TOTAL																**295,703**

CLASSIFICATION (When Filled In)

CONTRACT PERFORMANCE REPORT

FORMAT 4 - STAFFING

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)* 2016 / 05 / 23
b. LOCATION (Address and ZIP Code) Richland, WA	b. NUMBER RL14788		b. PHASE	b. TO *(YYYYMMDD)* 2016 / 06 / 19
	c. TYPE CPAF	d. SHARE RATIO	c. EVMS ACCEPTANCE NO: [ ] YES: [X] *(YYYYMMDD)* 2019 / 09 / 18	

5. PERFORMANCE DATA

WBS.Resp Org Group ORGANIZATIONAL CATEGORY (1)	ACTUAL CURRENT PERIOD (2)	ACTUAL END OF CURRENT PERIOD *(Cumulative)* (3)	FORECAST *(Non-Cumulative)* SIX MONTH FORECAST BY MONTH *(Enter names of months)* +1 JUL 2016 (4)	+2 AUG 2016 (5)	+3 SEP 2016 (6)	+4 OCT 2016 (7)	+5 NOV 2016 (8)	+6 REMAIN FY17 (9)	ENTER SPECIFIED PERIODS FY18 (10)	FY19-LC (11)	AT COMPLETE (12)	(13)	(14)	AT COMPLETION (15)
3G - K Basin Oper & Plateau Remediation Proje	71	6054	85	85	84	75	75	695	544	0	0	0	0	7697
g. TOTAL DIRECT	71	6054	85	85	84	75	75	695	544	0	0	0	0	7697

CLASSIFICATION (When Filled In)

CLASSIFICATION (When Filled In)

CONTRACT PERFORMANCE REPORT

FORMAT 5 - Explanations and Problem Analysis

FORM APPROVED
OMB No. 0704-0188

1. CONTRACTOR	2. CONTRACT		3. PROGRAM		4. REPORT PERIOD
a. NAME	a. NAME		a. NAME		a. FROM (YYYYMMDD)
CH2M HILL Plateau Remediation Company	Plateau Remediation Contract		15_D_401 KW Basin Sludge Removal Project		2016 / 05 / 23
b. LOCATION (Address and ZIP Code)	b. NUMBER		b. PHASE		b. TO (YYYYMMDD)
Richland, WA	RL14788				
	c. TYPE	d. SHARE RATIO	c. EVMS ACCEPTANCE		
	CPAF		No X Yes	(YYYYMMDI 2019 / 09 / 18	2016 / 06 / 19

5. Evaluation

Direct Projects

	Budget	Earned	Actuals	SV in $	SV in %	CV in $	CV in %	SPI	CPI
Current:	3,185	2,917	1,399	-268	-8%	1,517	52%	0.92	2.08
Cumulative:	227,035	229,277	223,630	2,242	1%	5,647	2%	1.01	1.03
	BAC	**EAC**	**VAC in $**	**VAC in %**	**TCPI to BAC**	**TCPI to EAC**			
At Complete:	287,981	283,712	4,268	1%	0.91	0.98			

Explanation of Variance/Description of Problem:

Schedule Variance: Within Threshold

Cost Variance: The positive cost variance associated with this account is due to a Firm Fixed Price settlement that was reached in June resulting in an accrual adjustment of ~1.5M.

Cumulative To Date:

Schedule Variance: Within Threshold

Cost Variance: Within Threshold

Impact:

Schedule Impact: None identified at this time. The project continues to pursue acceleration of the first sludge container from the current plan of June 4, 2018 (non-risk adjusted date). The project is on schedule to meet TPA milestones M-016-177 "Complete 105-KW Sludge Transfer Equipment Installation" by 9/30/2017 and M-016-175 "Begin Sludge Removal from 105-KW Fuel Storage Basin" by 9/30/2018.

Cost Impact: None identified at this time. The project expects the positive cost variance to continue through the ECRTS procurement work. The current ETC reflects the expected overall costs and further ETC adjustments will be considered after the equipment is moved to the facilities and construction begins locating and reconnecting all equipment. Currently, the EAC is projecting $283.7M overall for the project, against a life-cycle budget of $288.0M.

Corrective Action:

Schedule: No corrective actions identified in the month of June.

Cost: Process a BCR to move accrual adjustment dollars to Management Reserve. The BCR is expected to be processed in August 2016.

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

1. Schedule Margin Analysis: The project schedule margin reflects an adjustment of 110 days (baseline) to 83 days (current). This is due to the CD-4 approval logic being revised to include an additional 6 weeks impact to the Project end date as recommended by the ICE/EIR Team (from the original 2 weeks) and revised logic for packaging of equipment at MASF and delivery to 100K for installation. Further analyses by the project team determined that delivery of equipment from MASF to the Basin needed to happen in different order, which caused an impact to the schedule.
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 = $283,712.3; Most likely = $291,434.7; Worst Case =$294,718.7.
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.
11. EVT Changes: None in the month of June.

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