CHPRC-2016-03
Revision 0

Monthly Performance Report

March 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
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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 March. Major accomplishments included:

- The Plutonium Finishing Plant (PFP) closure project completed in-situ size reduction of Glovebox HA-9A and completed painting the floor of the Plutonium Reclamation Facility (PRF) canyon.

- The Waste and Fuels Management Project (W&FMP) continued work on the Stabilization and Ventilation Project (W-130) K3N skid, at the Waste Encapsulation and Storage Facility (WESF), installing and weld testing new drain valves on the condensate drain line. The project shipped twelve waste drums and a fiberglass-reinforced plywood waste box to Perma-Fix Northwest (PFNW) for processing and received sixteen processed waste drums from PFNW.

- The Soil and Groundwater Remediation Project (S&GRP) well development was completed for the first of four groundwater monitoring wells, 299-W19-116 at the 200-UP-1 Operable Unit. Well 299-W21-3 has reached total depth of 426 feet. Well 299-W19-115, and Well 699-31-68 has been drilled to a depth of 204 and 414 feet, respectively.

- The K Basin Operations and Plateau Remediation (KBO&PR) project accepted and received the last sludge removal production hardware at the Maintenance and Storage Facility (MASF). Receipt of this hardware completes Performance Measure PM-12-7-16, *Complete Fabrication and Acceptance of Balance of Engineered Container Retrieval and Transfer System (ECRTS) Production Hardware Required to Commence Cold Commissioning Testing*.

PFP workers completed painting the floor of the PRF canyon.

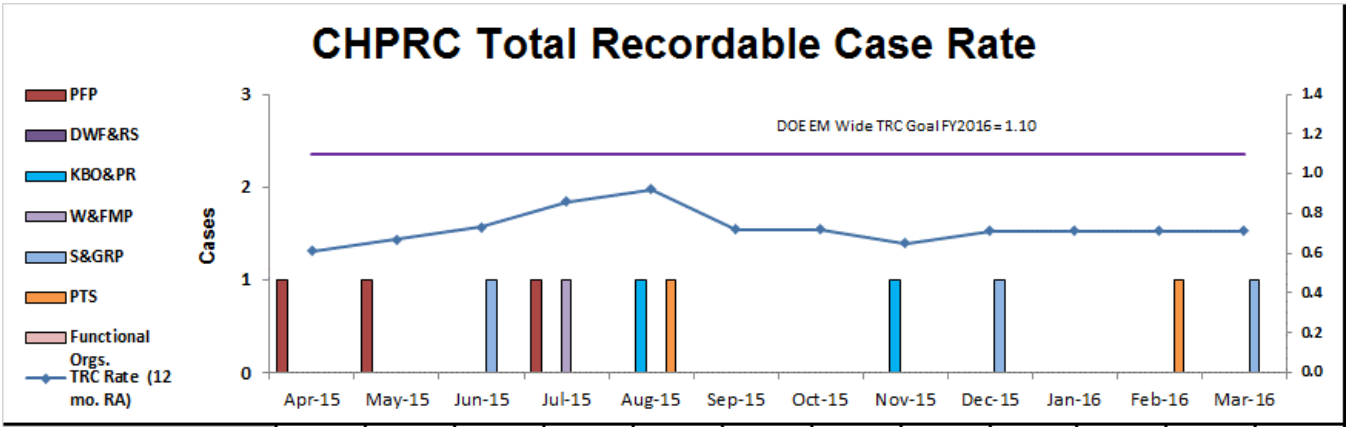
New condensate drain line valves were installed on the K3N skid at WESF.

The March 2016 President's Zero Accident Council (PZAC) meeting was hosted by the Safety, Health, Security & Quality organization.

- The three main ideas for the meeting were:
  - Hanford Weather Station provides weather information for the Site.
  - High winds can adversely affect safety.
  - Report unsafe driving.
- Four "*Thinking Target Zero*" (TTZ) bulletins were published in March to convey important occupational, safety, health, and environmental messages:
  - Fitness for Duty.
  - Preparing for Wind.
  - Report Unsafe Driving.
  - CHPRC Participation in the Health & Safety Expo.
- March *Weekly Safety Tailgate* briefing packages communicated relevant topics and safety information to the workforce:
  - Three Lessons Learned: Spring piston closers failed causing lid to fall down on worker's hand at the Lawrence Berkeley National Laboratory; Waste Treatment Plant Forklift Rigging Assembly Fails; and Worker Pinned between Man Lift and Bottom of Haul Truck.
  - Weekly Ethics Moments.
  - Report Unsafe Driving.
  - Safe Use of Spider Boxes.
  - Spring Forward This Sunday.
  - Preventing Head Injuries.
  - TL PAPR Unit.
  - Don't Text and Drive.
  - Need a Tow on Site.
  - Migratory Bird Act.
  - Attaching Fastener Kit to MSA V-Gard.
  - Yielding to Emergency vehicles is the law.
  - Hazard Communication – Globally Harmonized System.
  - Attaching a Fastener to MSA V-Gard Cap (updated slide).
  - SCBA Cylinders.
- The March Kudos Corner recognized individuals and teams who made a significant contribution to safety at work, home or play:
  - Kudos to a PFP worker for saving a man's life after seeing flames at a Richland home. He and another citizen called 911, got into the house and woke the man who was sleeping inside. They helped the man and his dog escape the burning house. This worker received the CHPRC President's Lifesaving Award and was recognized at the February PZAC.
  - Kudos to the PFP product transfer line removal team and the team tasked with draining shield windows. When both teams recently encountered unexpected conditions during their respective jobs, they stopped to regroup before resuming work.
  - Kudos to a W&FMP NCO who noticed that a drum shipment from PFP featured a new lid design that may potentially cause the drums' integrity to be compromised when stacked. He immediately stopped the job and notified management, averting a potential release to the environment and exposure to his coworkers.

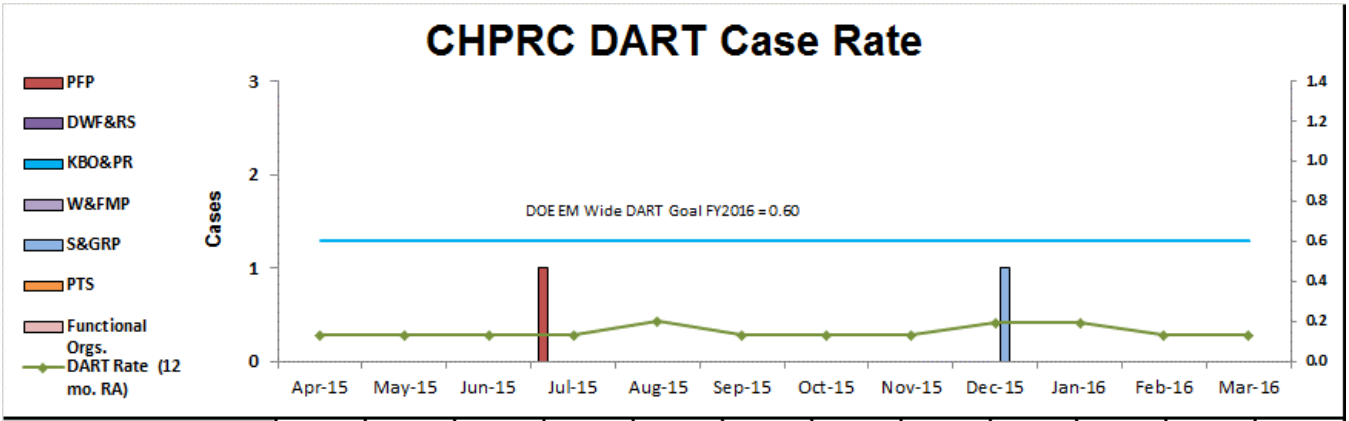
TARGET ZERO PERFORMANCE

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



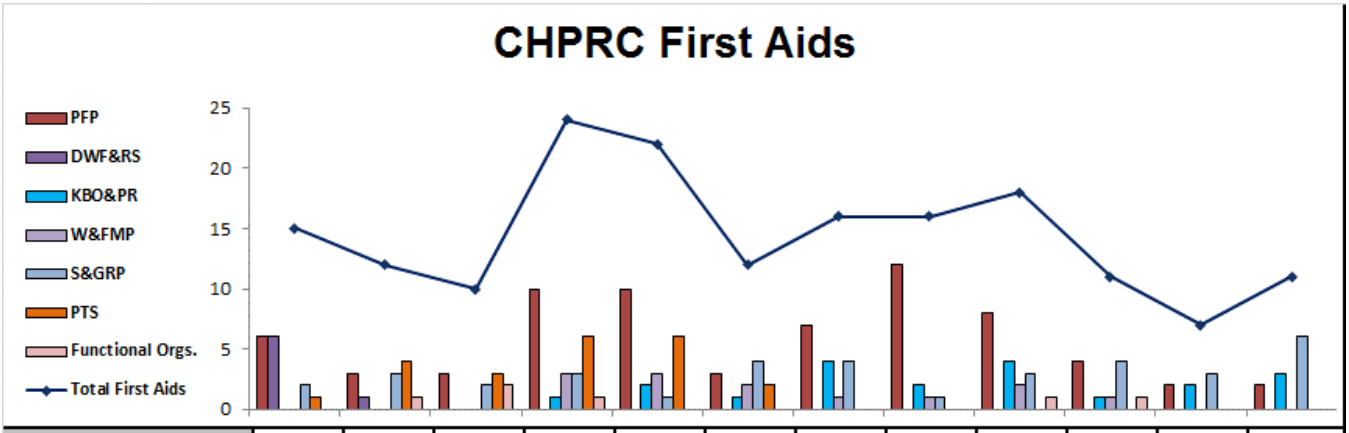
	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
PFP	1	1	0	1	0	0	0	0	0	0	0	0
DWF&RS	0	0	0									
KBO&PR				0	1	0	0	1	0	0	0	0
W&FMP				1	0	0	0	0	0	0	0	0
S&GRP	0	0	1	0	0	0	0	0	1	0	0	1
PTS	0	0	0	0	1	0	0	0	0	0	1	0
Functional Orgs.	0	0	0	0	0	0	0	0	0	0	0	0
Recordable Cases	**1**	**1**	**1**	**2**	**2**	**0**	**0**	**1**	**1**	**0**	**1**	**1**
TRC Rate (12 mo. RA)	**0.61**	**0.67**	**0.73**	**0.86**	**0.92**	**0.72**	**0.72**	**0.65**	**0.71**	**0.71**	**0.71**	**0.71**

Total Recordable Injury Case (TRC) Rate: The 12-month rolling average TRC rate of 0.71 is based on a total of eleven Recordable injuries. There was one Recordable case for March. There are no cases currently being evaluated or investigated for potential recordability.



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

Days Away, Restricted or Transferred (DART) Workdays Case Rate: The 12-month rolling average DART rate of 0.13 is based upon a total of two Days Away cases. There were no DART cases in March.



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

First Aid Case Summary: CHPRC reported 11 first aid cases in March; of these, five cases required no treatment. There were two self-treated injuries. The contributors were five misc. (burns, rashes, repetitive motion, etc.), three sprains/strains/pains and three abrasions/bruises/contusions injuries.

KEY ACCOMPLISHMENTS

Projects

- Refer to Sections A through G of this report for project specific accomplishments.

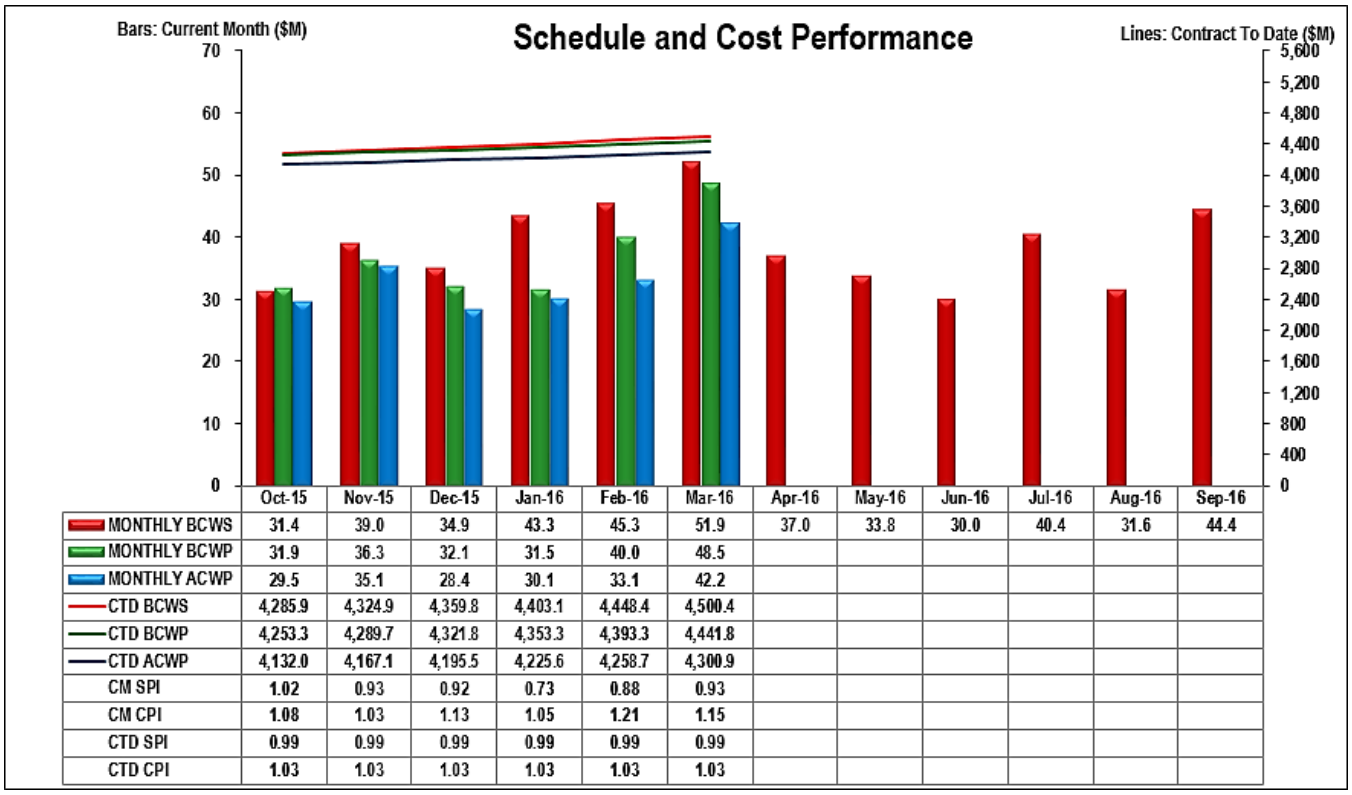
Project Services and Support

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

MAJOR ISSUES

Refer to Sections A through G 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	37.0	33.8	30.0	40.4	31.6	44.4
MONTHLY BCWP	31.9	36.3	32.1	31.5	40.0	48.5						
MONTHLY ACWP	29.5	35.1	28.4	30.1	33.1	42.2						
CTD BCWS	4,285.9	4,324.9	4,359.8	4,403.1	4,448.4	4,500.4						
CTD BCWP	4,253.3	4,289.7	4,321.8	4,353.3	4,393.3	4,441.8						
CTD ACWP	4,132.0	4,167.1	4,195.5	4,225.6	4,258.7	4,300.9						
CM SPI	1.02	0.93	0.92	0.73	0.88	0.93						
CM CPI	1.08	1.03	1.13	1.05	1.21	1.15						
CTD SPI	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						

	$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	11.6	8.6	9.6	(3.0)	(1.0)	922.0	879.2	889.1	(42.9)	(10.0)	971.9	1,022.9	(51.0)
RL-0012 - SNF Stabilization & Disposition	6.9	7.5	7.2	0.6	0.2	561.3	562.8	564.1	1.4	(1.4)	720.2	717.0	3.2
RL-0013 - Solid Waste Stab & Disposition	12.6	12.2	9.7	(0.4)	2.5	1037.9	1036.7	971.7	(1.2)	65.1	1,333.0	1,257.2	75.9
RL-0030 - Soil & Water Rem-Grndwtr/Vadose	14.3	12.3	10.9	(2.0)	1.4	1219.4	1203.5	1181.2	(15.9)	22.3	1,561.0	1,522.5	38.4
RL-0040 - Nuc Fac D&D - Remainder	2.5	1.5	1.6	(1.0)	(0.2)	412.2	410.0	378.3	(2.2)	31.7	469.1	435.1	34.1
RL-0041 - Nuc Fac D&D - RC Closure Project	3.8	6.3	3.1	2.5	3.2	326.3	328.5	299.3	2.2	29.2	404.2	371.6	32.6
RL-0042 - Nuc Fac D&D - FFTF Project	0.2	0.2	0.1	(0.0)	0.1	21.1	21.1	17.2	0.0	3.9	26.5	22.9	3.6
Total	51.9	48.5	42.2	(3.4)	6.3	4,500.3	4,441.8	4,300.9	(58.5)	140.9	5,486.0	5,349.1	136.8

(Values are rounded to the nearest $0.1M)
(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 $136.8 million with $95.8 million of Management Reserve (MR) for a total positive variance of $232.6 million. For March, the project was 6.6 percent behind schedule and 12.9 percent under planned cost. CTD, the project was 1.3 percent behind schedule and 3.2 percent under planned cost.

The current month unfavorable schedule variance is primarily due to RL-0011, PFP Management directed safety pause. Progress was stopped on intrusive planned work while the project re-evaluated safety practices and procedures. This resulted in minimal planned work being performed. The safety pause has been lifted and crews have resumed work with the initial tasks being the filter box and transfer line removal. Also, RL-0030 drilling campaigns in 200-PO-1 and 200-UP-1 Operable Units have been deferred to align with priority list and available funding. Revised cultural review requirements for 100-HR-3 and 100-KR-4 well realignment activities have caused the FY2016 construction work to be re-sequenced for later in the year. The variances for RL-0011 and RL-0030 are partially offset by RL-0041 accelerating AB Waste Site excavation activities.

The current month favorable cost variance is due to RL-0013, BCR-013-16-019R0, *Incorporate CO #269, WESF K3 Ventilation and Stabilization Project Scope.* This BCR incorporates budget for prior periods and earned value in the current period. Also contributing to the positive variance is RL-0041, implementation of BCR-041C-16-013R0, *Convert Future Waste Remediation Tonnage to AB Waste Site,* to reallocate the budget and incorporate the increased AB Area Waste Tonnage for ERDF disposed.

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	103.5	7.2
RL-0012	Spent Nuclear Fuel Stabilization and Disposition	53.0	45.3	7.7
RL-0012	15-D-401 Sludge Retrieval Project	68.1	36.1	32.0
RL-0013	Waste and Fuels Management Project	106.6	91.1	15.5
RL-0030	Soil, Groundwater and Vadose Zone Remediation	124.3	117.3	7.1
RL-0040	Nuclear Facility D&D, Remainder of Hanford	24.1	21.9	2.3
RL-0041	Nuclear Facility D&D, River Corridor	19.1	21.3	(2.2)
RL-0042	Fast Flux Test Facility Closure	3.2	1.8	1.4
	Total Spending Forecast	**509.2**	**438.1**	**71.0**
Incremental Scope Pending Change Management				
RL-0012	Spent Nuclear Fuel Stabilization and Disposition		0.5	(0.5)
RL-0012	Spent Nuclear Fuel Stabilization and Disposition		0.3	(0.3)
RL-0013	Waste and Fuels Management Project		12.5	(12.5)
RL-0030	Soil, Groundwater and Vadose Zone Remediation		1.1	(1.1)
RL-0040	Nuclear Facility D&D, Remainder of Hanford		0.2	(0.2)
RL-0041	Nuclear Facility D&D, River Corridor		19.5	(19.5)
	Total Non-Contract Work Scope	**0.0**	**34.0**	**(34.0)**
Total Base:				
RL-0011	Nuclear Materials Stabilization and Disposition	110.7	103.5	7.2
RL-0012	Spent Nuclear Fuel Stabilization and Disposition	53.0	45.8	7.2
RL-0012	15-D-401 Sludge Retrieval Project	68.1	36.4	31.7
RL-0013	Waste and Fuels Management Project	106.6	103.5	3.1
RL-0030	Soil, Groundwater and Vadose Zone Remediation	124.3	118.3	6.0
RL-0040	Nuclear Facility D&D, Remainder of Hanford	24.1	22.0	2.1
RL-0041	Nuclear Facility D&D, River Corridor	19.1	40.8	(21.7)
RL-0042	Fast Flux Test Facility Closure	3.2	1.8	1.4
	Total Base:	**509.2**	**472.2**	**37.0**

Funds/Variance Analysis

There was no change to FY2016 expected funding in March and funds remain at $509.2 million. The Spending Forecast was increased primarily in PBS RL-0041 to incorporate the transition and execution of River Corridor Closure Contract (RCCC) work scope.

BASELINE CHANGE REQUESTS

In March 2016, CHPRC approved and implemented thirteen (13) BCRs impacting the Performance Measurement Baseline (PMB). Each change request is identified in the table below:

Change Request #	Title	Summary of Change
BCR-012-16-008R0	*Establish T Plant Sludge Storage Mod GPP*	This BCR modified the PMB to establish Project S-325, T Plant Sludge Storage Modifications, to align with the Capital Determination Request for Project S-325. This BCR decreased the PMB by $2,337K.
BCR-012-16-011R0	*Incorporate CO #301, 100-KW Sand Filter Media Remediation Scope*	This BCR increased the Not To Exceed (NTE) value for the Sand Filter Media Remediation. This BCR increased the PMB by $71K.
BCR-012C-16-012R0	*RL-0012 Move Project Management to TEC*	This BCR moves Project Management from OPC WBS to TEC WBS and adjusts project coding accordingly. This BCR does not change the PMB value.
BCR-013-16-017R0	*Definitization of CO #282, Burial Ground CA/HCAs to URMAs*	This BCR incorporated the scope associated with the definitization of Change Order (CO) #282, Burial Ground CA/HCAs to URMAs, as documented by Contract Modification (CM) 479. This BCR increased the PMB by $569K.
BCR-013-16-019R0	*Incorporate CO #269, WESF K3 Ventilation and Stabilization Project, Scope*	This BCR incorporated the NTE Increase for the WESF K3 Ventilation and Stabilization Project as documented by CM 490. This BCR increased the PMB by $6,346K.
BCR-030-16-021R0	*100-KR-4 and 100-HR-3 Well Realignments per Optimization Plan Revision 1*	This BCR incorporated changes outlined in Revision 1 of SGW-58986 FY2016 Plume Containment and Remediation Utilization Plan. This BCR does not change the PMB value.
BCR-030-16-022R0	*Defer Seismic Surveys and 300-FF-5 Stage B Uranium Sequestration Activities*	This BCR defers work scope for Seismic Surveys and 300-FF-5 Stage B Uranium Sequestration to align with current funding and priority guidance based on FY2016 Budget Guidance and Work Authorization. This BCR does not change the PMB value.
BCR-040-16-007R0	*Convert High Risk Facilities Planning Package to Work Package*	This BCR modified the planning package associated with WBS 040.01.26.01.22.08 Demo for High Risk Facilities into detailed planning prior to the start of work. This BCR does not change the PMB value.
BCR-040-16-008R0	*Convert Canyon Risk Mitigation Planning Package to Work Package*	This BCR modified the planning package associated with WBS 040.01.26.01.22.04 Canyon Risk Mitigation into detailed planning prior to the start of work. This BCR does not change the PMB value.
BCR-041C-16-013R0	*Convert future Waste Remediation Tonnage to AB Waste Site*	This BCR moves future 100-K waste site remediation, tons of contaminated waste estimated to be disposed at ERDF as defined in the PMB, and converts it to 100-K Area AB waste site area remediation tons of contaminated waste to be disposed at ERDF consistent with the RL 100K Area Waste Sites Concept Implementation Plan. This BCR does not change the PMB value.
BCR-PRC-16-031R0	*Definitization of CO #263, ERDF Leachate Transfer Pipeline Construction and Operations*	This BCR incorporated the definitization of CO #263, ERDF Leachate Transfer Pipeline Construction and Operations, as documented by CM 485. This BCR increased the PMB by $107K.

Change Request #	Title	Summary of Change
BCR-PRC-16-030R0	*Implementation of DOE-0336, Hanford Site Lockout/Tagout Procedure, Revision 2*	This BCR incorporated the impacts of the implementation of DOE-0336, Hanford Site Lockout/Tagout Procedure Revision 2, as documented by CM 476. This BCR increased the PMB by $663K.

The Allocated (Distributed) Budget increased by $5,419K.

Undistributed Budget Activity

BCR Number	Title	Fiscal Year	UB
BCR-PRC-16-034R0	*Undistributed Budget Adjustments March 2016*	2015 - 2018	$ -1,387K

The Undistributed Budget decreased by $1,387K for an overall increase to the PMB of $4,032K during March.

Management Reserve Activity

BCR Number	Title	Fiscal Year	MR
BCR-012-16-008R0	*Establish T Plant Sludge Storage Modifications GPP*	2015 - 2018	$ 2,337K

Overall, there was increase of $2,337K to Management Reserve (MR) during March.

Fee Activity

BCR Number	Title	Fiscal Year	Fee
BCR-013-16-017R0	*Definitization of CO #282, Burial Ground CAHCAs to URMAs*	2015 - 2018	$9K
BCR-PRC-16-030R0	*Implementation of DOE-0336, Hanford Site Lockout/Tagout Procedure, Revision 2*	2015 - 2018	$5K
BCR-PRC-16-031R0	*Definitization of CO #263 ERDF Leachate Transfer Pipeline Construction and Operations*	2015 - 2018	$125K

Overall, there was an increase of $139K to Fee during March.

See the Format 3 Report in Appendix A for a complete listing of the specific change requests and the 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):

March 2016 Summary of Changes

	FY 2009-2013	FY2014	FY2015	FY2016	FY2017	FY2018	FYs 2014-2018	Contract Period Total	Total PMB
February 2016 Estimate									
PMB	3,391,477	391,653	471,323	464,041	414,979	348,446	2,090,442	5,481,919	5,481,919
MR	0	0	0	20,297	33,786	39,404	93,487	93,487	93,486
Fee	155,504	14,325	14,501	22,137	9,463	17,822	78,248	233,752	233,752
Total	***3,546,981***	***405,978***	***485,824***	***506,474***	***458,228***	***405,673***	***2,262,177***	***5,809,158***	***5,809,157***
March 2016 Change									
PMB									
Change to PMB	***0***	***0***	***0***	***-1,054***	***6,053***	***-966***	***4,032***	***4,032***	***4,032***
MR									
Change to MR	***0***	***0***	***0***	***739***	***81***	***1,516***	***2,337***	***2,337***	***2,337***
Fee									
Change to Fee	***0***	***0***	***0***	***114***	***13***	***13***	***140***	***140***	***140***
Total Change	***0***	***0***	***0***	***-201***	***6,147***	***563***	***6,509***	***6,509***	***6,509***
March 2016 Estimate									
PMB	3,391,477	391,653	471,323	462,986	421,032	347,480	2,094,474	5,485,951	5,485,951
MR	0	0	0	21,036	33,867	40,921	95,824	95,824	95,823
Fee	155,504	14,325	14,501	22,251	9,476	17,835	78,388	233,892	233,892
Total	***3,546,981***	***405,978***	***485,824***	***506,273***	***464,375***	***406,236***	***2,268,686***	***5,815,667***	***5,815,666***

Changes to/Utilization of Management Reserve in March 2016

	FY2009-2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2014-2018	Total
February 2016 MR Totals								
RL-0011	0	0	0	5,879	3,257	0	9,136	9,136
RL-0012	0	0	0	3,395	7,125	5,642	16,162	16,162
RL-0013	0	0	0	2,999	8,200	12,425	23,624	23,624
RL-0030	0	0	0	2,777	7,949	12,370	23,095	23,095
RL-0040	0	0	0	2,979	2,257	1,761	6,997	6,997
RL-0041	0	0	0	4,096	2,800	7,000	13,896	13,896
RL-0042	0	0	0	150	220	207	576	576
Total	***0***	***0***	***0***	***22,275***	***31,807***	***39,404***	***93,486***	***93,486***
March 2016 MR Changes/Utilization								
RL-0011	0	0	0	0	0	0	0	0
RL-0012	0	0	0	739	81	1,516	2,337	2,337
RL-0013	0	0	0	0	0	0	0	0
RL-0030	0	0	0	0	0	0	0	0
RL-0040	0	0	0	0	0	0	0	0
RL-0041	0	0	0	0	0	0	0	0
RL-0042	0	0	0	0	0	0	0	0
Total	***0***	***0***	***0***	***739***	***81***	***1,516***	***2,337***	***2,337***
March 2016 MR Totals								
RL-0011	0	0	0	5,879	3,257	0	9,136	9,136
RL-0012	0	0	0	4,134	7,206	7,158	18,498	18,498
RL-0013	0	0	0	2,999	8,200	12,425	23,624	23,624
RL-0030	0	0	0	2,777	7,949	12,370	23,095	23,095
RL-0040	0	0	0	2,979	2,257	1,761	6,997	6,997
RL-0041	0	0	0	4,096	2,800	7,000	13,896	13,896
RL-0042	0	0	0	150	220	207	576	576
Total	***0***	***0***	***0***	***23,014***	***31,889***	***40,921***	***95,823***	***95,823***

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 -3/31/2016 Reporting Category				Projection to FY2018	
				Planned Subcontracting:	$2,564,285,972
				Contract-to-date awards:	$2,331,846,643
				Bal remaining to award:	$232,439,329
	$ Value	%	Goal %	Goal award$	Bal to Goal
SB	$1,226,480,910	52.60%	49.3%	$1,264,192,984	$37,712,074
SDB	$210,483,555	9.03%	8.2%	$210,271,450	-$212,106
SWOB	$243,241,295	10.43%	7.5%	$192,321,448	-$50,919,847
HUB	$47,176,944	2.02%	2.2%	$56,414,291	$9,237,347
VOSB	$157,742,967	6.76%	3.5%	$89,750,009	-$67,992,958
SDVO	$83,935,864	3.60%	1.3%	$33,335,718	-$50,600,146
NAB	$39,281,644	1.68%	N/A		
Large	$615,944,800	26.41%	N/A	PRC clause H.20 small business requirement	
GOVT	$2,374,236	0.10%	N/A	≥ 17% of CHPRC Contract Price performed by SB.	
GOVT CONT	$482,866,522	20.71%	N/A		
EDUCATION	$103,647	0.00%	N/A	CHPRC Contract Value:	$5,732,255,464
NONPROFIT_	$3,713,148	0.16%	N/A	17% rqmt:	$974,483,429
FOREIGN	$363,379	0.02%	N/A	SB actual:	$1,226,480,910
Total	$2,331,846,643	100.00%	N/A	Bal to rqmt	-$251,997,481

Notes:

1. Since the CHPRC contract award in October 2008, CHPRC has subcontracted over $2.3 billion in goods and services with over 52 percent going to small businesses. Nearly all subcontracting goals have been exceeded.
2. Approximately 93 percent of the total dollars arise from service and staffing contracts and contract amendments with five percent of the remaining expenditures arising from P-Card purchases and 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-0013, Transuranic Waste Certification	WIPP provides shipping resources and manages the schedule for transportation of these containers to WIPP. The schedule is variable and the number of shipments is controlled by DOE-HQ on a complex-wide priority. Cost for shipment of TRU waste offsite is borne by the Carlsbad Field Office.	Ongoing

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

T. E. Bratvold
Vice President for
PFP Closure Project

March 2016
CHPRC-2016-03, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

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

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	-	23,801 feet
Process Vacuum Piping Dispositioned	-	3,907 feet
COMPLETE Process Transfer Line Dispositioned	118	1,525 feet
Pencil Tank Units Removed (Shipped)	-	196 pencil tank units
Buildings Ready for Demo	-	43 structures
Buildings Demolished or Removed	-	43 structures
Non-radioactive Waste Shipped	1	73 m^3
TRU/TRU-M Shipped	27m^3	2,113 m^3
LLW/MLLW Shipped	34m^3	6,958 m^3

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.

Significant accomplishments in March included:

- Received RL letter 16-NSD-0024_RL approving HNF-15500 “PFP Deactivation and Decommissioning Documented Safety Analysis” Revision 13 and HNF-15502 “PFP Deactivation and Decommissioning Technical Safety Requirements” Revision 13.
- Held kick-off for the Implementation Verification Review (IVR) for DSA/TSR Revision 13.
- Applied fixative/paint to the 236-Z PRF Canyon floor.
- Began vacuuming 236-Z PRF Canyon Strongbacks.
- Initiated 236-Z PRF Gallery Glovebox window drain and transfer line isolations.
- Relocated 3P filter box for size reduction.
- Completed the In-Situ size reduction cleanup efforts for the RMA line.
- Dispositioned 118 feet of Process Transfer Line.
- Shipped 1m^3 Non-radioactive Waste.
- Shipped 27m^3 TRU/TRU-M Waste.
- Shipped 34m^3 LLW/MLLW.

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	02/29/16 03/31/16 06/30/16 09/30/16	85% Renegotiating Due Dates 5% Renegotiating Due Dates Renegotiating Due Dates Renegotiating Due Dates
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	0	1	N/A
Total Recordable Injuries	0	2	N/A
First Aid Cases	2	70	• 3/2/16 – Employee struck elbow on edge of lid on storage rack. She was examined by HPMC and returned to work without restriction. (23948) • 3/30/16 – Employee had splinter puncture glove. It was removed at HPMC, a dressing applied and he returned to work without restriction. (23970)
Near Misses	0	5	

KEY ACCOMPLISHMENTS

11.02 Maintain Safe & Compliant PFP

- Initiated the IVR for HNF-15500 "PFP Deactivation and Decommissioning Documented Safety Analysis" Revision 13 and HNF-15502 "PFP Deactivation and Decommissioning Technical Safety Requirements" Revision 13.
- Held kick-off for the IVR for DSA/TSR Revision 13.

11.05 Disposition PFP Facility

234-5Z

- RMA Line:
  - Completed the In-Situ size reduction cleanup efforts.
- Duct Level:
  - Relocated 3P filter box for size reduction.

PFP Waste Operations

- Shipped 1m^3 Non-radioactive Waste
- Shipped 27m^3 TRU/TRU-M waste.
- Shipped 34m^3 LLW/MLLW.

236-Z PRF

- Canyon:
  - Applied fixative/paint to the 236-Z PRF Canyon floor.
  - Began vacuuming 236-Z PRF Canyon Strongbacks.
  - Performed 236-Z PRF Gallery Glovebox window drain and transfer line isolations.

242-Z

- Removed 118 feet of product transfer line running from 234-5Z through 242-Z to PRF.

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 unexpected.

Corrective Action:

- Unpackaged 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 Central Waste Complex (CWC) has commenced with shipment of Non-J Pan wastes.
- J Pan wastes are being held at PFP pending evaluation of PNNL Analysis and determination of potential for self-accelerating thermal reaction within drums. Preliminary results of evaluation expected to be complete in late April.

Issue:
PremAire Vortex coolers found with contamination at the Hanford Fire Department (HFD).

Corrective Action:
Retrieved all vortex coolers and associated Mine Safety Appliance PremAire equipment, surveys completed of HFD - no contamination found at facility. Retrieved three coolers from Mine Safety Appliance (MSA) sales representative's vehicle in Kennewick – fixed contamination below 458.1 Clearance thresholds identified on two of three tubes, no contamination identified at residence, vehicle, or storage unit.
In cooperation with the Radiological Assistance Program, performed surveys of facilities in Ohio and Pennsylvania, where an additional eight coolers we sent by the MSA sales representative - no contamination found on eight coolers or in facilities where they were handled.

Status:
The PremAire Vortex cooler issued is considered closed. An effectiveness review will be performed in the next few months. This issue will not be carried on the monthly report after March, 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-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 March.

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

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

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.	4/15/16	50
Devise new multiple sensor NDA characterization plans that allow for improved quantification of residual MAR while deactivation work is ongoing.	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	4/28/16	75
Develop SAP for steam lines in 291-Z fanhouse to confirm current TSI labelling. There is likelihood that steam lines were presumptively labelled and may not require abatement.	4/10/16	75
Complete 234-5Z Duct Level and backside inspections to identify piping with TSI dropping through to the first floor ceiling void.	4/10/16	75

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. Completion dates for mitigation action regarding final characterization of the PRF gallery gloveboxes, canyon walls, and strongbacks are dependent on the progress of the deactivation crew and therefore slipped during March. First deployments of the new gamma imaging equipment has been favorable, increasing the likelihood that this will be a valuable tool guiding further decontamination of canyon walls and strongbacks. Revisions to the DQO are dependent on completion of the revision to the air dispersion model which is expected to be received April 21, this two week slip is reflected in the forecasted completion date. Delays in the mitigation actions do not result in alternative course of actions at this time.
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. With recent completion of abatement in room 262, added insulator resources are now available to campaign the identification of TSI remaining in 234-5Z. Completion of inspections in crawlspaces has been updated accordingly. 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: 07/06/2015
<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>4/21/16</td><td>50</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>5/10/16</td><td>50</td></tr></table>Mitigation Assessment:
Based on conditions and prerequisites identified in the PFP Demolition Plan, Revision 1 to the PNNL Air Dispersion Model Report did not pose an increased risk. The model did not drive a need for MAR reduction, additional fixative applications, or equipment removal beyond that which is planned. The Demolition Plan is being revised to limit activities to dayshift only, effectively extending the demolition duration and avoiding unfavorable meteorological conditions typically encountered on swing shift. The Demolition Plan is also changing to reflect intent to disposition strongbacks during demolition. Due to these changes, a second revision to the air dispersion model is in progress. Devising a means to model the disposition of the PRF canyon strongbacks has delayed issuance of the revised report as reflected above. Competing commitments and priorities at PNNL have also contributed to the delay. Follow-on discussions with regulators after the air dispersion model update has been received will be completed two weeks after receipt and review of final report. This slip in the forecasted completion date is reflected above. This risk will remain open until Revision 2 of the air dispersion model is completed and it is determined that the risk no longer poses a threat. At this time no alternative course of actions 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>6/15/16</td><td>0</td></tr></table>Mitigation Assessment:
The forecasted completion date for completing the West Gallery Glovebox Isolation is dependent on the deactivation crew and therefore slipped in the month of March. The two month delay in the mitigation actions do not result in an alternative course of action at this time. No foreseeable impacts in the near future. 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 March.</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	11.6	8.6	9.6	(3.0)	-25.8%	(1.0)	-11.4%

Numbers are rounded to the nearest $0.1 million.

CM Schedule Variance: (-$3.0M/-25.8%)
The current month unfavorable schedule variance is primarily due to the apportioned progress on D&D discrete work. Discrete field work behind schedule for the current period includes: The balance of 291-Z work that was planned to be completed in fiscal month March. Due to resources being assigned to higher priority critical path work, 291-Z scope has not been performed. The variance is also associated with resources being diverted to critical path work scope associated with decommissioning of the 234-5Z and 236-Z facilities. The work scope previously scheduled to occur in March, connex box removals and isolations of the 2712-Z stack sampling and monitoring station are currently scheduled to be performed in the first quarter of FY2017. This is partially offset by increased efficiency in performing behind schedule work in PRF and the duct level. The filter box removal team utilized improved separation techniques to isolate process vacuum, E4, and process support equipment filter boxes from 234-5Z active systems. In addition, field work optimization efforts to remove process piping associated with 242-Z were recognized while working in 234-5Z.

CM Cost Variance: (-$1.0M/-11.4%)
The current month unfavorable cost variance primarily relates to the lack of progress on discrete D&D work scope (apportioned) while a constant staff provides D&D support services. Increased management oversight support for issues related to the implementation of the radiological compensatory measures (i.e., increased radiological and industrial hygiene and increased management assessments as a result of the radiological event that occurred in December 2015) in both the PFP Project Management (011.C2.06.01) and D&D Project Management (011.05.C2.11) control accounts and more DSA modifications than assumed are also contributing to the variance. During the previous month's PFP Management directed Safety pause associated with Radiological Work, all intrusive planned work was put to a halt while the project re-evaluated safety practices and procedures. This resulted in utilization of product overtime to try to recover schedule, contributing to over run in cost for the month. In addition, subcontracted labor support costs are higher than planned due to extended discrete field work and consumable materials costing more than planned due to the extended duration of the discrete field work and increased radiological survey requirements on Personal Protective Equipment (PPE).

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	922.0	879.2	889.1	(42.9)	-4.6%	(10.0)	-1.1%	971.9	1022.9	(51.0)

Numbers are rounded to the nearest $0.1 million

CTD Schedule Variance (-$42.9M/-4.6%)
The Schedule Variance is within reporting thresholds.

CTD Cost Variance (-$10.0M/-1.1%)
The Cost Variance is within reporting thresholds.

Variance at Completion (-$51.0M/-5.2%)
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 at risk of meeting the TPA milestone of slab on grade by September 30, 2016.

Contract Performance Report Formats are provided in Appendix A.

FUNDS vs. SPEND FORECAST ($M)

	FY2016		
WBS 011/RL-0011 Nuclear Matl Stab & Disp PFP	Projected Funding	Spending Forecast	Spend Variance
Spending Forecast	110.7	103.5	7.2
Incremental Scope Pending Change Management	0	0	0
RL-0011 - Total	110.7	103.5	7.2

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 March increased slightly from $102.3 million to $103.5 million as a result of a change in the project approach to retain all existing staff until the 234-5Z facility is ready for demolition in December 2016.

Critical Path Schedule
The PFP Critical Schedule Path flows through the 234-5Z duct level fixing and removing ducting and filter boxes associated with E4 ventilation. This leads into final miscellaneous activities getting 234-5Z

ready for demolition. 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*.

Baseline Change Requests

BCRA-PRC-16-032R0, *Schedule Health, Change Activity Codes and Descriptions*
BCRA-PRC-16-033R0, *HPIC Updates March 2016*
BCRA-PRC-16-035R0, *Realignment of Management Reserve*
BCR-PRC-16-030R0, *Implement DOE-0336, Hanford Site LockoutTagout Procedure, Revision 2*
BCR-PRC-16-034R0, *Undistributed Budget Adjustments March 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		7/31/17	Stop works associated with PremAire breathing air suits/hoses in support of in-situ size reduction efforts, stop works associated with intrusive work in the 234-5Z duct level, safety pause associated with a radiological event, and reduction to five field work teams vs. eight, and increased durations to the E4 duct removal efforts caused the Tri-Party Agreement milestone projected completion date to slip an additional 39 calendar days from the forecast date in the February report. 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.

SELF-PERFORMED WORK

The Section H.20 clause, entitled "Self-Performed Work," is addressed in the Overview.

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)

March 2016
CHPRC-2016-03, 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 the Engineered Container Retrieval and Transfer System (ECRTS) Project work by supporting Annex construction In-Basin Construction activities and continued debris dose rating and relocation activities in 105KW Basin. The Operations team worked several monthly and quarterly routines during the period.
- Preliminary Documented Safety Analysis (PDSA) Revision 2 has been approved. With receipt of the Safety Evaluation Report (SER) for the PDSA Revision 2, project personnel are now focused on preparation of the draft KW Basin DSA and TSR documents. These documents will combine the ECRTS PDSA and the current KW Basin safety basis documents into an integrated safety basis set. This effort is currently on schedule with CHPRC internal reviews forecast to begin in April. Submittal to RL is forecast for August 2016.
- The executive summary says we completed receipt of equipment and completed the associated PO.
- Completed Procurement and Acceptance of the First Article Sludge Transport & Storage Container (STSC) Assembly (PM-12-6-16).
- Complete Fabrication and Acceptance of Balance of ECRTS production Hardware Required to Commence Cold Commissioning Testing and received it at MASF (PM-12-7-16). At MASF, all equipment necessary to perform Preoperational Acceptance Testing (MPAT) has been installed. MPAT is scheduled to be initiated in April 2016.
- The K Basins Sludge Retrieval Capital Asset Project is being presented to DOE Headquarters and is expected to be approved for CD 2/3 in April.

EMS OBJECTIVES AND TARGET STATUS

None at this time.

TARGET ZERO PERFORMANCE

	CM Quantity	Rolling 12 Month	Comment
Dart Injuries	0	0	N/A
Recordable Injuries	0	1	N/A
First Aids	2	17	• 3/8/2016 - Employee was pulling on an engine start cord injuring his neck. Body part affected: Neck (23949) • 3/17/2016 - Employee was doffing PPE. Employee placed foot on a drum to remove taps from ankle. Employee strained back. Body part affected: Low back (23955)
Near Misses	0	0	N/A

KEY ACCOMPLISHMENTS

- ECRTS Process Equipment Procurement:
  - Received all equipment required for MPAT (PM-12-7-16).
  - Procurement Set #9: SS STSC Instrumentation & Assembly – The 1st Article STSC Assembly (with appurtenances) was delivered to MASF (completing PM-12-6-16). The Sludge Transportation System (STS) Cask Vent Port Tools, Drain Port Tools, and Pressure Check Tools were delivered to MASF. Fabrication of the STS Handrails, Spring Gates, and Signage was completed.
  - Procurement Set #11: Inert Gas and Auxiliary Ventilation System – Seismic testing of Nitrogen Purge Panel & Nitrogen Supply Panel was successfully completed. Cylinder Cradles – CHPRC personnel approved the final data packages. Low Pressure Air Purge Piping Assembly seismic retests completed and the assembly was delivered to MASF. Hoses were delivered to MASF.
  - Procurement Set #14: SS Control System Panels – Spares hardware was delivered. Several final data packages were approved.
- MASF Pre-Operational Acceptance Test (MPAT) Preparation:
  - Completed installation of equipment in support of start of MPAT (early April 2016).
- MASF Operations:
  - Initiated 115 Ton Crane Preventative Maintenance.
- Safety Documentation:
  - Submitted Safety Design Strategy (SDS) to RL for approval.
- KW Annex Construction:
  - Closed wet sprinkler piping NCR.
- K Basin/Annex Equipment install design:
  - Construction Aid #3 is complete and was delivered to the construction contractor for proposal preparation.
- 105 KW Basin Re-Lidding Construction:
  - Construction Completion Document was signed.

  - Closed both punch lists items and completed Engineering Change Request (ECR) care and custody transfer from Construction Document Control (CDC) to Engineering.
- In Basin Modifications Construction:
  - Removal of the flocculant skid and HVAC register.
  - Erected scaffolding.
  - Conducted Enhanced Work Planning (EWP) for Hazard Review Board (HRB) work package to install NE corner equipment (Ingress/Egress, IXM, etc.).
  - Issued RFP for the ECRTS basin equipment installation.
  - IXM removal, size reduced and moved over to transfer bay for removal from facility.
- T-Plant Construction:
  - Receipt inspection and delivery of PacTec lift bags, loading frames, lifting device, and HEPA vacuums to T-Plant was completed.
  - Continued preparations for hauling IP-2 waste containers into and out of the T-Plant tunnel loading bay. Shear lug removal mock-up at Intermech's Richland fabrication facility. Obtained work package approvals by the HRB for North Load-Out Pit (NLOP) removal. The package has been provided to the SOM for pre-work review and release.

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-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 March.				
Realized Risks (Risks that are currently impacting project cost/schedule)				
STP-120-B: Design & Engineering During Construction (Title III) - ECRTS Annex/In-Basin Equip. Installation	As a result of as-found conditions, errors and omissions in design details, and field interferences identified during construction, additional clarification and rework of design media may be needed. Additionally, changes in engineering processes, engineering codes or standards (e.g., code of record), other requirements (e.g., PDSA, FHA), and changes in other site processes or procedures (e.g., H&R, OS&IH, L&T) will also impact construction execution. These changes are imminent and outside the projects control. **Risk Handling Strategy:** Control **Probability:** Very Likely (>90%) **Worst Case Impacts:** $2 million, 56 days			**Risk Event:** In the month of March, the project incurred additional cost resulting from issues identified in the engineering action list including Mechanical room heat load /Ventilation System issues(DCN-419), and Dryer Exhaust outside routing(DCN-421) and DCN-267 (Revise Tool and Shielded Cave Shelf and supporting calculations) are continuing to be worked. In the month of February, the project incurred additional cost resulting from HVAC Design Issues -Ventilation System Zone Temperature Control, DCN -171 (Provide Shielding Supports at Sand Filter and Vertical Hose Chase Areas), DCN-413 (Release Sand Filter Shielding Calculation) DCN -267 (Revise Tool and Shielded Cave Shelf). Additionally, 2-RCIs (125 and 126) have been received relating to the heat load in the Ventilation System in the mechanical room (DCN - TBD). **Risk recovery action(s)** | **Risk Date** | **FC Date** | **%** No additional recovery actions identified at this time. | 2/8/16 | N/A | N/A **Recovery Action Assessment:** In the month of March risk elicitation meetings were held with the project, and it was determined that this risk will no longer be reported on; however, it will continue to be monitored internal to the project.
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. There is also a compounding risk that design changes (e.g. auxiliary ventilations system modifications and nitrogen bottle rack pad, Albi Clad removal, additional hangers for purge pipe, truck pad) will result from the incorporation of PDSA/FHA comments and are more extensive than planned. **Risk Handling Strategy:** Control **Probability:** Very Likely (>90%) **Worst Case Impacts:** $1.4 million, 96 days			**Risk Event:** The project incurred additional cost resulting from: DCN's preparation including but not limited to: 068 (Release Shielding Calculations and KW Modified Annex ALARA Design Review Checklist), DCN-409 (105KW Annex Gutter Heat Trace), Radcon related missing design - DCN-391 (Add P-10 Gas Lines to Annex), and DCN-422 – Shield Cave Mounting, as well changes to DCN-405 and 420 that affect I&C routing. The project continues to evaluate the DCN and the impacts to the project. **Risk recovery action(s)** | **Risk Date** | **FC Date** | **%** No additional recovery actions identified at this time. | 3/16/15 | N/A | N/A **Recovery Action Assessment:** At this time, no additional recovery actions identified. This risk is a reoccurring risk with impacts that cannot be anticipated. The project continues to identify project needs before they become critical and delay planned work scope.

Risk Title	Unmitigated Risk Impacts	Assessment		Comments
		Month	Trend	
RL-0012/WBS-012				
STP-097-B: Material & Procurement (Review)/ Unexpected Procurement Item Delays - ECRTS Annex/In-Basin Equip.	During installation or testing, the "Buyer Furnished Equipment" will require modification and the emergent procurement actions will result in delays to the project. In addition, other latent quality issues are discovered (i.e., NRTL, suspect counterfeit) and procurement of replacement materials or components are required. There is the possibility the STP hoses are not of adequate length and acquisition of new hoses is required. **Risk Handling Strategy:** Control **Probability:** Likely (75% to 90%) **Worst Case Impacts:** $200K, 64 days (unmitigated worst case)			**Risk Event:** In the month of March, the project (NE Corner Basin work) was able to overcome a material procurement for valves that were removed as part of the work evolution, the design called to reuse the parts that were currently in service for the IXM system. The valves were found to be heavily contaminated and "fell apart" during the disassembly. **Risk recovery action(s)** / **Risk Date** / **FC Date** / **%** Identify spare parts from 2101M / 3/7/15 / Complete / 100 **Recovery Action Assessment:** In the month of March risk elicitation meetings were held with the project, and it was determined that this risk will no longer be reported on; however, it will continue to be monitored internal to the project.
STP-121-B: As-Found Conditions - ECRTS Annex/In-Basin Equip.	Historically, As found, unknown-unknowns, and emergent conditions have impacted construction execution and contractor performance. **Risk Handling Strategy:** Accept **Probability:** Very Likely (>90%) **Worst Case Impacts:** $1.3 million, 48 days			**Risk Event:** The project continued to incur additional cost resulting from continued engineer evaluation of the Sentinel fire functionality and the lack of a bypass function to rollup door. The door has been in an inoperable state since February 2016, due to the unresolved mechanical issue. **Risk recovery action(s)** / **Risk Date** / **FC Date** / **%** No additional recovery actions identified at this time. / 3/16/15 / N/A / N/A **Recovery Action Assessment:** In the month of March risk elicitation meetings were held with the project, and it was determined that this risk will no longer be reported on; however, it will continue to be monitored internal to the project.
STP-121-T: As-Found Conditions - Equipment Install - T-Plant	Historically, as found, unknown-unknowns, and emergent conditions have impacted construction execution and contractor performance. **Risk Handling Strategy:** Accept **Probability:** Very Likely (>90%) **Worst Case Impacts:** $1.3 million, 48 days			**Risk Event:** The project incurred additional cost resulting from delays due to the necessary addition of a new network switches for T-Plant, planning and preparation for potential asbestos gasket removal and cleanout of re-purposed IP-2 containers. The IP-2 containers were originally identified as clean and non-contaminated. The container lids have been removed and the IP-2 containers were visually inspected. Dunnage and friction matts have been discovered in each of the 3 containers and will have to be removed and prepare the containers for use and in support of the NLOP equipment removal. **Risk recovery action(s)** / **Risk Date** / **FC Date** / **%** No additional recovery actions identified at this time. / 3/16/15 / N/A / N/A **Recovery Action Assessment:** In the month of March risk elicitation meetings were held with the project, and it was determined that this risk will no longer be reported on; however, it will continue to be monitored internal to the project.

<table>
<tr><th rowspan="2">Risk Title</th><th rowspan="2">Unmitigated Risk Impacts</th><th colspan="2">Assessment</th><th rowspan="2">Comments</th></tr>
<tr><th>Month</th><th>Trend</th></tr>
<tr><td colspan="5">RL-0012/WBS-012</td></tr>
<tr><td>STP-123-T: Design Maturity - T-Plant</td><td>The final Nitrogen System design is pending FHA update. The construction specification is currently in development. In addition, changes resulting from the PDSA impact the design. There is additional risk with bidder interpretation of the facility ECRs. They do not clearly provide the entire scope of the contractor's work and clarifying bid document details are required.
Risk Handling Strategy: Accept

Probability: Very Likely (>90%)
Worst Case Impacts: $200K, 96 days</td><td>  </td><td>  </td><td>Risk Event:
This risk is related to risk STP-118 (RL approval of the MDSA results in changes to system safety designations or boundaries) which could impact fabrication and install of the nitrogen purge system.
The risk is being realized based on constructability reviews of the FMPs. The impacts associated with this are the additional cost and resources associated with correcting design errors and providing constructability aids, conducting material take offs, resulting in a lower cost underrun for performing the original design. Schedule impacts eminent due to spec and ECR quality.
<table><tr><th>Risk recovery action(s)</th><th>Risk Date</th><th>FC Date</th><th>%</th></tr><tr><td>No additional recovery actions identified at this time.</td><td>3/03/15</td><td>N/A</td><td>N/A</td></tr></table>
Recovery Action Assessment:
T-Plant design documents associated with the nitrogen purge system have been issued via ECR-15-000336. The design documents have been given to the contractor for bidding purposes, even though the construction specification, HNF-8764 Revision 2, and ECR-15-000336, states that the installation of the nitrogen bottle rack, bottles, and bottle manifold are on hold, pending RL's approval of the MDSA (Revision 11). All indications, based on discussions with RL, are that Revision 11 of the MDSA will be approved with a nitrogen purge boundary consistent with the design (ECR-15-000336). CHPRC has received comments from RL in a letter (16-NSD-0027_RL) on March 1, requiring revision of the MDSA and the FHA. CHPRC is expecting to incorporate RL comments and update the FHA and re-submit them for RL approval by the end of April 2016. If the MDSA is not approved as submitted, there is a potential for the design and equipment safety designations to change. If Revision 11 is signed as is, Engineering will remove the hold on the Nitrogen System ECR and specifications. RL review and approval of the MDSA Revision 11 and FHA are needed by July 2016 to support the project schedule.</td></tr>
<tr><td>STP-085-B: Attrition, Acquisition, & Retention of Qualified Professional Staff & Craft Resources - ECRTS Annex/In-Basin Equip. Installation</td><td>Due to the improving job market and local and complex wide competition for key resources, project delivery will be impacted by the Attrition, Acquisition and Retraining of Qualified Professional Staff. These resources are critical to the timely and cost effective delivery of the work scope.
Risk Handling Strategy: Accept

Probability: Likely (75% to 90%)
Worst Case Impacts: $940K, 24 days</td><td>  </td><td>  </td><td>Risk Event:
The project experienced the loss of key personnel including an HVAC engineer, safety/IH, project work planner, and CM/RM replacement. At this time, the potential impacts are difficult to determine and measure. Additionally, CHPRC fire protection, safety/IH and project controls vacancies continue to pose additional support challenges to the project.
<table><tr><th>Risk recovery action(s)</th><th>Risk Date</th><th>FC Date</th><th>%</th></tr><tr><td>No additional recovery actions identified at this time.</td><td>2/7/16</td><td>N/A</td><td>N/A</td></tr></table>
Recovery Action Assessment:
The project is in the process of filling the vacant safety professional position, and engineering has been interviewing HVAC engineering candidates. At this time, no suitable candidate has been found and so the project team is working with the current staff to address attrition concerns. No additional recovery actions identified at this time. No alternative course of actions necessary at this time.</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-085-T: Attrition, Acquisition, & Retention of Qualified Professional Staff & Craft Resources – T-Plant</td><td>Due to the improving job market and local and complex wide competition for key resources, project delivery will be impacted by the Attrition, Acquisition and Retraining of Qualified Professional Staff. These resources are critical to the timely and cost effective delivery of the work scope.

Risk Handling Strategy: Accept

Probability: Likely (75% to 90%)
Worst Case Impacts: $940K, 24 days</td><td>  </td><td>  </td><td>Risk Event:
The project experienced the loss of key personnel including a project manager, responsible manager and project work planner. At this time, the potential impacts are difficult to determine and measure. Additionally, CHPRC fire protection and project controls vacancies pose additional support challenges to project.

<table><tr><th>Risk recovery action(s)</th><th>Risk Date</th><th>FC Date</th><th>%</th></tr><tr><td>No additional recovery actions identified at this time.</td><td>2/7/15</td><td>N/A</td><td>N/A</td></tr></table>
Recovery Action Assessment:
The project is in the process of filling the vacant planning position and the planner is being trained and qualified. Team is working with the current staff to address attrition concerns. No additional recovery actions identified at this time, and no alternative course of actions at this time.</td></tr>
<tr><td>STP-118: RL approval of the MDSA results in changes to system safety designations or boundaries</td><td>The design for the nitrogen purge system is based on Revision 11 of the MDSA, which identifies the safety boundary of the nitrogen purge system. RL requires a change to this boundary to obtain approval.

Risk Handling Strategy: Accept

Probability: Medium (26% to 74%)
Worst Case Impacts: $43K, 48 days</td><td>  </td><td>  </td><td>Risk Event:
The risk is an emerging risk based on constructability reviews of the FMPs. The risk associated with nitrogen purge safety boundary impacts are the additional cost and resources associated with updating the design and providing constructability aids, and conducting material take offs. This risk is related to risk STP-123T (Design Maturity - T-Plant) relating to the clarity of the contractor scope and interpretation of the facility ECRs.

<table><tr><th>Risk recovery action(s)</th><th>Risk Date</th><th>FC Date</th><th>%</th></tr><tr><td>No additional recovery actions identified at this time.</td><td>3/03/15</td><td>N/A</td><td>N/A</td></tr></table>
Recovery Action Assessment:
T-Plant design documents associated with the nitrogen purge system have been issued via ECR-15-000336. The design documents have been given to the contractor for bidding purposes, even though the construction specification, HNF-8764 Revision 2, and ECR-15-000336, states that the installation of the nitrogen bottle rack, bottles, and bottle manifold are on hold, pending RL's approval of the MDSA (Revision 11). All indications, based on discussions with RL, are that Revision 11 of the MDSA will be approved with a nitrogen purge boundary consistent with the design (ECR-15-000336). CHPRC has received comments from RL in a letter (16-NSD-0027_RL) on March 1, requiring revision of the MDSA and the FHA. CHPRC is expecting to incorporate RL comments and update the FHA and re-submit them for RL approval by the end of April 2016. If the MDSA is not approved as submitted, there is a potential for the design and equipment safety designations to change. If Revision 11 is signed as is, Engineering will remove the hold on the Nitrogen System ECR and specifications. RL review and approval of the MDSA Revision 11 and FHA are needed by July 2016 to support the project schedule.</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">FY2016 Risk Triggers (Risk could be realized in FY2016)</td></tr>
<tr><td colspan="5">No critical risks identified in the month of March.</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 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-114: Aging Building Systems/Components Problems Impact Operations & S&M Activities</td><td>Problems with aging building systems/ components (e.g. ventilation systems, water distribution system, CAM's, instrument air system, fire alarm system, and electrical system, etc.) result in inoperability or requires unscheduled maintenance/ outages, impacting planned operations or on-going surveillance and maintenance activities. These impacts result in cost impacts, and schedule delays.
Risk Handling Strategy: Accept

Probability: Likely (75% to 90%)
Worst Case Impacts: $1.3 million, 44 days</td><td>  </td><td>  </td><td>Risk Trigger:
Routine S&M activities identify problems with aging building systems/ components. This reoccurring risk will 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>Perform critical system reliability assessments; maintenance practices; procure critical spares, and maintain existing redundancies.</td><td>On-Going</td><td>N/A</td></tr><tr><td>Continue with baseline plan for corrective and preventative maintenance on systems, structures and components.</td><td>On-Going</td><td>N/A</td></tr></table>Mitigation Assessment:
In the month of March risk elicitation meetings were held with the project, and it was determined that this risk will no longer be reporting on; however, it will continue to be monitored internal to the project.</td></tr>
<tr><td colspan="5">FY2016 Risk Triggers (Risk could be realized in FY2016)</td></tr>
<tr><td>STP-144: Baseline strategy agreed to by DOE 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 Trigger:
This is an emerging risks event. This risk has not yet been realized, however, due to changes in RL staff, the current Transportation Safety planning strategy is in question by the new RL Transportation Safety manager. There is a risk that because the planned strategies have not been fully evaluated by Transportation Safety, and since the Transportation Safety requirements have not been approved, development of a new transportation safety plan could pose significant delay to the final disposition of the STP STSCs in T-Plant.
<table><tr><th>Mitigation action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>CHPRC will brief the new RL Transportation Safety manager on the current planning strategies and seek concurrence.</td><td>On-Going</td><td>N/A</td></tr><tr><td>Update baseline to reflect agreed upon strategy moving forward.</td><td>On-Going</td><td>N/A</td></tr></table>Mitigation Assessment:
CHPRC is currently working with RL to a resolution to this risk concern.</td></tr>
<tr><td>STP-111-B: Contractor/ Subcontractor Performance – ECRTS Annex/ In-Basin Equipment Installation</td><td>Project/contract flow down requirements result in General Conditions Contractor and their supporting subcontractors missing planned schedule dates.
Risk Handling Strategy: Control

Probability: Very Likely (>90%)
Worst Case Impacts: $792K, 96 days</td><td>  </td><td>  </td><td>Risk Trigger:
1) General Contractor will not be able to comply with all contract requirements.
<table><tr><th>Mitigation action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>Establish weekly CHPRC and General Conditions Contractor interface meetings (e.g., Safety Meeting, Field Safety Walk-down , QA, POD/POW, Schedule and Performance Review) to track performance.</td><td>On-Going</td><td>N/A</td></tr><tr><td>Implement extensive oversight</td><td>On-Going</td><td>N/A</td></tr><tr><td>Provide additional training.</td><td>On-Going</td><td>N/A</td></tr><tr><td>Evaluate alternative / overlapping shifts.</td><td>On-Going</td><td>N/A</td></tr></table>Mitigation Assessment:
In the month of March risk elicitation meetings were held with the project, and it was determined that this risk will no longer be reporting on; however, it will continue to be monitored internal to the project.</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-093-B: Operational Resources Limitations for Construction Support - ECRTS Annex/In-Basin Equip. Installation</td><td>During installation the ECRTS process equipment installation multiple activities, which are currently planned in the FES, compete for the same operational resources (e.g., NCO's, HPT's, Shift Managers, RA, RM, Work Planners). In addition, emergent resource limitations also emerge (e.g., training, sick leave, vacation, short/long term) causing equipment installation delays.

Additional resources are needed, which is due to the requirement for increased confidence in release surveys (95 percent versus 67 percent). Internally driven, possibly requiring more RCTs.

Risk Handling Strategy: Control

Probability: Very Likely (> 90%)
Worst Case Impacts: $1.9 million, 64 days</td><td>  </td><td>  </td><td>Risk Trigger:
Planned Activities compete for the same operational resources, and resource limitations emerge resulting in delays.

<table><tr><th>Mitigation action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>OT will be utilized as needed to maintain schedule due to emerging risks or schedule short falls. (evaluated weekly)</td><td>On-Going</td><td>N/A</td></tr><tr><td>Evaluate alternative / overlapping shifts.</td><td>On-Going</td><td>N/A</td></tr></table>President
Mitigation Assessment:
No changes in the month of March.
Additional operators have been hired or alternate resources have been identified. New staff acquisitions have been trained and process are in place to train new staff as needed. Evaluation of alternative/overlapping shifts will be evaluated if schedule recovery actions are required to hold or recover schedule. The constructability review process will continue as needed.</td></tr>
<tr><td>STP-093-T: Operational Resources Limitations for Construction Support - T-Plant Modifications</td><td>During installation the T-Plant modifications and equipment installation activities, which are currently planned in the FES, compete for the same operational resources (e.g., NCO's, HPT's, Shift Managers, RA, RM, Work Planners). In addition, emergent resource limitations also emerge (e.g., training, sick leave, vacation, short/long term) causing equipment installation delays.
Risk Handling Strategy: Control

Probability: Very Likely (> 90%)
Worst Case Impacts: $512K, 32 days</td><td>  </td><td>  </td><td>Risk Trigger:
Planned Activities compete for the same operational resources, and resource limitations emerge resulting in delays.

<table><tr><th>Mitigation action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>Utilize limited OT due to project priorities, and the large number of staff required to support recovery actions. (Evaluated weekly)</td><td>On-Going</td><td>N/A</td></tr></table>Mitigation Assessment:
No changes in the month of March.
Additional operational resources have been hired at T-Plant to support the construction work. The Construction team has hired an additional planner to support work package development, enhanced work planning, and Hazard Review Board presentations. FPE resources have not engaged to fully support NLOP equipment removal planning process. The apparent resource challenges continue due to limited FPE resources and competing priorities causing potential delays in preparation for equipment removal.
No alternative course of actions necessary 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 impact downstream testing, construction, readiness and ECRTS Operations.
Risk Handling Strategy: Accept

Probability: Low (10% to 25%)
Worst Case Impacts: $500K, 60 days</td><td>  </td><td>  </td><td>Risk Trigger:
1) 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>None identified at this time.</td><td>N/A</td><td>N/A</td></tr></table>Mitigation Assessment:
No changes in the month of March. Personnel are actively managing critical procurements required for MPAT and FAT criteria is 98 percent established. Several actions have been taken to secure commitment from staff.
The mitigation strategies have been put in place, as a result, the risk strategy is to accept with no further mitigation actions identified.
No alternative course of actions necessary at this time.</td></tr>
</table>

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<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-105-B: Acceptance Testing and Achieving Readiness - ECRTS Annex/In-Basin Equip. Installation</td><td>Acceptance Testing Requirement are different from planned based on the development final of Acceptance Testing Requirements and Lines of Inquiry for Readiness Review.

Risk Handling Strategy: Accept

Probability: Very Likely (>90%)
Worst Case Impacts: $951K, 32 days</td><td>  </td><td>  </td><td>Risk Trigger Metric:
1) During acceptance, testing requirements are different from planned.

<table><tr><th>Mitigation action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>Conduct constructability review of Engineering media and field walk-downs as applicable.</td><td>Complete</td><td>100</td></tr><tr><td>Conduct Field mockups of equipment and review of MASF to identify potential interferences</td><td>Complete</td><td>100</td></tr></table>
Mitigation Assessment:
In the month of March risk elicitation meetings were held with the project, and it was determined that this risk will be combined with STP-103. This risk will no longer be reported on.</td></tr>
<tr><td colspan="5">FY2018 Risk Triggers (Risk could be realized in FY2018)</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 March.
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

*Cost increase will result in cost per day impacts from crews, and hotel load.</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 March.
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 risks/opportunities)</td></tr>
<tr><td colspan="5">No unassigned risks identified in the month of March.</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	6.9	7.5	7.2	0.6	8.4%	0.2	3.3%

Numbers are rounded to the nearest $0.1 million

CM Schedule Performance (+$0.6M/+8.4%)

The positive schedule variance is due to several items. Fabrication of the STS Overfill Recovery Tool (2-13) PS 9 was started early, due to material availability. Installation of two In-Basin Flocculent Skids started early in support of MPAT preparations. Preliminary I & C Loop Checks were also completed several weeks early, due to a change in the installation sequence in the field.

CM Cost Performance (+$0.2M/+3.3%)

The variance is within reporting thresholds.

Contract-to-Date
($M)

RL-0012 Spent Nuclear Fuel Stabilization and Disposition	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance ($)	Schedule Variance (%)	Cost Variance ($)	Cost Variance (%)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)
Total	561.3	562.8	564.1	1.4	0.3%	(1.4)	-0.2%	720.2	717.0	3.2

Numbers are rounded to the nearest $0.1 million

CTD Schedule Performance (+$1.4M/-0.3%)

The variance is within reporting thresholds.

CTD Cost Performance (-$1.4M/-0.2%)

The variance is within reporting thresholds.

Variance at Completion (+$3.2M/+0.4%)

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	45.3	7.7
Incremental Scope Pending Change Management	0	0.8	(0.8)
Expense - Subtotal	53.0	46.1	6.9
Line Item	68.1	36.1	32.0
Incremental Scope Pending Change Management	0	0.3	(0.3)
LI -Subtotal	68.1	36.4	31.7
RL-0012 – Total	**121.1**	**82.2**	**38.9**

Numbers are rounded to the nearest $0.1 million.

Funds/Variance Analysis

FY2016 projected funding for RL-0012 is $121.1 million. The projected overrun in expense funding shown in previous months has been alleviated. 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 the installation of process equipment at MASF, performance of the MPAT at MASF, installation of process equipment at 100K, operational acceptance testing 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-012-16-008R0, *Establish T Plant Sludge Storage Modifications GPP*
BCR-012-16-011R0, *Incorporate CO #301, 100-KW Sand Filter Media Remediation*
BCR-012C-16-012R0, *RL-012 Move Project Management to TEC*
BCR-PRC-16-030R0, *Implementation of DOE-0336, Hanford Site Lockout/Tagout Procedure, Revision 2*
BCR-PRC-16-034R0, *Undistributed Budget Adjustments March 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 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.	09/30/2018		08/27/18	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		08/27/18	

SELF-PERFORMED WORK

The Section H.20 clause, entitled "Self-Performed Work," is addressed in the Overview.

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)

March 2016
CHPRC-2016-03, 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) continued K3N skid work - installed reach handles on new drain valves, new instrument tubing on skid, new insulation on seal pot, and grouting ring around K3N pad. T Plant removed/replaced cover blocks from canyon cells 13L and 14R in support of the RL-0012 T Plant Sludge Storage Project. Central Waste Complex (CWC) completed two waste box nondestructive assay (NDA) activities in the Outside Storage Area (OSA) A. ERDF Transfer Pipeline Construction completed 90 percent of bermed area and 200W P&T tie-in. A public meeting was held to discuss the Part B Permit Application for Solid Waste Operations Complex (SWOC) on March 7, 2016.

EMS Objectives and Target Status

Objective #	Objective	Target	Due Date	Status
16-EMS-WFM-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-WFM-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	40%
16-EMS-WFM-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	32%

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	0	24*	N/A *8 First Aid Cases, PTS in support of RL-0013.
Near Misses	0	1	N/A

KEY ACCOMPLISHMENTS

13.01 Project Management

- Conducted a Part B Permit Application public meeting for SWOC on March 7, 2016.

13.02 Capsule Storage & Disposition

- Performed/Completed:
  - Multiple canyon entries for re-lamping of canyon areas.
  - Entries into the hot manipulator shop for radiological characterization data.
  - 31 Preventive Maintenance (PM) work packages.

a. Capsule Extended Storage Project:

  - Issued Request for Proposal (RFP). Proposal due date is May 23, 2016.

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

- Performed/Completed:
  - Factory acceptance testing of K3N Skid.
  - Delivered skid and heater on WESF pad and welding to foundation.
  - Received notification of RL acceptance of WESF Draft Radioactive Air Licenses.

13.03 Canister Storage Building (CSB)

- Performed/Completed:
  - Cleanup of post-CHPRC contract waste from CSB laydown area.
  - Repair of rain water leaks on the 212H Service Support Building roof.
  - 29 PM packages.

13.06 TRU Repackaging

- Transuranic mixed (TRUM) waste completed and returned fiscal year to date – 285.3 m3.
- M-91 Alternative Study:
  - Commenced internal review of initial draft of Engineering Alternatives study.
- Shipped:
  - Twelve waste drums and a fiberglass-reinforced plywood (FRP) waste box to PFNW in two shipments.
- Shipments Received:
  - Sixteen waste drums from PFNW in one shipment.

13.07 WRAP

- Supported WDOE RCRA Compliance inspection.
- Surveillances/PMs:
  - 156 Surveillances.
  - 21 PM packages.

13.08 T Plant

- Removed/replaced cover blocks from canyon cells 13L and 14R.
- Qualified first Process Crane Operator (PCO) on Canyon Crane.
- Surveillances/PMs:
  - 628 Surveillances.
  - 47 PM packages.

13.09 CWC and Low Level Burial Grounds (LLBG)

- Performed/Completed:
  - Two waste box NDA activities in the Outside Storage Area (OSA) A. Ten boxes have been completed in FY2016.
- Surveillances/PMs:
  - 24 PM packages.
  - 366 Surveillances.

- Shipped:
  - Twelve waste drums and FRP box to PFNW in two shipments.
- Shipments Received:
  - Eighteen standard waste boxes (SWB) received into CWC in four shipments.
  - Three waste drums received into CWC in two shipments.

13.11 Liquid Effluent Facilities

- ERDF Transfer Pipeline Construction:
  - Completed 90 percent of bermed area and 200W P&T tie-in.
  - Completed draining of isolated transfer line.

13.12 Integrated Disposal Facility

- Completed monthly inspections.

13.14 Solid Waste Base Operations

- Environmental Enhancement:
  - Completed data reconciliation/containers labeled: 765 drums.

13.16 Off Site Spent Nuclear Fuel Disposition

- Maintained coordination for offsite Spent Nuclear Fuel Disposition.

13.21 Mixed Waste Disposal Trenches (MWT)

- Shipments Received:
  - Five waste boxes in one shipment.
- Completed:
  - 223 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). Additional repackaging scope was incorporated into the contract and performance measurement baseline in October 2015. However, regulator interest continues regarding container condition and CHPRC is monitoring evolving requirements along with RL.

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 the higher flow rates. This will also provide defensibility for past data. Following successful completion of the engineering evaluation, RL will submit a 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. The first deliverable was received September 28, 2015; the preliminary review is complete. PNNL supplied preliminary information providing a basis for an expanded flow range. A meeting with RL and WDOH was held October 8, 2015 to present the first deliverable from PNNL. Following the meeting, PNNL cleared the presentation for release, and the cleared copies were provided to WDOH on October 22, 2015. WDOH provided positive feedback on the PNNL presentation but wants one of six original tests to be re-performed but at lower flow rates to validate the PNNL statistical analysis, which used test results from similar stacks for comparison. The facility Environmental Compliance Officer is looking into feasibility of performing this testing during quarterly stack flow testing; however, RL contractual approval and funding are required. Once direction is received from RL for the additional testing, work packages will be developed and the testing will be scheduled.

PNNL was given direction to proceed with preparation of their formal report December 1, 2015, with an anticipated completion date of February 26, 2016. PNNL submitted a cleared copy of their final report, "Stack Flow Rate Changes and the ANSI/N13.1-1999 Qualification Criteria – Application to the Hanford Canister Storage Building Stack", to CHPRC for on February 18, 2016. The purpose of this report examines qualification test results of four stacks that are geometrically similar to the CSB and uses the test data from those stacks as a basis for qualifying the CSB stack at flow rates lower than what the CSB stack was originally qualified at.

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 March.				
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. **Recovery Action Assessment:** Project continued to perform container surveillances in the month of March to identify container and container cover abnormalities. All shipments related to the 280 m3, largely from Outside Storage Area A, to Perma-Fix Northwest are complete and returned to CWC/LLBG. A contract was awarded for the design and fabrication of a large overpack for Storagebox 75DMA16F3 with a subsequent move into 2403WD. The overpack was received in March and once resources are available the project will perform the overpack of the storage box. A potential impact may be realized due to regulator uncertainties related to the definition of a satisfactory container when corrosion is evident. These uncertainties may result in the inability to efficiently receive waste from on-site generators, i.e., PFP. At this time impacts are being realized in two buildings for the receipt of PFP CERCLA waste. No alternative course of actions needed at this time; however, a teleconference with the EPA was held and no final determination was made by the regulators on the definition of a "good drum." CHPRC is in possession of a letter from the EPA that states they do not believe CHPRC understands what a "bad drum" is. No meetings are currently schedule to resolve this concern, however a letter is being drafted to request contract direction from RL. At this time it is undetermined on the timeframe to reach a conclusion.

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.		On-Going	N/A
Overpack degraded waste packages.		On-Going	N/A
Process waste packages at a rate funded by RL.		On-Going	N/A

<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-W130-07: WESF W-130 Class 3 Permit modifications – Ecology</td><td>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.</td><td>  </td><td>  </td><td>Risk Event:
Risk was realized upon receipt of letter of incompleteness from Ecology on closure plan and Class III permit modifications.

<table>
<tr><th>Risk recovery action(s)</th><th>Risk Date</th><th>FC Date</th><th>%</th></tr>
<tr><td>Established logic ties in schedule to prompt request of a temporary authorization in the event that an approved permit is not provided in time to support field execution schedule.</td><td rowspan="4">3/25/15</td><td>Complete</td><td>100</td></tr>
<tr><td>Work with Ecology to resolve areas of incompleteness in permit modification and closure plan.</td><td>Complete</td><td>100</td></tr>
<tr><td>Obtain Temporary Authorization (TA) from Ecology to allow construction activities to proceed without full permit approval</td><td>Complete</td><td>100</td></tr>
<tr><td>Obtain second TA from Ecology to allow grouting activities to proceed without full permit approval.</td><td>5/09/16</td><td>0</td></tr>
</table>

Recovery Action Assessment:
CHPRC and RL met with Ecology on February 9, 2016 to discuss a phased approach instead of 1 TA for the full scope requested. The first TA would allow core drilling; the second TA would allow grouting. Ecology has put the closure plan out for public comment (March 14 – April 27, 2016). A TA for core drilling was received from Ecology effective March 31 – September 27, 2016. The TA specifically excludes grouting activities. A second TA to allow grouting has been requested by May 9, 2016 to avoid schedule impacts. This phased dual TA approach poses additional schedule risk if Ecology does not issue the second TA in time to support field work, and may prolong an interim condition where core drills have been made but grout not placed.
Additional resources will continue to be necessary to work permitting issues until final permit is issued and implemented. Additional cost for labor resources is incorporated into CP269 R2 through April 2016. It is not known when the plan will be incorporated into the baseline as it is dependent upon RL approving and definitizing the change proposal. No additional alternative course of actions needed at this time.</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-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>Provide revised design for fire suppression system</td><td rowspan="7">02/01/16</td><td>Complete</td><td>100</td></tr>
<tr><td>Complete fabrication and installation of new fire suppression system</td><td>TBD</td><td>TBD</td></tr>
<tr><td>Provide design for K3N skid modifications</td><td>Complete</td><td>100</td></tr>
<tr><td>Complete K3N skid modifications</td><td>4/29/16</td><td>80</td></tr>
<tr><td>Perform electrical investigations in service gallery</td><td>7/11/16</td><td>0</td></tr>
<tr><td>Perform hot pipe trench investigative core drilling</td><td>5/30/16</td><td>0</td></tr>
</table>

Recovery Action Assessment:
A revised design has been provided for the fire suppression system changes that will allow for pressure testing of the full system. The revised design resulted in a 10 foot expansion of the K3N skid foundation pad to allow for the extra spool piece required for insertion of the sprinkler head in the ducting upstream of the filters. The contractor will provide the spool piece and the sprinkler after delivery of the skid to WESF for installation. The design and modifications to the K3N skid have been completed (installation of a long lead pressure switch will be installed onsite after receipt). Work package to perform electrical investigations in the service gallery has been reviewed by the Hazard Review Board for high hazard radiological work and approved. Work will commence in April. A work package to perform a small one inch core into the hot pipe trench is in planning. The work package will allow insertion of a borescope and temperature probe to determine if open communication exists between the two facilities. Results of investigation core drilling will be used to plan appropriate risk mitigations to prevent grout intrusion into B Plant.</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>Leverage capability at PFNW to utilize their Low-Level Facility (LLF) for the receipt and processing of non-mixed TRU waste from CWC and PFP. The LLF has a separate radioactive material license (RML) from their Mixed Waste Facility (MWF); therefore, allowing additional quantities of NRC defined special nuclear material (SNM) to be received.</td><td>Complete</td><td>100</td></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:
No changes in the month of March.
Project continues to monitor the PFP situation and how it may affect other planned work for PFNW. The TRUM waste being generated from the PRF Canyon floor cleanout could affect the projects ability to have sufficient treatment capability/capability for the processing of Legacy TRUM waste for the remainder of FY2016 and all of FY2017 and FY2018. PFNW has identified and prepared one of their buildings for processing of non-mixed TRU waste, however they are holding any further readiness until CHPRC can more specifically identify when the oversized non-mixed TRU waste components from PFP will begin to be shipped.

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 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, it will still load up PFNW with respect to their Pu limits for several years which will 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>
<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 S&M activities a suspect system component is discovered that requires attention, or an unexpected malfunction results in this risk from 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 March.
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>
</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-0013/WBS-013</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 S&M activities a suspect system component is discovered that requires attention, or an unexpected malfunction results in this risk from 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 March.
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 March.
The project is continuing implementation of planned efficiencies (approximately $50 million to date) and forecasts indicate that the efficiencies will continue through the contract period of performance. No foreseeable impacts in the near future, and no alternative course of actions needed at this time. However, emerging issues continue to place pressure on ability to achieve planned efficiencies.</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 March.
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 March.</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	12.6	12.2	9.7	(0.4)	-3.5%	2.5	20.1%

Numbers are rounded to the nearest $0.1 million

CM Schedule Performance (-$0.4M/-3.5%)

The current month schedule variance is within threshold.

CM Cost Performance (+$2.5M/+20.1%)

The current month favorable cost variance is due to implementation of BCR-013-16-019R0, *Incorporate CO #269, WESF K3 Ventilation and Stabilization Project Scope*. This BCR incorporates budget for prior periods and earned value in the current period.

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	1,037.9	1,036.7	971.7	(1.2)	-0.1%	65.1	6.3%	1,333.0	1,257.2	75.9

Numbers are rounded to the nearest $0.1 million

CTD Schedule Performance (-$1.2M/-0.1%)

The schedule variance is within threshold.

CTD Cost Performance (+$65.1M/+6.3%)

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

Variance at Completion (+$75.9M/+5.7%)

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

Contract Performance Report Formats are provided in Appendix A.

FUNDS vs. SPEND FORECAST ($M)

WBS 013/RL-0013 Waste and Fuels Management Project	FY2016 Projected Funding	FY2016 Spending Forecast	FY2016 Spend Variance
Spending Forecast	106.6	91.1	15.5
Incremental Scope Pending Change Management	0.0	12.5	(12.5)
RL-0013 – Total	106.6	103.5	3.1

Numbers are rounded to the nearest $0.1 million.

Funds/Variance Analysis
FY2016 project funding for RL-0013 remained the same. The FYSF was increased from $103.1 million to $103.5 million due to increased resources to support the replacement of emergency and non-emergency lighting, T Plant readiness for sludge support, and five change orders for ERDF transfer line construction.

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

Baseline Change Requests

BCR-013-16-017R0, *Definitization of CO #282, Burial Ground CAHCAs to URMAs*
BCR-013-16-019R0, *Incorporate CO #269, WESF K3 Ventilation and Stabilization Project Scope*
BCR-013-16-030R0, *Implement DOE-0336, Hanford Site Lockout/Tagout Procedure, Revision 2*
BCR-PRC-16-031R0, *Definitization of CO #263, ERDF Leachate Transfer Pipeline Construction and Operations*
BCR-PRC-16-032R0, *Schedule Health, Change Activity Codes and Activity Descriptions*
BCR-PRC-16-034R0, *Undistributed Budget Adjustments March 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 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		6/30/16	On Schedule
M-091-47B	Certify or treat 280 cubic meters of TRUM/MLLW waste in FY2016. Submit a change request to establish the next two interim milestones for annual certification of TRUM waste and disposal of MLLW.	9/30/16		9/30/16	On Schedule
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
M-091-44Z-007	Annual PMM or Quarterly Notification of Cert of CH/RH TRUM.	12/31/16		12/31/16	On Schedule

SELF-PERFORMED WORK

The Section H.20 clause, entitled "Self-Performed Work," is addressed in the Overview.

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

March 2016
CHPRC-2016-03, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

Pump and Treat (P&T) Operations continued making progress on the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) remedial process documentation for the River Corridor and Central Plateau. Groundwater treatment and well drilling completed in March 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	34.7	201.13	5.8	38.3								
HX P&T	21.1	116.18	1.9	12.6								
KR-4 P&T	14.8	80.2	0.3	1.7								
KW P&T	14.3	85.8	0.6	4.6								
KX P&T	37.1	215.14	2.2	13.2								
200 West P&T	74.5	479.24	7.0	38.7	184	1136	8318	46352	$.23x10^{12}$	$1.6x10^{12}$	2.3	13
Combined	**196.5**	**1177.8**	**17.7**	**109.1**	**184**	**1136**	**8318**	**46352**	**$.23x10^{12}$**	**$1.6x10^{12}$**	**2.3**	**13**

Well Drilling by Area	FY2016 Planned	March	FY2016 Cumulative
100-KR-4	3	-	-
100-HR-3	8	-	-
200-UP-1	7	-	-
200-UP-1 Chromium Plume	3	-	-
200-ZP-1 C9521	1	-	-
200-ZP-1 monitoring	2	1	2
M-24 Milestone 100-NR-2	6	-	-
M-24 Milestone C Farm	1	1	1
Vadose Zone	1	1	1
100 F I/U	8	-	-
Total Wells	**40**	**3**	**4**
Site Wide Boreholes	**25**	**2**	**9**

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.	Compile 1st quarter emissions evaluation.	12/31/15	100%	50%
		Compile 2nd quarter emissions evaluation.	3/31/16	100%	
		Compile 3rd quarter emissions evaluation.	6/30/16	0%	
		Compile 4th quarter emissions evaluation and complete work site assessment on FY2016 emissions.	9/30/16	0%	
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	50%	50%
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	25%	25%
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	20%	20%

TARGET ZERO PERFORMANCE

	CM Quantity	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	1	N/A
Total Recordable Injuries	1	3	• 3/23/2016 - Employees left thumb contacted a chip on the rim of a glass beaker in a box resulting in a laceration to his thumb. The individual was taken to HPMC and referred to an offsite physician for treatment. Five sutures were used to close the wound. The employee returned to work with restriction which does not affect their ability to do the normally assigned day to day duties. (23965)
First Aid Cases	6	*49	• 3/1/2016 - While an employee was entering sample van to leave the site, their right foot slipped off of the step. When the employee returned to the office, they reported stiffness in the knee. The individual was taken to HPMC for evaluation and returned to work without restriction. (23945) • 3/2/2016 – Employee tripped on transducer cable and fell landing on left knee. The individual was taken to HPMC for evaluation and returned to work without restriction. (23947) • 3/4/2016 – Employee had visited doctor and specialist for shoulder pain. The doctor found a bone spur on the individual's shoulder which could be caused by repetitive overhead-type work. (23951) • 3/16/2016 – While employee was changing absorbent pads under a sodium hypochlorite tote, a small amount of material soaked through their coveralls and pants while kneeling, resulting in a coin-sized chemical burn on their knee. The affected area was washed and the individual was taken to HPMC for evaluation and released to work without restriction. (23954) • 3/22/2016 – On March 22, 2016, after taking 16 beryllium samples and performing maintenance tasks the staff member experienced increased pain, tingling, and had a hard time opening their hands. The employee informed their manager and reported to HPMC and was diagnosed with carpal tunnel syndrome. No treatment was provided. The employee was released to return to work without restrictions. (23971) • 3/29/2016 – The employee informed their manager of feeling numbness and pain in fingers, wrists and elbows and reported to HPMC for examination. The employee returned to work with a restrictions that does not preclude them from performing all normally assigned job duties and was referred to an offsite physician for additional treatment. (23969) *13 FA cases, PTS in support of RL-0030.
Near-Misses	0	2	N/A

KEY ACCOMPLISHMENTS

RL-0030.O1 RL 30 Operations
RL 30 Integration & Assessments

Risk & Modeling Integration

- Supported the completion of the Low-Level Waste Disposal Facility Federal Review Group (LFRG) On-Site Review of Waste Management Area C Performance Assessment through the site modeling integration role. The quality assurance for modeling was identified by LFRG members during the review as best in class. It was requested that the program be shared at the next PA Community of Practice meeting.
- Presented two workshops on the modeling approach for groundwater operable units to the Washington State Department of Ecology in response to letter 16-NWP-030:
  - Presented CHPRC-02864-*VA Modeling Approach for the 200-BP-5 RI: Introduction* and CHPRC-02868-VA *Foundation for BP-5 Modeling Approach*, to focus on geoframework on March 14, 2016.
  - Presented CHPRC-02865-VA Modeling Approach for the 200-BP-5 RI: Introduction to Modeling Calibration and Parameter Comparisons and CHPRC-02869-VA Modeling Workshop: Objectives, Inputs, Calibration and Documentation, to focus on model development on March 15, 2016.
- Ecology staff requested additional information and two working sessions on quality assurance and geodata were conducted:
  - Provided an overview of the CHPRC Quality Assurance Project Plan for Modeling (CHPRC-00189 Appendix G), supporting software and calculation procedures, software lifecycle qualification documents for MODFLOW and related codes, and implementing regulations, orders, and guidance on March 22, 2016.
  - Provided a detailed look at how the geologic database is maintained, how new and revised interpretations are incorporated, and how the geoframeworks are based on this information on March 23, 2016.

RL-0030.O1 RL 30 Operations
River Corridor

100-BC-5 Operable Unit

- Completed internal draft RI/FS report and initiated senior technical review. Review will be complete April 14, 2016.
- Prepared a white paper that evaluates the potential effects of the contaminants of potential concern on the species listed as threatened or endangered under the Endangered Species Act within the Columbia River and on fall run Chinook salmon. This paper was provided to RL on March 23, 2016.

100-FR-3 Operable Unit

- Completed construction of access roads and well pads required for the installation of eight monitoring wells on March 15, 2016.
- Installed automated water level network monitoring devices at five of 20 wells during the week of March 14, 2016. Additional installations will occur in April.

100-HR-3 Operable Unit

- Completed well drilling activities for all seven of the WCH replacement wells. The wells will be added to routine sampling.

- Completed installation of the test equipment for the constant rate step test and began collection of baseline information.
- Briefed the Yakama Nation on the 100-D Area P&T system and planned construction activities on March 28, 2016.

100-KR-4 Operable Unit

- Briefed RL and U.S. Environmental Protection Agency (EPA) on planned rebound study at KW P&T on March 28, 2016.
- Briefed the Yakama Nation on the 100-K Area P&T systems and planned construction activities on March 28, 2016.

100-NR-2 Operable Unit

- Provided responses to Ecology comments on the sampling and analysis plan contained in the Interim Action RD/RAWP.
- Received approval of the Memorandum of Agreement (MOA) for drilling six new monitoring wells and initiated drilling subcontractor selection.
- Received approval of the MOA for D&D of the inactive P&T system.

300-FF-5 Operable Unit

- Issued the Revision 0 300-FF-5 Operable Unit Stage A Uranium Sequestration System Installation Report, on March 7, 2016.

Central Plateau

200-UP-1 Operable Unit

- Completed drilling the first of four groundwater monitoring wells (299-W19-116). Initiated the drilling of the next two wells in the campaign.

200-IS-1 Operable Unit

- Provided RL with the revised change package C-13-01 updated to included additional TSDs based on completed scoping summaries, a revised Closure Plan potential groups table, and additional information regarding monitoring and interim stabilization on March 8, 2016. RL provided the information to Ecology that same day.
- Initiated 35 new waste site scoping summaries for RL review and completed 125 scoping summaries.
- Resolved informal Ecology comments on the RI/FS work plan, Chapter 1, and completed final updates on March 24, 2016.

200-SW-2 Operable Unit

- Completed and cleared calculation supporting the Green Islands containers 6 and 7 legacy waste designations on March 30, 2016.
- Re-initiated updates to work plan text and comment resolutions to reflect most up to-date principles and parameters policy direction from RL in preparation for Ecology final comment resolution meeting.

PW-1/3/6 Operable Unit

- Incorporated EPA comments into the RD/RAWP and SAP. Submitted revised document to RL and EPA for concurrent review on March 29, 2016.

200-PW-1 Operable Unit

- Performed the internal review of the draft 200 PW-1 OU SVE Response Action Report to permanently shut down the soil vapor system.

200-DV-1 Operable Unit

- Installation of an instrument array was performed in one treatability test well in March 2016. The remaining treatability test wells are to be installed in FY2017, followed by two ground truthing boreholes in FY2018.
- During the month of March, the project completed initial Becker-Hammer drilling of five more characterization boreholes to bring the total completed to 19 of 22. Additionally, the project completed sonic core drilling at two more boreholes, bringing the total boreholes completed to 6 of 22. Both Becker-Hammer and sonic core drilling continue. The project still has to decommission the completed boreholes.
- Initiated the second of three perched water tests on March 21, 2016. This test is expected to continue until the end of May 2016.

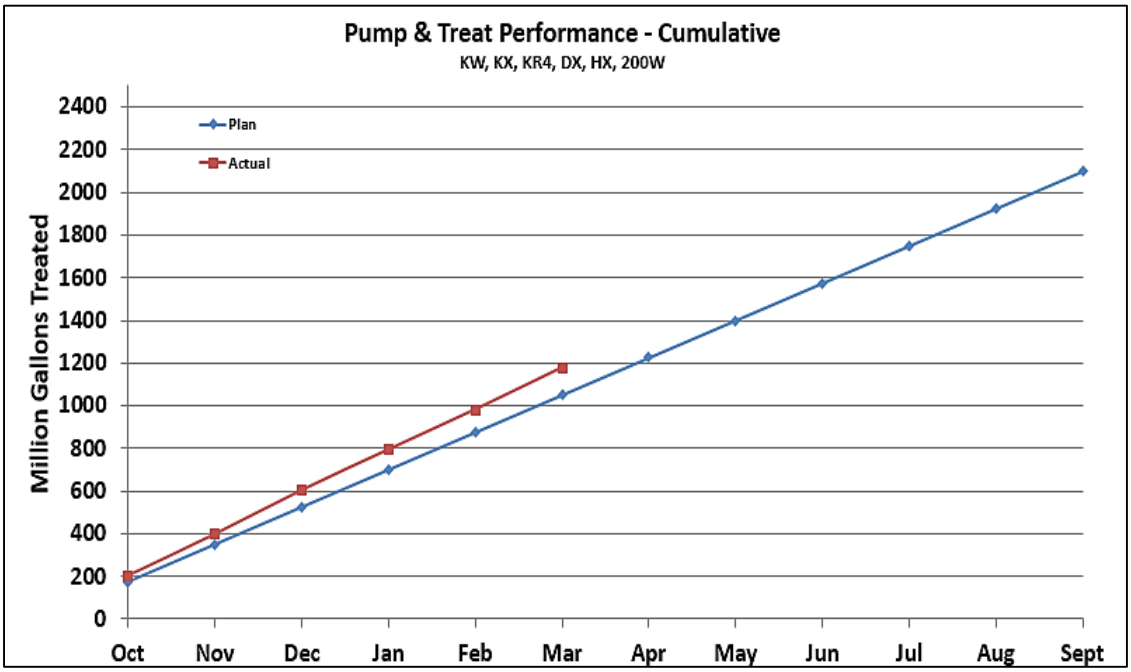
Groundwater P&T Facilities
200 West P&T

- Operated the 200 West P&T at an average of 1,670 gpm.

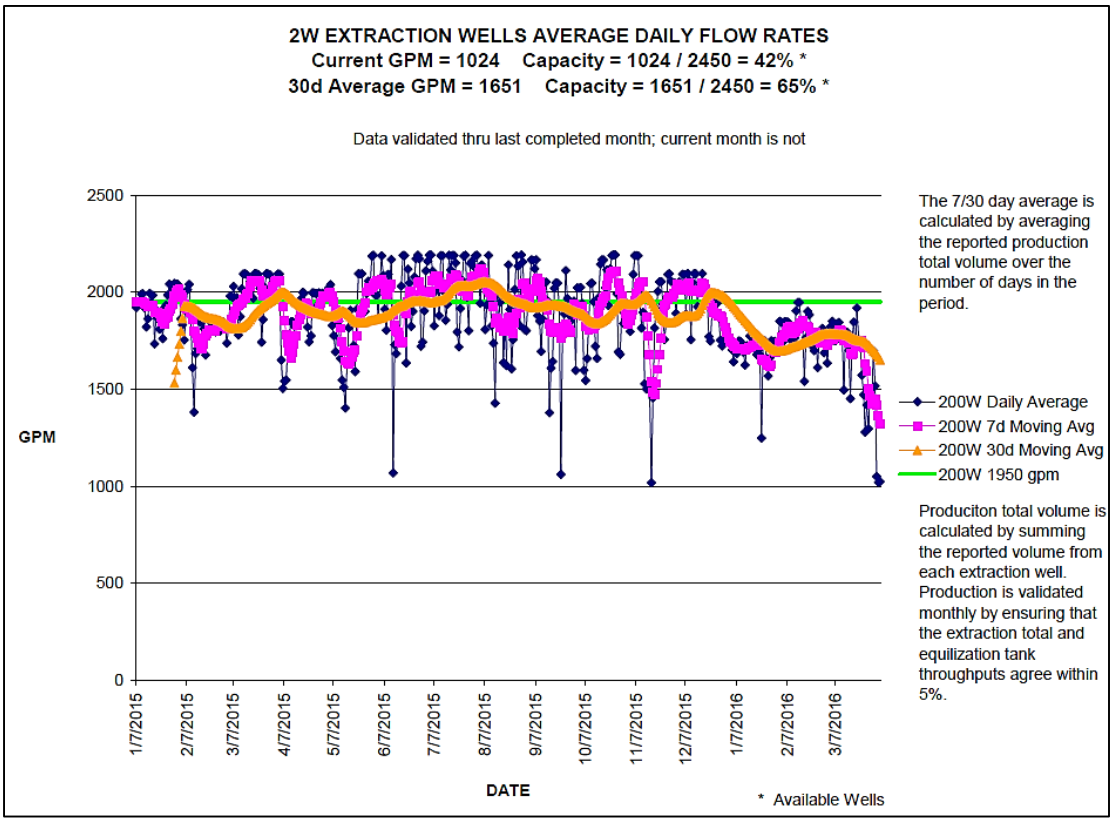
100 Area P&Ts

- Operated the DX P&T at 777 gpm, above the facility capacity of 775 gpm.
- Operated the KR-4 P&T at 332 gpm, above the facility capacity of 330 gpm.
- Operated the KW P&T at 321 gpm, near the facility capacity of 330 gpm.
- Operated the KX P&T at 831 gpm, near the facility capacity of 900 gpm.
- Operated the HX P&T at maximum extraction well capacity. Monthly average at approximately 474 gpm.

FY2016 P&T Operations



200 West P&T



MAJOR ISSUES

Issue:
Field work has been delayed due to the Section 106 Cultural Resource Review (CRR) and approval process for work within the 100-N OU traditional cultural property (TCP). This issue originally impacted performance of the 100-NR-2 apatite barrier in FY2014, and later the installation of the six M-24 milestone monitoring wells and D&D of the P&T facility in FY2015. In addition, some of the proposed scope in the P&T Optimization Plan is within the boundaries of the TCP and will be impacted.

Corrective Action:
Develop and implement an approach for preparing the CRRs and conducting the associated MOA workshops to allow more rapid completion of the MOA process so field work can be performed within the TCP. In the meantime, move impacted work scope to FY2017 and beyond.

Status:
Issue has been closed. The MOAs for drilling the 6 new monitoring wells and D&D of the 100-NR-2 P&T facility were approved. The project is working with RL to implement the associated mitigation measures and perform the related work in a timely manner. For the FY2016 P&T optimization scope, the plan was revised to only include activities that occur outside of the TCP. Appropriate actions have been taken.

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), 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 and Ecology review of the Draft A 200-BP-5 RI/200-PO-1 RI Addendum.

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 Concern (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. Specific document status includes:

- 100-HR-3: Resolution of EPA legal comments on the proposed plan (PP) continues. An approach to evaluate the waste sites that were remediated after completion of the RI/FS in the PP has been determined, and will delay completion of the PP by several months.
- 100-NR-2: One comment resolution meeting on the RI/FS was held with Ecology in March 2016 due to regulator staff availability. An extension letter was issued for comment resolution on March 31, 2016, for another 6 month period. The weekly meetings will be stopped while RL and Ecology review the revised RI.
- 200-IS-1: Ecology continues to review change package C-13-01, which was provided to them on December 19, 2015. Dispute has been extended to May 31, 2016.
- 200-BP-5 and 200-PO-1: Ecology resumed review of the 200-BP-5 and 200-PO-2 remedial investigation reports (letter 16-NWP-030, dated February 9, 2016). Issue has been closed.

Issue:
A small water leak near the base of Fluidized Bed Reactor A (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:
A schedule for repair will be provided upon input from repair vendors.

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 March.				
Realized Risks (Risks that are currently impacting project cost/schedule)				
SGW-NR2-03: Cultural Resource Reviews	Cultural and ecological resource reviews impact start of borehole, aquifer and all other actions in the OU due to defining the area as a TCP; resulting in cost and schedule impacts. However, results and significant delays for historical and archeological reviews are beyond the scope of CHPRC risk. **Risk Handling Strategy:** Control **Probability:** Low (10% to 25%) **Worst Case Impacts:** $2 million, 44 day			**Risk Event:** The project received the ecological and cultural clearance for this work on March 1, 2016 (MSA-1601100). The baseline assumed the project would rely on heavy equipment to perform the D&D of the 100-NR-2 P&T system; however, the cultural resource review determined that a change in execution approach would be required. The scope of work includes D&D of an extraction well network, process building (tent), and injection well network. Also included is the necessary support equipment, buildings, connex boxes, components and disposal of waste apatite injection equipment. To accommodate the recently approved agreement for the traditional cultural property, the project is prohibited from using construction machines off-road in areas of the site with old growth sage and other native plants. The work will be performed with hand tools. **Risk recovery action(s)** / **Risk Date** / **FC Date** / **%** Implement baseline change request to draw down management reserve to cover change in execution approach. / 3/1/16 / 4/21/16 / 0 **Risk Assessment:** The project will continue to monitor this risk until the BCR is approved and implemented. This risk will no longer be reported once the BCR is processed. It will be tracked internally until the D&D project is complete. The risk will be closed when the D&D activities are completed in FY2017.

<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-0030/WBS-030</td></tr>
<tr><td>OPPORTUNITY: SGW-007A: Sampling Requirement Reduction</td><td>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</td><td>  </td><td>  </td><td>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.
<table><tr><th>Opportunity action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>Develop schedule for completing RL Panel Review on the SAPs.</td><td>Complete</td><td>100</td></tr><tr><td>Obtain RL approval of the revised SAP.</td><td>Complete</td><td>100</td></tr><tr><td>Obtain Agency approval of the revised SAPs.</td><td>9/30/16</td><td>50</td></tr></table>Opportunity Assessment:
No changes in the month of March.
All ten CERCLA groundwater monitoring SAPs have been revised and transmitted to RL. Five of the ten CERCLA SAPs have been approved by the Agencies and the revised monitoring program implemented. Comment resolution with the Agencies is on-going for two CERCLA SAPs (100-HR-3, and 100-NR-2). It is expected that these SAPs will be finalized within the next couple of months. The 100-NR-2 SAP has been provided to Ecology for final checking. The 100-KR-4 SAP was transmitted to EPA on March 29, 2016. Ecology continues to review the 200-BP-5 and 200-PO-1 SAPs and comments are expected in April.

All 24 RCRA monitoring plans have been reviewed and revised, as appropriate. Thirteen of the RCRA monitoring plans have been revised and transmitted to Ecology. We have received comments from Ecology on eleven of these plans. Finalization of the revised RCRA monitoring plans is dependent upon Ecology's review schedule, but CHPRC is planning to have them complete by calendar year-end.

No alternative course of actions are needed at this time.</td></tr>
<tr><td>PRC-005: Delayed Document Approvals</td><td>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</td><td>  </td><td>  </td><td>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 TPA without extensions.
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.
d) 200-BP-5/PO-1 RI: On October 23, 2015, Ecology submitted a letter that suspended their review of the Draft A 200-BP-5 RI report and Draft A 200-PO-1 RI report addendum due to issues related to fate and transport modeling.
<table><tr><th>Risk recovery action(s)</th><th>Risk Date</th><th>FC Date</th><th>%</th></tr><tr><td>Resolution with Ecology/EPA on Draft Revision 0 100-D/H PP.</td><td>Sept 2014</td><td>May 2016</td><td>N/A</td></tr><tr><td>Resolution with Ecology on Draft A 100-N RI/FS Report.</td><td>June 2013</td><td>Sept 2016</td><td>N/A</td></tr><tr><td>Complete waste site scope definition and dispute resolution with Ecology on Draft B 200-IS-1 RI/FS.</td><td>Dec 2013</td><td>May 2016</td><td>N/A</td></tr><tr><td>Resolution with Ecology on the Draft A 200-BP-5/200-PO-1 RI Report</td><td>Oct 2015</td><td>Ongoing</td><td>N/A</td></tr></table>Risk Assessment:
a) 100-D/H PP: Comment resolution meetings continue with EPA, Ecology and RL. A technical memorandum to evaluate the 104 100-D/H waste sites that were remediated following completion of the RI/FS is being prepared.</td></tr>
</table>

Risk Title	Unmitigated Risk Impacts	Assessment		Comments
		Month	Trend	
RL-0030/WBS-030				
				b) 100-N RI/FS: One comment resolution meeting occurred during March due to Ecology staff availability. The document period of performance has been extended from March 31, 2016 (15-NWP-225) to 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 May 31, 2016. d) 200-BP-5/200-PO-1 RI: Ecology resumed review of the 200-BP-5 and 200-PO-2 remedial investigation reports. Completion of this review is pending adequate resolution of Central Plateau modeling approach.
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)				
No critical risks identified in the month of March.				
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)				
No high risks identified in the month of March.				
Unassigned Risks (Pending ownership of identified risks/opportunities)				
No unassigned risks identified in the month of March.				

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	14.3	12.3	10.9	(2.0)	-14.1%	1.4	11.7%
Numbers are rounded to the nearest $0.1 million.							

CM Schedule Performance (-$2.0M/-14.1%)

The negative schedule variance resulted from the following:

- Drilling campaigns in the 100-KR-4, 200-PO-1, and 200-UP-1 Operable Units have been deferred to align with priority list and available funding. Mobilization of the three SE chrome plume drilling campaign proceeded more slowly than planned to align with driller equipment availability and SAP/WMP updates. 200-ZP-1 Operable Unit drilling planned in FY2016 was accelerated and performed in FY2015. The positive variance is now returning to zero.
- Revised cultural review requirements for 100-HR-3 and 100-KR-4 well realignment activities have caused the FY2016 construction work to be re-sequenced for later in the year.
- In the fall of 2012, RL and the Regulators made a decision to defer the selection of a preferred 100-KR-4 alternative to allow ongoing source removal activities to be completed, to monitor the response of this remediation on concentrations of contamination within the groundwater system and the interaction of groundwater to the Columbia River, and perform additional vadose zone characterization. These delays to the documentation process have delayed the start of the RD/RAWP planned in March.
- Preparation of the 200-OA-1 RI/FS, closure plans, and associated project management was deferred until FY2017 to align with priority list and available funding.

- About 70 percent of the 200-DV-1 Operable Unit negative CM SV was experienced on the RCRA RFI/RI and CMS/FS documents. This documentation is unable to be started until the fieldwork is completed (currently scheduled for March 2017). The borehole drilling has been slowed due to unexpected radiological levels encountered at depths greater than planned, resulting in additional controls and revised approach to complete the drilling. Remobilization of the Becker Hammer driller was slowed in order to support other drilling priorities, this drilling has picked up.

CM Cost Performance (+$1.4M/+11.7%)

The positive schedule variance resulted from the following:

- Continuing to experience efficiencies in the Groundwater Monitoring and Performance Assessment account associated with the use of lower analytical laboratory costs. These costs are due to the use of offsite laboratories, and lower geophysical logging costs during well drilling due to the competitive procurement process.
- In March, the 200-ZP-1 Operable Unit experienced a positive CM CV on the performance of the initial MBR field activities. The up-front activities were performed more efficiently than planned by executing them over a longer period of time as fill in work (chemical pumps, engineering). The bulk of the MBR field activities will start in April with substantially larger crew sizes and associated costs.

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	1,219.4	1,203.5	1,181.2	(15.9)	-1.3%	22.3	1.9%	1,561.0	1,522.5	38.4

Numbers are rounded to the nearest $0.1 million.

CTD Schedule Performance (-$15.9M/-1.3%)

The variance is within reporting thresholds.

CTD Cost Performance (+$22.3M/+1.9%)

The variance is within reporting thresholds.

Variance at Completion (+$38.4/+2.5%)

The variance is within reporting thresholds.

Contract Performance Report Formats are provided in Appendix A.

FUNDS vs. SPEND FORECAST ($M)

RL-0030 Soil and Groundwater Remediation	FY2016 Projected Funding	FY2016 Spending Forecast	FY2016 Spend Variance
Spending Forecast	124.3	117.3	7.1
Incremental Scope Pending Change Management	0.0	1.1	(1.1)
RL-0030 –Total	124.3	118.3	6.0

Numbers are rounded to the nearest $0.1 million

Funds/Variance Analysis

RL-0030 FY2016 expected funding did not change in February and remains at $124.3 million. The FYSF of $118.3 million includes actions anticipated to meet funding targets.

Critical Path Schedule

Critical path analysis can be provided upon request.

Baseline Change Requests

BCR-030-16-021R0, *100-KR-4 and 100-HR-3 Well Realignments per Optimization Plan Revision*
BCR-030-16-022R0, *Defer Seismic Surveys and 300-FF-5 Stage B Uranium Sequestration Activities*
BCR-PRC-16-030R0, *Implement DOE-0336, Hanford Site Lockout/Tagout Procedure, Revision 2*
BCR-PRC-16-031R0, *Definitization of CO #263 ERDF Leachate Transfer Pipeline Construction*
BCR-PRC-16-034R0, *Undistributed Budget Adjustments March 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. This agreement was in public review through February 12, 2016 (extended from December 11, 2015). Modifications stemming from public comments are being discussed between the agencies. It is anticipated that the milestone changes will be approved in April 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.

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 May 31, 2016 (TPA change control form M-15-13-02).
Milestones Included in Tentative Agreement					
M-015-21A	Submit 200-BP-5 & 200-PO-1 OU FS Report and PP(s) to Ecology	6/30/15		5/3/17	Proposed due date is 6/30/2018
M-015-92A	Submit RFI/CMS & RI/FS Work Plan for 200-EA-1 OU to Ecology	6/30/15		9/30/17	Proposed due date is 9/30/2017
M-015-110B	Submit CMS & FS & PP/Proposed CA Decision for 200-DV-1 OU to Ecology	9/30/15		6/24/19	Proposed due date is 9/30/2023
M-015-38B	Submit Revised FS Report and PP for CW-1, CW-3, & OA-1 to EPA	10/30/15		6/10/19	Proposed due date is 7/31/2023
M-015-91B	Submit FS Report and PP for 200-WA-1 to EPA	12/31/15		7/31/21	Proposed due date is 7/31/2021
M-015-92B	Submit RFI/CMS, RI/FS and PP/CAD for 200-EA-1 to Ecology	12/31/16		11/30/22	Proposed due date is 11/30/22
M-015-93B	Submit RFI/CMS, RI/FS and PP/CAD for 200-SW-2 to Ecology	12/31/16		1/31/23	Proposed due date is 1/31/23
Milestones on Schedule or at Risk					
M-024-58I	Initiate Discussions of Well Commitments	6/1/16		6/1/16	On schedule
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		4/6/20	At risk, unable to accomplish work due to TCP

Number	Title	Due Date	Actual Date	Forecast Date	Status/ Comment
M-016-110-T04	Implement Remedial Actions in all 100A RODs for GW OUs	12/31/16		4/7/16	On schedule

SELF-PERFORMED WORK

The Section H.20 clause entitled, “Self-Performed Work,” is addressed in the Overview.

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)

March 2016
CHPRC-2016-03, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

The project completed 47 of the 200 West Tri-Annual Surveillances and the Beryllium Characterization at 242B/BL. The project also implemented the revised DSA for B-Plant, and finalized 276-BA closure plan to Ecology and prepared for public comment period. In addition, the cold and dark planning for the demolition of high risk facilities at REDOX including 2710S, 2711S, and 2718S continued.

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	2	• 3/15/2016 - Employee was performing surveys in the desert and stepped in a hole causing ankle to roll. Body part affected: Ankle (23952)
Near-Misses	0	0	N/A

KEY ACCOMPLISHMENTS

- Operations/Maintenance:
  - Completed 47 of the 200 West Tri-Annual Surveillances.
  - Completed Beryllium Characterization at 242B/BL.
  - Completed 241-CX Electrical Modifications.
  - Completed Quarterly Chemical Inventory.
  - Completed surveillances on six new waste sites.
  - Completed B-Plant Surveillance.
  - Completed annual air sample flow meter calibrations.
  - Completed annual 291-S temperature, bearing, and sand filter differential pressure gauge calibrations.
- Completed:
  - 83 radiological facility surveillances.
  - 28 PM activities.
- Nuclear Safety:
  - PUREX, Revision 9 DSA Criteria Document released.
  - Implemented REDOX, Revision 5.
  - Submitted REDOX, Revision 6 for internal review.
  - Received RL comments on 224-B DSA, working comment resolution.
  - Implemented B-Plant, Revision 6 DSA.

- 207A South Retention Basin Closure:
  - Awaiting Final Permit Modification and RL direction to backfill.
- Continued Progress on Canyon Stabilization Documents:
  - Finalized 276-BA closure plan to Ecology and prepared for public comment period.
  - Submitted draft B-Plant Engineering Evaluation Cost Analysis (EE/CA) to RL for review.
  - Resolved internal CHPRC review comments on the REDOX EE/CA and PUREX EE/CA.
  - Implemented DSA changes for REDOX to allow for building demolition outside of facility, and limited hazard reduction inside (asbestos, immediate hazards) and exterior building D&D of ancillary structures.
  - Continued development of hazard reduction documents for PUREX and B-Plant exterior demolition target structures (203A tank farm, 276-BA).
  - Submitted updated REDOX Fire Hazards Analysis (FHA) for CHPRC internal review.
- REDOX Roof Replacement:
  - Completed external engineering review and in process of making modifications to the REDOX roof design.
- Demolish REDOX Ancillary Facilities:
  - Continued the cold and dark planning for the demolition of high risk facilities at REDOX including 2710S, 2711S, and 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 March.				
Realized Risks (Risks that are currently impacting project cost/schedule)				
No realized risks for the month of March.				
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)				
No critical risks identified in the month of March.				
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)				
Lifecycle Risk Triggers (Risk could be realized at any point of the project)				

Risk Title	Unmitigated Risk Impacts	Assessment		Comments
		Month	Trend	
RL-0040/WBS-040				
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. / On-Going / 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, and damper repairs). During the month of March, the sampling system failed for the 2nd time within the past year. The problem became evident when the sample media was compromised. Upon investigation, the heat trace failed and the sample line was damaged. This resulted in a compromised sample for February data. An investigation determined the problem as mentioned above. A patch was installed on the existing sample line. Equipment is being procured to replace the damaged sample line. In addition, a design is being developed to provide RL with a conceptual design and estimate for replacing the entire PUREX stack sample system. This data will allow RL to provide PRC direction on how to proceed.
Unassigned Risks (Pending ownership of identified risks/opportunities)				
No unassigned risks identified in the month of March.				

PROJECT BASELINE PERFORMANCE
Current Month
($M)

WBS 040/ RL-0040 Nuclear Facility D&D	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance ($)	Schedule Variance (%)	Cost Variance ($)	Cost Variance (%)
Total	2.5	1.5	1.6	(1.0)	-40.4%	(0.2)	-11.0%
Numbers are rounded to the nearest $0.1 million							

CM Schedule Performance: (-$1.0M/-40.4%)
The current month unfavorable schedule variance is primarily due to limited resource availability for the Increased Planning and Increased Frequency PMs work scope. In addition, there is a delay in completing Cold and Dark for the Demo of REDOX High Risk Facilities 2711S, 2710S, and 2718S due to age of buildings and the lack of drawings to review and begin demo. Delays with the 207A removal continue based upon waiting for approval from Ecology on the Closure Report.

CM Cost Performance: (-$0.2M/-11.0%)
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	412.2	410.0	378.3	(2.2)	-0.5%	31.7	7.7%	469.1	435.1	34.1

Numbers are rounded to the nearest $0.1 million

CTD Schedule Performance: (-$2.2M/-0.5%)

The schedule variance is within reporting thresholds.

CTD Cost Performance: (+31.7M/+7.7%)

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 passback, 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 ($4.3 million), U Plant completion of the sampling of Cell 30 with less resources than planned ($1.1 million), Program Management utilizing less resources ($3.6 million), Emergency Response activities ($0.6 million) and an underrun in overhead allocations ($2.1 million).

Variance at Completion (+$34.1M/+7.3%)

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 040/RL-0040 Nuclear Facility D&D	FY2016 Projected Funding	FY2016 Spending Forecast	FY2016 Spend Variance
Spending Forecast	24.1	21.9	2.3
Incremental Scope Pending Change Management	0.0	0.2	(0.2)
RL-0040 – Total	24.1	22.0	2.1

Numbers are rounded to the nearest $0.1 million.

Funds/Variance Analysis
Project funding is unchanged from last month. The FYSF change in FY2016 increased slightly from $21.9 million to $22 million.

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

Baseline Change Requests

BCR-040-16-007R0, *Convert High Risk Facilities Planning Package to Work Package*
BCR-040-16-008R0, *Convert Canyon Risk Mitigation Planning Package to Work Package*
BCR-PRC-16-030R0, *Implement DOE-0336, Hanford Site Lockout/Tagout Procedure, Revision 2*
BCR-PRC-16-034R0, *Undistributed Budget Adjustments March 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 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-016-250	Develop three-year rolling prioritized scheduled to implement waste site removal actions	3/31/2016		3/31/2016	Complete pending Ecology concurrence
M-037-11	Complete Closure Requirements for 216-B-3 and 216-S-10	9/30/2016		9/30/2016	At Risk (being renegotiated to September 20, 2021 as part of tentative agreement).

SELF-PERFORMED WORK

The Section H.20 clause, entitled “Self-Performed Work,” is addressed in the Overview.

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)

March 2016
CHPRC-2016-03, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

The project completed data analysis of the 100K Characterization Wells and continued progress on the 165 KE Asbestos Abatement, which included beginning of glovebag removal in basement water tunnel area and beginning Cement Asbestos Board (CAB) removal in the hallway. The project also conducted third round of in-process sampling on 100-K-101 waste site and overburden stockpiles and submitted the RCCC Scope Transition Plan to RL.

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	5	N/A
Near-Misses	0	0	N/A

KEY ACCOMPLISHMENTS

- 100K Characterization Wells:
  - Completed data analysis.
- 165 KE Asbestos Abatement:
  - Began glovebag removal in basement water tunnel area.
  - Began CAB removal in the main hallway.
  - Completed spill cleanup in the “Boiler Room”.
  - Completed biological cleanup.
  - Completed shower trailer chlorination process and ready for use.
- Area AB waste site remediation:
  - Conducted third round of in-process sampling on 100-K-101 waste site and overburden stockpiles.
  - Continued remediating 100-K-101.
- Completed 18 Radiological Surveillances.
- Submitted change proposals for the following to RL in response to CO #304, Initiate Transition of River Corridor Closure Contract (RCCC) Scope Activities into the Plateau Remediation Contract:
  - 324 building transfer and Min Safe.
  - ERDF transition and Operations.

- o 300-296 waste site Design Review.
- o Implement RCCC Transition.

MAJOR ISSUES

Issue:
The current FY2016 RL-0041 baseline budget and funding to perform 100K AB Area waste site remediation is not sufficient to complete the entire scope. Funding is currently adequate to complete excavation of the next 10,000 tons. If additional funding is not received, work will stop prior to completion of the scope.

Corrective Action:
Work with RL to obtain agreement on the path forward for continued progress of AB waste site remediation, including increased funding and proposed budget changes.

Status:
Discussions continue with RL regarding continued progress and additional funds needed. BCR-041C-16-013R0, *Convert Future Waste Remediation Tonnage to AB Waste Site* was implemented to increase the AB Waste Site BCWS and allow for disposal of additional contaminated tons to ERDF up to the 100K parameter plus 10 percent or 447,803 tons.

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 March.				
Realized Risks (Risks that are currently impacting project cost/schedule)				
No realized risks for the month of March.				
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)				
No critical risks identified in the month of March.				
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:** In the month of March, BCR-041C-16-013R0, Convert Future Waste Remediation Tonnage to AB Waste Site was implemented to increase the AB Waste Site BCWS and allow for disposal of additional contaminated tons to ERDF up to the 100K parameter plus 10 percent or 447,803 tons. A contract modification will be prepared to add any tonnage needed to complete the AB area that exceeds 407,094 +10 percent value in tons. Discussions continue with RL regarding the need for additional funds later in the fiscal year that will be required to complete the AB Area. Increased communication/interface continues between the Project and ERDF to obtain delivery of containers needed to achieve planned production rates for waste site remediation needed containers.

Unassigned Risks (Pending ownership of identified risks/opportunities)

No unassigned risks identified in the month of March.

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	3.8	6.3	3.1	2.5	64.4%	3.2	51.3%

Numbers are rounded to the nearest $0.1 million

CM Schedule Performance (+$2.5M/+64.4%)

The favorable schedule variance for the current month is primarily due to accelerating AB Waste Site excavation activities. BCR-041C-16-013R0, *Convert Future Waste Remediation Tonnage to AB Waste Site*, was implemented, which removes schedule activities in 100-K Waste Sites Area AF, AG and AM and adds activities to the AB Area to incorporate the increased disposed waste tonnage.

CM Cost Performance (+$3.2M/+51.3%)

The favorable cost variance for the current month is primarily due to Area AB Waste Site excavation activities. BCR-041C-16-013R0, *Convert Future Waste Remediation Tonnage to AB Waste Site*, was implemented to reallocate the budget and incorporate the increased ERDF disposal for AB Area waste tonnage. This enabled earned value to be claimed from prior month activities in which actual costs were incurred for excavation/disposal activities.

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	326.3	328.5	299.3	2.2	0.7%	29.2	8.9%	404.2	371.6	32.6

Numbers are rounded to the nearest $0.1 million

CTD Schedule Performance (+$2.2M/+0.7%)

The schedule variance is within reporting thresholds.

CTD Cost Performance (+$29.2M/+8.9%)

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 (+$32.6M/+8.1%)

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)

	FY2016		
WBS 041/RL-0041 Nuclear Facility D&D – River Corridor	Projected Funding	Spending Forecast	Spend Variance
Spending Forecast	19.1	21.3	(2.2)
Incremental Scope Pending Change Management	0	19.5	(19.5)
RL-0041 - Total	19.1	40.8	(21.7)

Numbers are rounded to the nearest $0.1 million.

Funds/Variance Analysis:

The RL-0041 project funding did not change from the $19.1 million. The FYSF increased from $23.8 million to $40.8 million primarily as a result of adding FY2016 RCCC scope to be performed by CHPRC to the spend forecast.

Critical Path Schedule

Critical Path Analysis can be provided upon request.

Baseline Change Requests

BCR-041C-16-013R0, *Convert Future Waste Remediation Tonnage to AB Waste Site*

MILESTONE STATUS

None currently identified.

SELF-PERFORMED WORK

The Section H.20 clause, entitled "Self-Performed Work," is addressed in the Overview.

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)

March 2016
CHPRC-2016-03, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

The Fast Flux Test Facility (FFTF) is being maintained 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.
- Completed repairs on the altitude valves for the T-58 & T-87 Water Tanks.
- Performed Fire Systems PMs at 402 and 405.
- Completed:
  - 30 PM activities.
  - Four operational surveillances.
  - Four 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 March.				
Realized Risks (Risks that are currently impacting project cost/schedule)				
No realized risks for the month of March.				
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)				
No critical risks identified in the month of March.				
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)				
No high risk threat value risks identified in the month of March.				
Unassigned Risks (Pending ownership of identified risks/opportunities)				
No unassigned risks identified in the month of March.				

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)	-2.6%	0.1	27.5%

Numbers are rounded to the nearest $0.1M

CM Schedule Performance: (-$0.0M/-2.6%)
The schedule variance is within reporting thresholds.

CM Cost Performance: (+$0.1M/+27.5%)
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	21.1	21.1	17.2	0.0	0.1%	3.9	18.5%	26.5	22.9	3.6

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 (+$3.9M/+18.5%)
The cost variance reflects efficient use of resources to support deactivation activities.

Variance at Completion (+$3.6M/+13.6%)
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	1.8	1.4
Incremental Scope Pending Change Management	0	0	0
RL-0042 – Total	3.2	1.8	1.4

Numbers are rounded to the nearest $0.1 million

Funds Analysis
Projected Funding and FYSF remain unchanged from last month.

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.

SELF-PERFORMED WORK

The Section H.20 clause, entitled “Self-Performed Work,” is addressed in the Overview.

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

March 2016
CHPRC-2016-03, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

CLASSIFICATION (When Filled In)

INTEGRATED PROGRAM MANAGEMENT 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 / 02 / 22
b. LOCATION (Address and ZIP Code): Richland, WA	b. NUMBER: RL14788	b. PHASE:	b. TO (YYYYMMDD): 2016 / 03 / 27
	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	20,043	239,339	5,801,234	5,684,303	5,801,234	5,684,303	

6. ESTIMATED COST AT COMPLETION

7. AUTHORIZED CONTRACTOR REPRESENTATIVE

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

b. TITLE: Prime Contract Manager

c. SIGNATURE:

d. DATE SIGNED (YYYYMMDD): 2016 / 03 / 27

	MANAGEMENT ESTIMATE AT COMPLETION (1)	CONTRACT BUDGET BASE (2)	VARIANCE (3)
a. BEST CASE	5,349,141		
b. WORST CASE	5,459,381		
c. MOST LIKELY	5,444,964	5,581,938	136,974

8. PERFORMANCE DATA

CAPN.PBS ITEM (1)	CURRENT PERIOD: BUDGETED COST WORK SCHEDULED (2)	BUDGETED COST WORK PERFORMED (3)	ACTUAL COST WORK PERFORMED (4)	VARIANCE SCHEDULE (5)	VARIANCE COST (6)	CUMULATIVE TO DATE: BUDGETED COST WORK SCHEDULED (7)	BUDGETED COST WORK PERFORMED (8)	ACTUAL COST WORK PERFORMED (9)	VARIANCE SCHEDULE (10)	VARIANCE COST (11)	REPROGRAMMING ADJUSTMENTS: COST VARIANCE (12a)	SCHEDULE VARIANCE (12b)	BUDGET (13)	AT COMPLETION: BUDGETED (14)	ESTIMATED (15)	VARIANCE (16)
RL-0011 Nuclear Mat Stab & Disp PFP	11,613	8,613	9,593	(3,000)	(979)	922,034	879,172	889,144	(42,863)	(9,972)	0	0	0	971,830	1,022,811	(50,981)
RL-0012 SNF Stabilization & Disp	6,880	7,458	7,214	578	244	561,348	562,758	564,121	1,410	(1,363)	0	0	0	720,034	716,856	3,178
RL-0013 Solid Waste Stab & Disp	12,636	12,188	9,734	(447)	2,454	1,037,950	1,036,745	971,689	(1,205)	65,056	0	0	0	1,331,823	1,255,928	75,895
RL-0030 Soil &Water Rem-Grndwtr/Vadose	14,328	12,315	10,870	(2,014)	1,445	1,219,413	1,203,520	1,181,179	(15,892)	22,341	0	0	0	1,554,213	1,515,767	38,445
RL-0040 Nuc Fac D&D - Remainder Hanfrd	2,461	1,467	1,628	(994)	(162)	412,214	409,982	378,288	(2,231)	31,694	0	0	0	468,988	434,937	34,050
RL-0041 Nuc Fac D&D - RC Closure Proj	3,822	6,282	3,057	2,460	3,225	326,295	328,512	299,288	2,216	29,223	0	0	0	398,788	366,174	32,614
RL-0042 Nuc Fac D&D - FFTF Proj	201	196	142	(5)	54	21,081	21,108	17,200	26	3,908	0	0	0	26,468	22,860	3,608
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														13,808	13,808	0
e. SUBTOTAL	51,941	48,519	42,238	(3,422)	6,281	4,500,336	4,441,797	4,300,909	(58,539)	140,887	0	0	0	5,485,951	5,349,141	136,810
f. MANAGEMENT RESERVE														95,823		
g. TOTAL	51,941	48,519	42,238	(3,422)	6,281	4,500,336	4,441,797	4,300,909	(58,539)	140,887	0	0	0	5,581,774		

9. RECONCILIATION TO CONTRACT BUDGET BASELINE

a. VARIANCE ADJUSTMENT																
b. TOTAL CONTRACT VARIANCE									(58,539)	140,887				5,581,774	5,349,141	232,633

CLASSIFICATION (When Filled In)

CLASSIFICATION (When Filled In)

INTEGRATED 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 / 02 / 22
b. LOCATION (Address and ZIP Code) Richland, WA	b. NUMBER RL14788		b. PHASE	b. TO *(YYYYMMDD)* 2016 / 03 / 27
	c. TYPE CPAF	d. SHARE RATIO	c. EVMS ACCEPTANCE X YES *(YYYYMMDD)* 2009 / 09 / 18	

5. PERFORMANCE DATA

WBS.Resp Org Group WBS.Resp Org Code ITEM (1)	CURRENT PERIOD BUDGETED COST WORK SCHEDULED (2)	 WORK PERFORMED (3)	ACTUAL COST WORK PERFORMED (4)	VARIANCE SCHEDULE (5)	 COST (6)	CUMULATIVE TO DATE BUDGETED COST WORK SCHEDULED (7)	 WORK PERFORMED (8)	ACTUAL COST WORK PERFORMED (9)	VARIANCE SCHEDULE (10)	 COST (11)	REPROGRAMMING ADJUSTMENTS COST VARIANCE (12a)	 SCHEDULE VARIANCE (12b)	 BUDGET (13)	AT COMPLETION BUDGETED (14)	 ESTIMATED (15)	 VARIANCE (16)
34 - Env Program & Strategic Plng	886	725	797	(161)	(72)	60,921	60,382	56,242	550	4,140	0	0	0	82,402	80,445	1,956
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	290	290	178	0	112	3,549	3,549	1,864	0	1,685	0	0	0	8,426	6,271	2,155
3B - PFP Closure Project	11,548	8,548	9,577	2,578	6,941	835,125	792,262	809,854	(42,863)	(17,592)	0	0	0	884,571	943,425	(58,853)
3C - Waste & Fuels Management Project	12,595	12,148	9,689	2,480	4,077	929,837	928,632	863,767	(1,205)	64,865	0	0	0	1,222,975	1,147,279	75,697
3D - Soil & Groundwater Remediation	13,371	11,518	10,021	(559)	1,581	1,059,271	1,043,917	1,019,427	(15,354)	24,490	0	0	0	1,371,022	1,328,308	42,714
3G - K Basin Oper & Plateau Remediation Project	13,252	15,290	11,977	563	(1,739)	1,139,109	1,140,530	1,101,267	1,421	39,263	0	0	0	1,430,223	1,381,117	49,106
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														13,808	13,808	0
e. SUBTOTAL *(Performance Measurement Baseline)*	51,941	48,519	42,238	(3,422)	6,281	4,500,336	4,441,797	4,300,909	(58,539)	140,887	0	0	0	5,485,951	5,349,141	136,810
f. MANAGEMENT RESERVE														95,823		
g. TOTAL	51,941	48,519	42,238	(3,422)	6,281	4,500,336	4,441,797	4,300,909	(58,539)	140,887	0	0	0	5,581,774		

CONTRACT PERFORMANCE REPORT FORMAT 3 - BASELINE		DOLLARS IN THOUSANDS	Form Approved OMB No. 0704-0188
1. CONTRACTOR CH2M HILL Plateau Remediation Company b. LOCATION: Richland, WA	2. CONTRACT a. NAME: Plateau Remediation Contract b. NUMBER: RL14788 c. TYPE: CPAF d. SHARE RATIO:	3. PROGRAM a. NAME: Plateau Remediation Contract b. PHASE c. EVMS ACCEPTANCE NO YES X 9/18/2009	4. REPORT PERIOD a. FROM: 2016/02/22 b. TO: 2016/03/27

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	$20,043	$5,581,938	$5,581,774	$164

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 Apr-16	+2 May-16	+3 Jun-16	+4 Jul-16	+5 Aug-16	+6 Sep-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)	**4,448,395**	**47,788**	**36,406**	**33,229**	**31,631**	**41,659**	**32,414**	**46,973**	**3,391,477**	**391,653**	**471,323**	**464,041**	**399,784**	**348,446**	**15,195**	**5,481,919**
b. BASELINE CHANGES AUTH DURING REPORT PERIOD																
BCR-012-16-008R0 - Establish T Plant Sludge Storage Mod GPP												**(739)**	**(81)**	**(1,516)**		**(2,337)**
BCR-012-16-011R0 - Incorporate CO #301, 100-KW Sand Filter Media Remediation												**71**				**71**
BCR-012C-16-012R0 - RL-012 Move Project Management to TEC												**0**				**0**
BCR-013-16-017R0 - Definitization of CO #282, Burial Ground CAHCAs to URMAs												**569**				**569**
BCR-013-16-019R0 - Incorporate CO #269, WESF K3 Ventilation and Stabilization Project, Scope												**6,346**				**6,346**
BCR-030-16-021R0 - 100-KR-4 and 100-HR-3 Well Realignments per Optimization Plan Revision												**3**	**(3)**			**0**
BCR-030-16-022R0 - Defer Seismic Surveys and 300-FF-5 Stage B Uranium Sequestration Activities												**(7,939)**	**7,458**	**482**		**0**
BCR-040-16-007R0 - Convert High Risk Facilities Planning Package to Work Package												**0**				**0**
BCR-040-16-008R0 - Convert Canyon Risk Mitigation Planning Package to Work Package												**0**				**0**
BCR-041C-16-013R0 - Convert Future Waste Remediation Tonnage to AB Waste Site												**0**				**0**
BCR-PRC-16-030R0 - Implement DOE-0336, Hanford Site LockoutTagout Procedure, Revision 2												**107**				**107**
BCR-PRC-16-031R0 - Definitization of CO #263 ERDF Leachate Transfer Pipeline Construction												**528**	**67**	**68**		**663**
BCR-PRC-16-034R0 - Undistributed Budget Adjustments March 2016															**(1,387)**	**(1,387)**
c. PM BASELINE (END OF PERIOD)	**4,500,336**	**51,941**	**36,969**	**33,815**	**29,954**	**40,406**	**31,572**	**44,387**	**3,391,477**	**391,653**	**471,323**	**462,986**	**407,224**	**347,480**	**13,808**	**5,485,951**
7. MANAGEMENT RESERVE																**95,823**
8. TOTAL																**5,581,774**

CLASSIFICATION (When Filled In)

CONTRACT PERFORMANCE REPORT

FORMAT 4 - STAFFING

FORM APPROVED
OMB No. 0704-0188

1. CONTRACTOR	2. CONTRACT		3. PROGRAM	4. REPORT PERIOD
a. NAME CH2M HILL Plateau Remediation Company	a. NAME Plateau Remediation Contract		a. NAME Plateau Remediation Contract	a. FROM *(YYYYMMDD)* 2016 / 02 / 22
b. LOCATION (Address and ZIP Code) Richland, WA	b. NUMBER RL14788		b. PHASE	b. TO *(YYYYMMDD)* 2016 / 03 / 27
	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)*								AT COMPLETION
			SIX MONTH FORECAST BY MONTH *(Enter names of months)*								
			+1 APR 2016	+2 MAY 2016	+3 JUN 2016	+4 JUL 2016	+5 AUG 2016	+6 SEP 2016	FY2017	FY2018	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(11)	(12)	(13)
300 - Office of the President	19	564	6	6	6	5	5	5	63	63	724
303 - Internal Audit	5	390	5	5	5	5	5	5	60	60	540
304 - General Counsel	5	368	4	4	4	5	5	5	60	60	515
31 - Communications	9	866	9	9	9	9	9	9	108	108	1,136
32 - Safety Health Security & Quality	52	6,198	59	59	59	58	58	58	774	775	8,099
34 - Env Program & Strategic Plng	43	4,083	43	43	43	42	42	42	604	600	5,545
35 - Business Services	55	6,590	64	62	62	63	63	63	752	761	8,481
36 - Prime Contract & Proj Integr	50	3,966	57	57	57	56	56	56	652	643	5,600
38 - Project Technical Services	27	5,003	34	33	33	33	33	33	433	427	6,062
3B - PFP Closure Project	354	43,308	354	382	389	341	341	341	2,023	-	47,478
3C - Waste & Fuels Management Project	358	43,654	373	347	301	290	290	290	3,687	3,607	52,839
3D - Soil & Groundwater Remediation	302	30,855	291	289	294	284	284	284	3,612	3,820	40,014
3G - KBO&PR Project	323	41,421	317	330	351	343	343	343	3,941	3,331	50,720
Grand Totals	1,603	187,265	1,616	1,627	1,613	1,536	1,536	1,536	16,769	14,255	227,753

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)** **2016/2/22**
b. LOCATION (Address and ZIP Code) Richland, WA 99354	**b. NUMBER** DE-AC06-08RL14788		**b. PHASE** Base	**b. TO (YYYY/MM/DD)** **2016/3/27**
	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:	51,941	48,519	42,238	(3,422)	-6.6%	6,281	12.9%	0.93	1.15
Cumulative:	4,500,336	4,441,797	4,300,910	(58,539)	-1.3%	140,887	3.2%	0.99	1.03
	BAC	EAC	VAC in $	VAC in %	TCPI				
At Complete:	5,485,951	5,349,141	136,810	2.5%	1.00				

Explanation of Variance/Description of Problem:

Current Period Schedule Variance: The current month unfavorable schedule variance is primarily due to RL-0011, PFP Management directed safety pause. Progress was stopped on intrusive planned work while the project re-evaluated safety practices and procedures. This resulted in minimal planned work being performed. Crews then resumed filter box and transfer line removal. Also, RL-0030 drilling campaigns in 200-PO-1 and 200-UP-1 Operable Units have been deferred to align with priority list and available funding. Revised cultural review requirements for 100-HR-3 and 100-KR-4 well realignment activities have caused the FY2016 construction work to be re-sequenced for later in the year. The variances for RL-0011 and RL-0030 are partially offset by RL-0041 accelerating AB Waste Site excavation activities.

Current Period Cost Variance: The current month favorable cost variance is due to RL-0013, BCR-013-16-019R0, *Incorporate CO #269, WESF K3 Ventilation and Stabilization Project Scope*. This BCR incorporates budget for prior periods and earned value in the current period. Also contributing to the positive variance is RL-0041, implementation of BCR-041C-16-013R0, *Convert Future Waste Remediation Tonnage to AB Waste Site*, to reallocate the budget and incorporate the increased ERDF disposal for AB Area waste tonnage.

Cumulative Schedule Variance: The variance is within reporting thresholds.

Cumulative Cost Variance: The variance is within reporting thresholds.

Impact:

Current Period Schedule: For RL-0011, if schedule efficiencies are not realized through characterization efforts, additional resources will be required to complete the work scope. This will increase the ETC and could possibly delay the ready for demolition milestone. 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: For PFP, the negative schedule impact from the safety pause, recovery actions, and revising the approach to remaining readiness for demolition and demolition work cannot be fully recovered. The project is continuing to plan and implement a drain line grouting concept that will provide acceleration of efficiencies to remove the drain lines in the basement of 234-5Z. As the PFP Project continues to make progress on the behind schedule critical path work scope being performed, other potential efficiencies will continue to be evaluated and implemented to recover schedule delays.

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 $136.8 million with $93.5 million of Management Reserve (MR) for a total positive variance of $232.6 million. For March, the project was 6.6 percent behind schedule and 12.9 percent under planned cost. CTD, the project was 1.3 percent behind schedule and 3.2 percent under planned cost.

There were five significant BCRs in the period that impacted the PMB; BCR-013-16-019R0, *Incorporate CO #269, WESF K3 Ventilation and Stabilization Project Scope*; BCR-013-16-017R0 - *Definitization of CO #282, Burial Ground CA/HCAs to URMAs*; BCR-012-16-008R0 - *Establish T Plant Sludge Storage Mod GPP; Definitization of CO #263, ERDF Leachate Transfer Pipeline Construction and Operations*; BCR-PRC-16-031R0 - Definitization of CO #263, ERDF Leachate Transfer Pipeline Construction and Operations; BCR-PRC-16-030R0 - *Implementation of DOE-0336, Hanford Site Lockout/Tagout Procedure, Revision 2.* Additionally, revisions were made to Undistributed Budget (UB) via BCR-PRC-16-034R0 - *Undistributed Budget Adjustments March 2016* (details of changes listed below).

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

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 +$136.8 million, +2.5% and is within reporting thresholds.

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

CPs - In Process		
	Total Authorized Unpriced Work	**$20,043**
Approved Adjustments to Contract Price (not reflected in B.4-1 Table)		
	Total Negotiated Cost Changes	**-**
	Grand Total Adjustments	**$20,043**

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

MR Utilization

BCR Number	Title	Fiscal Year	MR
BCR-012-16-008R0	*Establish T Plant Sludge Storage Modifications GPP*	2015 - 2018	$ 2,337K

Overall, there was increase of $2,337K to Management Reserve (MR) during March.

Fee Activity

BCR Number	Title	Fiscal Year	Fee
BCR-013-16-017R0	*Definitization of CO #282, Burial Ground CAHCAs to URMAs*	2015 - 2018	$9K
BCR-PRC-16-030R0	*Implementation of DOE-0336, Hanford Site Lockout/Tagout Procedure, Revision 2*	2015 - 2018	$5K
BCR-PRC-16-031R0	*Definitization of CO #263 ERDF Leachate Transfer Pipeline Construction and Operations*	2015 - 2018	$125K

Overall, there was an increase of $139K to Fee during March.

UB Activity

BCR Number	Title	Fiscal Year	UB
BCR-PRC-16-034R0	*Undistributed Budget Adjustments March 2016*	2015 - 2018	$-1,387K

The Undistributed Budget decreased by $1,387K for an overall increase to the PMB of $4,032K during March.

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	4/19/2016		

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
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D. A. Millikin
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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

March 2016
CHPRC-2016-03, 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*	20%
16-EMS-ADMIN-OB3-T1	Energy and natural resource conservation.	Establish electronic signature system for contracts using Adobe Acrobat.	9/30/16	60%
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	50%
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	42%

*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	7	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 March.
  - o Occupational Safety and Industrial Hygiene (OS&IH) accomplishments:
    - Continued support of site-wide standards committees and site-wide steering committees. DOE-0346, *Hanford Site Fall Protection Program*, is pending implementation of Revision 1A. DOE-0344, *Hanford Site Excavation, Trenching and Shoring Procedure*, is being routed for approval signatures; implementation pending. DOE-0352, *Hanford Site Respiratory Protection Program)* is going through the revision process at this time.
    - Continued implementation of the Chronic Beryllium Disease Prevention Program (CBDPP) Revision 2A. Beryllium assessments have been completed on 1176 CHPRC facilities. Beryllium characterizations have been completed on 1126 CHPRC facilities.
    - Continued to provide support to the PFP for respiratory protection issues.
    - Continued support to projects on oversight of confined space work activities.
    - Support to projects on Fall Protection Program requirements and Fall Protection Work Permit (FPWP) reviews.
    - 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.
    - Provided additional confined space training/briefings for KBO&PR, and PTS, and provided support to projects to approve additional competent/qualified personnel for DOE-0360 Revision 1, *Confined Space*.
    - Provided support to projects for ergonomic evaluation process.
    - Provided support to PFP, W&FMP, PTS, and KBO&PR for asbestos characterization activities.
    - Provided support to W&FMP and PTS at WESF for lead removal of surfacing material.
    - Provided support to PFP for beryllium characterization activities.
    - Continued support to PTS for the development of an approved FPWP for in-basin work.
    - Provided support to W&FMP in the development of FPWP for WESF ventilation activities.

- Provided planning support for 2016 Safety EXPO.

o Radiological Control accomplishments:
- Continued project support for clearance survey plan preparation, review, and approval.
- Conducted fourth quarter 2015 Company ALARA meeting.
- Conducted quarterly RadCon Management meeting.
- Continued Survey Simple upgrade efforts with implementation of Revision 5.
- Updated Survey Simple software QA documentation.
- Continued oversight at PFP for specific high hazard activities (PRF Canyon, In-Situ activities).
- Continued support for project Hazard Review Boards and In-Progress ALARA Reviews.
- Continued support of RCCC transition planning, including blue sheeting of all pertinent RadCon procedures.

o Nuclear Operations Support & Compliance accomplishments:
- Annual Update of HNF-13830, *Documented Safety Analysis for the Reduction-Oxidation Facility*, was implemented.
- Annual Update of HNF-14804, *B Plant Documented Safety Analysis*, was implemented.
- Letter, CHPRC-1600653, dated March 14, 2016, *Documentation of Triennial Review of the PUREX Emergency Planning Hazards Assessment, CP-13467, Revision 3, the 224-B Facility Emergency Planning Hazards Assessment, CP-12757, Revision 2, and the B Plant Emergency Planning Hazards Assessment, CP-13466, Revision 2*.

- Safety Basis documents and letters transmitted to RL include:
  - Letter, CHPRC-1504411.3, dated March 21, 2016, *The Safety Design Strategy Revision 7 for the Sludge Treatment Project Engineered Container Retrieval and Transfer System for RL Approval*.
- Document approval received from RL:
  - Letter, 16-NSD-0033_RL REISSUE, dated March 3, 2016, *Approval of CHPRC Submittal of the PDSA for the Sludge Treatment Project (STP) ECRTS Revision 2*.
  - Letter, 16-NSD-0030_RL, dated March 21, 2016, *Transmittal of Surveillance Report S-16-NSD-PRC-002, Implementation of Revision 12 of the Plutonium Finishing Plant (PFP) Safety Basis.*
  - Letter, 16-NSD-0027_RL, dated March 21, 2016, *Transmittal of the Annual update to "Solid Waste Operations Complex Master Documented Safety Analysis," HNF-14741, Revision 11, "Technical Safety Requirements for the Solid Waste Operations Complex," HNF-15280, Revision 11, and Unreviewed Safety Question (USQ) Evaluation Summary*. Note: DOE letter contained comments that must be closed prior to approval and requested resubmittal within 120 days.
- Transportation Safety
  - Completed SHS&Q-2016-WSA-16914, *S&GRP Packaging Procurement.*
  - Completed SHS&Q-2016-WSA-16442, *Implementation of Special Packaging Authorization (SPA) Revised in Fiscal Year (FY) 2015.*
  - Authorization of CE-SPA-PNNL-2015-001, Revision 15, *PNNL Debris.*
  - Completion of CHPRC-02861, Revision 0, *Internal Load Securement for Waste Package 75DMA16F3 Inside of a General Purpose IP-1 Overpack Container*.

o Contractor Assurance Regulatory Reporting (CARR) accomplishments:
- 232 Condition Reports (CRs) were screened:
  - Three Adverse issues identified.
  - 117 Track until Fixed (TUF) issues identified.
  - 43 Trend Only (TO) items identified.

  - 66 Opportunity for Improvement (OFI) items identified.
  - Three Screened Out.
- 256 CRs administratively closed.
- 420 CR actions administratively closed.
- Provided Course 600082, *CHPRC Responsible Manager Training – Issues Management*, to nine employees.
- Transmitted CHPRC-1601448, "Contract Number DE-AC06-08RL14788 - CHPRC Quarterly Performance Analysis Report, Second Quarter FY2016."
- Continued to provide Issues Management support to PFP.
- Completed Root Cause Evaluation and submitted final Occurrence Reporting and Processing System (ORPS) report for EM-RL--CPRC-PFP-2015-0013, *Unanticipated Chemical Reaction during Waste Load-Out*.
- Transmitted Notification/Final ORPS report for EM-RL--CPRC-PFP-2016-0003, *Management Concern – Small Portion of Plastic Pipe Dislodged/Fell to Floor*.
- Provided support and coordination for the Bi-Monthly a conference call with the DNFSB to discuss the PFP demolition planning and readiness assessment status.
- Provided support and coordination for a conference call with the DNFSB to review the current safety posture of the 202-S (REDOX) and 222-S facilities for a potential seismically-induced collapse of the REDOX facility roof and subsequent radiological release.
- Provided support and coordination for a conference call with the DNFSB to discuss follow-up questions from the January 19, 2016 conference call.
- Twelve documents were provided in response to DNFSB requests for information.
- One external Lessons Learned and one internal Lessons Learned were submitted to OPEXShare in March 2016: LL-2016-HNF-0004, *Contaminated Respiratory Equipment Released to On-site and Off-site Locations* (external); and LL-2016-PFP-0002, *Electrical Shock during Routine Panel Bulb Replacement* (internal).

o Performance Oversight, Assessment, and Quality Assurance accomplishments:
- Initiated preliminary planning for the 10 CFR 835, Subpart C, "Standards for Internal and External Exposure," surveillance activity scheduled for April through June.
- Provided specific mentoring and feedback to assessors and responsible managers that conducted management assessments.
- Scheduled Assessment Planning Workshop for April 13, 2016.
- Continued work on the revision to the Integrated Safety Management System Description.
- Continued to support the S&GRP organization in evaluation of the calibration methods used for Geophysical Logging equipment.
- Performed factual accuracy review of the EM-43/RL audit of the K-Annex/ECRTS project.
- The Quality Systems organization completed fifteen surveillances covering the areas of material and test control, Quality Assurance program implementation and verification of corrective actions.
- Supported planning activities for PFP Readiness Assessment.
- Supported PFP Evaluation of Level B suit inspection deficiencies.
- Completed planning for SHSQ-2016-NSPEB-13327, third quarter Nuclear Safety Performance Evaluation Board (NSPEB) review of STP/CPSM/100K.
- Completed SHSQ-2016-SU RV-16899, *Required Assessment Activities from PRC Documents.*
- Provided assistance to Emergency Preparedness reviewing drill packages, observing drills, providing feedback and reviewing PRC-STD-TQ-40393, *Emergency Preparedness and Response Organization Training Program Description.*

- Fire Protection accomplishments:
  - Fire Protection Engineering Team assignments were adjusted in March to respond to changes in Project activities.
  - A teleconference was held with DNFSB regarding the W-130 Project and there is still one open item remains regarding the thermal conductance of the duct system cross-section based upon insulation. Two other items will be carried forward into the FHA when the project is nearing completion.
  - Two qualified Fire Protection Engineers (T. Kraft and C. Allen) successfully completed their oral boards with HFMO and have been delegated as Deputy Fire Marshals.
  - Issues with Inspection, Testing, and Maintenance continue to pose significant problems. An OA identified that a number of non-nuclear facilities had missed IT&M tasks without following the process for extensions or going beyond the acceptable extension periods.
  - TSR Surveillances:
    - SWOC:
      - 2X-16-00319/S, LLBG 3 Month Combustible Fire Surveillance.
      - W1-16-00334/S, Quarterly WRAP Combustible Fire Surveillance.
      - 2T-16-00310/A, T Plant Annual FHA KA Assumption Assessment.
    - PFP:
      - ZAP-000-029, Checklist 2, Monthly 1 (TSR).
      - ZAP-000-029, Checklist 3, Bi-Weekly/Monthly 3 (TSR).
      - ZAP-000-029, Checklist 4, Weekly Fire Loading 4 (TSR).
      - FS Supply Valves 1 (TSR).
    - Facility Fire Protection Assessments:
      - The Triennial Fire Protection Self-Assessment is complete and CRs have been initiated. There were 9 Findings and 23 Opportunities for Improvement, the Assessment also identified 5 Good Practices.
      - B Plant and 224B Facility Fire Protection Assessment are complete.
    - Fire Hazard Analysis (FHA):
      - The 105KW Complex FHA is in development.
      - The T Plant FHA has been submitted to HFMO for review and approval. Coordination with the DSA/TSR documents is in progress.
      - The REDOX FHA is in Technical Editing and will be out for internal review when complete.
      - A new FHA for 241-Z-361 and 216-Z-9 out for internal review.
      - The PUREX FHA is in development.
      - 241-Z-361 and 216-Z-9 FHA will be out for review in March.
      - The SWOC FHA has to be modified to show the removal of T Plant. The publication of the modification will occur at the time the T Plant FHA is published.

- 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 and is being routed for signature.
  - **Action:** Beryllium (Be) facility assessments and characterization continues as scheduled. Beryllium facility assessments have been completed on 1176 CHPRC facilities. RCCC work scope is being reviewed for Be implementation and potential concerns for identification 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:** Continued to 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 have identified and are implementing additional actions, which are resulting in reducing injuries and first aids.
- **Issue:** PFP Support.
- **Status:** Supporting PFP with additional OS&IH personnel and additional RadCon personnel, from the SHS&Q Central group.
- **Action:** Supporting PFP initiatives, supplied breathing air system issues; radiological & safety oversight, clearance survey plan upgrades, DSA Revision 13 implementation, ACL extensions, and J plan waste path forward.
- **Issue:** Fire Protection program weaknesses.
- **Status:** Program weaknesses continue to be identified and corrective actions are underway to improve program. Additional personnel resources have been hired to support projects.
- **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. Recent RL concerns regarding slow improvements and continuing issues with MSA ITM have been raised by RL and are being addressed. Working with CHPRC projects to schedule and perform back log of facility fire protection assessments.

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

- **Compliance Status**
  - Ecology began a completeness review of the CWC, T Plant, and Low Level Burial Grounds RCRA Part B application. They have developed checklists and are preparing comments on RCR's. According to their current schedule, a determination letter will be drafted for transmittal to RL around May 6, 2016. Once the completeness review is complete, Ecology will begin the detailed technical review. Ecology proposed a general schedule with the technical review estimated to occur between May and August 2016, and the collaborative process estimated between August and November 2016.
  - Clean closure certification for the FS-1 closure is in final concurrence with RL and pending transmittal to Ecology.
  - Received a Temporary Authorization from Ecology for WESF facility preparations and core drillings.
  - Ecology is preparing to go out for public comment on the closure plan submittals for 207-A South Retention Basin and WESF. This is in preparation for incorporating these units into Hanford Facility RCRA Permit Revision 8C.
  - Support to PFP continues in the area of compliance with National Emission Standards for Hazardous Air Pollutants (NESHAP) asbestos standards. This includes development of numerous NESHAP asbestos thorough inspection reports.
  - Partnered with the CPS&M Project on the reporting, investigation and corrective action response to the PUREX Stack February loss of monitoring discovered on March 7, 2016. The fans have been shut down until the monitoring system repairs can be completed.

Environmental Compliance & Quality Assurance (ECQA)

- **Assessment Program**
  - ECQA completed a vendor assessment of Stericycle, a permitted dangerous waste Treatment, Storage, and Disposal Facility to evaluate compliance with the CHPRC SOW. This scope included a review of environmental protection requirements and quality assurance requirements as stated in the BOA. One finding and four recommendations were identified. Stericycle provided appropriate documentation to show that appropriate corrective actions were completed.

Business Services

- **Acquisition Planning:**
  - Developed SOW and justification for the sharing of WCH personnel after Building 324 transition.
  - Developed procurement strategy for 300-296 waste site remediation.
  - Developed acquisition strategy and provided sample language for External Issues Management RFP.
  - Developed procurement strategy and drafted contract language for construction services at PFP that will be used to perform core drilling and grout in the canyon facility.
  - Developed procurement approach and contract language for the project management oversight of 100K Area construction work.
  - Developed the Acquisition Planning Notice, Acquisition Strategy, and SOW for the Construction Building Trades Labor Support master agreement/contract that will support RCCC transition of the 618-10 Remediation Project and other PTS work through September 30, 2018.
  - Developed SOW for S&GRP to perform a review of the effluent quality on the project.
  - Met with several small business representatives to discuss upcoming procurement opportunities including the potential construction building trades labor support master agreement.
  - Reviewed procedures from RCCC contractor and processed blue sheet documentation to permit transition of RCCC Building 324 work.
  - Facilitated the transition of City of Richland utility services for RCCC transition in the 300 Area.
- **Facilities & Property Management (F&PM):**
  - FY2015 KPMG property system audit found the system substantially compliant, with six administrative continuous improvement findings. Met with MSA and WRPS Property Representatives, and RL to discuss collective findings and CAP measures path forward. Closure documentation for initial committed actions will be submitted in late April.
  - FY2016 Physical Property Inventory review is underway with field work completion date of August 31, 2016. Final inventory review reports and Balanced Score Card submittals will be planned by October 31, 2016. F&PM has completed locating 34.6 percent of 3,317 items through March 2016.
  - Completed the alignment of asset responsibilities and assignments as a result of the split in the DWF&RS organization to KBO&PR and W&FMP.
  - Work in process to transfer MO2102 from WRPS to CHPRC at PFP. RL has signed and sent the Standard Form (SF)-122 to WRPS to secure ORP signature to complete transfer.
  - Efforts continued on installing two self-contained showers at PFP, which are nearing completion.
  - MO407 in the 200E area in process of transfer to MSA. Awaiting ICTO signature from MSA.
  - Utility disconnects complete for MO223, MO506, MO507, and MO917 to ready for D&D.
  - Completed RCCC property/facilities transition checklist including blue sheeting procedures for the 324 facility.
- **Finance:**
  - March month end completed with no suspensions.
  - Received $114,175 rebate from JPMorgan Chase based on FY2015 purchase card program volume of $15.5 million.
  - Completed majority of RCCC Finance transition checklists and activity forms for 324 facility.

- Completed and submitted FY2015 Statement of Cost Incurred and Claimed.
- Hired two new members of Finance organization – one clerk to track labor charging compliance, and one financial accountant to complete Incurred Cost submittal, monthly reporting, and system validations.
- Provided information responding to GAO request related to CHPRC fraud detection practices.

- **Human Resources:**
  - The staffing transition plan for the 324 Building has made significant progress:
    - Eight non-represented employees accepted offers to join CHPRC.
    - All background checks and pre-employment drug screens for the non-represented employees have been completed.
  - Completed the review of WCH procedures for blue sheeting process regarding the 324 Building transition.
  - Completed the second round of the Career Ascent Workshop series. The Career Ascent Workshops focus on the retention and development of the next generation of leaders.
  - Staffing and Organizational Development were realigned to now report to the same manager allowing for a more direct connection between the processes and programs for the acquisition, development, and retention of talent.
  - Coordinated CHPRC succession plans with other CH2M Nuclear Sector projects at a national meeting in support of maintaining continued stability in key leadership positions.
  - Presented at the Waste Management Symposia in Phoenix, AZ on the innovations in workplace management, specifically addressing how the Leadership Impact Workshops contributed to improving the safety culture by strengthening leadership skills.
- **Labor Relations:**
  - Continued working with WCH and HAMTC representatives to complete transition activities for represented WCH employees transferring to CHPRC with the 324 Building and 300-296 waste site work scope effective April 25, 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 have exchanged settlement proposals and will continue discussions in regards to these documents with 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. Arbitrator's decision on the case is expected by mid-June 2016.
  - Grievance PRC-014-109 dealing with new hire pay rates for the D&D Worker classification is scheduled for arbitration on April 27, 2016.
  - Grievance PRC-015-037 requested by union to proceed to arbitration was withdrawn by the union on March 24, 2016.
  - No new grievances were requested by the Union to proceed to arbitration during this reporting period.
- **Procurement:**
  - Awarded/amended 123 contracts with a total value of $11.7 million. Additionally, awarded 108 new material purchase orders (PO) valued at $1.13 million to support ongoing project objectives.
  - At the end of the first 90 months of the CHPRC project, procurement volume has been significant; $2.3 billion in contract activity has been recorded with approximately 52.3 percent, or $1.22 billion, in awards to small businesses. This includes 7,194 contract releases, 20,300 PO's, and 243,603 P-Card transactions.
  - Contract 59545 was awarded to Blackbyte Cyber Security, LLC on March 17, 2016. This is a firm fixed price contract for "Automated Inspection Checklist Application and Development Services." This award is valued at $903,857.50.

- Under Contract 50985, twenty releases were awarded to ANR Group, Inc. in March 2016 for summer interns. These are labor hour/time and material contract releases awarded for a total NTE value of $297,489.74.
- Under Contract 37351, three releases were awarded to Tradewind Services, LLC, in March 2016 for "Safety Specialist Support." These are labor hour/time and material contract releases awarded for a total NTE value of $408,506.88.
- Contract 55747, Release 6 was awarded to Apollo Mechanical on March 31, 2016. This is a firm fixed price contract for "Construction Support Services at the NE Corner of KW Basin." This award is valued at $1,079,919.80.
- Contract 44438, Release 48 was awarded to DGR Grant Construction, Inc. on March 14, 2016. This is a time and material contract for "Soil & Groundwater Remediation Project FY2016 Greenfield Construction Support." This award is valued at $600,000.00.
- Contract 59572 was awarded to Kurion on March 23, 2016. This is a time and material contract for "300-296 Design Gap Analysis" services. This award is valued at a NTE of $402,507.00.

Prime Contract and Project Integration (PC&PI)

- **River Corridor Closure Contract (RCCC) Transition:**
  - During March, Change Order (CO) 304 Performance Measurement Baseline (PMB) submittals for RCCC transition, 324 nuclear facility min safe, 300-296 waste site soil remediation design review, and ERDF operations, the RCCC Scope Transition Plan, and the Extent of Condition Report for RCCC Work Transferring to PRC were all issued to RL. Transition efforts for the 324 building, its ancillary facilities, and waste site 300-296 continue on schedule supported the planned April 25, 2016 transition date.
  - Finalized the RCCC Transition Plan, CP-59601 Revision 1 and issued to RL.
  - Finalized the Extent of Condition Report for RCCC Work Transferring to PRC, CP-59602 Revision 0 and issued to RL.
  - Completed the review and Blue Sheeting of WCH EVM related procedures.

- **Contract Compliance and Change Management (CC&CM):**
  - In March, CC&CM received and processed 7 contract modifications (numbers 491, 492, 499, and 501-504) from RL.
  - The Correspondence Review Team received and determined the distribution for 93 incoming letters/documents. The Prime Contract Compliance Manager reviewed 52 outgoing correspondence packages.
  - Issued Notification of Change CHPRC-1601465 to perform sampling for six new wells at 100-N and Implementation of Stipulated Cultural and Ecological Mitigation Actions.
  - Issued request for Contracting Officer direction regarding the Hanford Federal Facility Agreement and Consent Order Change Control; Form, Change Number M-91-15-01. Reference CHPRC 1601365.
  - Reconciled Table X (WBS Level 4) to the B.4-1 Table supporting Contract Mods 402-497 and issued to RL CO.
  - Mods 491 and 492 were processed to finalize the CLIN 7 fee adjustment and partial termination for convenience and removal of CLIN 7.
  - Submitted the following FY2016 Performance Measure Completion Packages:
    - PM-30-5-16, *Complete Stage A 300-FF-5 Uranium Sequestration Injections*.
    PM-13-2-16, *Repackage 280 m3 of transuranic mixed waste or mixed low level waste*.
  - Five CPs/REAs Submitted (On or Ahead of Schedule):
    - RL-0041

        - CO 304, four CPs submitted for RCCC transition, 324 Min Safe, 300-296 Design Review (Step 1), ERDF Operations and direct portion of RCCC Scope Transition (PBS 041) (March 24, 2016).
    - RL-0013
        - REA 013 1591, Submit Solid Waste Operations Complex Part B Permit Modification Request.
  - Zero CPs/REAs submitted late.
  - Three CPs/REAs in development:
    - CO 304, three CPs associated with transition of RCCC scope into the PRC include 618-10, Remaining Closure Ops and the 000 G&A contribution.
  - Miscellaneous Estimating Support:
    - Performed a TINA review for CO 299, CP 030 299 1578 R0, 200 West P&T System Membrane Bioreactor Cassette Additions (March 10, 2016).
    - Supported RL requests for information on CO 301 100-KW Sand Filter Media Remediation and CO 300 100-KW Garnet Filter Media.
    - Provided responses to RFI questions for RFP 030 1583 Revision 0, 200-DV-1 Shallow Soil Samples.
    - Prepared estimate (EST 030 PRC 1605 Revision 0) for the D/H Proposed Plan and Waste Site Evaluation and submitted to RL.
  - Estimating System:
    - Updated rates in Sage to reflect MSA forward pricing rates issued in February.

- **Earned Value Management System (EVMS) Compliance and Reporting:**
  - Progress continued to be made on EVM Assessment Corrective Actions. As of month end, 56 of 68 actions had been completed (82 percent complete).
  - During January, EVMS C&R facilitated and supported the processing of 16 BCRs. This high volume of BCRs in a month, which is projected to continue for the foreseeable future, is driven by changes in RL priorities. COs including BCRs to incorporate scope associated with CO NTE amounts and CO definitization, implementation of the STP CAP, and CHPRC self-initiated BCRs related to initiatives to improve the quality of baseline planning and reporting.
  - Continued to support RCCC Transition planning with emphasis on developing the Performance Measurement Baseline (PMB) and change proposals for scope that will transfer to CHPRC.
  - Completed the transition to computer based training for the BCR training class. The VAR training class is next to be completed with a targeted completion date of late April early May.
  - Continued to lead CHPRC EVM training and Qualification initiative. During March, another presentation of the 4 day Boot Camp Training for Project Management Professionals was sponsored by CHPRC. This class is intended to prepare the participants to successfully take the Project Management Institutes Project Management Professionals (PMP) certification test.
  - CHPRC continued to support the DOE PM-30/EFCOG initiative to update the DOE EVMSIH by participating in a DOE PM-30/EFCOG working session in Washington, DC the week of March 21, 2016. Significant progress was made on agreeing to final changes for the EVMSIH update.
  - CHPRC received the official notification of RL's acceptance of CHPRC's closure package for RL Finding A-15-ESQ-PRC-001-F01, *Corrective Action Logs and Variance Analysis Reports contain inaccurate and incomplete information,* (CR-2015-0900), on April 4, 2016.

- **Information and Interface Management:**
  Interface Management
  - Interfaces (Technical, Administrative and Regulatory):
    - Continue to monitor the isolation of the 100 Area Raw Water Fire Loop system by WCH/MSA.

- Formulated arrangement with WRPS on SCBA pack units for PFP D&D operations for emerging project needs.
- Followed up on MSA service change for non-fire system Backflow preventer testing. Service will become, as requested, usage based through water utilities. Water Utilities SDD under revision to reflect the change.

o Annual Forecast of Services:
- Evaluating MSA resource needs and impacts related to RCCC Transition. Biweekly meetings with MSA are occurring to ensure ready to serve operations are not impacted.

o Inter-Contractor Issue Resolution:
- Attended the monthly Integrated Biological Control meeting.
- Attended weekly field interface and resource allocation meetings.
- Participated in regular Interface Management leadership meetings with MSA and WRPS.
- Attended the Contractor Interface Board meeting hosted by MSA.
- Supporting discussions between WRPS at ETF and CHPRC at the Modutanks facility, regarding lines of demarcation and maintenance on the "tie-in" to the ETF raw water line.
- Finalized On-Site Property Loan Agreement for S&GRP personnel for loan of Cable Reel Trailer to Lockheed Martin for use during the month of March 2016. The trailer was returned on March 31, 2016.
- Continued working with Hanford Fire Department, CHPRC Projects (SWOC/PFP), and CHPRC Work Control to improve communications, and streamline planning/corrective maintenance items. Meeting weekly to document issues and resolution for inclusion into an interface document currently in development. The SDD J.3 ID#20 will be revised to include interim corrective measures until a more inclusive document can be drafted.

o Controlling and Service Agreements:
- Continued efforts in supporting the annual review of the J.3 Service Delivery Documents.
- Draft ICD for MSA Electrical Utilities is currently routing to Engineering Services and Project personnel for review.
- Revision of HNF-46148, Water System Services, is in progress. Fire Protection Engineering is aligning Program and Project requirements for demarcations and maintenance responsibilities. These requirements will be added to the document for Water 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.
- Updated signatories on the "Stop Work AIA" (HNF-58406, Revision 1) per MSA and HAMTC request.

o 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 has been scheduled.
- The internal review package for the latest J.13/J.14 table updates has been sent out to the Projects. This update will incorporate the recent transfer of ETF operations to WRPS among other assignments.

o Internal Operations:
- Completed internal work site assessment of MSA Usage Based Service SOW. Corrective Action development is underway.
- Issued two new AIAs to support the RCCC transition. The first, related HLAN conversion in the 300 Area is in final release and the second for sharing of resources is routing for final concurrence.

  - Completed Interface Management Planning activities for the RCCC Transition and began working to close Interface Management RCCC Transition Item Checklist items for the 324 Project Transition (i.e. J.3 Table update, J.13/J.14 updates, and Interface Agreement updates).

- **Information Management:**
  - Provided IT, event logistics, and facilitation support to EZAC, PZAC, Ascent Training, and various onsite and offsite tours, 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.
  - Completed RCCC Information Services and Records Transition checklists, including blue sheeting procedures for the 324 facility.
  - Processed 20,959 Electronic Records into the Integrated Document Management System (IDMS).
- **Performance Analysis and Risk Management Integration (PA&RMI):**
  - The Monthly meeting between the PA&RMI, Contractor Assurance and Regulatory Reporting, and Projects was held on March 15, 2016. The purposes of the monthly meetings are to review productivity data, to determine if trends exist across the CHPRC, and to provide recommended actions related to Corrective Actions. Company level metrics are being evaluated by the PA&RMI organization, in addition to Project specific metrics that are evaluated at the Project level. The KBO&PR and S&GRP organizations are presenting their data/evaluations as a part of the Project monthly Continuous Improvement Meetings. "Dashboard Metrics" are being tracked on the Productivity Tracking Log (PTL) web page. Field Presentations and Training continued to be provided. The pilot to automate Field Execution Schedule item integration into the PTL continued into March.
  - A Revision to CHPRC-MP-MS-19361, *CH2MHill Plateau Remediation Company Project Execution Plan,* was approved by RL on March 23, 2016. CHPRC-MP-MS-19361 was published in the PRC Procedure System (PPS) on March 30, 2016.
  - PRC-STD-PM-53101, *CHPRC Productivity Tracking Log/Reporting* was published on March 31, 2016. The revised Standard describes the process for identifying, reviewing, and evaluating Productivity items. Steps have been initiated within the PPS to cancel PRC-MD-PM-53058, *CHPRC Productivity Process.*
  - Technical and Administrative support was provided to the STP in responding to the DOE-HQ led External Independent Review/Independent Cost Estimate (EIR/ICE) reviews. Both review teams performed the on-site portion of their reviews the week of November 16, 2015. Actions identified during the Exit Briefing and in the formal report are being tracked. The EIR Team identified a total of 19 findings with eight classified as major findings. Clarification provided by the project team (RL and CHPRC) resulted in reclassification or deletion of four of the eight major findings. RL and CHPRC have provided factual accuracy feedback and have submitted a Correction Action Plan (CAP) in response to the findings, Communication continues with both RL and the EIR/ICE teams to finalize and close actions.
  - Progress continues to be made towards completion of the Productivity Corrective Actions. Completed 20 of 24 actions (83 percent). Two items scheduled for completion in March were extended to May.
  - PA&RMI Risk Management staff provided Risk Register Reviews for each of the key RL WBS elements (RL-011, RL-012, RL-013, RL-030, RL-040, RL-041, and RL-042). Analysis for the PFP, STP CAP, the WESF Stabilization and Ventilation Project, and numerous BCRs.
  - Risk Management, Requirements Management, and Business Process Evaluation support was provided to the RCCC Transition Team. PA&RMI staff continues to meet with WCH Risk Management/Requirements Management staff in support of transition of WCH work scope to

CHPRC. Program information was provided by the WCH staff. These efforts are expected to continue over the next several months.
- The Risk Management Team met with the WRPS Risk Management Team to benchmark functional requirement documentation to support the replacement of the CHPRC and WRPS risk database and Monte Carlo risk tool.
- Closure of the Hanford Concerns Council contract was completed in February. Steps continue to competitively solicit offers for a replacement contract. Expressions of interest were received in February; proposals were received in March, and contract award is projected to be completed in April.

Project Technical Services (PTS)

- **Engineering Services**
  - Developed preventive maintenance instructions and provided technical support for WESF W-130 Project.
  - Reviewed submittals and provided support on structural issues for the 200W P&T tank platform and handrail installation.
  - Provided technical support and evaluated the REDOX roof system design.
  - Facilitated answers to questions from DNFSB staff regarding seismic and safety basis issues for the REDOX.
  - Generated blue sheets for WCH engineering procedures for use during the RCCC Transition.
  - Drafted a schedule for engineering administrative actions for W&FMP to complete Building 324 turnover to support RCCC Transition.
- **Procedures and Training**
  - Continued support of the RCCC transition; training plans, training course records, and Procedure Blue Sheets.
  - Completed factual accuracy review of training issues on an RL surveillance for Nuclear Safety.
  - Supported PFP in development of Training and Qualification plan for demolition.
  - Complete factual accuracy review of RL Training and Qualification Program surveillance report.
- **Operations Program**
  - Supported Environmental Quality Assurance and S&GRP in discussions regarding calibration of Geophysics Monitoring equipment.
  - Modified the Fire Protection System status report to include Administrative Buildings and supported the PRC Building Manager regarding status of equipment preventive maintenance.
  - Provided support to STP regarding calibration of instruments being installed at T Plant.
  - Supported Lockout/Tagout (LOTO) Gap Training for Implementation of DOE-0336, Revision 2A.
  - Finalized the Task Analyses in support of qualification cards updates for Controlling Organization Lockout/Tagout Administrator (600605) and Controlling Office LOTO Designating Manager (600606) to support implementation of DOE-0336, Revision 2A.
  - Performed Management Assessment (PTS-2016-MA-16998) to evaluate PTS Productivity and Efficiency (using PRC-MD-PM-53058).
  - Developed Required Reading for J-Pan incident.
  - Met with RL and MSA to discuss factual accuracy comments on draft Emergency Preparedness (EP) assessment report.
  - Updated PFP Drill Program Plan.
  - EP staff conducted MOPS on pre job briefings for PTS, PFP, CP S&M, and SWOC.
  - Conducted a Work Site Assessment on EP Notification/ Communication issues upward trend (PTS-2016-WSA-17058).

- Supported S&GRP with repetitive use packages improvements with Responsible Managers, and SME's.
- Supported blue sheet review for WCH procedures and the 324 Building M&TE transfer.
- Initiated tri-annual Nuclear Maintenance Management Program (NMMP) / Safety Management Plan (SMP) assessment of the PRC calibration program.
- Working on improved process for transmittal of Job Control System (JCS) Component, preventive maintenance, and Instrument Calibration Records into IDMS.
- Continued to work with MSA EP on ensuring personnel working in remote areas receive emergency notifications. Added S&GRP supervisors to the ADHOC manual notification list.

- **Project Delivery**
  - Continued installment of ERDF Leachate Transfer Line
  - S&GRP Wells
    - Completed 6 of 11 contract awards for 2016 well realignments.
    - Completed pre-construction conference with DGR Grant.
    - Performed advance ground scans for road crossings.
  - W-130 Stabilization
    - Portable exhausters to be used for grouting operations DOP waste tested.
    - Prepared K Basin exhauster pad.
  - 289T FBR and CS platforms
    - Completed steel structure of the FBR platform structural steel. Final painting of steel commenced.
    - Scaffold erection commenced in support for the CS 6-PAK tank platforms.
  - REDOX Roof Design
    - Completed third party independent review of final design by CH2M (Boise) – Recommendations are to revise design to enable pinning of the existing roof to the sidewalls.
  - Trench 94 Reactor Component Disposal Package Maintenance
    - Processing Contractor deliverables.
    - Continued with draft of Navy deliverables (Safety, Quality and Waste Management Plans).
- **KW Annex Construction**
  - Performed maintenance of Annex equipment.
  - Performed walk down in support of IT equipment installation.
- **KW Basin In Basin Modifications Construction**
  - Complete fabrication and conducted a successful load test of Ingress/Egress lifting frame.
  - Continued IXM header fabrication.
  - Conducted layout for both Ingress/Egress assembly along with the lifting frame.
  - Continued submittals, commercial grade dedications and material procurements to support upcoming construction activities.
- **T Plant Modification Construction**
  - IP-2 waste containers for packaging the North Load-out Pit (NLOP) equipment were transferred from 100K to T Plant. Lids were removed, interior inspected.
  - Continued procurement of buyer-furnished material.
  - Continued submittal reviews, EJTA's and contractor training. 90 percent complete with all subcontractor training.
  - The work package for NLOP equipment removal was reviewed by the Hazard Review Board was successfully approved following completion of action items and comment incorporation.

Communications

- Communications supported RL in the development of an article for the 2016 *Tri-City Herald* "Progress Edition", which was published on March 22, 2016.
- Communications supported RL in holding a public involvement meeting on March 7, related to permit modifications at the SWOC.

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	0.6	0.4	0.6	(0.1)	-21.9%	(0.2)	-44.9%
Internal Audit	0.1	0.1	0.1	0.0	0.0%	(0.0)	-12.4%
General Counsel	0.1	0.1	0.1	0.0	0.0%	0.0	10.4%
Communications	0.1	0.1	0.1	0.0	0.0%	(0.0)	-21.9%
Safety, Health, Security and Quality	1.4	1.4	1.1	(0.0)	-0.3%	0.3	22.5%
Environmental Program and Strategic Planning	0.5	0.5	0.4	0.0	0.0%	0.0	10.1%
Business Services	2.0	2.0	1.7	0.0	0.0%	0.3	15.4%
Prime Contract and Project Integration	2.0	2.0	1.7	0.0	0.0%	0.3	15.0%
Project Technical Services	0.7	0.7	0.6	(0.0)	-0.3%	0.1	18.1%
Indirect WBS 000 Total	**7.5**	**7.4**	**6.5**	**(0.1)**	**-1.7%**	**0.9**	**11.9%**

Numbers are rounded to the nearest $0.1M.

Indirect WBS 000

CM Schedule Performance: (-$0.1M/-1.7%)
The variance is within reporting thresholds.

CM Cost Performance: (+0.9M/+11.9%)
The favorable variance is primarily attributed to the IRM Internet/System O&M on-demand service realizing less requests than planned. In addition, labor resource vacancies in process of being backfilled contribute to the variance.

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	2.0	2.3	2.5	0.3	13.1%	(0.2)	-10.5%	3.2
Internal Audit	0.5	0.5	0.5	0.0	0.0%	0.0	9.0%	1.1
General Counsel	0.7	0.7	0.5	0.0	0.0%	0.2	27.3%	1.5
Communications	0.5	0.5	0.5	0.0	0.0%	(0.1)	-10.4%	1.0
Safety, Health, Security and Quality	7.0	7.0	5.9	(0.0)	-0.1%	1.2	16.4%	14.8
Environmental Program and Strategic Planning	2.4	2.4	2.1	0.0	0.0%	0.2	10.0%	5.0
Business Services	9.8	9.8	7.9	0.0	0.0%	1.9	19.3%	20.7
Prime Contract and Project Integration	9.8	9.8	9.6	0.0	0.0%	0.3	2.6%	20.7
Project Technical Services	3.3	3.3	3.0	0.0	0.2%	0.3	9.8%	6.9
Indirect WBS 000 Total	**36.1**	**36.4**	**32.6**	**0.3**	**0.7%**	**3.8**	**10.5%**	**75.0**

Numbers are rounded to the nearest $0.1M.

Indirect WBS 000
FYTD Schedule Performance: (+$0.3M/+0.7%)
The variance is within reporting thresholds.

FYTD Cost Performance: (+3.8M/+10.5%)
The favorable variance is primarily due to an unplanned credit realized as a staff aug cost. The credit is from the liquidation of a general ledger account that collects rate adjustments on closed contracts. In addition, labor resource vacancies in process of being backfilled contribute to the variance.

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)	**36.1**	**32.6**	**3.6**		**75.0**	**76.6**	**(1.6)**
Office of the President	2.0	2.5	(0.5)		3.2	6.0	(2.8)
Internal Audit	0.5	0.5	0.0		1.1	1.2	(0.1)
General Counsel	0.7	0.5	0.2		1.5	1.9	(0.5)
Communications	0.5	0.5	(0.1)		1.0	1.2	(0.2)
Safety, Health, Security and Quality	7.0	5.9	1.2		14.8	13.3	1.5
Env. Program & Strategic Planning	2.4	2.1	0.2		5.0	4.6	0.4
Business Services	9.8	7.9	1.9		20.7	20.2	0.5
Prime Contract and Project Integration	9.8	9.6	0.3		20.7	20.6	0.1
Project Technical Services	3.3	3.0	0.3		6.9	7.7	(0.7)

	FYTD	FY2016
G&A Distribution	**(32.6)**	**(74.5)**
G&A Liquidation (Over)/Under	**(0.0)**	**2.1**

Liquidation Analysis
For March, application of the G&A rate fully liquidates total to date G&A. The FY2016 year-end projected under-liquidation of $2.1 million reflected in the FYSF reflects a projected increase in the G&A base primarily attributed to the RCCC Transition.

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 March.				
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 March.				
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)				
No high threat value risks identified in the month of March.				
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	%
Implement salary increase fund	FY2015	Complete	100
Proposed PFP incentive program		Complete	100
Draft retention and recruiting plan investment for FY2015.		Complete	100
Develop/implement CHPRC People Legacy Program.		On Going	N/A
Target recruiting for key project resources		9/30/18	48
Continue PFP resource transition plan for FY2016		9/30/17	48
River Corridor Closure recruitment for FY2016		9/30/18	48

MILESTONE STATUS

None currently identified.

SELF-PERFORMED WORK

The Section H.20 clause, entitled *Self-Performed Work*, is addressed in the Monthly Report Overview.

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None identified.

Appendix C
Capital Asset Projects

March 2016
CHPRC-2016-03, 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

March 2016
CHPRC-2016-03, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

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	162
KPP Rooms/Areas Ready for Demo	-	-	60	60 rooms/areas

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 93 percent complete.

KEY ACCOMPLISHMENTS

234-5Z

- RMA Line:
  - Completed the In-Situ size reduction clean up efforts.

MAJOR ISSUES

Issue:
PremAire Vortex coolers found with contamination at the Hanford Fire Department (HFD)

Corrective Action:
Retrieved all vortex coolers and associated Mine Safety Appliance PremAire equipment, surveys completed of HFD - no contamination found at facility. Retrieved three coolers from MSA sales representative's vehicle in Kennewick – fixed contamination below 458.1 Clearance thresholds identified on two of three tubes, no contamination identified at residence, vehicle, or storage unit.

In cooperation with the Radiological Assistance Program, performed surveys of facilities in Ohio and Pennsylvania, where an additional eight coolers we sent by the MSA sales representative - no contamination found on eight coolers or in facilities where they were handled.

Status:
The PremAire Vortex cooler issued is considered closed. An effectiveness review will be performed in the next few months. This issue will not be carried on the monthly report after March, 2016.

CORRECTIVE ACTION LOG

Control Account	Task Title	FY Year/ Month	CAM	Status	Forecast Completion	Actual Completion	Assigned To
011.05.01.01	Complete Size Reduction and Cleanup RMA/RMC	2/2016	Mike Douglas	Open	3/31/16		Mike Douglas

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	Assessment Trend	Comments
RL-0011/WBS-011.05.01.01.06 (CAP.1)				
Explanation of major changes to the project monthly stoplight chart: No major changes to the monthly stoplight chart in the month of March.				
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 March.				
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, 44 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 change in the month of March. 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)				
FY2016 Risk Triggers (Risk could be realized in FY2016)				
PFP-GB-09: Bulk Area clean-out scope Increase for KPP Scope	Additional bulk area clean-out results in schedule delays due to contamination events in rooms 228A -228C and 235A3 after Insitu-size reduction activities are complete. **Risk Handling Strategy:** Accept **Probability:** Likely (75% to 90%) **Worst Case Impacts:** $0, 16 days *Cost increase will result in cost per day impacts from crews, and hotel load.			**Risk Trigger:** During bulk area cleanout activities. Mitigation action(s) | FC Date | % None identified at this time. | N/A | N/A **Mitigation Assessment:** No change in the month of March. Bulk area cleanout efforts have been completed in "A" line. "C" line activities are expected to be completed in early April 2016 after which this risk can be closed. 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. At this time no alternative course of actions needed.
Unassigned Risks (Pending ownership of identified risks/opportunities)				
No unassigned risks identified for RL-0011 in the month of March.				

Critical Path Schedule
The PFP Critical Schedule Path flows through the 234-5Z duct level fixing and removing ducting and filter boxes associated with E4 ventilation. This leads into final miscellaneous activities getting 234-5Z ready for demolition. 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*.

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		7/31/17	Stop works associated with PremAire breathing air suits/hoses in support of in-situ size reduction efforts, stop works associated with intrusive work in the 234-5Z duct level, safety pause associated with a radiological event, and reduction to five field work teams vs. eight, and increased durations to the E4 duct removal efforts caused the Tri-Party Agreement milestone projected completion date to slip an additional 39 calendar days from the forecast date in the February report. 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.

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None identified 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

March 2016
CHPRC-2016-03, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

CLASSIFICATION (When Filled In)

CONTRACT PERFORMANCE REPORT

FORMAT 1 - WORK BREAKDOWN STRUCTURE

DOLLARS IN Thousands of $

FORM APPROVED
OMB No. 0704-0188

1. CONTRACTOR	2. CONTRACT	3. PROGRAM	4. REPORT PERIOD
a. NAME CH2M HILL Plateau Remediation Company	a. NAME Plateau Remediation Contract	a. NAME RL_0011_C1 - PFP D&D (ARRA/Base)	a. FROM (YYYYMMDD) 2016 / 02 / 22
b. LOCATION (Address and ZIP Code) Richland, WA	b. NUMBER RL14788	b. PHASE	b. TO (YYYYMMDD) 2016 / 03 / 27
	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	345,270	327,423	345,270	

6. ESTIMATED COST AT COMPLETION

	MANAGEMENT ESTIMATE AT COMPLETION (1)	CONTRACT BUDGET BASE (2)	VARIANCE (3)
a. BEST CASE	332,999		
b. WORST CASE	335,392		
c. MOST LIKELY	335,392	317,545	-17,847

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	183	96	516	-87	-421	235,360	234,147	258,761	-1,213	-24,615	0	0	0	235,514	260,212	-24,697
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	183	96	516	-87	-421	314,997	313,784	331,549	-1,213	-17,765	0	0	0	315,152	332,999	-17,847
f. MANAGEMENT RESERVE														2,393		
g. TOTAL	183	96	516	-87	-421	314,997	313,784	331,549	-1,213	-17,765	0	0	0	317,545		

9. RECONCILIATION TO CONTRACT BUDGET BASELINE

a. VARIANCE ADJUSTMENT																
b. TOTAL CONTRACT VARIANCE									-1,213	-17,765				317,545	332,999	-15,454

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_C1 - PFP D&D (ARRA/Base)	a. FROM *(YYYYMMDD)* 2016 / 02 / 22
b. LOCATION (Address and ZIP Code) Richland, WA	b. NUMBER RL14788		b. PHASE	b. TO *(YYYYMMDD)* 2016 / 03 / 27
	c. TYPE CPAF	d. SHARE RATIO	c. EVMS ACCEPTANCE NO: [ ] YES: [X] *(YYYYMMDD)* 2009 / 09 / 18	

5. PERFORMANCE DATA

WBS.Resp Org Group	CURRENT PERIOD					CUMULATIVE TO DATE					REPROGRAMMING ADJUSTMENTS			AT COMPLETION		
	BUDGETED COST		ACTUAL	VARIANCE		BUDGETED COST		ACTUAL	VARIANCE					BUDGETED	ESTIMATED	VARIANCE
ITEM	WORK SCHEDULED	WORK PERFORMED	COST WORK PERFORMED	SCHEDULE	COST	WORK SCHEDULED	WORK PERFORMED	COST WORK PERFORMED	SCHEDULE	COST	COST VARIANCE	SCHEDULE VARIANCE	BUDGET			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12a)	(12b)	(13)	(14)	(15)	(16)
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	183	96	516	-87	-421	254,570	253,357	278,969	-1,213	-25,611	0	0	0	254,725	280,419	-25,694
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)*	183	96	516	-87	-421	314,997	313,784	331,549	-1,213	-17,765	0	0	0	315,152	332,999	-17,847
f. MANAGEMENT RESERVE														2,393		
g. TOTAL	183	96	516	-87	-421	314,997	313,784	331,549	-1,213	-17,765	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: 2016/02/22 b. TO: 2016/03/27

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)
317,546	$0	$317,546	$0	$317,546	$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

ITEM	BCWS CUM TO DATE	BCWS FOR REPORT PERIOD	BUDGETED COST FOR WORK SCHEDULED (NON - CUMULATIVE) SIX MONTH FORECAST +1 Apr-16	+2 May-16	+3 Jun-16	+4 Jul-16	+5 Aug-16	+6 Sep-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)	**314,814**	**183**	**0**	**0**	**0**	**0**	**0**	**39**	**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**	**183**	**0**	**0**	**0**	**0**	**0**	**39**	**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 RL_0011_C1 - PFP D&D (ARRA/Base)	a. FROM *(YYYYMMDD)* 2016 / 02 / 22
b. LOCATION (Address and ZIP Code) Richland, WA	b. NUMBER RL14788		b. PHASE	b. TO *(YYYYMMDD)* 2016 / 03 / 27
	c. TYPE CPAF	d. SHARE RATIO	c. EVMS ACCEPTANCE NO: [ ] YES: [X] *(YYYYMMDD)* 2009 / 09 / 18	

5. PERFORMANCE DATA

WBS.Resp Org Group ORGANIZATIONAL CATEGORY (1)	ACTUAL CURRENT PERIOD (2)	ACTUAL END OF CURRENT PERIOD *(Cumulative)* (3)	FORECAST *(Non-Cumulative)* SIX MONTH FORECAST BY MONTH *(Enter names of months)* +1 APR 2016 (4)	+2 MAY 2016 (5)	+3 JUN 2016 (6)	+4 REMAIN FY16 (7)	+5 FY17 (8)	+6 FY18 (9)	ENTER SPECIFIED PERIODS FY19-FY24 (10)	AT COMPLETE (11)	(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	32	15383	1	17	13	9	36	0	0	0	0	0	0	15459
g. TOTAL DIRECT	32	15400	1	17	13	9	36	0	0	0	0	0	0	15475

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_C1 - PFP D&D (ARRA/Base)		2016 / 02 / 22
b. LOCATION (Address and ZIP Code)	b. NUMBER		b. PHASE		b. TO (YYYYMMDD)
Richland, WA	RL14788				2016 / 03 / 27
	c. TYPE	d. SHARE RATIO	c. EVMS ACCEPTANCE		
	CPAF		No X Yes	(YYYYMMDD) 2009 / 09 / 18	

5. Evaluation

Direct Projects

	Budget	Earned	Actuals	SV in $	SV in %	CV in $	CV in %	SPI	CPI
Current:	183	96	516	-87	-48%	-421	-440%	0.52	0.19
Cumulative:	314,997	313,784	331,549	-1,213	0%	-17,765	-6%	1.00	0.95
	BAC	EAC	VAC in $	VAC in %	TCPI to BAC	TCPI to EAC			
At Complete:	315,152	332,999	-17,847	-6%	-	0.94			

Explanation of Variance/Description of Problem:
Schedule Variance: The negative schedule variance for the month of March was attributed to performing behind schedule work scope associated with the size reduction and waste load out of glovebox HA-9A, while the BCWS for March is associated with preparing other gloveboxes within the facility in preparation for their removal during demolition. Size reduction of glovebox HA-9A was completed in March. The remaining work associated with In-situ Size Reduction is associated with stabilization and demobilization of the work area, which is expected to complete in April. The glovebox preparation for demolition work scope previously scheduled to occur in March is currently expected to be performed in July 2016.

Cost Variance: The current month negative cost variance is associated with the room cleanup efforts following size reduction of gloveboxes HA-9A and HC-9B. As originally planned in the Baseline, the size reduction of gloveboxes HA-9A and HC-9B was to be performed within a containment tent using PAPR respiratory protection. In order to better protect the workers, this work scope was performed in Level B PremAire suits without the containment tent. This required a much larger effort of room clean-up and stabilization following the size reduction of both HA-9A and HC-9B. In addition, the RMA and RMC control rooms were unintentionally contaminated during size reduction efforts and required stabilization and clean-up resulting in more time for cleanup efforts.

Impact:
Schedule Impact: The RL-011.C1 project baseline completion date is November 16, 2016. With the work that was completed in the month of March, offset by impacts of the safety stand down, the current schedule now reflects a completion date of June 6, 2017, a slip of 43 calendar days since February, 2016. The current RL-11 PBS project baseline schedule indicates that the PFP project will achieve slab-on-grade by January 19, 2017. With the impacts of the safety stand down to demolition ready activities in 234-5Z, the current schedule shows that the work scope to meet the completion of the KPP milestone will not complete until July 31, 2017, a slip of 39 calendar days since February, 2016. The project expects to continue progress at the rate that has been experienced in the past several months prior to the safety pause; however, even with the implementation of new initiatives (i.e., breathing air, high mass glovebox initiative, foaming, grouting, etc.) the impacts of the safety pause has further increased the risk of the PFP Project not meeting the TPA milestone M-083-00A due date of 9/30/16 for achieving slab-on-grade.

Cost Impact: Cost variance is not considered recoverable. Past performance and successful implementation of the above actions and impacts from stop works/safety pauses are reflected in the EAC. Considering the historical negative cost variance of 5.7% and CPI of .95 and ~$17.7M cost variance to date and impacts of the safety pause, the projected EAC has been decreased by $700K resulting in a negative VAC of ~$17.9M. This is due to extended duration of the timing to complete size reduction of the HA-9A glovebox as a result of impacts from stop works/safety pauses and incorporation of the use of the Premier breathing air suits that will be used to mitigate exposure to the worker and ease in in-situ size reduction of gloveboxes and transferred scope for removal of the gloveboxes from the facility to meet the end point criteria of the Project Execution Plan. This is partially offset by recognized efficiencies in cleaning up the RMA/RMC control rooms after completion of the size reduction efforts of the 9A/9B gloveboxes. As efficiencies and/or impacts continue to be recognized, the EAC will be adjusted. It is not expected that the entire cost variance will be recovered as there is only a small amount of scope remaining to complete the KPP.

Corrective Action:
Schedule: Complete size reduction of HA-9A and Filter boxes 1P/3P, then cleanup RMA/RMC areas to allow for large breathing air team to begin working other scheduled work within the 234-5Z building. This will provide additional team members to work on other critical path work scope within the PFP facility and will help recover schedule delays on other non-capital asset work scope at PFP. Action: Mike Douglas (4/30/16)

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

Monthly Summary (to include technical causes of VARs, Impacts) and Corrective Action(s):
Cost and schedule variance is not considered recoverable.

The following items are addressed, as applicable, per the EVMSIH:
1. Schedule Margin Analysis: There is no schedule margin associated with the RL-011.C1 capital asset account.
2. IMS Data dictionary Changes: N/A
3. Forecast Schedule with No Baseline: N/A
4. UB Balance: N/A
5. Negative ACWP: N/A
6. EAC Analysis: Best Case = EAC; Most Likely = EAC + MR; Worst Case = ECWR or BCWR (whichever is greater) + ACWP + MR + Trend Log values not already included.
7. Negative CV > VAC: N/A
8. MR Transactions: N/A
9. Freeze Period Changes: N/A
10. Retroactive Changes: N/A
11. Indirect Variances: N/A

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

March 2016
CHPRC-2016-03, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

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	-	-	15	-
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	-
Complete Demolition of PFP Ancillary Facilities	-	-	15	-
Turnover Facility to Long Term Surveillance & Maintenance	-	-	-	-

Summary:
The PFP Demolition Project is the final sub-set activity for completing the overall PBS RL-0011, Nuclear Materials Stabilization and Disposition of PFP. Completion of RL-0011.C2 will result in the remaining PFP set of facilities becoming “slab-on-grade” and allow transition of the PFP complex to long-term S&M.

KEY ACCOMPLISHMENTS

- Initiated the IVR for HNF-15500 “PFP Deactivation and Decommissioning Documented Safety Analysis” Revision 13 and HNF-15502 “PFP Deactivation and Decommissioning Technical Safety Requirements” Revision 13.
- Held kick-off for the IVR for DSA/TSR Revision 13.

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 unexpected.

Corrective Action:

- Unpackaged and placed previously packaged J Pan wastes 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.
- J Pan wastes are being held at PFP pending evaluation of PNNL Analysis and determination of potential for self-accelerating thermal reaction within drums. Preliminary results of evaluation expected to be complete in late April.

CORRECTIVE ACTION LOG

Control Account	Task Title	FY Year/ Month	CAM	Status	Forecast Completion	Actual Completion	Assigned To
011.05.C3.05	Get PFP Facilities Ready for Demo	2016/03	Mike Douglas	Open	7/1/16		Mike Douglas
011.05.C3.05	Broker Subcontracted Resources When Posssible	2016/03	Mike Douglas	Open	9/30/16		Mike Douglas

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	Assessment 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 March.				
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 March.				
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, 44 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 change in the month of March. 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, 45 days			**Risk Trigger:** During pre-demolition/demolition activities in FY2016. Dates tracked in the FES. **Mitigation action(s)** / **FC Date** / **%** Submit safety basis documents that allow for additional equipment (e.g., 242-Z Tanks) to be left in place for removal during demolition. / Complete / 100 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 change in the month of March. 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, 66 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 change in the month of March. 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.			

Critical Path Schedule

The PFP Critical Schedule Path flows through the 234-5Z duct level fixing and removing ducting and filter boxes associated with E4 ventilation. This leads into final miscellaneous activities getting 234-5Z ready for demolition. 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*.

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		7/31/17	Stop works associated with PremAire breathing air suits/hoses in support of in-situ size reduction efforts, stop works associated with intrusive work in the 234-5Z duct level, safety pause associated with a radiological event, and reduction to five field work teams vs. eight, and increased durations to the E4 duct removal efforts caused the Tri-Party Agreement milestone projected completion date to slip an additional 39 calendar days from the forecast date in the February report. 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.

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None identified 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

ch2m

March 2016
CHPRC-2016-03, 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 / 02 / 22
b. LOCATION (Address and ZIP Code) Richland, WA	b. NUMBER RL14788	b. PHASE	b. TO (YYYYMMDD) 2016 / 03 / 27
	c. TYPE CPAF / d. SHARE RATIO	c. EVMS ACCEPTANCE NO: / YES: X (YYYYMMDD) 2009 / 09 / 18	

5. CONTRACT DATA

a. QUANTITY	b. NEGOTIATED COST	c. ESTIMATED COST OF AUTHORIZED UNPRICED WORK	d. TARGET PROFIT/FEE	e. TARGET PRICE	f. ESTIMATED PRICE	g. CONTRACT CEILING	h. ESTIMATED CONTRACT CEILING	i. DATE OF OTB/OTS (YYYYMMDD)
1	51,683	0	5,000	56,683	52,845	56,683	52,845	

6. ESTIMATED COST AT COMPLETION

	MANAGEMENT ESTIMATE AT COMPLETION (1)	CONTRACT BUDGET BASE (2)	VARIANCE (3)
a. BEST CASE	43,691		
b. WORST CASE	51,164		
c. MOST LIKELY	47,845	51,683	3,838

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_C2.05 Disposition PFP Facility	1,775	1,036	413	-739	623	9,494	8,632	7,488	-862	1,144	0	0	0	47,529	43,691	3,838
b. COST OF MONEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
c. GENERAL AND ADMINISTRATIVE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
d. UNDISTRIBUTED BUDGET														0	0	0
e. SUBTOTAL	1,775	1,036	413	-739	623	9,494	8,632	7,488	-862	1,144	0	0	0	47,529	43,691	3,838
f. MANAGEMENT RESERVE														4,154		
g. TOTAL	1,775	1,036	413	-739	623	9,494	8,632	7,488	-862	1,144	0	0	0	51,683		

9. RECONCILIATION TO CONTRACT BUDGET BASELINE

a. VARIANCE ADJUSTMENT																
b. TOTAL CONTRACT VARIANCE									-862	1,144				51,683	43,691	7,992

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 / 02 / 22
b. LOCATION (Address and ZIP Code) Richland, WA	b. NUMBER RL14788		b. PHASE	b. TO *(YYYYMMDD)* 2016 / 03 / 27
	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	1,775	1,036	413	-739	623	9,494	8,632	7,488	-862	1,144	0	0	0	47,529	43,691	3,838
b. COST OF MONEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
c. GENERAL AND ADMINISTRATIVE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
d. UNDISTRIBUTED BUDGET														0	0	0
e. SUBTOTAL *(Performance Measurement Baseline)*	1,775	1,036	413	-739	623	9,494	8,632	7,488	-862	1,144	0	0	0	47,529	43,691	3,838
f. MANAGEMENT RESERVE														4,154		
g. TOTAL	1,775	1,036	413	-739	623	9,494	8,632	7,488	-862	1,144	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 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_C2 PFP Demolition Capital Asset Project a. NAME: Plateau Remediation Contract b. PHASE c. EVMS ACCEPTANCE NO YES X 9/18/2009	4. REPORT PERIOD a. FROM: 2016/02/22 b. TO: 2016/03/27

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 Apr-16	+2 May-16	+3 Jun-16	+4 Jul-16	+5 Aug-16	+6 Sep-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)	**7,719**	**1,775**	**3,355**	**3,572**	**3,196**	**5,420**	**3,964**	**4,950**	**0**	**0**	**6,090**	**27,861**	**13,578**	**0**	**0**	**47,529**
b. BASELINE CHANGES AUTH DURING REPORT PERIOD																
None during the reporting period											**0**	**0**	**0**	**0**		**0**
c. PM BASELINE (END OF PERIOD)	**9,494**	**1,775**	**3,355**	**3,572**	**3,196**	**5,420**	**3,964**	**4,950**	**0**	**0**	**6,090**	**27,861**	**13,578**	**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 / 02 / 22
b. LOCATION (Address and ZIP Code) Richland, WA	b. NUMBER RL14788		b. PHASE	b. TO *(YYYYMMDD)* 2016 / 03 / 27
	c. TYPE CPAF	d. SHARE RATIO	c. EVMS ACCEPTANCE NO:	YES: X *(YYYYMMDD)* 2009 / 09 / 18

5. PERFORMANCE DATA

WBS.Resp Org Group ORGANIZATIONAL CATEGORY (1)	ACTUAL CURRENT PERIOD (2)	ACTUAL END OF CURRENT PERIOD *(Cumulative)* (3)	FORECAST *(Non-Cumulative)* SIX MONTH FORECAST BY MONTH *(Enter names of months)* +1 APR 2016 (4)	+2 MAY 2016 (5)	+3 JUN 2016 (6)	+4 REMAIN FY16 (7)	+5 FY17 (8)	+6 FY18 (9)	ENTER SPECIFIED PERIODS FY19-FY24 (10)	ATCOMPLETE (11)	(12)	(13)	(14)	AT COMPLETION (15)
3B - PFP Closure Project	2	25	1	0	0	30	962	0	0	0	0	0	0	1018
g. TOTAL DIRECT	2	25	1	0	0	30	962	0	0	0	0	0	0	1018

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 / 02 / 22
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 (YYYYMMDD) 2009 / 09 / 18	2016 / 03 / 27

5. Evaluation

Direct Projects

	Budget	Earned	Actuals	SV in $	SV in %	CV in $	CV in %	SPI	CPI
Current:	1,775	1,036	413	-739	-42%	623	60%	0.58	2.51
Cumulative:	9,494	8,632	7,488	-862	-9%	1,144	13%	0.91	1.15
	BAC	**EAC**	**VAC in $**	**VAC in %**	**TCPI to BAC**	**TCPI to EAC**			
At Complete:	47,529	43,691	3,838	8%	0.97	1.07			

Explanation of Variance/Description of Problem:

Schedule Variance: The current month negative schedule variance is due to work scope associated with demolition of ancillary buildings on the PFP complex not being performed as originally scheduled. The demolition of these facilities has been delayed due to resources being redirected to support higher priority critical path work associated with decommissioning of 234-5Z and 236-Z. Once the 236-Z building is for demo, the diverted resources will be redirected to support demolition of the ancillary buildings. The delay in demolition of the main structures at PFP (234-5Z, 236-Z, and 242-Z) due to radiological issues resulting in a PFP Management safety pause and stop works have also contributed to the schedule variance. Initiation of demolition of the 236-Z facility is currently forecast for October, 2016 with 242-Z and 234-5Z following thereafter.

Cost Variance: The current month and cumulative positive cost variance is associated with the late start of demolition of the ancillary facilities as a result of resource constraints caused by other higher priority critical path work to readying PRF for demolition , less project management support charges than planned being incurred in the 011.05.C3.01, PFP Demo Project Management/CD-4 Closeout and 011.05.C3.04 PFP Demolition Cross Cut LOE control accounts during the current period, and the PFP Demolition Readiness Assessment activity continues to be behind schedule as a result of the start of demolition activities being behind schedule. This is partially offset by MSA subcontracted resources arriving to support PFP demolition that had a planned baseline start date of January 2016.

Impact:

Schedule Impact: Stop works, Safety Pauses, and implementation of associated recovery actions have impacted the work to ready facilities for demolition resulting in an additional 35 calendar day impact since February to the critical path to achieving the TPA Milestone TPA-083-00A, complete PFP facility transition and selected disposition activities, due September 30, 2016. The total schedule delay cannot be recovered.

Cost Impact: Stop Works, Safety Pauses, and associated recovery actions are impacting the work to ready facilities for demolition. The total cost impact cannot be recovered. Mitigation actions are being reviewed and will be put in place when finalized to support recovery of a portion of the cost impact. Future costs are anticipated to increase as more radiological oversight is required to support the PFP project related to the compensatory measures associated with the safety pause. In addition, the start of mobilization for PFP demolition has been delayed, which has subsequently delayed any follow-on demolition activities while costs accumulate. The projected net impact since February associated with these issues to the EAC was $500K.

Corrective Action:

Schedule: Actions are being reviewed and will be put in place when finalized to support mitigation of the schedule delays. Safe acceleration of 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: Douglas 9/30/16)

Cost: MSA resources (i.e., Heavy Equipment Operators, Crane Operators, Mechanics, etc.) will be loaned out to other CHPRC and other Hanford contractors when not required for PFP project work and thus offset unnecessary costs to the PFP project. Action: Mike Douglas (9/30/16)

NOTE: Corrective actions associated with stop works/safety pauses that are impacting the ability to initiate demolition activities in the RL-011.C2 capital asset project are addressed in the Operations and RL-011.C1 capital asset projects corrective action plans respectively. Monthly Summary (to include technical causes of VARs, Impacts) and Corrective Action(s): The positive cost variance for PM support will continue until work scope on ancillary facilities begins. The current positive cost variance on the Readiness activity is anticipated to reduce significantly as the more stringent Readiness Assessment and site exercise complete.

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

The positive cost variance for PM support will continue until work scope on ancillary facilities begins. The current positive cost variance on the Readiness activity is anticipated to reduce significantly as the more stringent Readiness Assessment and site exercise complete.

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. Overall, the C2 project lost all of its schedule margin.
2. IMS Data dictionary Changes: N/A
3. Forecast Schedule with No Baseline: N/A
4. UB Balance: N/A
5. Negative ACWP: N/A
6. EAC Analysis: Best Case = EAC; Most Likely = EAC + MR; Worst Case = ECWR or BCWR (whichever is greater) + ACWP + MR + Trend Log values not already included.
7. Negative CV > VAC: N/A
8. MR Transactions: N/A
9. Freeze Period Changes: N/A
10. Retroactive Changes: N/A

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