

# Monthly Performance Report

## January 2015

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

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

 **CH2MHILL**  
Plateau Remediation Company  
P.O. Box 1600  
Richland, Washington 99352

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**APPROVED**

*By Ashley R Jenkins at 8:22 am, Feb 24, 2015*

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Release Approval

Date

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**J. A. Ciucci**  
**President and Chief**  
**Executive Officer**

# Monthly Performance Report

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

**January 2015**  
CHPRC-2015-01, Revision 0

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## EXECUTIVE SUMMARY

CH2M HILL Plateau Remediation Company employees began 2015 with safe and compliant progress across all projects.

- Soil and Groundwater Remediation Project (S&GRP) completed inspections of the AVANTech IX uranium treatment train which is due to arrive onsite in early February. The project increased pumping rates at the three 100K Pump-and-Treat systems through optimization activities and bringing new wells online.
- Plutonium Finishing Plant (PFP) sealed out 10 Pencil Tank Units, for a total of 181 Pencil Tank Units sealed out of 196 total. Crews also removed approximately 260 feet of E4 ventilation duct and size reduced and removed WT-3, one of the three gloveboxes inside 242-Z. The project also submitted Documented Safety Analysis (DSA), Rev. 12 to RL, which documents step-out criteria for PFP.
- Decommissioning, Waste, Fuels and Remediation Services (DWF&RS) completed overpack of a concrete box on January 7, safely and compliantly meeting the Department of Ecology's request. In addition, crews began preparations to fix the crane in the WESF canyon that will help with the HVAC improvement project.



**S&GRP crews complete inspections of the AVANTech IX uranium treatment train.**

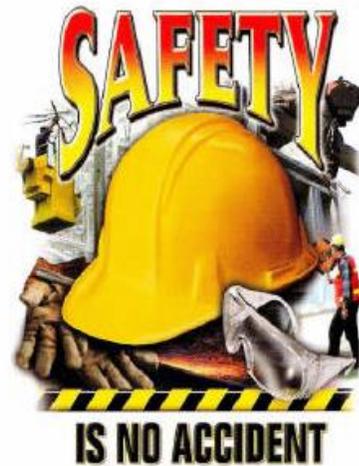


**DWF&RS crews complete overpack of a concrete box.**



**PFP crews size reduce and remove WT-3, one of the three gloveboxes inside 242-Z.**

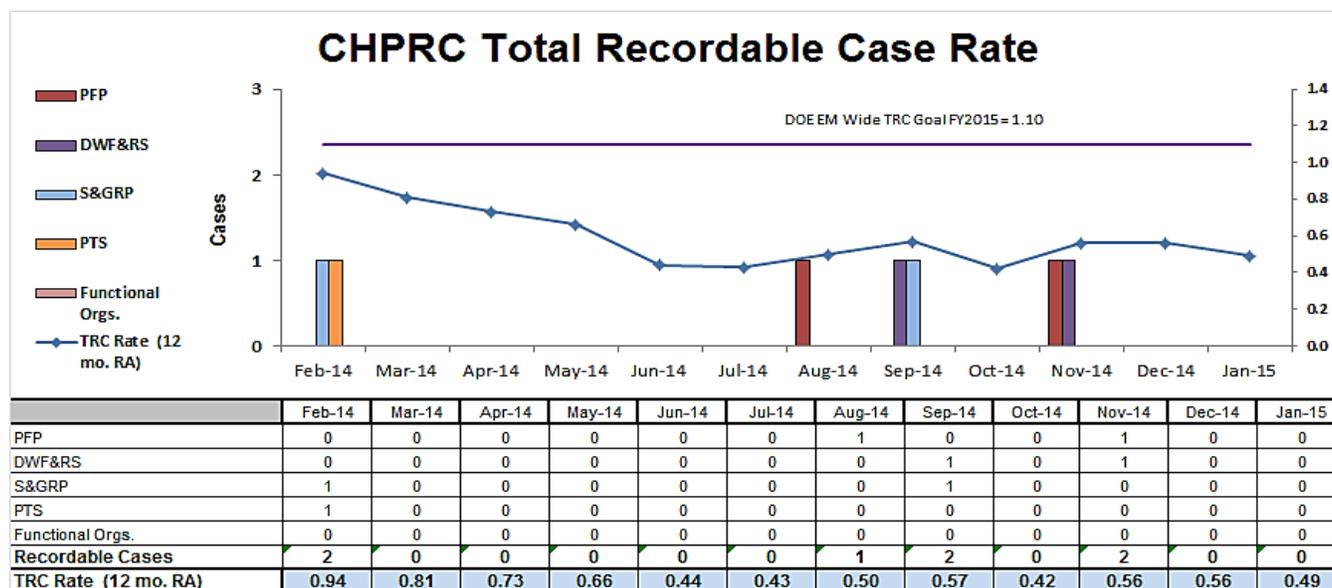
- The SHS&Q organization hosted the January 2015 President’s Zero Accident Council (PZAC) meeting. The three main themes and presentations for the meeting were:
  - o Make safety 24/7 a priority in 2015
  - o Set a goal, not a resolution
  - o Support Safety Legacy goals
- Four “*Thinking Target Zero*” (TTZ) bulletins were published in January to convey important occupational safety, health and environmental messages:
  - o Walking Surfaces
  - o EMS Universal Wastes
  - o Hand Injuries
  - o VPP Safety Legacy
- January *Weekly Safety Tailgate* briefing packages communicated relevant topics and safety information to the workforce:
  - o Special Safety Refocus Issue – Returning to Work After the Holiday Break
  - o Creating a Culture of Character
  - o Vehicle Housekeeping
  - o Office Chair Safety
  - o Seasonal Affective Disorder
  - o Hanford Snow Removal Plan
  - o Injury Lesson Learned - Ladders
  - o Refresh Your Work Routines and Station
  - o Protecting Confidential E-mails
  - o OSHA’s Form 300A Summary of Work-Related Injuries/Illnesses
  - o Fatality Lesson Learned – Forklift
  - o Dangers of Falling Objects
  - o Changes to the Work Management Program
  - o Great Horned Owl Nest at 100K
  - o Timekeeping Goals
  - o “What Would You Do?” Ethics Awareness messages
  - o Injury/Illness Summaries and the TTZ of the week
- January Weekly Updates featured blogs from John Ciucci, President and CEO, and Terry Vaughn, Vice President of SHS&Q. Mr. Ciucci declared 2015 a year of teamwork to reach KPGs, including those in the areas of safety and regulatory compliance. Mr. Vaughn welcomed employees to the New Year and encouraged them to take time to refocus on safety, watch out for each other, have a questioning attitude and be involved in CHPRC’s safety success. Mr. Vaughn also pointed to the 2015 vision to set the gold standard for safe and compliant cleanup through performance of safety 24/7, risk reduction and a strong worker involvement.
- The Kudos Corner for January recognized individuals and teams who made a significant contribution to safety at work, home or play:
  - o The Functional Organization EZAC promoted vehicle safety through the Get Out and Look (GOAL) campaign to remind people to always perform their 360° walk around prior to driving a vehicle.
  - o A PFP radiological control technician who identified an electrical hazard prior to starting work.



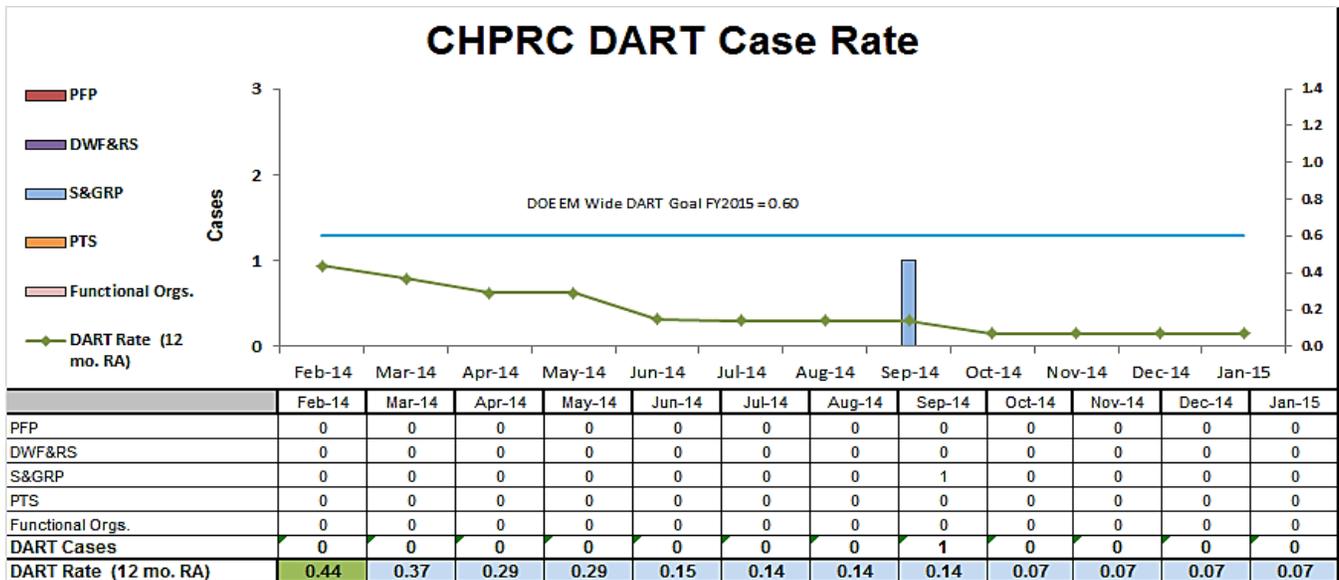
- o An administrative specialist who consistently goes above and beyond to support the DWF&RS EZAC as its recording secretary, who serves as the committee’s backbone, working behind the scenes to bolster support.
- o Recognition of all employees for a safe 2014 and a call out to continue to work together safely and keep the kudos coming!

## TARGET ZERO PERFORMANCE January 2015

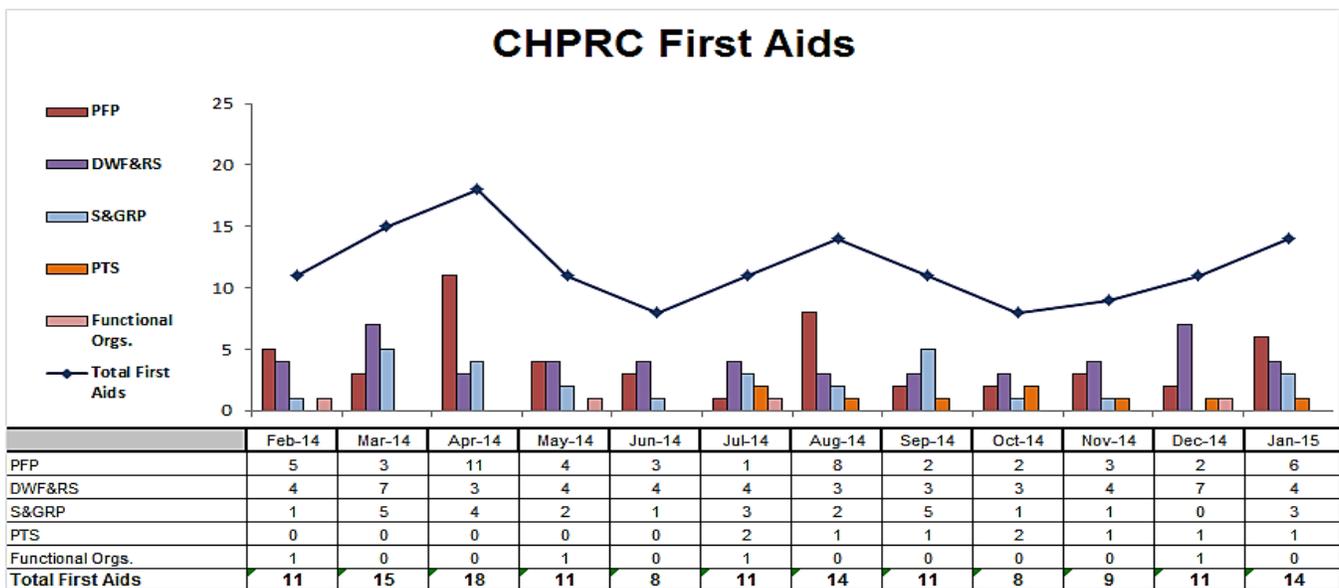
CHPRC continued focusing on integrating safety programs in all program and project areas.



Total Recordable Injury Case (TRC) Rate – The 12 month rolling average TRC rate of 0.49 is based on a total of seven Recordable injuries. There were no Recordable cases in January. There is one case currently being evaluated/investigated for potential recordability.



Days Away, Restricted or Transferred (DART) Workdays Case Rate – The 12 month rolling average DART rate of 0.07 is based upon a total of one Days Away case. There were no DART cases in January.



First Aid Case Summary – CHPRC reported fourteen first-aid cases in January 2015; of these fourteen cases, five cases required no treatment. There were no self-treated injuries. The contributors were six sprains / strains / pains, five abrasions / contusions, two miscellaneous and one insect bite / sting.

## KEY ACCOMPLISHMENTS

### Projects

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

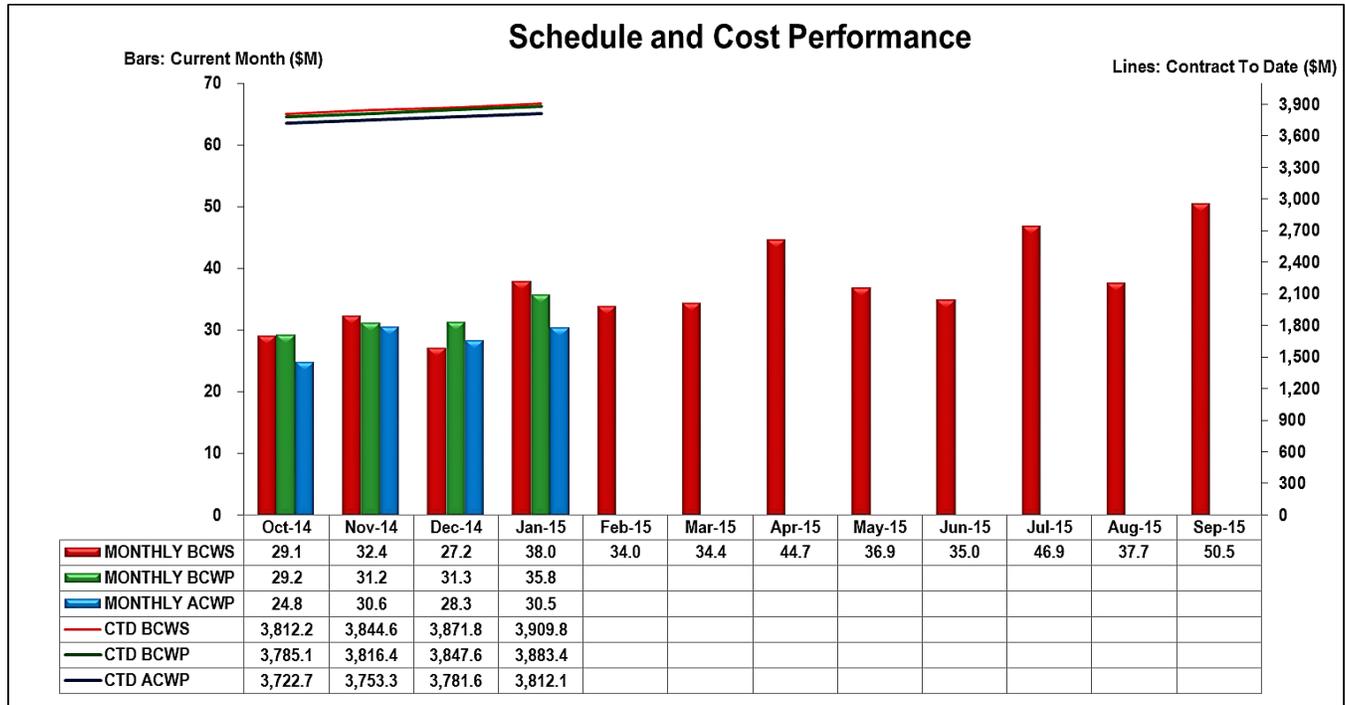
### Project Services and Support

- 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



	\$M					\$M					\$M		
	Current Period					Contract to Date					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	9.4	10.2	10.0	0.8	0.2	765.1	735.1	771.9	(30.0)	(36.8)	937.6	952.6	(15.0)
RL-0012 - SNF Stabilization & Disposition	6.8	5.7	3.7	(1.1)	2.0	460.1	463.6	474.4	3.5	(10.8)	692.7	713.7	(21.0)
RL-0013 - Solid Waste Stab & Disposition	8.3	8.3	6.0	0.0	2.3	908.6	910.6	869.1	1.9	41.5	1,352.7	1,263.3	89.4
RL-0030 - Soil & Water Rem-Grndwtr/Vadose	11.7	10.2	9.6	(1.5)	0.6	1052.4	1051.3	1036.2	(1.1)	15.1	1,533.6	1,483.8	49.7
RL-0040 - Nuc Fac D&D - Remainder	0.9	0.9	0.8	0.0	0.1	392.6	392.5	361.7	(0.1)	30.8	466.9	435.8	31.1
RL-0041 - Nuc Fac D&D - RC Closure Project	0.6	0.3	0.2	(0.3)	0.1	312.1	311.6	283.5	(0.5)	28.1	394.7	364.9	29.9
RL-0042 - Nuc Fac D&D - FFTF Project	0.2	0.2	0.1	(0.0)	0.1	18.8	18.7	15.4	(0.0)	3.4	26.6	20.1	6.5
<b>Total</b>	<b>38.0</b>	<b>35.8</b>	<b>30.5</b>	<b>(2.2)</b>	<b>5.3</b>	<b>3,909.8</b>	<b>3,883.4</b>	<b>3,812.1</b>	<b>(26.3)</b>	<b>71.3</b>	<b>5,404.8</b>	<b>5,234.1</b>	<b>170.6</b>

(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 \$170.6 million with \$78.4 million of Management Reserve for a total positive variance of \$249 million.

For January, the project was 5.7% behind schedule and 14.8% under planned cost. For FY2015, the project was 0.7% ahead of schedule and 10.4% under planned cost. The current month schedule variance was primarily attributed to S&GRP 100-KR-4 drilling encountering difficult conditions, due to size of

boulders and cobbles that has required re-drilling with larger diameter casings. In addition, the 200-UP-1 drilling is also encountering delays due to a broken drill bit, thus requiring removal of all the drilled casing, backfilling and repair of the drill bit, and then having to re-drill the borehole. The current month cost variance was primarily due to implementation of planned efficiencies across multiple projects.

## FUNDING ANALYSIS

### FY2015 Funds vs. Fiscal Year Spend Forecast (\$M)

PBS	Project	FY2015		Variance
		Projected Funding	Spending Forecast	
RL-0011	Nuclear Materials Stabilization and Disposition	118.4	118.3	0.0
RL-0012	Spent Nuclear Fuel Stabilization and Disposition	81.7	80.1	1.6
RL-0013	Waste and Fuels Management Project	86.6	82.1	4.4
RL-0030	Soil, Groundwater and Vadose Zone Remediation	137.8	137.1	0.7
RL-0040	Nuclear Facility D&D, Remainder of Hanford	12.5	12.5	0.1
RL-0041	Nuclear Facility D&D, River Corridor	6.8	8.1	(1.3)
RL-0042	Fast Flux Test Facility Closure	1.4	1.3	0.1
<b>Total Base:</b>		<b>445.1</b>	<b>439.6</b>	<b>5.6</b>

#### Funds/Variance Analysis:

FY2015 expected funding did not change in January, and remains at \$445.1 million. The Spending Forecast increased from last month to include Performance Analysis and Risk Management Integration work scope. PBS RL-0041 continues to show a funding challenge due to an updated estimate for the Boreholes which requires coordination with RL to resolve.

## BASELINE CHANGE REQUESTS

In January 2015, CHPRC approved and implemented eight (8) BCRs impacting the PMB. The Change Requests are identified in the table below:

Change Request #	Title	Summary of Change
<b>Implemented into the Earned Value Management System</b>		
BCR-013-15-002R1	<i>FY2015 Shipment/Repackaging of Large TRU Waste Box from CWC</i>	This BCR corrects an error in BCR-013-15-002R0, FY2015 Shipment and Repackaging of Large Suspect TRU Waste Box, which incorrectly assigned the activities to WBS 013.06.01.08.01. The correct WBS is 013.06.08.01.04. Revision 1 to BCR013-15-002 corrects this error. There are no other changes to this BCR. This BCR did not change the PMB value.
BCR-030-15-001R1	<i>CO #260, 100-NR-2 Operable Unit Bioventing System</i>	This BCR incorporates RL direction to increase the Not to Exceed (NTE) amount for Change Order (CO) #260, 100 NR-2 Operable Unit Bioventing System, from \$150K to \$350K as authorized via contract modification (CM) 381. This change increased the PMB by \$150K.

Change Request #	Title	Summary of Change
BCR-030-15-012R0	<i>Transfer PBS RL-030 CLIN 7 Scope to PMB</i>	This BCR transfer scope from CLIN7 into the PMB consistent with RL direction provided in Letter 1405448 DOE-RL Contracting Officer Concurrence Baseline Alignment to Contract. This BCR increased the PMB by \$3,208K.
BCR-040-15-001R0	<i>Reinstate PBS RL-040 FY2016 &amp; FY2018 Min Safe</i>	This BCR moves scope from CLIN 7 into the PMB to ensure the required level of Project Management is available to support required Minimum Safe activities from FY2016 – FY2018. This change is incorporates RL direction provided in Letter 1405448 DOE-RL Contracting Officer Concurrence Baseline Alignment to Contract. This BCR increased PMB by \$423K.
BCR-041-15-005R0	<i>PBS RL-041 Planning Adjustment</i>	This BCR defers the planned start of work associated with WBS 041.02.02.03.02 100-K Area AB Part 2, WBS 041.02.11.05.01 Project Support for Waste Sites and WBS 041.90.01.02 Assessments for MSC Services from March 2015 to June 2015. The delay in the start of this work scope will allow additional time for CHPRC to work with DOE-RL to develop and agree on an appropriate path forward for the 100-K Area AB Part 2 remediation work scope and complete a detailed analysis of required values for FY2016-2018 for WBS 041.02.11.02CP Program Management. This BCR did not change the PMB value.
BCR-PRC-15-001R1	<i>Partial Definitization of CO #251, 200-UP-1 Uranium Treatment at 200W P&amp;T</i>	This BCR (revision 1 to BCR-PRC-15-001) returns TPA milestone M-016-190, “Complete the installation of extraction and injection wells for the U Plant area pump & treat system for uranium and technecium-99, and the iodine-129 hydraulic containment system as defined in the 200-UP-1 RD/RA WP” to its correct due date of 9/30/15 and modifies other activities that were impacted by this one day change. This BCR did not change the PMB value.
BCR-PRC-15-016R0	<i>Definitization of CO #256, 200-BP-5 Pipelines</i>	This BCR incorporates scope associated with CM 379, which definitizes CO 256, 200-BP-5 Design and Install-Ready Activities. Per the modification, this BCR also moves scope within WBS 040.02.30.02.04 – PFP IA – North – Facilities from the PMB to CLIN 7 to maintain PMB alignment with the B.4-1 Table. This BCR decreased the PMB by -\$298K.
BCR-PRC-15-018R0	<i>Undistributed Budget Adjustments January 2015</i>	This BCR incorporates changes to Undistributed Budget for baseline changes processed and contract modifications received during the month of January. This change increased the PMB by \$3,298K.
BCR-013-15-002R1	<i>FY2015 Shipment/Repackaging of Large TRU Waste Box from CWC</i>	This BCR corrects an error in BCR-013-15-002R0, FY2015 Shipment and Repackaging of Large Suspect TRU Waste Box, which incorrectly assigned the activities to WBS 013.06.01.08.01. The correct WBS is 013.06.08.01.04. Revision 1 to BCR013-15-002 corrects this error. There are no other changes to this BCR. This BCR did not change the PMB value.

Overall, the contract Performance Measurement Baseline budget increased \$6,781K.

### Management Reserve Activity

BCR Number	Title	Fiscal Year	MR
N/A	N/A	N/A	N/A

There were no changes to Management Reserve during January.

### Fee Activity

BCR Number	Title	Fiscal Year	Fee
N/A	N/A	N/A	N/A

There were no changes to Fee during January.

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):

### January 2015 Summary of Changes

	FYs 2009-2013	FY2014	FY2015	FY2016	FY2017	FY2018	FYs 2014-2018	Contract Period Total	Total PMB
<b>December 2014 Estimate</b>									
PMB	3,391,477	391,653	443,749	436,304	371,144	363,660	2,006,510	5,397,986	5,397,986
MR	0	0	6,285	21,000	20,506	30,649	78,440	78,440	78,440
Fee	155,504	14,325	13,501	19,800	8,800	16,573	72,999	228,503	228,503
<b>Total</b>	<b>3,546,981</b>	<b>405,978</b>	<b>463,535</b>	<b>477,104</b>	<b>400,450</b>	<b>410,882</b>	<b>2,157,949</b>	<b>5,704,929</b>	<b>5,704,929</b>
<b>January 2015 Change</b>									
<b>PMB</b>									
Change to PMB	0	0	3,085	7,286	1,025	-4,615	6,781	6,781	6,781
<b>MR</b>									
Change to MR	0	0	0	0	0	0	0	0	0
<b>Fee</b>									
Change to Fee	0	0	0	0	0	0	0	0	0
<b>Total Change</b>	<b>0</b>	<b>0</b>	<b>3,085</b>	<b>7,286</b>	<b>1,025</b>	<b>-4,615</b>	<b>6,781</b>	<b>6,781</b>	<b>6,781</b>
<b>January 2015 Estimate</b>									
PMB	3,391,477	391,653	446,834	443,590	372,169	359,045	2,013,291	5,404,768	5,404,768
MR	0	0	6,285	21,000	20,506	30,649	78,440	78,440	78,440
Fee	155,504	14,325	13,501	19,800	8,800	16,573	72,999	228,503	228,503
<b>Total</b>	<b>3,546,981</b>	<b>405,978</b>	<b>466,620</b>	<b>484,390</b>	<b>401,475</b>	<b>406,267</b>	<b>2,164,730</b>	<b>5,711,711</b>	<b>5,711,711</b>

**Changes to/Utilization of Management Reserve in January 2015**

	FY2009-2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2014-2018	Total
<b>December 2014 MR Totals</b>								
RL-0011	0	0	1,052	8,000	8,000	0	17,052	17,052
RL-0012	0	0	2,000	3,000	5,000	3,897	13,897	13,897
RL-0013	0	0	1,000	2,000	800	6,824	10,624	10,624
RL-0030	0	0	832	3,000	2,006	8,828	14,666	14,666
RL-0040	0	0	700	1,500	1,800	4,000	8,000	8,000
RL-0041	0	0	600	3,450	2,800	7,000	13,850	13,850
RL-0042	0	0	100	50	100	100	350	350
<b>Total</b>	<b>0</b>	<b>0</b>	<b>6,284</b>	<b>21,000</b>	<b>20,506</b>	<b>30,650</b>	<b>78,440</b>	<b>78,440</b>
<b>January 2015 MR Changes/Utilization</b>								
<b>RL-0011</b>	0	0	0	0	0	0	0	0
<b>RL-0012</b>	0	0	0	0	0	0	0	0
<b>RL-0013</b>	0	0	0	0	0	0	0	0
<b>RL-0030</b>	0	0	0	0	0	0	0	0
<b>RL-0040</b>	0	0	0	0	0	0	0	0
<b>RL-0041</b>	0	0	0	0	0	0	0	0
<b>RL-0042</b>	0	0	0	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>January 2015 MR Totals</b>								
RL-0011	0	0	1,052	8,000	8,000	0	17,052	17,052
RL-0012	0	0	2,000	3,000	5,000	3,897	13,897	13,897
RL-0013	0	0	1,000	2,000	800	6,824	10,624	10,624
RL-0030	0	0	832	3,000	2,006	8,828	14,666	14,666
RL-0040	0	0	700	1,500	1,800	4,000	8,000	8,000
RL-0041	0	0	600	3,450	2,800	7,000	13,850	13,850
RL-0042	0	0	100	50	100	100	350	350
<b>Total</b>	<b>0</b>	<b>0</b>	<b>6,284</b>	<b>21,000</b>	<b>20,506</b>	<b>30,650</b>	<b>78,440</b>	<b>78,440</b>

### 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 -1/31/2015				Projection to FY2018	
Reporting Category				Planned Subcontracting:	\$2,406,850,560
				Contract-to-date awards:	\$2,174,933,589
				Bal remaining to award:	\$231,916,971
	\$ Value	%	Goal %	Goal award\$	Bal to Goal
SB	\$1,099,616,828	50.56%	49.3%	\$1,186,577,326	\$86,960,498
SDB	\$190,912,681	8.78%	8.2%	\$197,361,746	\$6,449,065
SWOB	\$215,431,110	9.91%	7.5%	\$180,513,792	-\$34,917,318
HUB	\$37,619,986	1.73%	2.2%	\$52,950,712	\$15,330,727
VOSB	\$127,987,468	5.88%	3.5%	\$84,239,770	-\$43,747,698
SDVO	\$62,325,550	2.87%	1.3%	\$31,289,057	-\$31,036,493
NAB	\$31,634,891	1.45%	N/A	PRC clause H.20 small business requirement ≥ 17% of total Contract Price performed by SB.	
Large	\$586,406,146	26.96%	N/A		
GOV'T	\$2,197,245	0.10%	N/A		
GOV'T CONT	\$482,866,522	22.20%	N/A		
EDUCATION	\$96,593	0.00%	N/A	Total Contract (mod 388):	\$5,696,680,278
NONPROFIT_	\$3,436,826	0.16%	N/A	17% rqmt:	\$968,435,647
FOREIGN	\$313,428	0.01%	N/A	SB actual:	\$1,099,616,828
<b>Total</b>	<b>\$2,174,933,589</b>	<b>100.00%</b>	<b>N/A</b>	<b>Bal to rqmt</b>	<b>-\$131,181,181</b>

Notes:

1. Since the CHPRC contract award in October 2008, CHPRC has subcontracted over \$2.1 billion in goods and services with over 50 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
<b>CONTRACT</b>			
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 Carlsbad Field Office.	Ongoing

# Section A

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



**J. M. Swartz**  
Vice President for  
PFP Closure Project

January 2015  
CHPRC-2015-01, Rev. 0  
Contract DE-AC06-08RL14788  
Deliverable C.3.1.3.1 - 1

## PROJECT SUMMARY

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

<i>Key Performance Indicators</i>	<i>Current Month</i>	<i>Contract To Date</i>
Glovebox/ Hood Removed or Dispositioned in Place	1	220 gloveboxes/hoods
KPP Rooms/Areas Ready for Demo	-	60 rooms/areas
Asbestos/ACM Removed	330	18,071 feet
Process Vacuum Piping Dispositioned	-	2,545 feet
Process Transfer Line Dispositioned	-	1,153 feet
Pencil Tank Units Removed (Shipped)	10	173 pencil tank units
Buildings Ready for Demo	-	40 structures
Buildings Demolished or Removed	-	40 structures
Non-radioactive Waste Shipped	0	57 m <sup>3</sup>
TRU/TRU-M Shipped	50	1,497 m <sup>3</sup>
LLW/MLLW Shipped	22 m <sup>3</sup>	6,063 m <sup>3</sup>

Removal of plutonium-contaminated process equipment continued, with a particular focus on removing gloveboxes, associated piping, and ductwork. The total gloveboxes removed to date is at 94 percent complete.

- Completed implementation of Revision 11 to the annual update of the Plutonium Finishing Plant (PFP) Deactivation and Decommissioning Documented Safety Analysis (DSA) and PFP Technical Safety Requirements (TSRs).
- Completed first required Enhanced Maintenance Plan (EMP) Revision 2 exhaust fan impeller inspection of EF-2, EF-3, and EF-5.
- Completed size reduction and seal out of 236-Z Pencil Tanks 120/123 (5 Units)
- Shipped Pencil Tanks 21/22, 43/44, and 50 (10 units)
- Completed Bulk Area Cleanout in RMA Line
- Completed isolation and size reduction of WT-3 Glovebox in 242-Z Control Room
- Continued work on size reduction and removal of WT-2 Glovebox in 242-Z Control Room
- Made initial entry and performed initial characterization in the 242-Z Tank Room
- Began removing filters and decontaminating filter boxes 19 and 21 in the 234-5Z duct level
- Removed ~262 feet of E4 ducting
- Applied fixative to ~1339 feet of E4 ducting

## EMS Objectives and Target Status

Objective #	Objective	Targets	Actions	Due Date	Status
15-EMS-PFP-OB1-T1	Reduce/eliminate potential contaminated effluents (air and liquid) from PFP complex	1. Remove material at risk to reduce potential air emissions. 2. Reduce/eliminate contaminated liquid effluents.	1. Evaluate the percent reduction of potential emissions compared to the PTE in the RAWP archived due to removal of material at risk completed by the end of January 2015	02/16/15	20%
			2. Evaluate the percent reduction of potential emissions compared to the PTE in the RAWP archived due to removal of material at risk completed by the end of August 2015	09/15/15	
			3. Eliminate contaminated waste water streams and shut down 243-Z treatment facility (includes 296-Z-15 stack)	09/30/15	

## TARGET ZERO PERFORMANCE

	Current Month	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	0	N/A
Total Recordable Injuries	0	2	
First Aid Cases	6	50	<ul style="list-style-type: none"> <li>• 1/13/15 – Employee was stepping over a raised pipe and caught rubber bootie causing his right knee to twist. Employee was taken to HPMC where he was examined and diagnosed with sprain/strain. He was released to work without restriction. (23547)</li> <li>• 1/15/15 – Employee fell and stated he was okay. He was taken to HPMC on 1/19/15 where he was examined and diagnosed with lower back sprain/strain. No treatment was given and he returned to work without restriction. (23561)</li> <li>• 1/20/15 – Employee was pushing a cart when he noticed pain in his right knee. He was taken to HPMC where he was examined and diagnosed with sprain/strain to knee. Cold pack was administered and non-prescription medication was given. Employee was released to work with restrictions. (23562)</li> <li>• 1/20/15 – Employee reported he had been bitten by a bug (type unknown). He was transported to HPMC where he was given first aid and released to work without restriction. (23564)</li> <li>• 1/21/15 – Employee jammed finger on right hand and was unable to straighten the tip of the finger. He was taken to HPMC and diagnosed with damage to the tendon at the end of the finger. Employee will follow up with orthopedic doctor. (23567)</li> <li>• 1/23/15 – Employee fell when clothing caught on pipe he was stepping over. He was taken to HPMC, examined and diagnosed with contusions to both hands. No treatment was given and employee returned to work without restriction. (23568)</li> </ul>
Near Misses	0	0	N/A

## KEY ACCOMPLISHMENTS

### 11.02 Maintain Safe & Compliant PFP

- Completed implementation of Revision 11(annual update) of the Plutonium Finishing Plant (PFP) Deactivation and Decommissioning Documented Safety Analysis (DSA) and PFP Technical Safety Requirements (TSRs).
- Provided RL with a draft of the DSA and TSR Revision 12 for cross-table review and initial comment.
- Completed first required Enhanced Maintenance Plan, Revision 2 exhaust fan impeller inspection of EF-2, EF-3, and EF-5.

### 11.05 Disposition PFP Facility

#### 242-Z

- Completed size reduction and removal of WT-3 Glovebox in 242-Z Control Room
- Continued work on size reduction of WT-2 Glovebox in 242-Z Control Room
- Made initial entry and performed initial characterization in the 242-Z Tank Room

#### 234-5Z

- RMA Line
  - Completed Bulk Area Cleanout in RMA Line.
- Duct Level
  - Began removing filters and decontamination efforts on filter boxes 19 and 21
  - Removed ~262 feet of E4 ducting
  - Applied fixative to ~1339 feet of E4 ducting

#### 236-Z Plutonium Reclamation Facility (PRF)

- Pencil Tanks
  - Completed size reduction and seal out of 236-Z Pencil Tanks 120/123 (5 Units)
  - Shipped Pencil Tanks 21/22, 43/44, and 50 (10 units).

## MAJOR ISSUES

**Issue – The existing DSA does not address physical demolition of PFP facilities or leaving high hold-up items in-place for targeted excision during the demolition phase.**

**Corrective Action** – Assemble a team of nuclear safety professionals to develop step out conditions and criteria for the existing facility safety systems. Effort will culminate in a revision to the PFP DSA for the final deactivation and demolition phases of the mission.

**Status** – The DSA/TSR was submitted to RL on January 8, 2015. The team has submitted Hazard Analysis comment resolutions to RL for concurrence, and is in the process of responding to comments on the DSA/TSR.

**Issue – Current Non Destructive Analysis (NDA) Equipment is not providing adequate information to assist in reducing the Material at Risk values at PFP**

**Corrective Action** – Three independent systems have been procured to assist in safeguards measurements. One is an Ortec System, which is a hand-held NDA measurement tool; the second and third are Canberra Germanium Counters that are currently being calibrated.

Once both systems have been calibrated and are approved by safeguards, a few of the applications these systems could be used for include:

- Ortec System – 242-Z Tank Room tanks, PRF Canyon floor and walls, 291-Z Plenum.
- Canberra Systems – Trenches, 242-Z Tank Room tanks, 291-Z Stack. A dedicated system could also be placed in the A-Labs area to deal specifically with 242-Z waste.
- Once the Ortec and Canberra systems are approved for safeguards measurements they could be utilized to assay waste at the point of generation versus funneling everything through RADTU.

**Status –**

- Ortec system - Writing and validation of the calibration and operating procedures is ongoing. Comments have been given to the independent NDA consultant for incorporation.
- The collimator has been delivered and calibration of the Ortec instrument has commenced.
- Canberra systems – Calibration has been completed and the systems have been deployed.
- The first gloveboxes to be measured with new systems will be HC-18M, HA-9A and HC-9B. In addition, the tanks in 242-Z are also being measured with the new equipment.

## RISK MANAGEMENT STATUS

**Unassigned Risk**  
**Risk Passed**  
**New Risk**  
**Change**

 Response Plan Effective  
 Response Plan Partially Effective  
 Response Plan Not Effective

 Increased Confidence  
 No Change  
 Decreased Confidence

Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
<b>RL-011/WBS 011</b>				
<b>Overarching PFP Risks</b>				
PFP-009: Aging Building Systems/Components Problems Impact Planned D&D Activities  Risk Owner: James Brack	Included life extension upgrades as part of FY-14 Annual Baseline Update and include HEPA filter replacement, replacement of air compressors, and electrical switchgear upgrades. Perform critical system reliability assessments; maintenance practices; procure critical spares, and maintain existing redundancies. Perform vibration monitoring on the supply and exhaust fans, maintain spare parts for motors. Perform visual and other non-destructive test methods on fans to look for cracks or other defects. Establish an aggressive fan vibration monitoring/surveillance program. Utilize results from inspections to remove fans from service for repair prior to catastrophic failure.			Routine preventive and corrective maintenance activities are expected to allow the project to meet the end state of slab on grade by 9/30/16. Technical Safety Requirements will be relaxed with the implementation of DSA Revision 12, allowing reductions in the amount of preventive and corrective maintenance activities required to reach the project end state.
PFP- 079 – Extend Respiratory Protection Time & Operating Efficiencies  Risk Owner: Ruben Trevino	Establishing expectations and behaviors that streamline the shift/pre-job briefings, dress/undress times to allow for additional on-tool time and achieve 2-entries per day. Monitor stay-times and work patterns to establish efficiency increases to 2.5 hours per entry. Achieve consistency in work package preparation to minimize down-time.			Negotiations were successful to extend respiratory protection time with the ratification of the Collective Bargaining Agreement effective November 11, 2013. The PFP project has implemented extended dives since implementation of the agreement, and longer stay times in the field are being realized. Continuing to implement Breakthrough Initiative number 1, Tool Time actions, and have developed tracking tools to monitor employees' time backside on a daily/weekly basis. 242-Z and PRF Project are consistently being successful in two dives per day averaging three hours each. The ETC is reflecting this as these efficiencies and positive changes in remaining duration are being reflected in the Field Execution Schedules. No change in the month of January.
PFP-083: System Back-Out Plan Implementation Extends Schedule  Risk Owner: Ed Jacobs	Identify Back-out Plan implementation activities, durations, logic ties, and resources; and integrate these activities in the project execution schedule. Work activities may be re-sequenced to minimize impacts to the critical path schedule. Where needed, utilize subcontractors with credibility and experience for analysis and document preparation support. Work closely with DOE-RL and Regulators to identify review points to streamline approval process and reduce approval turnaround durations.			Back-out plan implementation activities have been integrated in the field execution schedules with logic ties and durations identified to ensure resources are assigned to perform the necessary back-out preparatory activities in a timely manner and not delay deactivation of facility systems.

Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
<b>RL-011/WBS 011</b>				
<p>PFP-086: Alternate/Temporary System Capabilities Required Prior to Building Demolition</p> <p>Risk Owner: Ed Jacobs</p>	<p>Management Reserves may be required to acquire equipment and services to provide the required alternate temporary facility system services and functions during demolition preparation. Identify MAR that may remain and identify CHPRC and DOE decision points to deactivate ventilation and fire systems. Evaluate air flow and required air changes to minimize contamination spread and establish air flow utilizing existing ducting to the extent practical with air movers and HEPA filtration through existing stack and monitoring.</p>	●	↔	<p>Alternate temporary facility system services and functions beyond those currently planned may be required to support building demolition. Currently identifying MAR that may remain and identifying CHPRC and DOE decision points to deactivate ventilation and fire systems. Evaluating air flow and required air changes to minimize contamination spread and establish air flow utilizing existing ducting to the extent practical with air movers and HEPA filtration through existing stack and monitoring. Support staff continues to evaluate segregation of 234-5Z. An estimate was complete in the month of December, and management is evaluating engineering options to minimize airflow demands and requirements. Determination of the need for a temporary system is ongoing and a final determination of the need will be made in the summer of 2015. After review, the risk probability and consequence do not meet the requirements of a "Key Project Risk". Risk has a ranking of significant, with a moderate threat value. This risk will no longer be reported against, but internal monitoring will continue.</p>
<p>PFP-091: Approval of DSA Revisions</p> <p>Risk Owner: Tom Bratvold</p>	<p>A team of professionals has been assembled to develop the DSA revision to support open air demolition of a Hazard Category II PFP. This effort will be managed as an independent project from PFP daily activities. A partnering approach will be established with RL SMEs and management to expedite the effort and flush out concerns or obstacles early on. This risk is a bounding assumption associated with completion of PFP to Slab-On-Grade.</p>	●	↔	<p>Revision 11 has been implemented. Peer reviews and an independent review have been completed and comments incorporated into the DSA/TSR. A review copy of the DSA/TSR and supporting documents was provided to RL on January 8, 2015 for comment. Comments will be documented and resolved prior to formal submittal to RL for approval. It is expected that Revision 12 will be implemented late-June 2015, with no additional controls enforced.</p>
<p>PFP-092: Increased Characterization</p> <p>Risk Owner: Ted Hopkins</p>	<p>Events at the facility may increase the need for characterization above what is planned for cost and schedule.</p>	●	↔	<p>Characterization results for 234-5Z Duct Level have shown that some ducting may remain in place with appropriate mitigation (e.g. isolation, fixative application, etc.). However, the data shows that a large amount of the pre-filter box duct will need to be removed prior to demolition. Current results provide valuable information that will alter our approach to ductwork characterization. Going forward the project will implement a more targeted approach by coupon sampling to determine duct removal to points in the system where coupons may begin to show lower activity, which would indicate no further removal would be required. This differs from the previous approach of mapping the system to determine the amount of material-at-risk in duct segments to determine mitigation and waste disposition. The current approach to characterization will be to have field work teams collect coupon sample as work is being performed in their respective areas. This will ensure that real time information is received to allow the teams to effectively work on the area vs. system approach. Teams continue to perform characterization activities in the month of January.</p>
<p>PFP-093: Regulatory interpretation of "1-kg" prior to starting demolition</p> <p>Risk Owner: Tom Bratvold</p>	<p>Work with RL and the regulators to gain an understanding of the requirement and how it will be applied during demolition. Accelerate PRF Pencil Tank removal. Obtain assay measurements of the PRF floor once the pencil tanks are removed to facilitate revision to environmental documents (i.e. EECA). The revision to the environmental documents will allow for modification of end-point criteria and define the regulatory interpretation of "1-kg" as related to PRF.</p>	●	↔	<p>CHPRC Counsel has discussed the meaning/intention of the Action Memo and EE/CA statements pertaining to residual contamination remaining in the slabs and below grade portions of PFP following structure demolition, specifically the "may contain significantly less than 1 kg" sentence. The RL Office of Chief Counsel concurs that the sentences in the EE/CA and Action Memo were merely estimates based on the information available at the time, 10 years ago. RL Counsel stated there is no intent to make achievement of "significantly less than 1 kg" into an enforceable contract specification.</p>

Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
<b>RL-011/WBS 011</b>				
PFP-094: Approval of CSER Documents  Risk Owner: Tom Bratvold	A team of professionals is being assembled to develop the CSER Documents. This effort will be managed as an independent project from PFP daily activities. A partnering approach will be established with RL SMEs and management to expedite the effort and flush out concerns or obstacles early on. This risk is a bounding assumption associated with completion of PFP to Slab-On-Grade.			Reduced number of needed CSERS from 11 to 6. Met with Criticality Safety manager and verified CSER milestones are appropriately captured in the FES for 234-5Z, 236-Z, and 242-Z. No CSERs are needed for 291-Z as that facility will simply be downgraded from criticality hazards upon removal of a portion of the 26" vacuum line with high hold-up. 291-Z line removal is captured in the FES. CSERs are on track and appropriately planned in the FES, to support the project need.
<b>242-Z Risks</b>				
PFP-242-02: 242-Z Characterization Laboratory Results Delayed  Risk Owner: John Carranco	1.) Coordinate sampling results and analysis in conjunction/sequence with planned D&D activities such that the results are back prior to the need date to support D&D. 2.) Communicate with laboratory the sampling plans, priority, and expected results of the samples currently being analyzed. 3.) Expedite sampling turnover times 4.) Have pre-approved work packages prepared in advance for other portions of work. This will allow work to be re-sequenced to maintain effectiveness and efficiencies of the work team (Complete). 5.) Utilize overtime to recover schedule to recover from delays.			Early NDA and radiological characterization efforts have been completed and are not expected to impact the completion date of the 242-Z ready for demolition activities.
PFP-242-06: More RH-TRU than Planned from 242-Z  Risk Owner: John Carranco	Utilize results from radiological and analytical characterization to develop size reduction plans. Work with the waste packaging and characterization group to understand requirements for RH-TRU waste and packaging techniques to minimize RH-TRU waste.			242-Z Teams have been established and, working with PFP Waste Operations, have developed work packages which include packaging instructions on RH-TRU waste. No impacts during the month of January. Characterization results have indicated that this is no longer a risk to the PFP project and this risk will be closed in February.
<b>291-Z Risks</b>				
PFP-291-01: 291-Z Characterization Unknowns  Risk Owner: Ted Hopkins	Develop characterization plans and objectives. Review historical documentation of facility construction and accident event reports. Incorporate characterization information into facility work plans and execution documents.			Opportunities are being identified to characterize early during maintenance activities which result in allowance of some of the operating fans to be shut down. The plan of the week/day will be the communication tool to determine when early characterization can be conducted. No opportunities were identified in the month of January to characterize early.
<b>Balance of Plant Decontamination/Decommissioning Risks</b>				
PFP-BOP-02: Overall D4 Schedule Impacts From Interferences Between Sub-projects  Risk Owner: Ruben Trevino	The facility has developed an integrated priority list for all in-plant activities for resource assignment in accordance with priority. PFP has developed team communication meetings to prioritize resources on a daily basis. External facility resources are prioritized through MSA between PRC subprojects. These techniques ensure the resources are assigned to the highest priority work. Identify new D&D field teams to conduct Walk-downs and Work package development to improve interfaces within subprojects.			Additional field teams have been identified to initiate work in the duct level for the month of December. Previously identified teams continue to perform filter box removal, and HVAC duct removal efforts in the month of December. Changes have been implemented to the work package development process for the development of one work package to support efforts on all E4/E3 ducting, transfer lines, 26 inch process vacuum piping, filter bank removal, etc. This will allow additional field work teams to transition to the duct level work without initiating development of further work packages. Field work teams have been identified. As work is completed in RMA/RMC and Backside Rooms, field work teams will transition to work in the duct level. No change in January.

Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
<b>RL-011/WBS 011</b>				
<b>PFM Demolition Risks</b>				
PFM-DEMO-02: Air Modeling Increases Equipment Removal/Decontamination for Demo  Risk Owner: Ted Hopkins	Work with the CHPRC environmental team to ensure that an understanding of equipment, components, and residual material criterion are understood and bounded for air modeling. Once the residual material/contamination is quantified, work with regulators to identify controls to allow for equipment removal and demolition as planned. Develop and implement plans to document criterion are met.			The current air modeling plan is based on assumptions of what the facility conditions may be at the time before demolition. Characterization activities that are and will be performed will provide actual data that will be used in the model. Based on the model results, the project will make adjustments to its demolition approach. Field characterization survey plans are currently under development. A characterization survey plan has been developed for PFM ventilation, and field characterization of E4 ducting continue when crews are in a given survey unit. As characterization unit survey plans are developed, they will be added to work packages. SOW is in progress for PNNL to update PFM Air Modeling based on actual facility data and assumptions from unknown characterization. SOW is expected to complete in February, with data to follow in March to commence Air Modeling. The updated air dispersion model will be completed by September 30, 2015.
PFM-DEMO-12: PFM/PRF Demolition Contamination Levels  Risk Owner: Ruben Trevino	HAZCAT II controls will remain in place for the balance of the demolition activities. Waste packaging will be adjusted as needed to meet transportation requirements or ERDF waste acceptance criteria; however, these actions will not be taken unless the contamination levels warrant the additional packaging.			Although this is an out year risk the consequences have the potential to impact critical path work scope. To ensure mitigation, radiological characterization of 234-SZ, 236-Z, and 242-Z will need to be complete and the Mass Balance technical paper to be written. The resulting Mass Balance rubble calculation values will indicate whether we have areas that will need any "blending" of the rubble that is shipped to ERDF.
PFM-DEMO-19: PFM & PRF rubble and debris disposition  Risk Owner: Ruben Trevino	Treatment will likely be in the form of waste blending for acceptance at ERDF. However, due to levels of transuranic isotopes present, the waste may need to be packaged into drums or boxes for transfer to CWC for storage and certification for off-site treatment and disposal.			Although this is an out-year risk, the consequences have the potential to impact critical path work scope. To ensure mitigation radiological characterization of 234-SZ, 236-Z, and 242-Z will need to be complete and the Mass Balance technical paper to be written. The resulting Mass Balance rubble calculation values will indicate whether we have areas that will need any "blending" of the rubble that is shipped to ERDF.
<b>PRF Cleanout/Decontamination Risks</b>				
PFM-PRF-01: PRF Canyon Cleanout Scope Increases  Risk Owner: Ed Jacobs	Characterization data will be collected as early as feasible to allow early identification of any issues associated with the planned approach.			Dose rate survey results were mapped on September 25th to obtain accurate dose results (unmitigated) to plan manual entries and grouting requirements. Preliminary results indicate that dose is manageable inside the canyon, and planning assumptions have been updated to reflect this data. Data collected will also be factored in planning for entries to install grout conveyance system. Canyon floor grouting CSER is proceeding and scheduled completion date is March 16, 2015. Canyon clean-up is proceeding based on current plans to complete pencil tank size reduction, remove debris pile and loose debris on floor, perform floor grouting, then characterize walls and perform decontamination. The grouting evolution is expected to be initiated upon completion of Pencil Tank Size Reduction, late May 2015.
PFM-PRF-02: PRF Canyon Crane Reliability Issues Result in Cost/Schedule Growth  Risk Owner: Ed Jacobs	Perform necessary preventative maintenance actions associated with canyon crane and ensure appropriate spares are on site to minimize schedule impacts in the event of equipment failure. Minimize the use of the crane to the extent practical. Obtain independent assessments of the crane. In the event of a crane failure, attempt to utilize work force on other projects to minimize down-time for work force.			Canyon Crane worked as expected in the month of January. Functional monitoring will continue as canyon crane is currently expected to continue to function for pencil tank size reduction (late May 2015). Engineering will continue to monitor functionality, and make a final decision if additional FY2015 maintenance is required, but project will continue preventative maintenance activities. If crane fails, manned entries will be made to determine event. If crane fix is not immediate, work force will be diverted to other high priority work until the canyon floor is grouted and pencil tank size reduction will be completed with manned entries.

Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
<b>RL-011/WBS 011</b>				
<b>RMA/RMC Glovebox Removal Risks</b>				
PFP-GB-02: Glove boxes Isolation/Internal Strip out takes longer than planned  Risk Owner: Rick Garcia	Utilize existing drawings, tools and techniques for equipment removal. Gram loading/NDA of gloveboxes has been obtained. Perform additional NDA to determine location of holdup. Perform surgical extraction of high gram items. Evaluate the use of foam or other fixatives to expedite cleanup.	●	↔	Field teams incorporated lessons learned from similar work that has previously been performed at PFP. This risk will continue to be reported until all gloveboxes are isolated: 236-Z - Lack of resources to staff crews is impacting schedule for completing Column Glovebox work until June 2015. Gallery Glovebox work is scheduled to complete in June 2015. MT Glovebox work completed in December 2014. Delays do not impact critical path activities. 242-Z – This risk will continue to be monitored throughout completion of 242-Z strip outs, late May, 2015. This information is reflected in each respected ETC.
PFP-GB-06: Readiness Assessment Required Prior to Insitu-size Reduction  Risk Owner: Tim Trevis	Complete PRC-PRO-OP-055 early in the planning phase. Develop SOW for outside support to lead CHPRC readiness review activities. REB process to ensure RL management agrees with decision to complete readiness assessment.	●	↑	The QNSR has been submitted to RL indicating an RA is not necessary or warranted, according to our internal processes and procedures for evaluating level of startup rigor. Risk will be closed once a decision is made by RL to proceed. A decision is expected to be made by early February.

## PROJECT BASELINE PERFORMANCE

### Current Month

#### (\$M)

WBS 011/RL-0011 Nuclear Matl Stab & Disp PFP	Budgeted Cost of Work Scheduled (BCWS)	Budgeted Cost of Work Performed (BCWP)	Actual Cost of Work Performed (ACWP)	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)
Total	9.4	10.2	10.0	0.8	8.4%	0.2	2.0%

Numbers are rounded to the nearest \$0.1M

#### CM Schedule Variance: (+\$0.8M/+8.4%)

The current month favorable schedule variance is primarily the result of working behind schedule work scope associated with glovebox removal in the 234-5Z Remote Mechanical C (RMC) Line and 242-Z Control Room, and performing scope associated with the inspection of the Mezzanine chemical tanks in 242-Z earlier than planned. The D&D project management WBS is apportioned to the discrete D&D work and therefore contributes to this positive variance as well.

#### CM Cost Variance: (+\$0.2M/+2.0%)

The current month favorable cost variance is within reporting thresholds.

## 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	765.1	735.1	771.9	(30.0)	-3.9%	(36.8)	-5.0%	937.6	952.6	(15.0)

Numbers are rounded to the nearest \$0.1M

#### CTD Schedule Variance (-\$30.0M/-3.9%)

The Schedule Variance is within reporting thresholds.

**CTD Cost Variance (-\$36.8M/-5.0%)**

The Cost Variance is within reporting thresholds.

**Variance at Completion (-\$15.0M/-1.6%)**

The Variance at Completion is within reporting thresholds.

**Contract Performance Report Formats are provided in Appendix A.**

## FUNDS vs. SPEND FORECAST (\$M)

WBS 011/RL-0011 Nuclear Matl Stab & Disp PFP	FY2015		
	Projected Funding	Spending Forecast	Spend Variance
RL-0011	118.4	115.2	3.2

Numbers are rounded to the nearest \$0.1M

**Funds/Variance Analysis**

Projected Funding remained near \$118.4 million. The Spending Forecast decreased slightly from the prior month and includes actions anticipated to achieve the funding targets.

**Critical Path Schedule**

The PFP critical path runs through size reduction of the Plutonium Reclamation Facility (PRF) Pencil Tanks, Decontaminating/Scabbling/Fixing the PRF Canyon, Prepping the Gallery Gloveboxes and turning PRF into a Cold & Dark facility. This achieves completion of the M-083-44A TPA – *Complete Transition of 234-5Z & ZA/243-Z/291-1 & 291-Z Facilities* – and kicks off demolition of the PRF facility, then 242-Z/242-ZA and finally the 234-5Z facilities leading to completion of the final Tri-Party Agreement milestone – M-083-00A, *PFP Facility Transition and Selection Disposition Activities*.

**Baseline Change Requests**

None currently identified.

## 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-083-44A	Complete Transition of 234-5Z and ZA/243-Z/291-I & 291-Z Facilities	09/30/15		7/5/16	This Tri-Party Agreement completion has been impacted by sequestration and annual funding limitations. It is currently unattainable.
M-083-00A	PFP Facility Transition and Selection Disposition Activities	09/30/16		9/8/16	The PFP Project continues to make progress on the behind schedule critical path work scope being performed. However, this Tri-Party Agreement completion is at risk of meeting the September 30, 2016 commitment date.

## 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)



**L. T. Blackford**  
Vice President and  
Project Manager for  
Decommissioning, Waste,  
Fuels, and Remediation  
Services (DWF&RS)

January 2015  
CHPRC-2015-01, 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 and continued supporting the Engineered Container Retrieval and Transport System (ECRTS) Project work by supporting Annex construction activities. Continued debris dose rating and relocation activities in 105KW Basin.
- *The Preliminary Documented Safety Analysis (PDSA) for the Sludge Treatment Project Engineered Container Retrieval and Transfer System (ECRTS) and the Sludge Treatment Project (STP) Safety Design Strategy* letter continued to be reviewed by RL. RL has indicated the passive vent flow path as a backup to normal process ventilation will not be approved as submitted, but a revised Sludge Transport and Storage Container (STSC) headspace hydrogen mitigation control strategy has been discussed and a path forward is being evaluated. Partial approval of the PDSA is expected in early February, which would allow procurement and fabrication of components not affected by the potential change in hydrogen control strategy. An update to the PDSA to incorporate the revised hydrogen mitigation control will be submitted to RL for approval.
- The ECRTS Project continues to process additional procurement packages and has them in the formal acquisition process. Progress continued with the six fabrication contracts that have been awarded to date.
- Continued testing activities at the Maintenance and Storage Facility (MASF) and preparations for cold commissioning.
- Continued Operator training and familiarization with ECRTS components at MASF along with fabrication on support tools and equipment.
- STP Annex Construction continued to make progress on fire coating application, installation of electrical panels, and installation of metal wall framing and gypsum walls.
- In-Basin construction fieldwork for installing electrical equipment was initiated the first week of the month and made good progress on the electrical scope.

## EMS OBJECTIVES AND TARGET STATUS

None currently identified.

## TARGET ZERO PERFORMANCE

	CM Quantity	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	0	N/A
Total Recordable Injuries	0	0	N/A
First Aid Cases	3	22	<ul style="list-style-type: none"> <li>• Employee reported low back pain due to deicing activities. Body part affected: Low Back (23543)</li> <li>• Employee sustained a contusion to the head when hit in the head by a power cord. Body part affected: Head (23560)</li> <li>• Employee was in a man lift and touched the back of head to piping receiving a static shock. Body part affected: Head (23563)</li> </ul>
Near-Misses	0	0	N/A

## KEY ACCOMPLISHMENTS

- ECRTS Procurements:
  - Procurement Set #1; General Service (GS) XAGO Retrieval Tool - awarded limited notice to proceed to contractor
  - Procurement Set #2; GS Retrieval and Transfer System Components – Request for Proposal (RFP) was issued to GS Basic Ordering Agreement (BOA) holders for formal proposals.
  - Procurement Set #4; All Hose-in-Hose Transfer Line (HIHTL) Components were successfully received through AVS and transferred to storage.
  - Procurement Set #5; Safety Significant (SS) Transfer System Components - RFP was issued to the SS BOA holders for formal proposals.
- In-Basin Construction:
  - In-basin fieldwork began on January 6, 2015.
  - Installed conductors in the conduits from lighting panel LTG-PNL-SRSS to junction boxes and receptacles, and started terminating wires.
  - Completed re-routing conduit associated with ECRT-JB-102 and ECRT-JB-203.
  - Installed receptacles boxes ME203A and ME203B, and completed routing conduit from JB-203 to the Receptacles ME203A and ME203B.
  - Completed scabbling the floor in front of door 148 to support the installation of the shielding doghouse assembly.
  - Completed Electrical modifications in room 3.
- Maintenance and Storage Facility (MASF):
  - Completed fabrication of long pole tools, ratchet tool, and torque multiplier (to break loose flange nuts) to support removal of the top two sections of the Engineered Containers (ECs).
  - Complete fabrication of long pole slide hammer tool for use in 105KW Basin.
- KW Annex Construction:
  - Completed the installation of safety significant hanger/support systems.
  - Completed the installation of the interior stairs.
  - Completed coating of the fire sprinkler piping in the shop.
  - Completed the application of primer at the shop on the hydronic and compressed air piping.
- 100K Min Safe Engineering:
  - 105KW Basin completed the basin water loss calculation for the month of December and the KW-14A – 32-Ton Crane quarterly vital safety system walk down.
  - ECRTS Installation Support – the spreader bar to stabilize the top two sections of the ECs completed load testing and the critical lift plan to lift the top two sections of the ECs has been approved.

- 100K Operations - Resumed Debris Relocation:
  - o Relocated miscellaneous abandoned hoses and pole tools from the ECRTS in-basin equipment footprint.
  - o Moved two Floor Pit Sludge Retrieval (FPSR) Pumps from immediately in front of SCS-CON-240 in the 105KW Basin east bay to west bay.
  - o Drained and disconnected Ion Exchange Module (IXM) 4.
  - o Weighed, obtained dose rates, and relocated 18 Parsons baskets, canister lid bins and debris sorting bins from center bay to west bay.
  - o Completed 100K TriCarb Liquid Scintillation analysis.
  - o Updated the 105KW Basin debris map.
  - o Repaired the telescoping stiff back power cord cap.
  - o Weighed and obtained six-point survey on a 105KE dump bin and relocated the 105KE dump bin from center bay to west bay.
  - o Cleared miscellaneous pole tools and drop cord lights from the Weasel Pit open area and Tech View Pit open area so Ironworkers could span these open areas with grating to accommodate Construction walk-down of the XAGO skid mockup.

## MAJOR ISSUES

None currently identified.

### RISK MANAGEMENT STATUS

**Unassigned Risk**  
**Risk Passed**  
**New Risk**  
**Change**

 Risk Response Effective  
 Risk Response Partially Effective  
 Risk Response Not Effective

 Increased Confidence  
 No Change  
 Decreased Confidence

Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
<b>RL-0012/WBS 012</b>				
STP-011D: Additional Sludge Storage Space Required at T-Plant	The baseline has provided funding and resources to clear 3 cells (+3 already ready) that would store 36 STSCs (less 1 for Overpack and 2 for LDC's). The STP will continue to evaluate alternative sludge loading evaluations, based on updated characterization data, which may allow higher sludge loading per each STSC, and reduce the overall number of STSC required and lower the risk. It is assumed that the cell cleanout and installation of the additional liner/containment systems for the additional cell can be done in parallel with the receipt of STSC (one STSC every two weeks) with only 8 days of impact per month due to the crane being used for receipt and unloading of STSC's. (4 months x 8 days = 32 days of impact). Additional mitigation is that the need for an additional cell will be determine at least 6 months before the receipt of the last STSC based on operating history and efficiency of the STSC loading system at K Basins. Indications of realizing this risk should be known early on to minimize impacts.			This Critical risk is an out year risks, and will not be triggered until ~ 6 months prior to the receipt of the last STSC. Pending PDSA approval to allow blending of sludge types, this will reduce the total number of required STSC further mitigating this risk. In addition, management is continuing to review blending approaches to reduce the estimated number of STSC's.
STP-018: STP Operational Upset or Spill	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. Full-scale testing and training to respond to events is performed at MASF. Conduct rigorous startup testing following system installation at the 105KW Basin and Annex as this will validate the "leak-tightness" of the system. Workers are trained to ALARA practices to minimize impacts for events, but response to events requires detailed investigation. Overtime may be used to respond to events.			Mockup training for the operators on the test equipment has started in MASF with Cold Commissioning of Process Equipment to start in FY2016.

Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
<b>RL-0012/WBS 012</b>				
STP-067A: Safety Significant Components	Integrate nuclear safety representation on design team to minimize potential for an increase in the classification of safety significant SSCs in the ECRTS Process System Design. The project will conduct in-process reviews of the draft PDSA with RL to ensure reviewers fully understand the basis for current SSC safety classifications. The PDSA Revision 1 will be formally submitted to RL in September 2014.			CHPRC Nuclear Safety personnel were integrated on the ECRTS Design Team. CHPRC personnel conducted in-process review of the proposed PDSA revision (Rev. 1) with DOE RL. This document was consistent with CHPRC nuclear safety requirements and the project specific accident analysis. This revision of the PDSA incorporating the results of supporting analyses and design changes developed to incorporate ECRTS process system nuclear safety initiatives implementation, was submitted to RL for approval on September 22, 2014. A PDSA Safety Evaluation Report (SER) containing 3 Conditions of Approval (COAs) was transmitted to CHPRC on February 5, 2015 (1500632/15-NSD-0027_RL). Although CHPRC took significant actions to ensure the PDSA submittal would be acceptable to RL, the 3 SER COAs impose requirements on the ECRTS Project that were not incorporated in that draft PDSA revision 1 document and exceed safety classifications or controls that would normally have been driven by the CHPRC Nuclear Safety Processes. CHPRC personnel are reviewing the SER and associated COAs and will meet with RL to ensure a thorough understanding of RLs direction prior to proceeding with incorporating this feedback into the PDSA & associated design media. The cost and schedule impact will not be fully understood until CHPRC personnel meet with RL personnel to understand the implications.
STP-072: Delayed STSC/ECRTS Procurement & Delivery	Identify qualified vendors up-front, conduct fabricator on-site inspections, and ensure proactive involvement of engineering, QA, Project Controls, & Procurement personnel.			Risk mitigation strategy is effective – At this time, no forecasted delays. Continue to work closely with fabrication vendors (ABW Technologies Inc., Columbia Energy and Environmental Services, and HiLine Engineering and Fabrication Services). SSC fabrication risks have been effectively managed. Weekly interface meetings are held to ensure fabrication challenges are discussed and appropriately resolved.
STP-073: Processing Efficiency - Retrieval & Shipping	Review lessons learned from NLOP sludge retrieval. Incorporate operations personnel recommendations into the ECRTS Process System & STSC design. Test the Design on simulated sludge and test the production hardware to validate operability prior to installation in the 105 KW Basin. Fully train operations personnel on the system at MASF prior to commencing operations in the basin including providing adequate time to achieve reasonable operational proficiency. Additionally the project is evaluating alternatives to reduce the total STSC's by optimization of sludge loading.			Lessons Learned from previous NLOP Sludge Processing have been incorporated into the current sludge retrieval process system design. Extensive testing at the STP Test Facility (MASF) has been completed to validate the process system capability on sludge simulant. Operations personnel have trained on the process system equipment and will continue to participate in training activities through production system installation at 100K.
STP-073-A: OPP: Process Less Than 24 STSC's	The Project is able to reduce the number of STSC's purchased and filled to 18 STSCs. Project Planning believes 18-24 is now the range.			The project sought and received RL approval to layer sludge from more than one engineered container which will load STSCs in a more efficient manner. It is anticipated that layering STSCs will reduce the total number of STSCs required to store sludge by up to 25% of the previous baseline forecast.

Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
<b>RL-0012/WBS 012</b>				
STP-084: T-Plant Transition from Min-Safe Takes Longer than Planned	Initial activities to support the Sludge Treatment Project at T-Plant should include performance of critical assessments/inspection of facility support systems such as fire, ventilation, crane, and electrical to determine condition. Existing spare parts are adequate to ready to support the STP project.			The existing inventory of spare parts will be maintained at T-Plant or scavenged from other similar on-site cranes. During Initial startup/transition activities, the facility is doing an internal work site assessment after it re-staffs the facility, removes the tamper indicating tape from the canyon (i.e. allows canyon access) and complete the crane PM and all required life safety code inspections and testing. This will ensure the facility is ready to support the start of construction. This internal worksite assessment is in the project FES under ECDRM190, 200, 210, 220, 230 and ECDRM680. The expected finish date for T-Plant NLOP Work Site Assessment is October 22, 2015.
STP-085: Attrition Impacts Availability of Qualified Resources - T-Plant	Train second Crane Operator from CSB or other facility to support STP as a backup. To mitigate the consequences, provide OJT during min-safe activities and on overtime to provide training to new workforce.			T Plant management is looking to hire prior crane operator under subcontract to provide training and advice to the new crane operator at T-Plant to minimize impact caused by attrition.
STP-086: Sludge Storage Constructability Issues at T-Plant	Functional Design Requirements has been identified in HNF-6579. The Leak Detection and sump pumping transfer system is expected to remain adequate based on the 2001 design and been approved in a released FMP. Any code required changes would be captured in a future revision of the FDC. The worst-case impact is the system for storage at T-Plant must be redesigned as the cell configurations are not as planned. The most likely - mitigated case is that there are minimal constructability issues to resolve and shielding and/or purging systems can be designed and installed prior to placing sludge within T-Plant and existing lifting devices and design can be validated even for any design requirement changes with minimal impacts. Minimal interference issues are encountered.			To mitigation this risk T-Plant cameras were used to look for interferences and used computer modeling to verify that the containment systems and level frames can fit up through the rail tunnel and not interfere with the existing stairs. Documented in PRC-STP-00866, Figures 3-21, 3-22 based on the design and placement of the truck stop.  To further mitigation potential impacts, PTS is slated to complete a constructability review in late April 2015. Followed up with revision of the T-Plant Design Document (Late May 2015).
STP-107: Design Changes Result in Installation Delays	Complete a full-scale cold commissioning test at MASF using the ECRTS Process System production hardware to establish an adequate level of confidence that obvious integration challenges are identified and corrected prior to formal system commissioning. Conduct walk down of design FMP with engineering to minimize errors. Incorporate design changes quickly to minimize cost impacts and avoid rework. Supplement Eng/QA/QC support and contracts for special oversight to finalize engineering requirements. Have developed a streamlined approach for handling contractor submittals and RCIs. Require contractor to provide daily impact reports so that delays can be minimized.			Incorporated constructability review cycle into the FES and it will be completed in stages as the FMP's become available for review from engineering. The intent is to incorporate review comments prior to design media being issued for contractor bid/award.  The real risk related to design errors and omissions is the historical time frame required to prepare and issue a DCN or FMP. As a mitigation action the redline process for DCN's has been updated and clarified to provide more latitude for redline changes. In addition, a redline process for FMP's has been developed and the initial STP training session will be complete in February. Additional training sessions will be scheduled in the future.
STP-111-A: Annex ECRTS Installation Contractor/Subcontract or Performance	Closely coordinate, plan, and monitor construction using detailed field schedules to minimize impacts. Re-train construction personnel on procedures for performing construction activities. Include in baseline budget to cover additional management oversight support for construction, planning, safety and project management to accommodate the potential impacts. Interface between existing organizations will need to be closely coordinated, planned, and monitored. Mitigation strategy is to provide extensive oversight on subcontractors work scope.			ECRTS equipment installation in the K-Annex Facility has not started and will not start until after cold commissioning.  However, in preparation for bidding the ECRTS equipment installation work scope, a Blanket Master Contract has been developed and the initial subcontractor evaluation was completed in January. Subcontractor ESL review by MSA QA representatives are in process. Target complete for ESL review is early March.

Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
<b>RL-0012/WBS 012</b>				
STP-111B: Basin ECRTS Installation Contractor/Subcontractor Performance	Closely coordinate, plan, and monitor construction using detailed field schedules to minimize impacts. Re-train construction personnel on procedures for performing construction activities. Include in baseline budget to cover additional management oversight support for construction, planning, safety and project management to accommodate the potential impacts. Interface between existing organizations will need to be closely coordinated, planned, and monitored. Mitigation strategy is to provide extensive oversight on subcontractors work scope.			Received direction from RL to proceed with accelerating FY2016 construction activities in the month of November. Statement of Work (SOW) and Contract modifications for planned work activities are complete, and field teams commenced work in the basin. Additional SOW is needed to complete FY2015 work scope and is tracked via the Field Execution Schedule (FES). Future Basin installation and testing in FY2017 contains the majority of consequences for this risk. SOW for the equipment installation is slated to go out for bid late FY2015, and tracked via the FES.  After review, the risk probability and consequence do not meet the requirements of a "Key Project Risk". Risk has a ranking of Near Critical, with a moderate threat value. This risk will no longer be reported against, but internal monitoring will continue.
STP-114: Aging Building Systems/Components Problems Impact Operations & S&M Activities	Perform critical system reliability assessments; maintenance practices; procure critical spares, and maintain existing redundancies. Continue with baseline plan for corrective and preventative maintenance on systems, structures and components.			Operations continues to maintain the facilities in an operational status.
STP-115: Attrition Impacts Availability of Qualified Resources - K-Basins	Perform cross training of existing staff; develop sub-contracting strategies that allow for rapid back-filling opportunities should personnel leave unexpectedly. To mitigate the consequences, provide OJT during min-safe activities and on overtime to provide training to new workforce. Evaluate offering incentives for staff to be retained or availability to recall individuals in FY-14.			Staffing continues to be a challenge, currently working on filling out operations staff to support upcoming work.
STP-ANX-020: Contractor/Subcontractor Performance	Mitigation strategy is to provide extensive oversight on subcontractors work scope. Implement a Corrective Action Plan for contractor to implement to address shortfalls in performance. Closely coordinate, plan, and monitor construction using detailed field schedules to minimize impacts.			Areas of concern are lack of Albi Clad application schedule recovery actions by the painting subcontractor, and their performance is impacting the mechanical duct and piping installations and the electrical panel and luminaire installation. Procurement has issued the general contractor a letter requesting they provide recovery actions by 1/9/15. A Albi Clad walk down with CHPRC staff will be completed in early February. A punch list to track open items will be developed. Once items are identified they will be worked opportunistically, with the goal of no additional impact to subsequent critical path mechanical and electrical work scope.
STP-ANX-023: Contract Close-Out	The project has provided significant support including additional resources and mentoring to clarify requirements, resolve a shortfall in subcontractor expertise in engineering, project controls and quality assurance. Additional field resources will be provided at restart that will include construction supervision, field engineering and procurement support to mitigate other subcontractor short falls and enhance communication and complete the project on time. However due to sequestration and a finalized recovery plan with the subcontractor(s) the path to success still has many challenges and inherent risk. Mitigated schedule impacts are not related to construction or operation.			The project continues to prepare for eventual contract closeout. Efforts continue with the contractors to resolve change orders to limit eventual claims at the end of the job.
STP-ANX-024: K-Annex Engineering During Construction Scope	Process Statement of Work (SOW) to provide additional support staff to aid in design reviews and take back the ownership of the Structural, Architectural and Electrical design.			Completed SOWs to provide additional support staff to facilitate identification of issues and to provide a more timely resolution. The mechanical and fire protection systems responsibility will remain with the original Title III Engineer though the conclusion of the project. No change from last month.

Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
<b>RL-0012/WBS 012</b>				
<b>RL-0012/WBS 012 Unassigned Risks</b>				
CHPRC will 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.				

## 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	6.8	5.7	3.7	(1.1)	-16.8%	2.0	34.6%

Numbers are rounded to the nearest \$0.1M

#### CM Schedule Performance (-\$1.1M/-16.8%)

The CM unfavorable variance is primarily due to BCWS being realized for work that was completed ahead of schedule in FY2014 as buyback work. ECRTS Procurement, seven contract releases are either on hold or have been re-planned due to RL delay in approving the ECRTS PDSA Rev. 1. Workarounds to solicit vendor proposals with “information only” drawings and specifications has allowed the procurement process to progress forward but less efficiently than if the PDSA had been approved as planned.

#### CM Cost Performance (\$2.0M/34.6%)

The CM positive variance is partial due to credits that were included in January due to over-accrued costs from vendors in prior months. Additionally, construction craft training was planned to support In-Basin Construction activities, by accelerating work from FY2016 and using already trained craft the project was able to avoid spending funds on training and thus realizing a positive CV. Finally, planned resources supporting Program Management and Project Management functions within PBS-12 work scope have achieved efficiencies by centralizing responsibilities and reducing overall staff supporting the project by sharing of responsibilities to reduce overall resource requirements to the PBS.

## 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	460.1	463.6	474.4	3.5	0.8%	(10.8)	-2.3%	692.7	713.7	(21)

Numbers are rounded to the nearest \$0.1M

#### CTD Schedule Performance (+\$3.5M/+0.8%)

Variance is within reporting thresholds.

**CTD Cost Performance (-\$10.8M/-2.3%)**

Variance is within reporting thresholds.

**Variance at Completion (-\$21.0M/-3.0%)**

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	FY2015		
	Projected Funding	Spending Forecast	Spend Variance
RL-0012	81.7	80.1	1.6

Numbers are rounded to the nearest \$0.1M.

**Funds/Variance Analysis**

The FY2015 Spending Forecast of \$80.1 million reflects an increase of \$300K from the prior month primarily due to the addition of forecast in FY2015 to support Corrective Actions supporting performance analysis and risk management related to the OIG Audit of PFP.

**Critical Path Schedule**

The critical path flows through the installation of process equipment, then operational acceptance testing of the facility modifications, annex process equipment, readiness activities at the 105KW Facility, the operational readiness review, 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*.

**Baseline Change Requests**

None currently identified.

## 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-016-175	Begin sludge removal from 105KW Fuel Storage Basin	09/30/2014		09/01/2018	This Tri-Party Agreement completion has been impacted by changes in DOE priorities and sequestration. It is currently unattainable and needs to be re-negotiated.

## 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)



**L. T. Blackford**  
Vice President and  
Project Manager for  
Decommissioning, Waste,  
Fuels, and Remediation  
Services (DWF&RS)

January 2015  
CHPRC-2015-01, Rev. 0  
Contract DE-AC06-08RL14788  
Deliverable C.3.1.3.1 - 1

## PROJECT SUMMARY

The Waste and Fuels Management Project (W&FMP) continued maintaining 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. Waste Encapsulation and Storage Facility (WESF) Stabilization and Ventilation Project (W-130) kicked off preliminary (60 percent) design review. Permitting Plan was signed by Ecology. Central Waste Complex (CWC) overpacked the final Agreed Order Compliance waste box, 231-ZDR-11, into an IP-1 box in the Outside Storage Area. The project to construct a transfer line from the Environmental Restoration Disposal Facility (ERDF) Leachate to 200 West Pump-and-Treat Facility (200W P&T) developed a Statement of Work (SOW) and issued Request for Proposal (RFP) for construction. Liquid Effluent Facilities (LEF) received 6 tankers – a total of 27K gallons (containing various waste water streams; e.g., Mixed Waste Burial Trench leachate, Ground Water perched water, and Tank Farms condensate).

## EMS Objectives and Target Status

Objective #	Objective	Target	Due Date	Status
15-EMS-DWFRS-OB1-T1	Reduce the risk of noncompliance with environmental requirements.	Develop compliance matrices for T Plant and CWC.	9/30/15	45%

## 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
First Aid Cases	1	29	<ul style="list-style-type: none"> <li>1/27/15 - Employee struck knee on electrical junction box. Body part affected: Knee (23570)</li> </ul>
Near Misses	0	0	N/A

## KEY ACCOMPLISHMENTS

### 13.01 Project Management

- Continued Project Management support for high priority projects
- Continued support of CHPRC Legacy projects.
- Provided interface support to the “One System” organization at the Tank Operations Contractor on options/alternatives for Consolidated Waste Management Facility.

### 13.02 Capsule Storage & Disposition

- Completed:
  - Two year calibration of K3 Exhaust Differential Pressure Indicators (DPIs)
  - Fabrication of relay tester to troubleshoot Automatic Transfer Switch (ATS)

- o 27 Preventive Maintenance (PM) work packages
- o Monthly Technical Safety Requirements (TSR) and Environmental PM and surveillance requirements
- o Canyon bulk waste removal; actuators and miscellaneous waste being containerized
- **WESF Stabilization and Ventilation Project (W-130):**
  - o Kicked off preliminary (60 percent) design review
  - o Conducted public comment meeting on Class 3 Permit modifications and Closure Plan. Public comment period continuing.
  - o RL and CHPRC approved and certified Treatability Variance for floor sweepings in Hot Cells B and C; transmitted to Ecology
  - o Permitting Plan signed by Ecology
  - o Completed ecological and cultural resource review for construction activities

### 13.03 Canister Storage Building (CSB)

- Completed:
  - o Multi-Canister Overpack (MCO) H-136 Sampling
  - o Monitoring/Videoscope of MCO H-026
  - o Performed 30 PM activities
  - o Upgrade to Distributive Control System (DCS)
  - o Continued annual Uninterruptible Power Supply (UPS) maintenance
  - o Held Quarterly All Hands, Employee Zero Action Council (EZAC) meetings

### 13.06 TRU Repackaging

- Completed processing of FRP 236Z101A at PermaFix Northwest (PFNW)

### 13.07 Waste Receiving and Processing Facility (WRAP)

- Performed/Completed:
  - o Annual SAC Surveillance Requirement PM (TSR)
- Surveillances/PMs:
  - o Nine TSR surveillances
  - o 14 PM packages
  - o 50 Radiological (Rad) surveillances
  - o 41 Operational surveillances

### 13.08 T Plant

- Performed/Completed:
  - o Venting of two Abnormal Container Management Program (ACMP) drums
  - o Shipment of two ACMP drums from CWC to T-Plant, and three ACMP drums (vented) to CWC from T-Plant
- Surveillances/PMs
  - o Eight TSR surveillances
  - o 297 Rad surveillances
  - o 23 PM packages
  - o 168 Operational surveillances

### 13.09 Central Waste Complex (CWC) and Low Level Burial Grounds (LLBG)

- Performed/Completed:
  - o Overpacked final Agreed Order Compliance waste box, 231-ZDR-11, into IP-1 box in the Outside Storage Area A

- o Discontinued the daily inspection of waste box 231ZDR-11 and canceled the associated Timely Order
- o Shipped two hazardous waste drums (floor repair paint chips/debris) from CWC to off-site treatment facility
- o Remediation of 231ZDR-11 waste box drip pans and liquid within. All waste has been packaged and loaded into waste containers
- Surveillances/PMs:
  - o 15 TSR surveillances
  - o 36 PM packages
  - o 210 Rad surveillances
  - o 180 Operational surveillances
- Shipments Received:
  - o Four drums and two boxes from PFNW to Mixed Waste Trench (MWT)
  - o 72 drums from Plutonium Finishing Plant (PFP) to CWC

### 13.11 Liquid Effluent Facilities (LEF)

#### Effluent Treatment Facilities (ETF)

- Identified Treated Effluent Disposal Facility (TEDF) and Environmental Restoration Disposal Facility (ERDF) transfer line Air Vacuum Relief Valves (AVRV)
- Installed plugs on AVR in manholes GW-8 and GW-26 on ERDF transfer line
- Installed plug on AVR in TEDF TL-2
- Placed and leveled gravel around Ground Water (GW) manholes 4, 12, 13 and 20
- Installed a plug on GW-32 AVR
- ETF held first of five small group meetings (Engineering) between Washington River Protection Solutions (WRPS) line manager and function areas
- Placed Question and Answer link on Waste and Fuels Management Project website
- Monitored the fabrication and procurement of the new Heat Exchanger by vendor (delivery scheduled May 2015)
- Quality Assurance (QA) and Engineering performed an in-process surveillance of fabrication. WRPS QA attended as an observer
- Completed:
  - o Five-year roof inspection of ETF
  - o Quarterly All Hands Meeting
  - o Pumping of water from top of Basin 44 cover back into basin
  - o All required preventive maintenance
- Shipped:
  - o One Roll-On/Roll-Off to ERDF
- Received 6 tankers:
  - o 27K gallons (101K fiscal year [FY])
- Treated effluent to State-Approved Land Disposal Site:
  - o 0.0 million gallons (0.0M FY)
- Discharged to 200A TEDF:
  - o 2.1 million gallons (80M FY)
- Received ERDF Leachate:
  - o 209K gallons (551K FY)

**Environmental Restoration Disposal Facility (ERDF) Leachate to 200 West Pump-and-Treat Facility (200W P&T)**

- Definitive design (90 percent) comments being reviewed and resolved
- Developed Statement of Work (SOW) and issued Request for Proposal (RFP) for construction

**13.12 Integrated Disposal Facility**

- Completed monthly inspections

**13.16 Off Site Spent Nuclear Fuel Disposition**

- Maintained coordination for offsite Spent Nuclear Fuel Disposition

**13.21 Mixed Waste Disposal Trenches**

- Completed:
  - o 20 Rad surveillances
  - o 146 Operational surveillances
- Shipments:
  - o Shipped one 55-gallon drum of mixed low level waste (MLLW) to PFNW

## MAJOR ISSUES

**Issue:**

Aging Fire Alarm Systems (FAS) have made it difficult to maintain reliable operation and obtain like-for-like replacement parts. These FAS are no longer supported by the manufacturer. Six of the existing Fire Alarm Control Panels (FACP) at CWC and T Plant are obsolete. Parts are no longer available from the manufacturer or Hanford Fire Department (HFD). It's likely that one of these FACP will fail within a year. The 2402 series buildings will require a FACP to support the new Remote Fire Alarm Reporter (RFAR) system. The existing RFARs are no longer supported by the manufacture. Hanford Fire Department has enough parts available to support their operations for about two years. Many of the SWOC FACP were designed with limited abilities. Most FACP were configured with all the supervisory devices (e.g. temperature monitor, tamper devices, air pressure monitor) on a single zone. When a trouble signal is transmitted to the HFD, they do not know the cause until they perform on onsite investigation. When the HFD bypass RFAR trouble signals, all other trouble signals transmitted from the same FACP are ignored.

**Corrective Action:**

Fund and update the fire alarm control panels/devices and RFAR systems. This action will allow improved abilities to identify multiple fire trouble alarms and provide continued service of the FAS through the lifecycle of the facilities.

**Status:**

Hanford Fire Department has plans to replace the RFAR equipment starting with the Nuclear Facilities. The new RFAR systems will not update the Facility FACP and connecting devices. Hanford Fire is developing a project plan (for the MSA scope) including funding requirements to DOE for authorization. This does not include the Facility FACP connecting devices.

**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 overpacking drums). Provided letter to RL identifying risk and requesting path forward. RL has authorized some shipments and additional repackaging is included in the Integrated Priority/Buy Back Lists. RL has authorized one FY2015 shipment within available funding. Awaiting RL decision on priorities and available funding for the balance of FY2015.

**Issue:**

CWC lighting failures – CWC complex buildings older lighting systems are failing and cannot be replaced on with like components.

**Corrective Action:**

Compensatory measures are in place (e.g., employees carrying flashlights). A ROM estimate has been developed for system replacement.

**Status:**

Replacement costs included in current Integrated Priority List to be presented to RL in January and investigating potential contract change.

**RISK MANAGEMENT STATUS**

Unassigned Risk  
Risk Passed  
New Risk  
Change

 Risk Response Effective  
 Risk Response Partially Effective  
 Risk Response Not Effective  
 Increased Confidence  
 No Change  
 Decreased Confidence

Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
<b>RL-0013</b>				
WSD-019: Commercial Capability	MLLW treatment capacity/capability does not meet Hanford needs or treatment does not occur as scheduled. W&F manages contract for CHPRC waste treatment. Work scope within PBS RL-0013 is not impacted. Mixed Waste may require temporary storage within CWC until sufficient volume is generated for efficient processing. Evaluate additional waste volumes of TRU waste being sent to treatment contractors to maintain contract viability.			Forecasted volumes from CHPRC projects may not allow commercial capability to remain viable. DOT exemptions to transport to/from off-site contractor are complete through the end of Fiscal Year. There is still a risk associated with a federal driver which has been supplied by the BPA, but is no longer available. The DOE-RL driver obtained their qualifications on November 24, 2014, and performed their first Super-7A road-closure shipment from CWC to PFNW on December 18, 2014. Additionally, DOE-RL is working with BPA to secure access to another Federal driver in the case where we need to have two conveyances, thus requiring two drivers. Additional shipments are identified in “Buy Back/Integrated Priority List” list and a decision regarding FY2015 additional authorizations is expected in the next two months. CHPRC continues to be in the state of readiness to ship additional TRU waste packages to PFNW during FY2015 if funding becomes available.

<p>WSD-086: W&amp;FM Industrial Accident or Contamination</p>	<p>Workers are trained in equipment operation, radiological control procedures (ALARA), and response to events. Processes and procedures identify safe equipment operation, control of radiological/hazardous materials.</p>	 	<p>Updated permit requirements include quarterly removal of soil and vegetation and complete inspection of the covers. The costs for these requirements have been incorporated in the ETC and the first quarter inspections were completed in the month of December.</p> <p>After review, the risk probability and consequence do not meet the requirements of a "Key Project Risk". Risk has a ranking of marginal, with a low threat value. This risk will no longer be reported against, but internal monitoring will continue.</p>
<p>WSD-125: Three-Year Pause in Waste Processing Results in Unexpected Container Integrity Issues</p>	<p>Perform routine surveillances (daily/weekly) of containers within the SWOC storage areas and identify abnormalities. Develop a "watch-list" for containers that have existing corrosion to monitor for signs of accelerated corrosion. Develop plans for dealing with degraded/abnormal containers. Discrepant containers may require additional monitoring, patching, covering or overpack as required. If a breach is identified, implement response procedures and perform response actions as appropriate.</p>	 	<p>All priority 1 drums in CWC have been overpacked, there are approximately 19 priority 2 drums to overpack; however, this is not a static list and can increase based on current conditions. The additional requirements referenced for 231-ZDR-11 refer to the requirement to overpack in a shippable configuration. In the month of December all priority 1 watch list have been overpacked and the project completed overpack of 231-ZDR-11 in January). Project will commence with priority 2 drums with lower priority in the coming months.</p>
<p>WSD-120: WESF Major System/Equipment Failure</p>	<p>For the balance of WESF, the current maintenance program will continue with aggressive PM and CM program. However, since the filter system is being operated beyond recommended change out frequency there is a residual risk that the PM and CM program may not be sufficient to address the failure.</p>	 	<p>Automatic Transfer Switch (ATS) #1 failure at WESF. Work package development, to allow troubleshooting activities, continues and is expected to be finished in January. No impacts to the project schedule are anticipated</p>
<p>WSD-135: Major Equipment Failure at ETF</p>	<p>For the ETF process equipment, the ETF Maintenance team will continue an aggressive Preventative Maintenance and Corrective Maintenance program. Conduct market research and place contracts with vendors experienced in the inspection and repair of equipment similar to ETF.</p>	 	<p>In February 2014 the heat exchanger experienced failure and became both inoperable and unrepairable. The project has ordered a replacement heat exchanger which is expected to be received in May 2015. The current forecast of scope remaining reflects estimated cost to procure and repair heat exchanger.</p>
<p>WSD-133: Results of External Audits/Assessments Impact Operations</p>	<p>Conduct operations in accordance with current approved procedures and processes. CHPRC and RL conduct routine assessments to assess conduct of operations and maintenance activities. Work with oversight groups to understand regulatory basis for interpretations.</p>	 	<p>The gap analysis has been completed for two of the CWC compliance metrics for the Ecology Agreed Order. Requirements exceed planned work scope in relation to box 231-ZDR-11. (See Risk WSD-125)</p> <p>After review, the risk probability and consequence do not meet the requirements of a "Key Project Risk". Risk has a ranking of marginal, with a moderate threat value. This risk will be updated and will be in alignment with the designation of a key risk or will no longer be reported against, but internal monitoring will continue.</p>
<p>WSD-137: OPP: Planned Efficiencies</p>	<p>Plan work activities and procurements to be as efficient as possible with minimal resources. Continue to monitor cost and schedule progress through the monthly reporting.</p>	 	<p>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.</p>
<p>WSD-AO-02: Agreed Order Impacts on Non-Funded work scope</p>	<p>There is an agreement that this will not be included within the Agreed Order change proposal. Therefore, this risk is currently avoided. The performance of this work requires a DOE approved Baseline Change Request. The work will be re-planned during the change request process.</p>	 	<p>The Agreed Order did not include these additional requirements. The requirements dictated by the Agreed Order were incorporated into the contract scope of work and baseline via a contract modification and associated Baseline Change Request.</p>
<p>WSD-W130-01: WESF Ventilation Upgrade Regulatory Strategy</p>	<p>Work with regulators early on to develop a permitting plan that is approved by Ecology and the DOE.</p>	 	<p>Permitting has been revised to incorporate the preparation of a LDR Treatability Variance. A permitting strategy has been prepared and was finalized in December. This agreement was reached with the regulators to allow public comment period for the Revised Part A Permit application and the revised Closure Plant to proceed prior to Ecology receiving a certified LDR treatability variance.</p>

WSD-W135-01: Cs/Sr Capsule Extended Storage Acquisition Planning Document Approval	Teaming with DOE is incorporated into the baseline to identify and incorporate new requirements. However, if additional requirements are identified, the additional scope to add to planning and subsequent flow-down is not included within the work planning.	●	↓	The project schedule is based on receiving RL direction to proceed in October. The project is currently on hold and is not funded in the FY2015 funding profile, but has been added to the Integrated Priority/Buy Back list. The baseline has been adjusted to defer planning until June, which, if funded, will still significantly impact the ability to issue an RFP and award a contract in FY2015, which in turn, will delay completion of the project by a full year. Unless funding authorization is identified a BCR will need to be processed to defer the start of any remaining activities out to FY2016 and beyond.
<b>RL-0013/WBS 013 Unassigned Risks</b>				
CHPRC will 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.				

## 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	8.3	8.3	6.0	0.1	0.1%	2.3	27.4%
Numbers are rounded to the nearest \$0.1M							

#### CM Schedule Performance (+\$0.1M/+0.1%)

The current month schedule variance is within threshold.

#### CM Cost Performance (+\$2.3M/+27.4%)

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

## 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	908.6	910.6	869.1	1.9	0.2%	41.5	4.6%	1,352.7	1,263.3	89.4
Numbers are rounded to the nearest \$0.1M										

#### CTD Schedule Performance (+\$1.9M/+0.2%)

The schedule variance is within threshold.

#### CTD Cost Performance (+\$41.5M/+4.6%)

The cost variance is within threshold.

#### Variance at Completion (+\$89.4M/+6.6%)

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	FY2015		Spend Variance
	Projected Funding	Spending Forecast	
RL-0013	86.6	82.1	4.4

Numbers are rounded to the nearest \$0.1M.

### Funds/Variance Analysis

Projected Funding is unchanged from the prior month. The FY2015 Spending Forecast changed from \$80.9 million to \$82.1 million due to addition of RL authorized shipment of and additional large box and the addition of the Performance Assessment and Risk Management scope.

### Critical Path Schedule

Critical path analysis can be provided upon request.

### Baseline Change Requests

BCR-013-15-002R1, *FY2015 Shipment/Repackaging of Large TRU Waste Box from CWC*  
BCRA-PRC-15-019R0, *HPIC Updates January 2015*

## 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.

## 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
<b>CONTRACT</b>			
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)



**CH2MHILL**  
Plateau Remediation Company



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**M. N. Jaraysi**  
Vice President for  
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and Strategic Planning

January 2015  
CHPRC-2015-01, Rev. 0  
Contract DE-AC06-08RL14788  
Deliverable C.3.1.3.1 - 1

## PROJECT SUMMARY

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

Treatment Facility	Million Gallons Treated		Chrome (kg)		Carbon Tet (kg)		Nitrate as N (kg)		Tech-99 (pCi)	
	CM	FYTD	CM	FYTD	CM	FYTD	CM	FYTD	CM	FYTD
DX P&T	30.5	113.3	7.7	36.80	-	-	-	-	-	-
HX P&T	28.7	96.2	2.0	8.10	-	-	-	-	-	-
KR-4 P&T	15.6	54.6	0.4	1.80	-	-	-	-	-	-
KW P&T	14.6	57.1	2.7	11.43	-	-	-	-	-	-
KX P&T	35.9	124.9	2.9	10.28	-	-	-	-	-	-
200 West P&T	86.3	325.5	7.1	26.03	266	1,003	6,359	22,602	.13x10 <sup>12</sup>	.48x10 <sup>12</sup>
<b>Combined</b>	<b>211.5</b>	<b>771.5</b>	<b>22.8</b>	<b>94.4</b>	<b>266</b>	<b>1,003</b>	<b>6,359</b>	<b>22,602</b>	<b>.13x10<sup>12</sup></b>	<b>.48x10<sup>12</sup></b>

Well Drilling by Area	FY2015 Planned	January	FY2015 Cumulative
100-KR-4	5	-	1
100-HR-3	12	-	-
NRDWL/SWL	4	-	-
200-UP-1	5	1	1
200-ZP-1	7	-	1
M-24	19	1	5
300-FF-5	34	2	2
DVZ URG TT	6	-	-
<b>Total Wells</b>	<b>92</b>	<b>4</b>	<b>10</b>

## EMS Objectives and Target Status

Objective	Target	Actions	Due Date	Status	Overall Target Status
15-EMS-SGWR-OB1 Reduce toxic air emissions at the 200 West P&T Facility	T1 – Implement one measure to reduce toxic air emissions (namely carbon tetrachloride) at the 200 West P&T Facility	Apply heat tracing and insulation to reduce condensation in the GAC containers during the colder months.	12/31/14	100%	50%
		Evaluate carbon tetrachloride emissions by compiling an annual emissions summary for FY2015.	9/30/15	0%	
15-SGWR-EMS-OB2 More effective promotion of EMS	T1 – Promote and increase S&GRP project personnel EMS awareness via various means throughout FY2015.	Present at least five EMS topics to S&GRP personnel on a minimum of five different occasions.	9/30/15	20%	10%
		Provide a discussion of at least five different EMS topics to be communicated to S&GRP personnel through the “S&GRP Daily Communications.”	9/30/15	0%	
	T2 – Promote and increase S&GRP drilling subcontractor personnel EMS awareness via direct communication (i.e., during subcontractor/SGRP meetings).	Discuss EMS topics with drilling subcontractor personnel, on a minimum of five different occasions with different topics at each session.	9/30/15	0%	0%
14-SGWR-EMS-OB3 Increased awareness of Universal Waste requirements	T1 – Promote and increase S&GRP project personnel awareness of Universal Waste requirements via direct communication with S&GRP personnel throughout FY2015.	On a quarterly basis provide focused universal waste training sessions.	9/30/15	25%	30%
		Conduct at least two walk downs of S&GRP universal waste collection areas to review compliance.	9/30/15	50%	

## TARGET ZERO PERFORMANCE

	CM Quantity	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	1	N/A
Total Recordable Injuries	0	3*	N/A *2 S&GRP and 1 PTS in support of RL-30
First Aid Cases	4	29*	1/5/2015 – Two S&GRP contractor employees arrived for their shift and parked their personal vehicles in the main 200 East paved parking lot. After exiting their vehicles, they slipped on the ice and fell to the ground as they were walking through the parking lot to their offices. There were no obvious injuries to either employee. Both employees were taken to 200 West HPMC Occupational Medical Services for evaluation. Upon evaluation by HPMC, both employees were returned to work with no restriction. (23541) and (23542)  1/8/2015 – An employee was walking on the sidewalk between buildings and slipped on the ice and fell to the ground, landing on their knees. There were no obvious injuries. The employee was taken to 200 West HPMC Occupational Medical Services for evaluation. Upon evaluation by HPMC, the employee was returned to work with no restriction. (23546)  1/26/2015 – An employee tripped over a water level data wire and fell. The wire had been recently installed by the Instrument Technicians. The employee was seen at HPMC where he was diagnosed with multiple contusions to shoulder and upper arm. He was released to return to work with restrictions. (23569)  *28 S&GRP and 1 PTS in support of RL-30
Near-Misses	0	1	N/A

## KEY ACCOMPLISHMENTS

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

#### Risk and Modeling Integration

#### Performance Assessment and Composite Analysis Maintenance

- Transmitted the decisional draft Hanford Site Composite Analysis annual report for 2014 to RL for review.

#### Environmental Integration

- Developed an issue paper, with WCH support, to address a recent EPA Region 10 request to provide a certified Administrative Record (AR) Index for the 300 Area and 100-F/IU RODs. Received positive feedback from EPA.
- Coordinated with the MSA TPA Manager to discuss two initiatives for the AR with RL TPA sponsor in preparation to present to the AMRP. The initiatives include an upgrade to the ~24 year old

electronic filing/retrieval system; and acknowledgement of the 2013 National Contingency Plan (NCP, a CERCLA Regulation) rulemaking that eliminates the requirement for all AR records to be hard copy.

## **River Corridor**

### **100-F/IU Operable Unit**

- Received and addressed DOE-RL comments on the Decisional Draft Remedial Design /Remedial Action Work Plan (RD/RAWP). Began finalization of the document to meet the target date of 180 days from ROD approval, which is March 30, 2015.

### **100-HR-3 Operable Unit**

- Transmitted the final Persistent Source Investigation at 100-D Area report to RL on January 19, 2015.

### **100-NR-2 Operable Unit**

- Completed the RL SAP Panel reviews of the 100-NR-2 Apatite Barrier and Long-term Performance Monitoring DQO. The Decisional Draft SAP is being prepared for RL's review.
- Completed the semi-annual respirometry testing program field work of the bioventing system on January 26, 2015.
- Submitted revised Chapters 6 and 7 of the Draft A RI/FS Report to RL for review. This revision includes evaluation of 92 newly remediated waste sites.

### **300-FF-5 Operable Unit**

- Completed the 300 Area post-ROD field investigation on January 15, 2015, and initiated uranium leach studies on the contaminated soil.
- Completed the RL SAP Panel review of the 300 Area Performance Monitoring DQO on January 29, 2015. The Decisional Draft SAP is being prepared for RL's review.

## **Central Plateau**

### **200-SW-2 Operable Unit**

- Received and are addressing RL comments on the Draft B RI/FS work plan and began document finalization to meet TPA Milestone M-015-113 due March 31, 2015.

### **200-WA-1 Operable Unit**

- Received and addressing RL comments on the Decisional Draft Rev 0 RI/FS work plan and began document finalization to support delivery to EPA early April 2015.

### **200-IS-1 Operable Unit**

- Conducted field visits to selected waste sites with RL on January 16 and 29, 2015.
- Conducted Draft A to Draft B storyboard workshop with RL and Ecology on January 22, 2015. Concurrence was reached on the flow and context of the chapters.
- Obtained concurrence from RL and Ecology regarding dispute extension for TPA Milestone M-015-112, Submit Draft B 200-IS-1 RFI/CMS/RI/FS Work Plan to Ecology with Schedule Dates, to extend the dispute to March 30, 2015 (change control form M-15-13-02).

### **200-BP-5 Operable Unit**

- Submitted the Decisional Draft 200-BP-5 RI report to RL on January 21, 2015, for review.
- Initiated the preparation of a proposal for the construction and O&M of the 200-BP-5 pipeline in response to RL request 15-AMRP-0050. This is follow-on scope to Change Order 256.
- Completed the concurrent CHPRC/ RL review of the 30% design package for the 200-BP-5 pipeline to the 200 West P&T. The 200-BP-5 project is on hold pending completion of the capital funding process.

**200-UP-1 Operable Unit**

- Completed fabrication and initiated shipment of the uranium IX treatment train.
- Initiated installation of the dual-wall HDPE pipeline for the uranium injection system.
- Awarded the contract for the uranium inlet tank with an early April delivery date.
- Issued and completed a concurrent CHPRC/ RL review of the 30 percent design package for the I-129 hydraulic containment system.
- Submitted change proposal 030 PRC 1511 on the Southeast Chromium Plume Characterization, Evaluation, and Remedial Design to RL on January 7, 2015.

**200-CW-5 and 200-PW-1/3/6 Operable Units**

- Held a facilitated Value Engineering (VE) work shop to establish a viable technical approach for remediation of the 22 waste sites associated with 200-CW-5 and the 200-PW-1/3/6 Operable Units. The VE work shop was successful in determining the remedial action approach for the RDR/RA work plan. The results from this work shop were presented to RL on January 29, 2015.

**200 West P&T**

- Achieved an average pumping rate of approximately 1,911 gpm for January.
- Maintained effluent concentrations below cleanup levels specified in ROD.

**100 Area P&Ts**

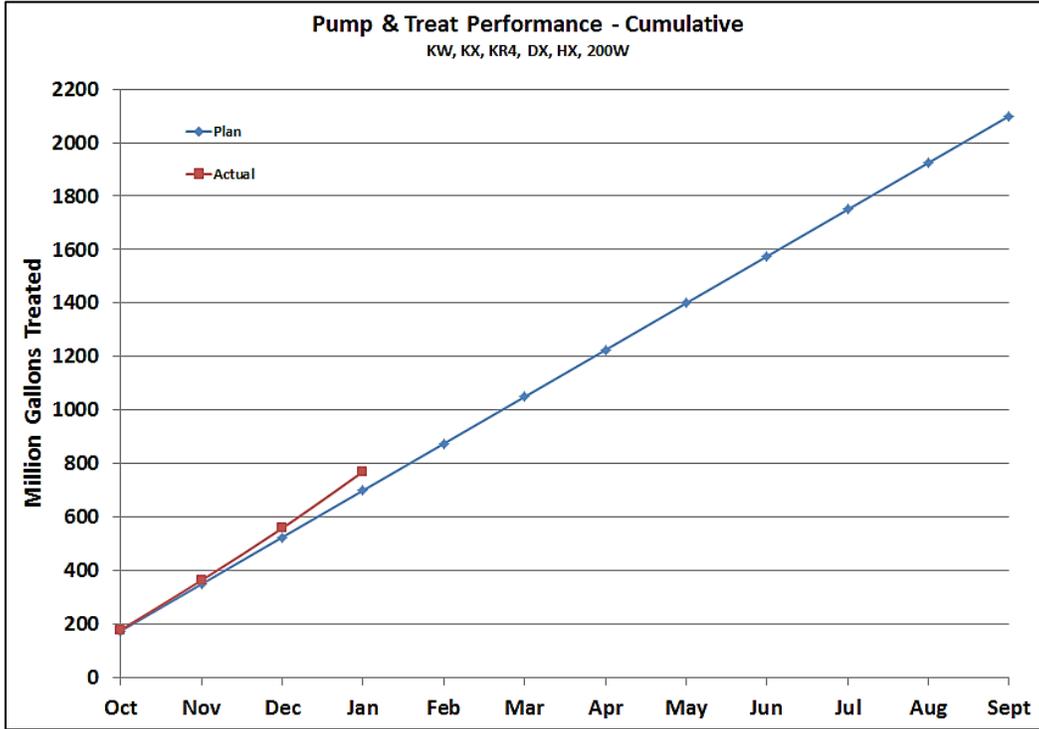
- Continued to operate KW P&T above 300 gpm, which exceeds the original design capacity of 200 gpm.
- Continued to operate KX P&T above 700 gpm, which exceeds the original facility design capacity of 600 gpm. Completion of the third 30 day operation period above 700 gpm is expected in early February.
- Continued to operate the KR-4 P&T above 330 gpm, which exceeds original design capacity of 300 gpm. Completion of the second 30 day operation period above 330 gpm is expected in early February.
- DX P&T is operating above 700 gpm, which exceeds the original design capacity of 600 gpm. Completion of the first 30 day operation period above 700 gpm is expected in early February.
- Continued extraction at well 199-K-205, a high chromium contaminated well. Chromium concentrations at this well have dropped from over 1,000 µg/L to less than 200 µg/L.

**200-DV-1 Operable Unit**

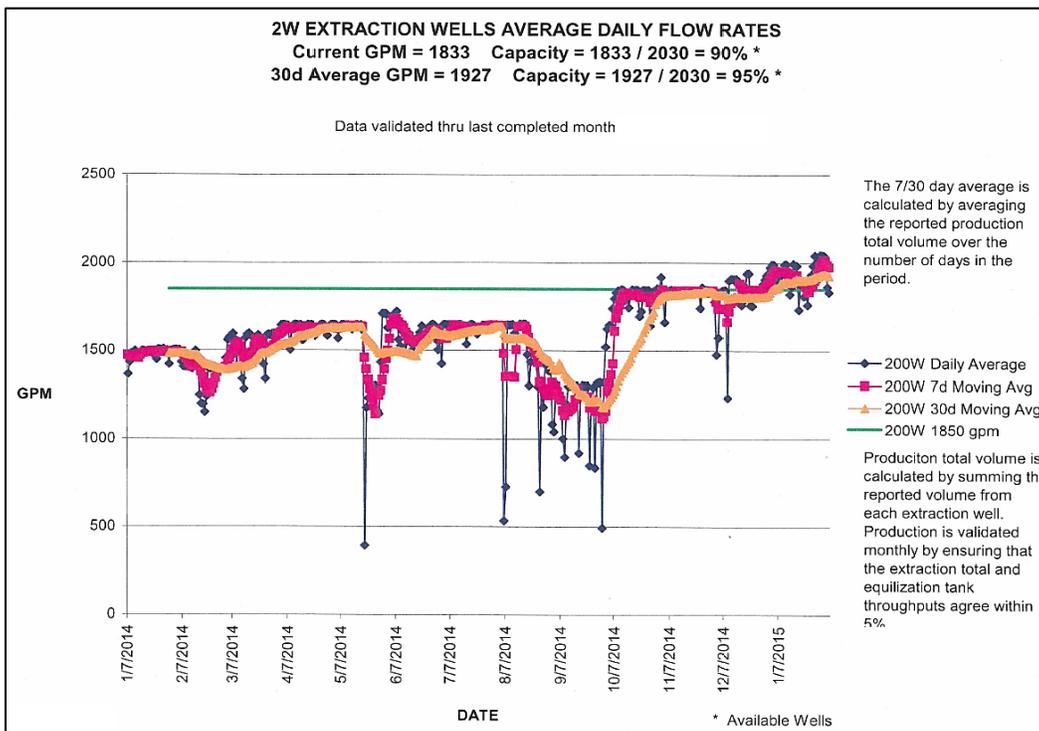
- The B Area perched water extraction system removed 6,948 gallons in January to bring the total volume of perched water removed to 256,675 gallons since initiating operations on August 30, 2011. The following quantities of contaminants were removed for the month of January:

Contaminant	January	Cumulative (since startup)
Tc-99	0.45 E-04 Ci	31.17 E-03 Ci
Uranium	1.0 kg	53.94 kg
Nitrates	9.7 kg	504.85 kg

**FY2015 P&T Operations**



**200 West P&T**



## MAJOR ISSUES

**Issue** – The 100-NR-2 field work will be delayed due to the Section 106 Cultural Resource Review (CRR) and approval process associated with the Traditional Cultural Property (TCP). This issue impacted performance of the 100-NR-2 apatite barrier in FY2014, and now is causing an impact to the FY2015 scope associated with D&D of the inactive P&T facility and well drilling.

**Corrective Action** – Develop and implement an approach for preparing the CRRs and associated Memorandum of Agreements (MOAs) to perform field work within a TCP.

**Status** – A meeting was held with RL and the Tribes in January 2015 to determine the path forward for preparing the CRR/MOA. A decision was made to issue a separate CRR/MOA for the D&D of the inactive P&T facility, followed by the CRR/MOA for the well drilling.

**Issue** – Implementation of the remedial action for the 300-FF-5 Operable Unit may be delayed because EPA has not signed the final 300 Area Remedial Design Report/Remedial Action Work Plan (RDR/RA WP). Approval of this work plan is required before field activities associated with implementation of the uranium sequestration remedy in FY2015 can begin.

**Corrective Action** –RL to facilitate EPA’s approval of the RDR/RA WP by March 16, 2015 to not impact field work.

**Status** – Newly identified major issue.

## RISK MANAGEMENT STATUS

**Unassigned Risk**  
**Risk Passed**  
**New Risk**  
**Change**

 Risk Response Effective       Increased Confidence  
 Risk Response Partially Effective       No Change  
 Risk Response Not Effective       Decreased Confidence

Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
<b>RL-030/WBS 030</b>				
<b>SGW-008: Regulatory Documents Result in Significant Comments from Regulators</b>	A standardized approach has been developed to quickly evaluate and categorize comments for resolution. This process also identifies comments that will require management attention in order to achieve resolution. For significant comments, white papers are prepared for RL management concurrence. These white papers then form the basis to help resolve significant comments with the agencies. In addition, routine meetings are conducted to address agency comments and to remain current on the influences from agencies.			Progress on the 100-D/H PP has been delayed due to the requirement to include EPA's Remedy Review Board (RRB), which began on January 26, 2015. The PP is then scheduled to be reviewed sequentially by Ecology's legal followed by EPA's legal. These sequential reviews will impact the schedule by eight months to a year. CHPRC is working with both agencies to help facilitate their reviews.  Largely due to the weekly comment resolution meetings with Ecology, the Draft A 100-N RI/FS Report has progressed through the RI and is now working through the FS (Chapter 8). The first of four technical position papers that were submitted to Ecology in March 2014 to resolve significant comments on the FS is now being reviewed (Hot Spots). Progress has been slow but steady. Ecology has added a senior hydro-geologist to their team and that has improved progress.
<b>SGW-004: Cultural Resource Reviews</b>	Obtain cultural/ecological reviews before design progresses. Walk downs with cultural resource review teams (tribal, RL, Engineering, etc.) to start early and be performed periodically throughout the process. Assign contractors to other activities while awaiting results. Work with the State Archeological and Historical Preservation office.			CHPRC continues to work with MSA to accelerate cultural reviews for existing work. The bi-weekly meetings that began in September are resulting in better coordination between the two companies and better business understanding with DOE-RL. Early identification of FY2015 work scope and prioritization of such has also allowed the cultural review process to begin early in the FY and progress on a forced raked/prioritized basis, which is resulting in earlier cultural approvals.  The CRR process for adding 6 new monitoring wells and for D&D of the inactive pump-and-treat system is progressing through DOE-RL approvals. Meetings and workshops are planned to be held with DOE-RL and the tribes in February to define the mitigation actions for the MOAs for these projects.
<b>OPPORTUNITY: SGW-007A: Sampling Requirement Reduction SGW-007B: Analytical Reduction</b>	Sampling reduction can be achieved by combining sample sites, promptly removing sample sites from the list once characterization is established to support regulatory down-posting, work with regulatory agencies to minimize sample sites and sampling frequencies (i.e. quarterly to yearly). Analytical and laboratory characterization can be achieved by working with regulatory agencies to minimize the analysis required, determining a standardized analyses run, and working with the laboratories to streamline data validation processes.			The <i>Optimization Plan to Revise the Groundwater Sampling Plan</i> is final and provides the roadmap to revise all groundwater SAPs over the next two years. A schedule was developed for completing DOE-RL's Panel Review on all the SAPs, including both FY2015 and FY2016. This approach and schedule are planned to be provided to DOE-RL in early February.  Two Operable Units (100-NR-2 and 300-FF-5) completed the DOE-RL SAP Panel Review process in January.
SGW-159: Ability to Maintain Flow Rates through Pump and Treat Units	Acquire technical specialist in bio-reactor operation at 200 West P&T to oversee the complexity associated with the water volume/flow and evaluate optimization and nutrient additions to the bed reactor. Installation of additional extraction or injection wells is required to boost pumping rates to 2,000 gpm. Routine well maintenance/equipment maintenance program is essential to maximize operational efficiency and minimize down-time.			Several new injection wells were hooked up at the end of September and have now increased pumping rates to 1,900 gpm. Four additional injection and two additional extraction wells are being drilled, completed, and hooked-up to the 200 West P&T in late FY2015 to boost pumping rates to 2,000 gpm.  Larger micronutrient pumps will be needed for flows above 1950 gpm (pumps are being ordered). Additional carbon is in the process of being ordered and will need to be loaded this Spring to support flows above 2000 gpm.

Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
<b>RL-030/WBS 030</b>				
SGW-135: Major Equipment Failure at a Pump & Treat	For the P&T facilities, maintenance will continue with the established Preventative Maintenance and Corrective Maintenance program. Utilize trending to monitor precipitate and bio-fouling of injection wells. Utilize trends to optimize well cleaning frequency to keep injection wells clear of precipitate and bio-fouling. Install additional injection wells to increase injection capacity and plan down-time for injection well cleaning cycles. Continue staff training on equipment and processes. Maintain spare-parts inventory.	●	↔	Pump and treat is operating as designed. The 200 West P&T is continuing to experience higher than planned maintenance costs due to issues with blowers, foaming, and well maintenance to prevent injection well fouling. Mitigation is ongoing as design changes are implemented to improve plant reliability and reduce labor costs. Mitigation examples include solving communication interruptions to wells with use of fiber optic cables, installation of heat trace on GAC containers, and eliminations of single point failures (injection header additions). No change from previous month. After review, the risk probability and consequence do not meet the requirements of a "Key Project Risk". Risk has a ranking of significant, with a moderate threat value. This risk will no longer be reported against, but internal monitoring will continue.
SGW-UP1-04: 200-UP1 Expansion Engineering During Construction Scope	Identify required design changes early in the testing process to minimize schedule impact. Work closely with the client and regulators to minimize impact to schedule. Incorporate design changes quickly to minimize cost impacts and avoid rework. Supplement Eng/QA/QC support and contracts for special inspection so as to finalize engineering requirements. Have developed a stream-lined approach for handling contractor submittals and RFIs, third-party inspections contract is awarded in addition to award for services during construction.	●	↔	Design is complete and engineering requirements are known for uranium treatment additions to the 200 West P&T.
SGW-UP1-05: 200-UP1 Uranium Expansion Remedy Well Design	Ensure sufficient budget provided to cover expected drilling cost increase for large diameter completions. Adjust schedules to account for additional drilling time.	●	↔	Change order 251 addressed required budget for extraction wells. Construction of the wells (near completion) is consistent with planned. Drilling of the wells is behind schedule, but FEJ have been updated to reflect these delays.
SGW-UP1-10: 200-UP1 Uranium Expansion Remedy Startup	Operations and engineering input has been obtained on the operating system controls to standardize the controls to those used for other pump and treat systems to the extent possible. Corporate design team and technologists experienced in bioremediation have been deployed to support the design effort and system startup. Resident engineer from corporate will also be supplied to support startup and testing of the new process equipment. Initiate preparation of CAT/ATP/OTP early. Early integration with contractors for incremental testing (e.g. isolate transfer buildings for a more efficient CAT/ATP). Notify vendors of necessary reconfigurations as early as possible so as to minimize schedule and cost impact.	●	↔	Uranium treatment system design is complete and construction is underway. CAT/ATP have been prepared. A uranium resin evaluation has been completed by the corporate Groundwater expert, confirming proper selection of resin type. Preparation of the OTP will be soon.

Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
<b>RL-030/WBS 030</b>				
SGW-UP1-12: 200-UP1 Uranium Expansion Contractor/Subcontractor Performance	Implement a Corrective Action Plan for contractor to implement to address shortfalls in performance. Closely coordinate, plan, and monitor construction using detailed field schedules to minimize impacts. Utilize suspended subcontractors to minimize potential for procedural issues. Re-train construction personnel on procedures for performing construction activities. Include in baseline budget to cover additional management oversight support for construction, planning, safety and project management to accommodate the potential impacts. Interface between existing organizations will need to be closely coordinated, planned, and monitored. Lack of preparation for this transition from sequestration to restart of construction could result in significant schedule / cost impacts. Mitigation strategy is to provide extensive oversight on subcontractors work scope.	●	↔	The construction of the uranium treatment system will not be performed under a firm-fixed contract. CHPRC will manage the construction activity using subcontract labor support. Construction activities are closely supported by 200 West P&T engineering. A FES has been prepared defining construction details.
<b>RL-030/WBS 030 Unassigned Risks</b>				
CHPRC will 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.				

## PROJECT BASELINE PERFORMANCE

### Current Month

#### (\$M)

RL-0030 Soil and Groundwater Remediation	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)
Total	11.7	10.2	9.6	(1.5)	-12.7%	0.6	6.2%

Numbers are rounded to the nearest \$0.1M.

#### CM Schedule Performance (-\$1.5M/12.7%)

The negative schedule variance resulted from the following:

- In January S&GRP is experiencing significant negative current month schedule variance due to the loss of scope completed ahead of schedule. This includes 200-ZP-1 well drilling and completion of the five draft 200 East closure plans as part of FY2014 buyback scope, submittal of the 200-SW-2 RI/FS WP three months ahead of the PMB schedule, and early completion of 200-ZP-1 well hookup construction activities. This is offset in part, by acceleration of the construction of 100-HR-3 well racks for well realignment scope to increase the volume of processed groundwater through the P&T.
- Difficult drilling conditions have been encountered on the 100-KR-4 drilling campaign and have slowed progress. Lack of cultural resource review approval for the drilling of six 100-NR-2 M-024 wells has stopped the initiation of this field work.
- Additionally, the 200-UP-1 well drilling campaign planned for FY2015 was deferred to future years in the planning process due to priority of funding.

**CM Cost Performance (+\$0.6M/+6.2%)**

The positive cost variance is due to sample analysis no longer being performed at WSCF. The overall lower cost of analyses being performed at off-site laboratories results in a positive cost variance.

### 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	1,052.4	1,051.3	1,036.2	(1.1)	-0.1%	15.1	1.4%	1,533.6	1,483.8	49.7

Numbers are rounded to the nearest \$0.1M.

**CTD Schedule Performance (-\$1.1M/-0.1%)**

Variance is within reporting thresholds.

**CTD Cost Performance (+\$15.1M/+1.4%)**

Variance is within reporting thresholds.

**Estimate at Completion (EAC)**

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	FY2015		
	Projected Funding	Spending Forecast	Spend Variance
RL-0030	137.8	137.1	0.7

Numbers are rounded to the nearest \$0.1M.

**Funds/Variance Analysis**

FY2015 initial budget guidance received from RL reflects expected funding of \$445.1 million for the company. RL-0030 project funding is \$137.8 million for FY2015. The FY2015 Spending Forecast of \$137.1 million is essentially unchanged from the prior month, which incorporated actions to achieve the funding targets.

**Critical Path Schedule**

Critical path analysis can be provided upon request.

**Baseline Change Requests**BCR-030-15-001R1 - *CO #260 100-NR-2 Operable Unit Bioventing System*BCR-030-15-012R0 - *Transfer of PBS RL-030 of CLIN 7 Work to PMB*BCR-PRC-15-001R1 - *Partial Definitization of CO #251, 200-UP-1 Uranium Treatment at 200W P&T*BCR-PRC-15-016R0 - *Definitization of CO #256, 200-BP-5 Pipeline***FY2015 Management Reserve (Funded):** \$1.75 million

No FY2015 Management Reserve was used during January. \$832K remains in FY2015 Management Reserve.

**MILESTONE STATUS**

Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) milestones represent significant achievements in project execution. Enforceable TPA 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 TPA milestones. The following table is a one year look ahead of TPA enforceable milestones, non-enforceable target due dates and commitments.

Number	Title	Type	Due Date	Actual Date	Forecast Date	Status/ Comment
M-015-112	Submit Draft B, 200-IS-1 Operable Unit Pipeline System Waste Sites RFI/CMS/RI/FS Work Plan to Ecology	TPA	2/28/14		9/28/15	Dispute resolution was extended to March 30, 2015. Awaiting Ecology review of two change packages associated with scope
M-091-40L-045	PMM submittal Oct-Dec 1st Qtr. FY2015 Burial Ground Sample Results	TPA	3/15/15		3/15/15	On schedule
M-015-113	Submit Draft B, 200-SW-2 Radioactive Landfills Group RFI/CMS/RI/FS Work Plan to Ecology	TPA	3/31/15		3/29/15	On schedule
M-015-110A	Submit RFI/CMS & RI/FS Work Plan for 200-DV-1 OU to Ecology	TPA	3/31/15		2/26/15	On schedule
M-024-58H	Initiate Discussions of Well Commitments	TPA	6/1/15		6/1/15	On schedule
M-091-40L-046	PMM submittal Jan-Mar 2nd Qtr. FY2015 Burial Ground Sample Results	TPA	6/15/15		6/15/15	On schedule
M-015-21A	Submit 200-BP-5 & 200-PO-1 OU FS Report and PP(s) to Ecology	TPA	6/30/15		9/8/16	To be missed. Draft TPA Change Package provided to DOE-RL to adjust milestone.
M-015-92A	Submit RFI/CMS & RI/FS Work Plan for 200-EA-1 OU to Ecology	TPA	6/30/15		5/13/20	To be missed. Draft TPA Change Package provided to DOE-RL to adjust milestone.

Number	Title	Type	Due Date	Actual Date	Forecast Date	Status/ Comment
M-024-66-T01	Conclude Discussions of Well Commitments	TPA	8/1/15		8/1/15	On schedule
M-091-40L-047	PMM submittal Apr-June 3rd Qtr. FY2015 Burial Ground Sample Results	TPA	9/15/15		9/15/15	On schedule
M-015-110B	Submit CMS & FS & PP/Proposed CA Decision for 200-DV-1 OU to Ecology	TPA	9/30/15		6/24/19	To be missed. The 200-DV-1 work plan (M-015-110A) has not been submitted to the regulators.
M-016-125	Submit a RD/RA WP for 200-CW-5 and 200-PW-1/3/6 to EPA	TPA	9/30/15		9/28/15	On schedule
M-016-190	Complete installation of extraction and injection wells for U Plant area P&T for uranium and tech-99, and Iodine-129 hydraulic containment system	TPA	9/30/15		9/09/15	On schedule
M-085-02	Submit a change package to establish a schedule for submittal of the RI/FS Work Plans for the 200-CB-1, 200-CP-1, and 200-CR-1 Operable Units and a schedule for submittal of the Removal Action Work Plans for 224B and 224T Plutonium Concentration Facilities	TPA	9/30/15		9/30/15	On schedule
M-015-38B	Submit Revised FS Report and PP for CW-1, CW-3, & OA-1 to EPA	TPA	10/30/15		10/30/15	On schedule. The milestone was changed to require a schedule for completing the Revised FS Report and PP for CW-1, CW-3, & OA-1 to EPA
M-091-40L-048	Submit July to Sept. 4th Quarter FY2015 Burial Ground Sample Results.	TPA	12/15/15		12/15/15	On schedule
M-015-91B	Submit FS Report and PP for 200-WA-1 to EPA	TPA	12/31/15		3/27/18	To be missed. The scope was not funded in FY2014 or FY2015, nor has the RI/FS work plan been approved. The milestone date will be revised based on the issuance of the Rev 0 work plan.
M-016-110-T05	Implement System to Meet Drinking Water Stds. for U at 300-FF-5 OU	TPA	12/31/15		5/20/15	Ahead of schedule
M-024-66	DOE shall complete the construction of all wells listed for CY2015	TPA	12/31/15		8/4/15	Ahead of 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)



**L. T. Blackford**  
Vice President and  
Project Manager for  
Decommissioning, Waste,  
Fuels, and Remediation  
Services (DWF&RS)

**January 2015**  
CHPRC-2015-01, Rev. 0  
Contract DE-AC06-08RL14788  
Deliverable C.3.1.3.1 - 1

## PROJECT SUMMARY

The inactive Central Plateau facilities and Radiation Areas Remedial Action (RARA) sites continue to be compliantly maintained in a low-cost surveillance and maintenance condition. The project performed Waste Information Data System (WIDS) waste site housekeeping and conducted radiological facility surveillances and preventive maintenance (PM) activities. In addition, asbestos abatement was completed at steam line cut locations and all planned FY2015 steam line surveillances were performed.

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

## KEY ACCOMPLISHMENTS

- Performed Waste Information Data System (WIDS) waste site housekeeping (tumbleweed removal, corrected posting issues)
- Completed:
  - o 77 radiological facility surveillances
  - o 33 preventive maintenance (PM) activities
  - o Asbestos abatement at steam line cut locations
  - o All planned FY2015 steam line surveillances
  - o Annual REDOX fan PMs
  - o Quarterly Treatment, Storage, and Disposal (TSD) surveillances
  - o Post jobs for PUREX and 224T
  - o Completed beryllium assessment of conex boxes at various locations
- Performed Annual Documented Safety Analysis update training for B-Plant and 224T

## MAJOR ISSUES

None at this time.

### RISK MANAGEMENT STATUS

Unassigned Risk  
 Risk Passed  
 New Risk  
 Change

 Risk Response Effective  
 Risk Response Partially Effective  
 Risk Response Not Effective

 Increased Confidence  
 No Change  
 Decreased Confidence

Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
<b>RL-0040</b>				
D4-043: Unforeseen Facility Event Impacts Safety or Environment	Unexpected event, including contamination or chemical spread, fire, industrial accident, structural degradation, etc., requires immediate D&D of a small to medium sized facility or requires unplanned facility repairs. Current management of the shutdown facilities includes corrective maintenance based upon historic experience.			Continuing corrective maintenance activities. No unplanned events encountered in the month of January. After review, the current risk probability and consequence do not meet the requirements of a "Key Project Risk". Risk has a ranking of marginal, with a low threat value. This risk will either be updated and align with the Key Risk designation or will no longer be reported against. Internal monitoring will continue.
WSR-047: Unforeseen Waste Site Event	Unforeseen waste site event, including contamination or chemical spread, fire, industrial accident, structural degradation, etc. requires immediate disposition or modification to a waste site. Routine surveillance and maintenance of the waste sites, including herbicide applications, is designed to protect workers and the environment.			No unplanned events encountered in the month of January. After review, the risk probability and consequence do not meet the requirements of a "Key Project Risk". Risk has a ranking of significant, with a moderate threat value. This risk will no longer be reported against, but internal monitoring will continue.
D4-062: Unexpected Industrial Contamination	D-4 activities are conducted in accordance with CHPRC IH and Rad protection programs to minimize contamination spread. Prior to D&D activities, the existing and historical records are reviewed to identify areas of likely industrial contamination.			Monitoring emerging issues with facility roofs, contamination spread into surveillance paths, and other high risk facility conditions. Added mitigation efforts to the Integrated Priority List which is expected to be reviewed in January 2015. Transmitted letter to DOE-RL, in October, identifying the risk associated with the Redox being well beyond its design life and requesting authorization and funding to proceed with design. Decision on FY15 funding is expected by March 2015. After review, the current risk probability and consequence do not meet the requirements of a "Key Project Risk". Risk has a ranking of marginal, with a low threat value. This risk will either be updated and align with the Key Risk designation or will no longer be reported against. Internal monitoring will continue.
D4-064: Aging Building Systems/Components	The facilities have been placed in Surveillance and Maintenance mode. Perform as-scheduled maintenance activities. Perform appropriate regulatory agency and DOE notifications for system failures or prolonged outage. Continually evaluate system maintenance frequencies.			An analysis of deferred maintenance has identified potential increased frequency for some preventive maintenance activities. Costs associated with these additional maintenance activities have been included in the Integrated Priority/Buy Back list.
D4-067: Increased Asbestos Abatement	Minimal pre-mitigation is possible. Conduct asbestos abatement to maintain a safe and complaint work site.			Developing prioritization of abandoned steam line removal sections with additional funding. Received authorization to repair/abate ~1,100 linear feet of steam line. Streamline abatement complete. Repairs were slated to complete in November/December, but resources were not available to complete identified work scope. A single overtime shift remains to complete repairs (due to availability of the lift equipment) and is expected to be completed in January/February. After review, the current risk probability and consequence do not meet the requirements of a "Key Project Risk". Risk has a ranking of marginal, with a low threat value. This risk will either be updated and align with the Key Risk designation or will no longer be reported against. Internal monitoring will continue.

**RL-0040/WBS 040 Unassigned Risks**

CHPRC will 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.

**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	0.9	0.9	0.8	0.0	1.2%	0.1	8.3%

Numbers are rounded to the nearest \$0.1M

**CM Schedule Performance: (+\$0.0M/+1.2%)**

Variance is within reporting threshold.

**CM Cost Performance: (+\$0.1M/+8.3%)**

Variance is within reporting threshold.

**Contract-To-Date**  
**(\$M)**

WBS 040/ RL-0040 Nuclear Facility D&D	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)
Total	392.6	392.5	361.7	(0.1)	-0.0%	30.8	7.8%	466.9	435.8	31.1

Numbers are rounded to the nearest \$0.1M

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

Variance is within reporting threshold.

**CTD Cost Performance: (+\$30.8M/+7.8%)**

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) and efficiencies with Arid Lands Ecology (ALE) (\$3.7 million), 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, 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 (\$4.6 million), U Plant completion of the sampling of Cell 30 with less resources than planned (\$1.1 million), Program Management utilizing less resources (\$3.3 million) and under run in overhead allocations (\$1.8 million).

**Variance at Completion (+\$31.1M/+6.7%)**

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	FY2015		Spend Variance
	Projected Funding	Spending Forecast	
RL-0040	12.5	12.4	0.1

Numbers are rounded to the nearest \$0.1 million.

**Funds/Variance Analysis**

Projected funding is unchanged from the prior month. The change in FY2015 Spend Forecast from \$12.2 million to \$12.4 million is due to addition of PRC Performance Assessment & Risk Management scope.

**Critical Path Schedule**

Critical path analysis can be provided upon request.

**Baseline Change Requests**

BCR-040-15-001R0, *Reinstate PBS RL-040 FY2016 – FY2018 Min Safe*

**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 F

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



**L. T. Blackford**  
Vice President and  
Project Manager for  
Decommissioning, Waste,  
Fuels, and Remediation  
Services (DWF&RS)

January 2015  
CHPRC-2015-01, Rev. 0  
Contract DE-AC06-08RL14788  
Deliverable C.3.1.3.1 - 1

## PROJECT SUMMARY

The 100K Characterization Wells continue to make progress with award of enclosure and construction support subcontracts as well as completing procurement of radcon, sampling, drilling, enclosure and exhaust equipment. In addition, the project has initiated construction of the drilling enclosure and exhaust system. Continued monthly radiological surveillances.

## 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	0	N/A
First Aid Cases	0	0	N/A
Near-Misses	0	0	N/A

## KEY ACCOMPLISHMENTS

- 100K Characterization Wells:
  - o Awarded enclosure and construction support subcontract
  - o Completed the assessment and removal of potential falling objects from the north wall of the reactor building
  - o Completed procurement of radcon, sampling, drilling, enclosure and exhaust equipment
  - o Initiated construction of the drilling enclosure and exhaust system
- Completed Surveillances:
  - o Radiological – 34
- Radioactive Material Area (RMA) Consolidation:
  - o Final RMA to be consolidated is 70 percent complete. Work is currently on hold due to resource availability (working higher priority CHPRC scope).

## MAJOR ISSUES

None currently identified.

### RISK MANAGEMENT STATUS

Unassigned Risk  
Risk Passed  
New Risk  
Change

 Risk Response Effective  
 Risk Response Partially Effective  
 Risk Response Not Effective  
 Increased Confidence  
 No Change  
 Decreased Confidence

Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
<b>RL-0041</b>				
WSR-047: Unforeseen Waste Site Event	Perform routine surveillances and maintenance of waste sites including herbicide application.			No concerns during the month of January. After review, the risk probability and consequence do not meet the requirements of a "Key Project Risk". Risk has a ranking of significant, with a moderate threat value. This risk will no longer be reported against, but internal monitoring will continue.
KBC-043: Waste Site Remediation Completion Requirements	Regulator acceptance that cleanup criteria have been achieved on a waste site by waste site basis. The Project may be directed to install monitoring wells to determine if contamination is detected in groundwater.			Installation of two additional KE Characterization wells. UPR-100-K1; 116-KE-3. Completed design phase in August. Received CO from RL for construction and well installation. Subcontracts awarded and field work commenced in November 2014. Well development and sampling is expected to finish by September 2015 with the investigation report to follow in FY2016.
KBC-048: Unexpected Industrial Contamination	D-4 activities are conducted in accordance with CHPRC IH and Rad protection programs to minimize contamination spread. Prior to D&D activities, the existing and historical records are reviewed to identify areas of likely industrial contamination.			No concerns during the month of January. After review, the risk probability and consequence do not meet the requirements of a "Key Project Risk". Risk has a ranking of significant, with a moderate threat value. This risk will no longer be reported against, but internal monitoring will continue.
KBC-ISS-004: Unforeseen Facility Event Impacts Safety or Environment	The ISMS processes and facility worker training will identify and correct weaknesses such that hazards are eliminated prior to an event. However, some events are unpredictable.			No concerns during the month of January. After review, the risk probability and consequence do not meet the requirements of a "Key Project Risk". Risk has a ranking of Near Critical, with a moderate threat value. This risk will no longer be reported against, but internal monitoring will continue.
<b>RL-0041/WBS 041 Unassigned Risks</b>				
CHPRC will 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.				

### 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	0.6	0.3	0.2	(0.3)	-53.3%	0.1	26.8%

Numbers are rounded to the nearest \$0.1M

**CM Schedule Performance (-\$0.3M/-53.3%)**

The variance is within reporting threshold.

**CM Cost Performance (+\$0.1M/+26.8%)**

The variance is within reporting threshold.

## 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	312.1	311.6	283.5	(0.5)	-0.1%	28.1	9.0%	394.7	364.9	29.9

Numbers are rounded to the nearest \$0.1M

### CTD Schedule Performance (-\$0.5M/-0.1%)

The schedule variance is within threshold.

### CTD Cost Performance (+\$28.1M/+9.0%)

The positive variance is primarily the result of prior year activity that have been previously reported and CSNA sites that were completed early and under costs. In addition, less demolition was required for the KE Sedimentation Basin as well as underruns in G&A and Direct Distributables. This is partially offset by the cost overruns in prior years for the Utilities Project.

### Variance at Completion (+\$29.9M/+7.6%)

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

**Contract Performance Report Formats are provided in Appendix A.**

## FUNDS vs. SPEND FORECAST (\$M)

WBS 041/RL-0041 Nuclear Facility D&D – River Corridor	FY2015		
	Projected Funding	Spending Forecast	Spend Variance
RL-0041	6.8	8.1	(1.3)

Numbers are rounded to the nearest \$0.1M.

### Funds/Variance Analysis:

Projected Funding is unchanged from last month. The change in FY2015 Spending Forecast from \$8.2 million to \$8.1 million is within threshold. The project continues to show a funding challenge due to an updated estimate for the Boreholes, which requires coordination with RL to resolve.

### Critical Path Schedule

Critical Path Analysis can be provided upon request.

### Baseline Change Requests

BCR-041-15-005R0, *PBS RL-0041 Planning Adjustment*

## **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)



**L. T. Blackford**  
Vice President and  
Project Manager for  
Decommissioning, Waste,  
Fuels, and Remediation  
Services (DWF&RS)

January 2015  
CHPRC-2015-01, 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:
  - o 18 Preventive Maintenance (PM) activities/operational surveillances
  - o Four radiological surveillances
  - o Four operational surveillances
  - o Annual exterior inspection of the water tank system equipment

## MAJOR ISSUES

None currently identified.

### RISK MANAGEMENT STATUS

**Unassigned Risk**  
**Risk Passed**  
**New Risk**  
**Change**

 Risk Response Effective  Increased Confidence  
 Risk Response Partially Effective  No Change  
 Risk Response Not Effective  Decreased Confidence

Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
<b>RL-0042</b>				
FFTF-012: Major Equipment or Structural Failure	FFTF suffers a major equipment failure or structural deterioration while in the Surveillance and Maintenance mode			Project will continue to perform Corrective Maintenance activities, monitor levels and pump septic tank as required. After review, the risk probability and consequence do not meet the requirements of a "Key Project Risk". Risk has a ranking of significant, with a moderate threat value. This risk will no longer be reported against, but internal monitoring will continue.

### 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	-5.1%	0.1	36.2%

Numbers are rounded to the nearest \$0.1M

**CM Schedule Performance: (-\$0.0M/-5.1%)**

The current period schedule variance is within threshold.

**CM Cost Performance: (+\$0.1M/+36.2%)**

The current period cost variance is within threshold.

**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	18.8	18.7	15.4	(0.0)	-0.2%	3.4	17.9%	26.6	20.1	6.5

Numbers are rounded to the nearest \$0.1M

**CTD Schedule Performance (-\$0.0M/-0.2%)**

The schedule variance is within reporting thresholds.

**CTD Cost Performance (+\$3.4M/+17.9%)**

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

**Variance at Completion (+\$6.5M/+24.5%)**

The Variance at Completion is within reporting thresholds.

**Contract Performance Report Formats are provided in Appendix A.**

## FUNDS VS. SPEND FORECAST (\$M)

FY2015			
RL-0042 FFTF Closure	Projected Funding	Spending Forecast	Spend Variance
RL-0042	1.4	1.3	0.1

Numbers are rounded to the nearest \$0.1 million

### Funds Analysis

Project funding and FY2015 Spending Forecast are unchanged from the prior month.

### Critical Path Schedule

Critical path analysis is not applicable to this project. Remaining contract scope is performance of interim surveillance and maintenance activities.

### 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



January 2015  
CHPRC-2015-01, Rev. 0  
Contract DE-AC06-08RL14788  
Deliverable C.3.1.3.1 - 1

FORMAT 1, DD FORM 2734/1, WORK BREAKDOWN STRUCTURE

CLASSIFICATION (When Filled In)																
CONTRACT PERFORMANCE REPORT FORMAT 1 - WORK BREAKDOWN STRUCTURE													DOLLARS IN Thousands of \$		FORM APPROVED OMB No. 0704-0188	
<b>1. CONTRACTOR</b>			<b>2. CONTRACT</b>			<b>3. PROGRAM</b>			<b>4. REPORT PERIOD</b>							
a. NAME CH2M HILL Plateau Remediation Company			a. NAME Plateau Remediation Contract			a. NAME Plateau Remediation Contract			a. FROM (YYYYMMDD) 2014 / 12 / 22							
b. LOCATION (Address and ZIP Code) Richland, WA			b. NUMBER RL14788			b. PHASE			b. TO (YYYYMMDD) 2015 / 01 / 25							
			c. TYPE CPAF			d. SHARE RATIO			c. EVMS ACCEPTANCE NO YES X 9/18/2009							
<b>5. CONTRACT DATA</b>																
a. QUANTITY		b. NEGOTIATED COST 5,468,189		c. ESTIMATED COST OF AUTHORIZED UNPRICED WORK 17,624		d. TARGET PROFIT/FEE 228,503		e. TARGET PRICE 5,696,692		f. ESTIMATED PRICE 5,541,090		g. CONTRACT CEILING 5,696,692		h. ESTIMATED CONTRACT CEILING 5,541,090		i. DATE OF OTB/OTS
<b>6. ESTIMATED COST AT COMPLETION</b>									<b>7. AUTHORIZED CONTRACTOR REPRESENTATIVE</b>							
			MANAGEMENT ESTIMATE AT COMPLETION (1) 5,234,147		CONTRACT BUDGET BASE (2) 5,485,813		VARIANCE (3) 173,226		a. NAME (Last, First, Middle Initial) K. K. Dickerson			b. TITLE Prime Contract Manager				
a. BEST CASE			5,234,147						c. SIGNATURE			d. DATE SIGNED 1/25/2015				
b. WORST CASE			5,483,208													
c. MOST LIKELY			5,312,587		5,485,813		173,226									
<b>8. PERFORMANCE DATA</b>																
WBS[1]	CURRENT PERIOD					CUMULATIVE TO DATE					REPROGRAMMING ADJUSTMENTS			AT COMPLETION		
	BUDGETED COST		ACTUAL COST	VARIANCE		BUDGETED COST		ACTUAL COST	VARIANCE		COST VARIANCE	SCHEDULE VARIANCE	BUDGET	BUDGETED	ESTIMATED	VARIANCE
	WORK SCHEDULED (2)	WORK PERFORMED (3)	WORK PERFORMED (4)	SCHEDULE (5)	COST (6)	WORK SCHEDULED (7)	WORK PERFORMED (8)	WORK PERFORMED (9)	SCHEDULE (10)	COST (11)	(12a)	(12b)	(13)	(14)	(15)	(16)
ITEM (1)																
011 RL-11 NM Stabilization and Disposition PFP	9,378	10,169	9,961	791	208	765,092	735,100	771,913	(29,992)	(36,813)	0	0	0	937,583	952,557	(14,974)
012 RL-12 SNF Stabilization and Disposition	6,827	5,679	3,714	(1,148)	1,965	460,072	463,603	474,353	3,531	(10,750)	0	0	0	692,663	713,665	(21,002)
013 RL-13 Solid Waste Stabilization & Disposition	8,302	8,308	6,031	7	2,278	908,637	910,551	869,063	1,913	41,488	0	0	0	1,352,716	1,263,305	89,411
030 RL-30 Soil & Wtr Remediatn Grndwtr/Vadose Zone	11,731	10,246	9,614	(1,484)	632	1,052,446	1,051,315	1,036,193	(1,132)	15,122	0	0	0	1,528,094	1,478,361	49,733
040 RL-40 Nuclear Facility D&D Remainder of Hanford	906	917	840	11	77	392,633	392,491	361,707	(143)	30,784	0	0	0	466,891	435,791	31,100
041 RL-41 Nuclear Facility D&D - River Corridor	648	303	221	(345)	81	312,098	311,636	283,502	(463)	28,133	0	0	0	394,735	364,883	29,852
042 RL-42 FFTF Closure	182	173	110	(9)	62	18,775	18,739	15,388	(36)	3,351	0	0	0	26,577	20,076	6,501
b. Cost of Money	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
c. Gen. and Admin.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
d. Undist. Budget														5,509	5,509	0
e. Sub Total	37,974	35,795	30,492	(2,179)	5,303	3,909,755	3,883,434	3,812,118	(26,321)	71,315	0	0	0	5,404,768	5,234,147	170,621
f. Management Reserve														78,440		
g. Total	37,974	35,795	30,492	(2,179)	5,303	3,909,755	3,883,434	3,812,118	(26,321)	71,315	0	0	0	5,483,208		
9. Reconciliation to CBB																
a. Variance Adjustment																
b. Total Contract Variance									(26,321)	71,315				5,483,208	5,234,147	249,060

Block 5a-h differences, if any, to B.4-1 Table values are addressed by in-process BCR(s).

FORMAT 2, DD FORM 2734/2, ORGANIZATIONAL CATEGORIES

CLASSIFICATION (When Filled In)

CONTRACT PERFORMANCE REPORT FORMAT 2 - ORGANIZATIONAL CATEGORIES											DOLLARS IN _ Thousands of \$			FORM APPROVED OMB No. 0704-0188		
1. CONTRACTOR		2. CONTRACT				3. PROGRAM				4. REPORT PERIOD						
a. NAME CH2M HILL Plateau Remediation Company		a. NAME Plateau Remediation Contract				a. NAME Plateau Remediation Contract				a. FROM (YYYYMMDD)						
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE		b. TO (YYYYMMDD)			2014 / 12 / 22							
		c. TYPE CPAF		d. SHARE RATIO		c. EVMS ACCEPTANCE NO YES X 9/18/2009			2015 / 01 / 25							
5. PERFORMANCE DATA																
FOC  ITEM (1)	CURRENT PERIOD					CUMULATIVE TO DATE					REPROGRAMMING ADJUSTMENTS			AT COMPLETION		
	BUDGETED COST		ACTUAL COST	VARIANCE		BUDGETED COST		ACTUAL COST	VARIANCE		COST VARIANCE (12a)	SCHEDULE VARIANCE (12b)	BUDGET (13)	BUDGETED (14)	ESTIMATED (15)	VARIANCE (16)
	WORK SCHEDULED (2)	WORK PERFORMED (3)	WORK PERFORMED (4)	SCHEDULE (5)	COST (6)	WORK SCHEDULED (7)	WORK PERFORMED (8)	WORK PERFORMED (9)	SCHEDULE (10)	COST (11)						
<b>34 - Envr Program &amp; Strategic Planning</b>																
340 - Environmental Prog & Regl Mgt	685	598	500	(87)	98	50,741	51,083	47,257	342	3,826	0	0	0	83,134	72,871	10,263
	685	598	500	(87)	98	50,741	51,083	47,257	342	3,826	0	0	0	83,134	72,871	10,263
<b>35 - Business Services</b>																
35D - Contract Mgmt & Facility Svcs	0	0	0	0	0	23,047	23,047	23,520	0	(473)	0	0	0	23,047	23,520	(473)
35K - PRC Finance	0	0	0	0	0	449,477	449,477	425,102	0	24,375	0	0	0	449,477	425,102	24,375
	0	0	0	0	0	472,524	472,524	448,622	0	23,902	0	0	0	472,524	448,622	23,902
<b>3B - PFP Closure</b>																
3B0 - PFP Close/BOSS D&D & Infrastruc	1,833	1,727	2,523	(106)	(796)	144,539	133,956	155,469	(10,583)	(21,513)	0	0	0	201,579	219,937	(18,358)
3B3 - Project Management/Subcontracts	2,764	3,877	2,866	1,113	1,011	155,980	146,690	158,730	(9,290)	(12,040)	0	0	0	192,656	197,686	(5,030)
3B4 - Engrg Nuc Saf Plng&Wrk Control	1,573	1,573	1,172	0	401	53,257	53,257	44,113	(0)	9,144	0	0	0	74,095	61,009	13,087
3B7 - Environmental & Waste	746	875	570	129	305	56,421	55,635	45,136	(786)	10,500	0	0	0	73,244	66,819	6,425
3BA - Project Mgmt D&D	1,132	1,131	1,086	(1)	45	153,072	153,071	155,726	(2)	(2,655)	0	0	0	168,033	171,563	(3,530)
3BB - PFP D4 Deputy Project Mgmt	1,332	987	1,745	(345)	(759)	115,674	106,342	133,792	(9,332)	(27,450)	0	0	0	141,827	156,598	(14,771)
3BD - PFP Cold & Dark	0	0	0	0	0	0	0	0	(0)	(0)	0	0	0	0	0	(0)
	9,378	10,169	9,961	791	208	678,944	648,952	692,967	(29,992)	(44,015)	0	0	0	851,435	873,612	(22,177)
<b>3C - Decom Waste Fuels &amp; Remed Svcs</b>																
36X - Support to 3C - W&FMP/D&D Project	215	534	281	318	253	2,412	2,690	2,013	278	677	0	0	0	3,398	2,711	687
38X - Support to 3C - W&FMP/D&D Project	2,224	2,235	1,692	10	543	44,341	47,367	67,894	3,026	(20,527)	0	0	0	90,721	120,990	(30,269)
3AD - Sludge Treatment Project	4,603	3,444	2,022	(1,158)	1,422	361,469	361,973	352,801	505	9,172	0	0	0	547,680	539,018	8,662
3BX - Support to 3C - W&FMP/D&D Project	638	293	206	(345)	87	248,440	247,978	225,645	(463)	22,332	0	0	0	323,642	299,587	24,055
3C4 - Waste & Fuels Project Controls	2,391	2,370	1,530	(21)	840	206,176	205,944	206,917	(231)	(973)	0	0	0	322,440	298,570	23,870
3C5 - TRU Project	0	0	0	0	0	49,140	49,140	52,386	(0)	(3,247)	0	0	0	49,140	52,386	(3,247)
3C9 - Liquid & Fuels Storage	3,376	3,212	2,345	(164)	866	198,154	198,433	184,604	279	13,829	0	0	0	397,684	386,218	11,466
3CA - W&FMP Engineering	0	0	0	0	0	0	0	1	0	(1)	0	0	0	0	1	(1)
3CD - Waste Disposition	3,418	3,293	2,841	(125)	452	743,250	744,658	699,456	1,408	45,203	0	0	0	960,040	885,942	74,098
	16,865	15,380	10,917	(1,485)	4,463	1,853,380	1,858,183	1,791,718	4,802	66,465	0	0	0	2,694,745	2,585,424	109,321
<b>3D - Soil &amp; Groundwater Remediation</b>																
3D0 - Soil & Groundwater Remediation	1,904	1,838	1,160	(66)	678	107,969	108,723	105,595	755	3,129	0	0	0	194,769	169,340	25,429
3D2 - GW Remediation Support	2,435	1,916	1,718	(519)	198	158,290	157,009	146,520	(1,281)	10,489	0	0	0	257,061	241,053	16,008
3D4 - GW Operations	1,294	1,293	1,151	(1)	142	103,008	102,982	90,001	(26)	12,981	0	0	0	164,492	150,114	14,378
3D8 - GW Analysis and Reporting	5,413	4,601	5,085	(812)	(484)	484,900	483,978	489,438	(922)	(5,460)	0	0	0	681,099	687,602	(6,503)
	11,046	9,648	9,114	(1,397)	534	854,166	852,692	831,554	(1,474)	21,138	0	0	0	1,297,420	1,248,108	49,312
b. Cost of Money	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
c. Gen. and Admin.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
d. Undist. Budget														5,509	5,509	0
e. Sub Total	37,974	35,795	30,492	(2,179)	5,303	3,909,755	3,883,434	3,812,118	(26,321)	71,315	0	0	0	5,404,768	5,234,147	170,621
f. Management Resrv.														78,440		
g. Total	37,974	35,795	30,492	(2,179)	5,303	3,909,755	3,883,434	3,812,118	(26,321)	71,315	0	0	0	5,483,208		

FORMAT 3, DD FORM 2734/3, BASELINE

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: 2014/12/22 b. TO: 2015/1/25					
5. CONTRACT DATA																	
a. ORIGINAL NEGOTIATED COST 4,312,366				b. NEGOTIATED CONTRACT CHANGE \$1,155,823		c. CURRENT NEGOTIATED COST (A + B) \$5,468,189		d. ESTIMATED COST AUTH UNPRICED WORK \$17,624		e. CONTRACT BUDGET BASE (C + D) \$5,485,813		f. TOTAL ALLOCATED BUDGET \$5,483,208		g. DIFFERENCE (E - F) \$2,605			
h. CONTRACT START DATE 6/19/2008				i. DEFINITIZATION DATE 6/19/2008			j. PLANNED COMPL DATE 9/30/2018			k. CONT COMPLETION DATE 9/30/2018							
6. PERFORMANCE DATA																	
ITEM  (1)	BCWS CUM TO DATE (2)	BCWS FOR REPORT PERIOD (3)	SIX MONTH FORECAST						FY09-13 (10)	FY14 (11)	FY15 (12)	FY16 (13)	FY17 (14)	FY18 (15)	UNDISTRIB BUDGET (16)	TOTAL BUDGET (17)	
			+1 Feb-15 (4)	+2 Mar-15 (5)	+3 Apr-15 (6)	+4 May-15 (7)	+5 Jun-15 (8)	+6 Jul-15 (9)									
a. PM BASELINE (BEGIN OF PERIOD)																	
b. BASELINE CHANGES AUTH DURING REPORT PERIOD																	
BCR-013-15-002R1 - FY2015 Shipment/Repackaging of Large TRU Waste Box from CWC																	
BCR-030-15-001R1 - CO #260, 100-NR-2 Operable Unit Bioventing System																	
BCR-030-15-012R0 - Transfer PBS RL-030 CLIN 7 Scope to PMB																	
BCR-040-15-001R0 - Reinstate PBS RL-040 FY2016 ? FY2018 Min Safe																	
BCR-041-15-005R0 - PBS RL-041 Planning Adjustment																	
BCR-PRC-15-001R1 - Partial Definitization of CO #251, 200-UP-1 Uranium Treatment at 200W P&T																	
BCR-PRC-15-016R0 - Definitization of CO #256, 200-BP-5 Pipelines																	
BCR-PRC-15-018R0 - Undistributed Budget Adjustments January 2015																	
c. PM BASELINE (END OF PERIOD)																	
7. MANAGEMENT RESERVE																	
8. TOTAL																	

Block 5.g "Difference" is attributable to net delta of NTEs, G&A Allocations, B4 Table adjustments, and BCRs processed.

CONTRACT PERFORMANCE REPORT											CLASSIFICATION (When Filled In)	
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) 2014 / 12 / 22		
b. LOCATION (Address and ZIP Code) Richland, WA			b. NUMBER RL14788				b. PHASE			b. TO (YYYYMMDD)		
			c. TYPE CPAF		d. SHARE RATIO		c. EVMS ACCEPTANCE YES 9/18/2009			2015 / 01 / 25		
5. PERFORMANCE DATA (All figures in whole numbers of equivalent month. One equivalent month equals on person working one month)												
Organizational Breakdown Structure (OBS)	ACTUAL CURRENT PERIOD	ACTUAL END OF CURRENT PERIOD (Cumulative)	FORECAST (Non-Cumulative)							AT COMPLETION		
			SIX MONTH FORECAST									
			+1 Feb	+2 Mar	+3 Apr	+4 May	+5 Jun	+6 Jul	FY15-18			
ITEM (1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(13)	(15)		
<b>300 - Office of the President</b>												
35X - Support to President	5	451	5	5	5	5	5	5	5	194	681	
	<b>5</b>	<b>451</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>194</b>	<b>681</b>	
<b>303 - Internal Audit</b>												
303 - Internal Audit	5	323	4	5	5	5	5	5	5	185	540	
	<b>5</b>	<b>323</b>	<b>4</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>185</b>	<b>540</b>	
<b>304 - General Counsel</b>												
304 - General Counsel	4	308	4	4	4	4	4	4	4	184	519	
	<b>4</b>	<b>308</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>184</b>	<b>519</b>	
<b>31 - Communications</b>												
310 - Communications	8	736	10	10	10	10	10	10	10	334	1,136	
	<b>8</b>	<b>736</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>334</b>	<b>1,136</b>	
<b>32 - Safety, Health, Security &amp; Quality</b>												
320 - Safety Health Security/Quality	22	2,097	27	27	25	25	25	25	25	955	3,224	
321 - RAD PRO/Emergency Prep	9	832	9	9	9	9	9	9	9	336	1,225	
322 - Nuclear Ops Supp & Compliance	8	745	8	8	8	8	8	8	8	296	1,092	
324 - Quality Assurance	14	1,705	17	17	17	17	17	17	17	639	2,468	
	<b>53</b>	<b>5,378</b>	<b>60</b>	<b>60</b>	<b>59</b>	<b>58</b>	<b>58</b>	<b>58</b>	<b>58</b>	<b>2,227</b>	<b>8,008</b>	
<b>34 - Environmental Prog &amp; Strategic Planning</b>												
340 - Environmental Prog & Regl Mgt	34	2,466	39	39	39	39	40	40	40	1,702	4,429	
341 - Environmental Protection	0	1,000	0	0	0	0	0	0	0	0	1,030	
	<b>34</b>	<b>3,466</b>	<b>39</b>	<b>39</b>	<b>39</b>	<b>39</b>	<b>40</b>	<b>40</b>	<b>40</b>	<b>1,702</b>	<b>5,459</b>	
<b>35 - Business Services</b>												
35D - Contract Mgmt & Facility Svcs	22	3,249	27	27	27	27	27	27	27	1,047	4,490	
35F - Industrial Relations	5	376	5	5	5	5	5	5	5	195	600	
35H - Human Resources	14	1,081	7	15	15	15	15	15	15	546	1,725	
35K - PRC Finance	11	985	12	13	13	13	12	12	12	481	1,551	
	<b>52</b>	<b>5,691</b>	<b>52</b>	<b>60</b>	<b>60</b>	<b>60</b>	<b>60</b>	<b>60</b>	<b>60</b>	<b>2,269</b>	<b>8,366</b>	
<b>36 - Prime Contract &amp; Project Integration</b>												
360 - Prime Cont & Prj Integration	0	1	0	0	0	0	0	0	0	0	1	
361 - Cont Compl & Change Mgmt	9	603	13	13	13	13	13	13	13	481	1,162	
362 - Strategic Pln & Mgmt	13	1,305	14	16	17	17	17	17	17	720	2,128	
363 - EVMS Compl & Rptg	14	1,351	16	16	18	18	18	18	18	558	2,028	
	<b>36</b>	<b>3,260</b>	<b>43</b>	<b>45</b>	<b>48</b>	<b>48</b>	<b>48</b>	<b>48</b>	<b>48</b>	<b>1,759</b>	<b>5,319</b>	
<b>38 - Project Technical Services</b>												
381 - Central Engineering	7	587	10	10	10	10	10	10	10	348	997	
382 - Training & Procedures	8	2,128	10	10	10	10	10	10	10	370	2,560	
383 - Operations Programs	7	796	7	7	7	7	7	7	7	259	1,098	
384 - Project Delivery	11	1,115	10	10	10	10	10	10	10	376	1,554	
	<b>33</b>	<b>4,626</b>	<b>37</b>	<b>37</b>	<b>37</b>	<b>37</b>	<b>37</b>	<b>37</b>	<b>37</b>	<b>1,353</b>	<b>6,208</b>	
<b>3B - PFP Closure</b>												
3B0 - PFP Close/BOSS D&D & Infrastruc	49	5,114	62	66	69	68	73	64	64	1,184	6,734	
3B3 - Project Management/Subcontracts	87	7,681	104	102	110	105	100	94	94	795	9,159	
3B4 - Engrg Nuc Saf Plng&Wrk Control	54	2,291	54	54	54	54	54	54	54	380	3,041	
3B7 - Environmental & Waste	31	2,756	29	29	29	29	29	29	29	503	3,452	
3BA - Project Mgmt D&D	59	10,977	62	62	62	62	62	62	62	490	11,957	
3BB - PFP D4 Deputy Project Mgmt	82	9,080	88	90	86	93	87	94	94	383	10,003	
3BD - PFP Cold & Dark	0	0	0	0	0	0	0	0	0	0	0	
	<b>363</b>	<b>37,899</b>	<b>399</b>	<b>403</b>	<b>410</b>	<b>412</b>	<b>405</b>	<b>397</b>	<b>373</b>	<b>4,374</b>	<b>44,346</b>	
<b>3C - W&amp;FMP/D&amp;D Project</b>												
36X - Support to 3C - W&FMP/D&D Project	6	55	9	7	0	0	0	0	0	0	71	
38X - Support to 3C - W&FMP/D&D Project	36	1,256	54	54	55	57	57	71	71	934	2,539	
3AD - Sludge Treatment Project	122	15,855	147	145	149	152	150	150	150	5,915	22,859	
3BX - Support to 3C - W&FMP/D&D Project	12	7,147	14	14	14	14	14	14	14	2,474	9,705	
3C4 - Waste & Fuels Project Controls	51	6,686	60	61	63	67	67	67	67	2,541	9,661	
3C5 - TRU Project	0	582	0	0	0	0	0	0	0	0	583	
3C9 - Liquid & Fuels Storage	129	11,384	150	147	95	77	78	78	78	4,077	16,218	
3CD - Waste Disposition	117	33,924	139	164	155	154	162	160	160	7,694	42,841	
	<b>473</b>	<b>76,889</b>	<b>573</b>	<b>592</b>	<b>531</b>	<b>521</b>	<b>528</b>	<b>539</b>	<b>23,635</b>	<b>104,477</b>		
<b>3D - Soil &amp; Groundwater Remediation</b>												
3D0 - Soil & Groundwater Remediation	33	3,015	36	39	39	39	39	39	39	1,577	4,860	
3D2 - GW Remediation Support	55	5,797	60	63	65	67	65	65	65	2,423	8,636	
3D4 - GW Operations	55	5,070	54	54	54	54	54	54	54	2,071	7,525	
3D8 - GW Analysis and Reporting	133	11,994	150	141	152	147	137	137	137	4,750	17,666	
	<b>275</b>	<b>25,876</b>	<b>301</b>	<b>297</b>	<b>309</b>	<b>307</b>	<b>295</b>	<b>295</b>	<b>10,821</b>	<b>38,688</b>		
<b>Grand Totals:</b>	<b>1,340</b>	<b>164,903</b>	<b>1,528</b>	<b>1,557</b>	<b>1,517</b>	<b>1,507</b>	<b>1,495</b>	<b>1,498</b>	<b>48,397</b>	<b>223,749</b>		

The Format 4 'At Completion' data has been updated to correct an error in prior months at completion values for FY2015.

**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		
<b>1. CONTRACTOR</b>			<b>2. CONTRACT</b>			<b>3. PROGRAM</b>		<b>4. REPORT PERIOD</b>	
<b>a. NAME</b> CH2M HILL Plateau Remediation Company			<b>a. NAME</b> Plateau Remediation Contract			<b>a. NAME</b> Plateau Remediation Contract		<b>a. FROM (YYYY/MM/DD)</b>  2014/12/22	
<b>b. LOCATION (Address and ZIP Code)</b>  Richland, WA 99354			<b>b. NUMBER</b> DE-AC06-08RL14788		<b>b. PHASE</b> Base		<b>b. TO (YYYY/MM/DD)</b>  2015/1/25		
			<b>c. TYPE</b> CPAF	<b>d. SHARE RATIO</b>	<b>c. EVMS ACCEPTANCE</b> 2009/09/18 NO YES X				
	<b>BCWS</b>	<b>BCWP</b>	<b>ACWP</b>	<b>SV in \$</b>	<b>SV in %</b>	<b>CV in \$</b>	<b>CV %</b>	<b>SPI</b>	<b>CPI</b>
Current:	37,974	35,795	30,492	(2,179)	-5.7%	5,303	14.8%	0.94	1.17
Cumulative:	3,909,755	3,883,434	3,812,118	(26,321)	-0.7%	71,315	1.8%	0.99	1.02
	<b>BAC</b>	<b>EAC</b>	<b>VAC in \$</b>	<b>VAC in %</b>	<b>TCPI</b>				
At Complete:	5,404,768	5,234,147	170,621	3.2%	1.07				
<b>Explanation of Variance/Description of Problem:</b>									
<p><b>Current Period Schedule Variance:</b> The schedule variance was attributed to S&amp;GRP 100-KR-4 drilling encountering difficult conditions, due to size of boulders and cobbles that has required re-drilling with larger diameter casings. In addition, the 200-UP-1 drilling is also encountering delays due to a broken drill bit, thus requiring removal of all the drilled casing, backfilling and repair of the drill bit, then having to re-drill the borehole. In STP, work that was completed ahead of schedule in FY2014 also contributed to the variance.</p> <p><b>Current Period Cost Variance:</b> The cost variance was primarily due to implementation of planned efficiencies across multiple projects.</p> <p><b>Cumulative Schedule Variance:</b> The variance is within reporting thresholds.</p> <p><b>Cumulative Cost Variance:</b> The variance is within reporting thresholds.</p>									
<b>Impact:</b>									
<p><b>Current Period Schedule:</b> No significant impact, as the variance will not have an impact on the lifecycle schedule completion requirements.</p> <p><b>Current Period Cost:</b> No significant impact, planned efficiencies have been incorporated into the lifecycle EAC.</p> <p><b>Cumulative Schedule:</b> N/A</p> <p><b>Cumulative Cost:</b> N/A</p>									
<b>Corrective Action:</b>									
<p><b>Current Period Schedule:</b> No Corrective Actions necessary, as the variance will not have an impact on the lifecycle schedule completion requirements.</p> <p><b>Current Period Cost:</b> No Corrective Actions necessary, as efficiencies have been incorporated into the EAC.</p> <p><b>Cumulative Schedule:</b> N/A</p> <p><b>Cumulative Cost:</b> N/A</p>									
<b>Monthly Summary (to include technical causes of VARs, Impacts, and Corrective Action(s):</b>									
<p>For January, the project was 5.7% behind schedule and 14.8% under planned cost. For FY2015, the project was 0.7% behind schedule and 1.8% under planned cost. The schedule variance was attributed to S&amp;GRP 100-KR-4 drilling encountering difficult conditions, due to size of boulders and cobbles that has required re-drilling with larger diameter casings. In addition, the 200-UP-1 drilling is also encountering delays due to a broken drill bit, thus requiring removal of all the drilled casing, backfilling and repair of the drill bit, then having to re-drill the borehole. In STP, work that was completed ahead of schedule in FY2014 also contributed to the variance.</p> <p>The cost variance was primarily due to implementation of planned efficiencies across multiple projects.</p> <p>Corrective Actions underway for PFP. PBS RL-0011 has incorporated the following:</p> <ol style="list-style-type: none"> <li>Three major break-through initiatives (Change with the End in Mind, Change the Skyline/Change the Culture, KISS it All) and several standalone action items have been identified to provide improvements and efficiencies. Schedules are being developed to implement the initiatives. Status: Progress has been made incorporating activities into the Field Execution Schedule. VE initiatives incorporated into PMB Update.</li> <li>Enhanced "time on tools" continues to be pursued for all PFP subprojects as part of the ongoing Collective Bargaining Agreement negotiations.</li> <li>A change in the PFP safety basis and criticality analysis is in process to approximately double the current allowable fissile inventory for loading gloveboxes outside. This could reduce the time required to clean out some of the remaining high gram gloveboxes prior to shipment to W&amp;FMP for storage.</li> </ol> <p>No other specific corrective actions are planned at this time.</p>									

**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 +\$170.6 million and +3.2% and is within reporting thresholds.

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

CPs - In Process		
	Total Authorized Unpriced Work	\$17,624
Approved Adjustments to Contract Price (not reflected in B.4-1 Table)		
	Total Negotiated Cost Changes	-
<b>Grand Total Adjustments</b>		<b>\$17,624</b>

**Use of Management Reserve (MR) and Fee Activity:**

**MR Utilization**

BCR Number	Title	Fiscal Year	MR
N/A	N/A	N/A	N/A

There were no changes to MR during January.

**Fee Activity**

BCR Number	Title	Fiscal Year	Fee
N/A	N/A	N/A	N/A

There were no changes to Fee during January.

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

<b>Prepared by:</b> Project Control Staff	<b>Date:</b> 2/12/2015	<b>Approved by:</b>	<b>Date:</b>
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# 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

January 2015  
CHPRC-2015-01, Rev. 0  
Contract DE-AC06-08RL14788  
Deliverable C.3.1.3.1 - 1

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

**D. A. Millikin**  
Director of  
Communications

**R. M. Millikin**  
Vice President for  
Prime Contract and  
Project Integration

**V. M. Bogenberger**  
Vice President for  
Business Services  
Chief Financial Officer

## PROGRAM SUMMARY

Project Services and Support functional activities continue to provide support and technical services to all CHPRC projects as well as central management of cross-cutting services.

### EMS Objectives and Target Status

Objective Number	Objective	Target	Due Date	Status
15-EMS-ADMIN-OB1-T1	Reduce energy intensity.	Increase facility occupancy rates to greater than 82% by compressing occupancy and vacating underutilized facilities. Vacated/unoccupied facilities declared unusable and designated inactive placed in Care Taker system.	9/30/15	10%
15-EMS-ADMIN-OB2-T1	Reduce the generation and/or toxicity of waste at the source.	Incorporate waste minimization language into at least 90% of CHPRC onsite/offsite event contracts. Train staff on "green" event planning, contract terms, and policy.	9/30/15	0%
15-EMS-ADMIN-OB3-T1	Maximize the acquisition and use of environmentally preferable products in the conduct of operations.	Establish green catalogs for products beyond office supply purchases on the web site and assuring the GSA supplier has been educated on this objective.	10/9/15	0%
15-EMS-ADMIN-OB3-T2	Reduce generation of paper waste.	Migrate 95% of all record generation to paperless. All records will be reviewed and moved into IDMS for permanent storage.	9/30/15	75%
15-EMS-PTS-OB1-T1	Reduce the potential generation and release of toxic, hazardous, and non-regulated chemical materials to the environment and evaluate for compliance with universal waste and other recycling requirements.	Monitor and evaluate spill prevention program to reduce and/or eliminate spills to the environment by surveillances, on-going training, and spill prevention techniques and ensure universal waste and other recycling requirements are being compliantly accumulated, stored, labeled, packaged, and tracked.	9/30/15	36%
15-EMS-ADMIN-OB4-T1 (Draft)	To expedite chemical Reportable Quantity (RQ) identification by the CHPRC single point of contact (SPOC) during a release or spill.	Develop RQ table for the single point of contact (SPOC) at CHPRC to use when evaluating a release or spill.	TBD	TBD

## 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	6	Employee reported symptoms in their wrist, thumb and finger back to 12/14/14 due to repetitive activities required of their job. This incident occurred in December and reported in January. (23565)
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 SHS&Q Recordable injuries or First Aid cases during January; however, one injury noted above was a late report for December and is recorded in the rolling 12 month total.
  - o Occupational Safety and Industrial Hygiene (OS&IH) accomplishments:
    - Continued support of site-wide standards committees and site-wide steering committees.
    - Continue implementation of the Chronic Beryllium Disease Prevention Program (CBDPP) Revision 2A. Beryllium facility assessments have been completed on 667 CHPRC facilities. Characterizations of facilities are being performed as identified through the assessment process. Beryllium characterizations have been completed on 157 CHPRC facilities. An additional 101 facilities have been sampled. For the month of February, 22 facility assessments are scheduled and characterization sampling events are scheduled for 33 items.
    - Continued to provide support to the Soil and Groundwater Remediation Project (S&GRP) Sample Management & Reporting (SMR) office to resolve issues with off-site lab analysis regarding asbestos fiber counts, as well as for resolution regarding bulk sample shipments.
    - Continued working with Project Facility Chemical Custodians (FCC) to complete qualification cards.
    - Continued to provide field ergonomic assessments and office ergonomic assessments.
    - Continued to provide technical assistance to Plutonium Finishing Plant (PFP) and Decommissioning, Waste, Fuels & Remediation Services (DWF&RS) for asbestos work activities.
    - Continued to provide technical support and guidance to DWF&RS with Confined Space classification and controls.
    - Continued to provide support to DWF&RS in the development of an Industrial Hygiene Exposure Assessment for vapor issues at the Central Waste Complex (CWC).
    - Provide support to PFP in resolving mold issues with the PAPR hoods.
    - Continued working with other Hanford Site contractors to develop consistent ergonomic

- controls.
- Provided technical support on direct reading instruments to PTS OS&IH staff.
- Provided briefings to various project OS&IH personnel on the Site Wide Industrial Hygiene Database.
- o Radiological Control accomplishments:
  - Developed revised radiological criteria for convening Hazard Review Board per request from PFP management.
  - Conducted On-Site Occupational Internal Dosimetry Training Course for 20 Health Physicists (32 CEUs).
  - Teamed with MSA contracted services of Dade Moeller Inc. to perform 10 CFR 835, Subpart J "Radiation Safety Training" triennial assessment.
  - Continued working with LMSI to convert Survey Simple to web-based application
  - Continued work with site contractor IM to revise the Administrative Interface Agreement for Integrated Biological Control Program Services.
  - Filled Radiation Protection personnel requisitions to backfill open positions
  - Completed year-end dosimeter exchange process with no special processing charges.
  - Continued Radiological Work Planning Working Group initiative to identify efficiencies and improvement opportunities.
- o Nuclear Safety deliverables prepared and transmitted to RL in January include:
  - DSA:
    - Implemented six Safety Basis documents:
      - PFP D&D DSA, Revision 11
      - PFP D&D TSR, Revision 11
      - 200 Area Interim Storage Area DSA, Revision 2
      - 200 Area Interim Storage Area TSR, Revision 2
      - 105-K West Basin Final Safety Analysis Report, Revision 21
      - 105-K West Basin TSR, Revision 17
    - Transmitted Revision 12 of the PFP D&D DSA to RL via email for cross-table review and initial comment.
    - Transmitted Revision 12 of the PFP D&D TSR to RL via email for cross-table review and initial comment.
    - Resolved comments, issued, and then transmitted via email the ECRTS PDSA.
    - Provided NS/CS SME support to VE Study for preparing the Remedial Design/Remedial Action Work Plan.
    - Completed a major restructuring of the DMCS Nuclear Safety Basis Workflow.
  - Letters received from RL in January include:
    - Email, 1500274, dated January 15, 2015, *1500274 – ECRTS PDSA Rev. 1 Review Extension to February 6, 2015.*
    - Letter, 15-NSD-0011\_RL, dated January 27, 2015, *Transmittal of Transportation Plan for Local Transuranic Waste Shipments, Revision 1.*

- o Contractor Assurance Regulatory Reporting (CARR) accomplishments:
  - 233 Condition Reports (CRs) were screened in January:
    - 2 Significant issues identified
    - 0 Adverse issues identified
    - 107 Track Until Fixed (TUF) issues identified
    - 41 Trend Only (TO) items identified
    - 82 Opportunity for Improvement (OFI) items identified
    - 1 Screen Out
  - 147 CRs administratively closed.
  - 338 CR actions administratively closed.
  - Provided support for Root Cause Evaluation for CR-2014-2322, *Need for a More Rigorous and Formal CHPRC Project Productivity Process*.
  - One external Lessons Learned was submitted to OPEX.
  - Coordinated responses to Lines of Inquiry submitted by the DNFSB specific to REDOX facility seismic collapse hazard DSA/analysis.
  - Continued support and coordination of the DNFSB review of STP Nuclear Safety initiatives, currently scheduled to begin February 2015.
  - Coordinated responses to Lines of Inquiry submitted by the DNFSB specific to T-Plant seismic studies.
  - Supported the monthly PFP/DNFSB status call.
  - Coordinated the monthly CHPRC/DNFSB Information Request Status call.
  - Coordinated the monthly DNFSB conference call concerning the STP.
  - Thirty-six documents were provided in response to DNFSB requests for information.
  - One Noncompliance Tracking System (NTS) report was submitted. NTS-RL-CPRC-PFP-2015-0001, *Air Sampler Fell From Scaffold Platform*, was submitted on January 14, 2015.
- o Performance Oversight, Assessment, and Quality Assurance accomplishments:
  - Issued Revision 3-0 of PRC-MP-MS-003, *Integrated Safety Management System/Environmental Management System Description (ISMSD)*.
  - Completed SHS&Q-2015-MA-15066, *Management Assessment for Fiscal Year 2014 Integrated Safety Management System (ISMS) Effectiveness Declaration*.
  - Procedure updates were completed and the procedures issued for:
    - PRC-MP-QA-40092, *CHPRC Assessment Program Plan*
    - PRC-PRO-QA-246, *Management Assessment*
    - PRC-PRO-QA-40090, *Work Site Assessment*
    - PRC-PRO-QA-40091, *Integrated Assessment Planning*
    - PRC-PRO-QA-40099, *Management Observation Program*
    - PRC-PRO-QA-9662, *Independent Assessment Process*
    - PRC-PRO-QA-9769, *Surveillance Process*
  - Initiated field activities for 10 CFR 835, Subpart J, "Radiation Safety Training," surveillance activity scheduled for January through March.
  - Initiated planning for the evaluation of DWF&RS requirements documents and identification of required assessment activities, SHS&Q-2015-SURV-15093.
  - Provided support to the WESF K3N Exhaust Ventilation and Hot Cell Stabilization project team to complete the activity Level of Review Score Sheet and Technical Description documents.
  - Initiated planning for 10 CFR 835, Subpart J, "Radiation Safety Training," surveillance activity scheduled for January through March.

- Provided support to the waste and Fuels organization in their procurement of a new Heat Exchanger for the ETF Evaporator. Staff performed an in-process inspection of the fabrication contractor Portland Copper's procedures and processes.
- Continued to provide support to the WESF K3N Exhaust System design team. Assisted in development of an oversight strategy for the Design Contractor.
- Supported the Ground Water Project and Central Engineering in the development of alternate inspection criteria for bonding of double wall HDPE pipe to ensure ASME B31.3 compliance.
- Continued work with Lockheed Martin Information Services and the CHPRC Strategic Planning organization in the resolution of OCRWM records issues.
- Supported the Waste and Fuels organization in the analysis of issues arising from the Commercial Grade Dedication of Seismic Switches for the KW Annex ECRTS modules.
- Developed a position paper on the remaining questions to be answered prior to considering NQA-1a-2009, Part 2, Subpart 2.15 in the Hanford Site Hoisting and Rigging Manual.
- Completed Management Assessment of Key OCRWM Program Documents, SHS&Q-2015-MA-13078.
- Completed Surveillance of all 2014 CHPRC Supplier Nonconformance Reports (NCRs), SHS&Q-2015-SURV-14980.
- Completed Management Assessment of all EM Corporate QA Performance Metric, SHS&Q-2015-MA-14979.
- Status of SHS&Q Focus Areas:
  - o **Issue:** Beryllium (Be) program assessment findings from DOE-HQ, Office of Safety, Health and Security Independent Oversight Inspection report.
  - o **Status:** Implementing Revision 2A across CHPRC. Supporting RL Be KPG recently identified for FY2015 with completion of 3 of 4 CHPRC responsible Be CAP products.
  - o **Action:** Beryllium facility assessments and characterization sampling are being conducted. Beryllium facility assessments have been completed on 667 CHPRC facilities. Additional personnel resources from MSA are being utilized for conducting Be assessments/characterization in PRC facilities.
  - o **Issue:** Accident & Injury Reduction.
  - o **Status:** Continue investigating recordable, DART, and first aid injuries to determine cause, prevention, reduction, to prevent recurrence.
  - o **Action:** Continuing to interface with project personnel, supporting EZACs and project safety meetings for continued focus on injury prevention. Improved TRC/DART rate trends are demonstrating that these efforts are being effective.
  - o **Issue:** PFP Value Engineering (VE) Initiatives Path Forward.
  - o **Status:** Engaged PFP project personnel with SHS&Q central group SMEs.
  - o **Action:** Supporting PFP initiatives, supplied breathing air system implementation, new NDA equipment and process upgrades, and development of DSA Revision 12. New NDA equipment purchased, calibrated, and deployed in PFP. New NDA program manager assigned to support process in PFP.

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

- **Compliance Status**
  - o Ecology requested additional records and information relating to their December CWC inspections relating to a small liquid leak from a drum in storage.
  - o Ecology performed an inspection of T-Plant and requested numerous records relating to tank management and drum labeling requirements.
  - o A drum of CERCLA waste at 100K did not receive weekly inspections for a period of August – December, 2014. The inspections were discontinued following changes in personnel, and a

reliance on a human (as opposed to an automated) system to trigger an inspection event. Inspections have resumed and an apparent cause review is underway.

- **RCRA Permitting Progress**
  - o WRPS submitted a Part A RCRA permit modification to transfer LERF/ETF from CHPRC.
  - o Supported RL on revisions of the site-wide Hanford Emergency Management Plan (HEMP). Current timeline is for HEMP modifications to be completed May, 2015.
- **Environmental Management System (EMS)**
  - o Leveraging CHPRC expertise through discussions with other Site contractors to assist in development of ISO-140001 equivalent EMS.

#### **Environmental Compliance & Quality Assurance (ECQA)**

- **Assessment Program**
  - o Surveillance EP&SP-2015-SURV-15481, Data Collection and Reporting Processes, was completed. The assessment resulted in one finding and two opportunities for improvements; one recommendation to develop a company-wide procedure for the preparation of DQOs, and a recommendation for updating the Comprehensive Baseline Assumptions and Specifications (CBAS) tool for inclusion of links to procedures related to document development.
- **Corrective Action**
  - o ECQA is coordinating with the DWF&RS/SWOC on the clarification and identification of issues from the recent assessment of the agreed order (AO). The intent is to ensure that appropriate condition reports are entered into the Issues Management system and that there are no redundancies.

#### **Business Services**

- **Acquisition Planning**
  - o Supported DWF&RS for the WESF Stabilization/Ventilation Project W-130 and five upcoming procurement activities to support FY2015 work scope.
  - o Submitted the FY2015 Balanced Scorecard Plan.
- **Finance**
  - o Continued to reply to KPMG requests for data related to the ongoing FY2010-FY2013 incurred cost audits.
  - o January month end completed with no suspensions.
  - o Provided input on RL Finance Certification Pay Review.
  - o Provided support for FY2015 Forward Pricing Rate audit by KPMG.
- **Human Resources**
  - o The HR Compensation area is currently working to complete a Total Compensation Self-Assessment. This objective of this informal self-assessment is to evaluate and ensure costs are reasonable, meet the test allowably, and are consistent with CHPRC's HR Compensation Plan and the provisions of our contract with RL. Components of this assessment include a review of the Salary Increase Fund, Salary Planning (merit increases), Salary Structure, Adverse Impact Analysis, Job Classification Review, Employee Turnover, Unallowable Salaries, Benefits, Overtime Usage, and Policies and Procedures relating to Compensation.
- **Labor Relations**
  - o Two grievances scheduled for arbitrations were withdrawn.
  - o Arbitrations hearing on grievance PRC-013-017, AED, completed.
  - o All Statement of Works (SOW) in place for HAMTC Officers.
- **Procurement**
  - o Awarded/amended 152 contracts with a total value of \$2.98 million. Additionally, awarded 99 new material purchase orders valued at \$589,517 to support ongoing project objectives.
  - o At the end of the first 76 months of the PRC, procurement volume has been significant; \$2.17 billion in contract activity has been recorded with approximately 50.56 percent, or \$1.099 billion,

in awards to small businesses. This includes 6,706 contract releases, 17,351 purchase orders, and 215,335 P-Card transactions.

- o Completed and issued two Advance Planning Documents for review or approval.
- o On January 26, 2015, Contract 44438-28 was awarded to DGR-Grant Construction, Inc. for the construction of the “Weather Enclosures for Drilling Operations 100K,” and the driller’s support for the installation of the two 100-KR-4 OU boreholes at the 105-KE building in the 100-K Area. Award was in the amount of \$323,626.00 on a time and material basis. This was as a result of competitive procurement RFP 275040 which was provided to the CHPRC Miscellaneous Construction Services BOA holders.
- o On January 12, 2015, Contract 48772-11 was awarded to StillWater Drilling for the “Installation of Eight Pump-and-Treat Wells in the 100-HR-3 Operable Unit, Plus Four Optional Wells, FY2015,” work scope in the amount of \$631,700 on a firm fixed price basis. This was a result of competitive solicitation RFP 273213 which was provided to the CHPRC Drilling BOA holders.
- o On January 14, 2015, Contract 48772-12 was awarded to StillWater Drilling for the “Drilling of the 100-N-85 Waste Site Characterization Borehole in the 100-NR-2 Operable Unit, FY2015,” work scope in the amount of \$62,100 on a firm fixed price basis. This was a result of competitive solicitation RFP 273213 which was provided to the CHPRC Drilling BOA holders.
- o On January 15, 2015, Contract 56091 was awarded to Plas-Tanks for the “USIT-Y10 Fiberglass Tank Fabrication,” work scope in the amount of \$74,775 on a firm fixed price basis. This was a result of competitive solicitation RFP 273165.

### **Prime Contract and Project Integration (PC&PI)**

The results of the root cause evaluation (RCE) and associated recommended Corrective Action Plan (CAP) documented in CR-2014-2322, Need For a More Rigorous and Formal CHPRC Project Productivity Process, were presented to and approved by the CHPRC Executive Safety Review Board on January 14, 2015. This RCE was performed in response to a request from RL to develop a CAP to address the issues identified in DOE Office of Investigator General (OIG) audit on the management of the Plutonium Finishing Plant (PFP). As documented in the OIG report, improvements have been seen, but CHPRC “continues to encounter problems with the ability to plan, manage, and execute work”. The RCE addressed the planning, management, and execution of work throughout CHPRC’s areas of responsibility and did not limit its’ scope to PFP. The report and CAP were formally transmitted to RL on January 15, 2015.

#### **• Contracts Compliance and Change Management**

- o In January, Prime Contracts and CC&CM received and processed three (3) contract modifications (numbers 386-388) from RL. Correspondence Review received and determined the distribution for 55 incoming letters/documents. The Prime Contracts Compliance Manager reviewed 29 outgoing correspondence packages.
- o There were two Potential Notice of Impact letters provided to RL in January related to the Risk of ETF delayed transfer and the delayed ERDF Leachate Transfer Line Construction.
- o Reviewed and submitted a detailed response to the CO regarding the governments’ technical evaluation of CP 000 248 1452 Rev 1A, Chronic Beryllium Disease Prevention Program Rev 2A Implementation.

## Change Proposal/REA Summary

Change Proposals submitted on or ahead of due date	Request for Equitable Adjustments submitted	Supplemental Information submitted/ Tina Sweep	Change Proposals Definitized on or ahead of 180-day metric	Change Proposals Definitized after 180-day metric	Other Proposals/REAs Definitized
2	1	4	1	0	1

- o Estimating & Program Support provided the following support to the Projects:
  - Plutonium Finishing Plant (PFP):
    - Completed estimates in support of the following work: Building 234-5Z Core Drilling: Building 236-Z Floor Grouting and Core Drilling.
  - Sludge Treatment Project (STP):
    - Submitted REA 012 1454 - *Sludge Treatment Project FY2013 Sequestration Impacts*, on January 29, 2015.
  - Decommissioning, Waste, Fuels & Remediation Services (DWF&RS) Project
    - Definitized CO 258, IDF Performance Assessment Scope Turnover Support, on January 12, 2015.
    - Submitted updated pricing for CP 013 259, *Definitive Design Report for WESF Ventilation Project W-130*, reflecting the results of a TINA review, on January 6, 2015.
    - Conducted a TINA review on CP 041 252, *Supplementary Characterization of UPR-100-K-1 and 116-KE-3 Waste Sites*, on January 19, 2015, and submitted pre negotiation information on January 23, 2015. Price agreement was reached on January 27, 2015 and the modification is in process by RL.
  - Soil & Groundwater Remediation Project (S&GRP):
    - Submitted a Change Proposal in response to CO 266 – *200-UP-1 SE Chrome Plume Characterization, Evaluation and Remedial Design*, on January 7, 2015.
    - Submitted and reached price agreement on CO 265, US Ecology RI/FS Review, on January 26, 2015. The modification is in process by RL.
    - Reached price agreement with RL on January 13, 2015 for the CP 030 260, *100-NR-2 Bioventing*. The modification is in process by RL.
    - Submitted additional estimate support information to RL for the following CP's:
      - o CP 030 261 *Design and Construction of Unloading Station and Transfer Tank at 200 W Pump & Treat*, on January 5, 2015.
      - o CP 030 264 *200-UP-1 Uranium Treatment Inside 200W P&T Facility*, on January 13, 2015.
      - o Definitized REA 30 1465 (300 Area RI/FS) in Modification 387.
    - Assisted in the preparation of an estimate of the cost to modify the Membrane Bioreactors at the 200 W Pump-and-Treat for discussion with RL, on January 29, 2015.
  - Project Technical Support:
    - Completed an estimate that will support procurement of construction services to conduct interior renovations for Building 6267, CHPRC Sample Processing Facility.
  - Estimating Support Services (ESS)
    - Updated HSSA rates in the Sage Estimating Database.

- **EVMS Compliance and Reporting**

- o Completed an Integrated Project Team (IPT) review (held monthly) which provides an internal independent evaluation of scope, schedule, budget, risks, funding and other elements relevant to CHPRC projects, including the validity of the budgeted cost of work performed values. These reviews are done to assure the adequacy of CHPRC EVMS data for use by RL and CHPRC management. No major issues have been identified. The IPT results are reviewed by Senior Management at the internal Monthly Project Review.
- o Processed and incorporated 9 Baseline Change Requests (BCRs) into the Performance Measurement Baseline (PMB).
- o A test environment has been completed for a central database/repository that will provide a coding structure for documenting each project's earned value basis and methodology. This system will enhance the current capabilities of providing accurate earned value data. Completion of the database is projected in February/March.
- o Working with Procedures and Training, a first draft of a new Earned Value Management (EVM) Training Program Description (TPD) was developed and distributed to the Project's project controls organizations for review. This TPD is being developed as one of the actions in the Corrective Action Plan developed in response to the conclusions of a root cause/common Cause Evaluation performed by CHPRC on why external and external assessments continue to identify deficiencies and Opportunities for Improvement in CHPRC's EVMS. CHPRC-2014-1495, *Common Cause/Root Cause Evaluation of Earned Value Management Assessments*. Once finalized, it will establish training and qualification requirements for all personnel involved in the implementation of EVM within CHPRC.

- **Strategic Planning and Integration**

- o **Interface Management**

- o Interfaces (Technical, Administrative and Regulatory):
  - Completed agreement and contract mechanism for inter contractor use and reimbursement of HAMTC Union Leadership on CBA related business.
  - Facilitating MSA resource priority for 100K and 400 Area water line maintenance and repairs.
  - Facilitated priority decisions for MSA Hanford Fire Marshall support on CHPRC Fire Hazards Analysis at PFP and WESF.
  - Investigating abandoned steam line deterioration ownership concern near the PUREX facility with WRPS and CHPRC Surveillance & Maintenance.
- o Annual Forecast of Services:
  - Status of usage based services needs ongoing and communicated to MSA as appropriate.
  - Specific items in discussion include additional Crane & Rigging resources during the second half of the Fiscal Year.
- o Inter-Contractor Issue Resolution:
  - Attended weekly field interface and resource allocation meetings.
  - Participating in regular Interface Management leadership meetings with RL, MSA and WRPS.
  - Initiated internal reviews and data call collection for the annual ISAP reporting request from MSA.
- o Controlling and Service Agreements:
  - HNF-23474 Revision 2, ICD between CHPRC and JCI for Hazardous Energy Control - Revision in process
  - HNF-46148 Revision 3, ICD between CHPRC and MSA for Water System Services (In USQ/Engineering release) – New comments provided and back in review cycle.

- HNF-40686 Revision 5, AIA between CHPRC, WRPS and MSA for the Integrated Biological Controls Program – Revision in process.
- HNF-58413, AIA for the Centralized Consolidation/Recycling Center Acceptance of Waste and Other Recycling Services – Released
- HNF-52028, AIA for Accident/Incident/Exposure/Uptake/Personal Injury/Critique POC and Safety Issue Escalation with MSA – developing revision to include notifications/communications for exceeding occupational exposure limits.
- TOC-AIA-OHC-00037, Rev 0, AIA for Waste Treatment Plant Operational Readiness – Issued.
- TOC-AIA-OHC-00041, Rev 0, AIA for Waste Treatment Plant Operational Readiness Integration - Document in comment resolution.
- Participating in development of a proposed Inter-Contractor Stop Work AIA. Provided comments to CHPRC Subject Matter Expert.
- Participating in development of an ICD with WCH for ERDF Leachate transfers to CHPRC Liquid Treatment Facilities (ETF/LERF/200 West Pump & Treat). Development in progress.
- Participating in the development of an AIA with WRPS for Removal of the Heat Exchanger at ETF. Document is in comment resolution.
- Supporting annual review of the J.3 Service Delivery Documents.
- o J.3 Table:
  - Reviewed WRPS proposed update to J.3 32 RSS Services item regarding updating ANSI references. Still in review mode.
  - Reviewed MSA proposed update to J.3 30 Ecological Monitoring and Compliance relating specifically to the Migratory Bird Treaty Act. Comments provided to MSA Interface Management. Final resolution of wording still ongoing.
  - Initiated reviews of the J.3 76 item to address transfer of ETF/LERF/TEDF scope to WRPS.
- o J.13/J.14 Tables:
  - Initiating reviews of the ETF facilities to determine transfer impacts of structures and waste sites to WRPS.
- o Internal Operations:
  - Revision of Interface Management PRC-PRO-MS-10472 is in progress.
  - Continue support of ETF/LERF/TEDF transition to WRPS, as requested.
  - Continue efforts on work management improvement initiatives relative to other contractors performing work in CHPRC facilities (Co-effort with PTS).
  - Investigating performance issues with the MSA Chlorinator Serviceman and support for the 100 and 400 area water systems operations and maintenance.
  - Provided internal evaluation of roles and responsibilities related to injury/event reporting on incidents related to “Hybrid” support tasks from other Hanford Contractors.
  - Facilitated information flow and POC notifications regarding the Unitech tight fitting mask resin bead “Stop Work” at PFP.

### Information Management

- o Software development of the Respiratory Protection Equipment Tracking automated system continues.
- o Initial inventory of all OCWRM holdings located at the 3212 Building to locate approximately 1000 records that do not have specific box locations on the OCWRM Index has been completed. 12 documents remain missing to date. The disposition of each document is now being considered.
- o Provided IT, event logistics, and facilitation support to company manager meetings, EZAC, PZAC, and Leadership Impact Initiative training

- o Provided information clearance and release support for 100K, S&GRP, DWF&RS, SHS&Q and PTS documents.
- o Provided numerous IT support requests for cellular phone issues/questions, meeting set-up, network connections, and printing.
- o Processed 9,781 Electronic Records into IDMS.

### **Project Technical Services (PTS)**

- **Central Engineering**

- **Fire Protection Engineering**

- o Completed the TSR Surveillance for Combustible Loading at T-Plant.
- o Provided technical direction related to resolution of fire protection design for the KW Annex.
- o Prepared an Interpretation Clarification Request (ICR) for the removal of Door 353 in building 234-5Z, submitted the ICR to the Hanford Fire Marshal's Office (HFMO), and published the ICR upon receipt of HFMO approval.
- o Assisted in the resolution of the Building 481 fire door replacement and associated NCRs for doors received.
- o Coordinated PFP Fire Marshal Permits preparation and release for TRU Waste storage areas.

- **Engineering Services**

- o Participated in a plant visit to the fabricator in Portland, Oregon that is fabricating the ETF heat exchanger.
- o Supported WESF project W-130 regarding ASME AG-1 compliance matrix planning. (DES)
- o Supporting DWF&RS in the Final Design Review/Verification and the SOW for the ERDF Leachate Transfer Line.
- o Continued to review submittals for the STP for the annex construction, STSC fabrication, and early procurement of ECRTS components.
- o Reviewed and provided comments for the S&GRP SOW for the Weather Enclosures and Drilling Operation at the 100K East Boreholes.

- **Engineering Standards/Programs**

- o Reviewed and provided comments for a Training Design document for Equipment Operation near Power Lines (Course 044605).
- o Co-chaired the EFCOG Project Delivery Working Group Workshop in Washington D.C. Also participated in the EVM Subgroup Workshop.
- o Assisted a DWF&RS engineer to disposition an NCR for an electrical distribution system 600 volt fuse that did not have an acceptable OSHA-recognized NRTL mark.
- o Completed changes to PRC-PRO-EN-8323. The procedure was approved, USQ's performed and the procedure was released.
- o Completed changes to PRC-PRO-EN-8016 to clarify wording related to the redlining of DCNs. The procedure was approved, USQ's performed and the procedure was released.

- **Procedures and Training**

- o Completed Training Activity Sheet changes for more than 100 courses
- o Updated and implemented documented safety analysis computer based training for CSB
- o Supported RL training assessment activities
- o Completed major qualification overhaul and combination effort at WESF for surveillance qualifications
- o Reviewed 100K training material update status and created packets for Operations SME review
- o Implemented revised Work Management procedures suite
- o Worked with PC&PI organization to draft a training program description for EVMS training

- **Operations Program**
  - o Significant effort in finalizing procedures for publication; Issued new revisions for work management procedure suite (four PROs, one STD; canceled two guides)
  - o Met with RL for a factual accuracy review of a surveillance dealing with SME involvement in work planning/hazard analysis process
  - o Assisted project briefings for Work Management roll out
  - o Completed and issued MA for 2014 CHPRC LOTO annual review
  - o Mentors performing field observations, assisting with:
    - Work release issues at 100KW, attending one critique, TSR surveillances at CWC, and observing emergency preparedness drills.
    - Observing well drilling and LOTO activities
  - o Assisted ETF Transition kickoff meeting
  - o Submitted CP S&M Hazards Survey Update to the project for internal review
  - o CSB EPHA draft completed and completed calculation check
  - o Updated the S&GRP Drill Program Plan to add additional drills to support 100KE Borehole startup
  - o Submitted WRAP EPHA to RL for review and approval
- **Project Delivery**
  - o **S&GRP Projects**
    - Completed tie in and scope of work at ME53
    - Commenced road crossing work and 3” HDPE bonding for well MJ16
    - Continued bonding of DWHDPE for UP1 transfer line
    - Completed road crossing #22 for UP1 transfer lines
    - Commenced install of the sunshade at 289T facility
    - Progress on weather enclosure at 289T pending receipt of emergency lighting and exit signs. TSS to provide official response to NCR-01 regarding non conformances noted during walkdown.
    - Contract award to DGR for construction of the borehole enclosures at 100K area. Shop fabrication of enclosure panels commenced. Site mobilization scheduled for week of February 9.
  - RAD Building Mods**
    - IX skid held in Nebraska due to severe weather, delivery date pending from supplier
    - USIT-Y10 fabrication awarded to Plas-Tanks and submittals are in routing. Delivery scheduled for April 13.
  - o **DWF&RS Projects**
    - RFP issued for ERDF transfer line. Subcontractor prebid walkdown completed on January 27.
    - 189 Clearwell tank received at DGR facility. Install mock up performed at DGR facility on January 29. Progress pending Engineering determining flex fitting needs and facilities completing bypass modifications.
    - RFP issued for 1803 raw water tank modifications
    - Performed review of WESF 60 percent design, comments will be provided via RCR in early February.
- **KW Annex Construction**
  - Continued fire coating application touch ups in the Sludge Load Out Bay
  - Completed a walk down of fire coating to initiate punchlist
  - Completed gypsum wall board installation on 2-line in High Bay/Intermediate Bay transition
  - Initiated the installation of return air ductwork in the ME room

- Initiated the installation of the roof cowl duct for AHU 501 in the ME room
- Installed hydronic piping began welding spool pieces
- Initiated swing shift with Fire Sprinkler installation and electrical focus
  - Performed installation fire protection piping in Intermediate and High bay East
  - Initiated penetration at gypsum walls for fire sprinkler piping High Bay 2 line and in HEPA/ME rooms
  - Initiated fabrication and installation of lighting conduits

### Communications

- CHPRC Communications finished production of and distributed to all employees a video of cleanup progress from the first quarter of FY2015. The video was shared with RL and was posted on CH2M HILL corporate social media pages. CHPRC Communications also supported production of Hanford Communities' PFP update video. Hanford Communities plans to present the video to stakeholders.
- Progress at the PFP was featured in the January 2015 issue of *EM Update*. Communication is preparing material and coordinating preparatory materials with RL to communicate externally PFP pencil tank removal progress, 100KE borehole drilling and "After School Matters," which is a program that teaches children about safety and Hanford careers. Communications prepared an article for the *Tri-City Herald's* "2015 Progress Edition" with the article planned for submittal and publication in March.
- Internal communications supported campaign products relative to hand and driving safety campaigns, a June 2015 EMS audit and an FY2015 Safety Conscious Work Environment survey.
- Communications developed information materials and coordinated a public meeting for class 3 permit modifications for ventilation upgrades and grouting hot cells no longer in use in the Encapsulation and Storage Facility. Project update information was provided in support of the development of the RL's Agency Update presentation for the February HAB meeting.

## PROJECT BASELINE PERFORMANCE

### Current Month

#### (\$M)

WBS 000 Project Services and Support	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)
Office of the President	0.2	0.2	0.1	0.0	0.0%	0.1	50.7%
Internal Audit	0.1	0.1	0.1	0.0	0.0%	(0.1)	-86.6%
General Counsel	0.1	0.1	0.2	0.0	0.0%	(0.0)	-40.0%
Communications	0.1	0.1	0.1	0.0	0.0%	(0.0)	-2.0%
Safety, Health, Security and Quality	1.2	1.2	0.8	(0.0)	-0.3%	0.4	35.8%
Environmental Program and Strategic Planning	0.4	0.4	0.3	0.0	0.0%	0.0	35.8%
Business Services	1.6	1.6	1.7	0.0	0.0%	(0.1)	10.4%
Prime Contract and Project Integration	1.8	1.8	1.7	0.0	0.0%	0.1	7.7%
Project Technical Services	0.6	0.6	0.6	(0.0)	-2.0%	0.0	2.0%
<b>Indirect WBS 000 Total</b>	<b>6.1</b>	<b>6.1</b>	<b>6.0</b>	<b>(0.0)</b>	<b>-0.3%</b>	<b>0.5</b>	<b>8.7%</b>

Numbers are rounded to the nearest \$0.1M.

#### Indirect WBS 000

##### CM Schedule Performance: (-\$0.0M/-0.3%)

Variance is within reporting thresholds.

##### CM Cost Performance: (+\$0.5M/+8.7%)

Variance is primarily attributed to reduced external dosimetry service costs, staffing vacancies currently in process of being backfilled, and increased direct project support.

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

WBS 000 Project Services and Support	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)	Budget at Completion (BAC)
Office of the President	0.5	0.5	0.6	0.0	0.0%	(0.1)	-15.0%	1.7
Internal Audit	0.2	0.2	0.3	0.0	0.0%	(0.1)	-69.3%	0.7
General Counsel	0.4	0.4	0.2	0.0	0.0%	0.0	3.5%	1.2
Communications	0.3	0.3	0.4	0.0	0.0%	(0.0)	-15.9%	1.0
Safety, Health, Security and Quality	4.3	4.3	3.3	(0.0)	-0.3%	1.0	23.2%	13.9
Environmental Program and Strategic Planning	1.3	1.3	1.3	0.0	0.0%	0.0	2.9%	4.3
Business Services	5.8	5.8	6.1	0.0	0.0%	(0.3)	-5.9%	16.2
Prime Contract and Project Integration	6.9	6.9	5.8	0.0	0.0%	1.1	16.1%	23.0
Project Technical Services	2.2	2.2	2.4	(0.0)	-1.0%	(0.2)	-7.5%	7.3
<b>Indirect WBS 000 Total</b>	<b>22.0</b>	<b>22.0</b>	<b>20.6</b>	<b>(0.0)</b>	<b>-0.2%</b>	<b>1.4</b>	<b>6.3%</b>	<b>69.2</b>

Numbers are rounded to the nearest \$0.1M.

### Indirect WBS 000

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

Variance is within reporting thresholds.

#### FYTD Cost Performance: (+\$1.4M/+6.3%)

The favorable cost variance is primarily due to less than planned IRM Business System Improvements, B&O Home Office Cost estimate reductions, reduced external dosimetry service costs, and staffing vacancies in process of being backfilled.

### Baseline Change Requests

BCR-PRC-15-018R0 – *Undistributed Budget Adjustments January 2015*

BCRA-PRC-15-019R0 – *HPIC Updates January 2015*



