CHPRC-2016-01
Revision 0

# Monthly Performance Report

## January 2016

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

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


**P.O. Box 1600**
**Richland, Washington 99352**

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ch2m SM
**P.O. Box 1600**
**Richland, Washington 99352**

***APPROVED***
***By Ashley Jenkins at 12:05 pm, Feb 22, 2016***

Release Approval Date

**Approved for Public Release;
Further Dissemination Unlimited**

# Monthly Performance Report

J. A. Ciucci
President and Chief Executive Officer

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

**January 2016**
CHPRC-2016-01, Revision 0

## CONTENTS



## PROJECT BASELINE SUMMARY SECTIONS



## APPENDICES

# EXECUTIVE SUMMARY

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

- The Plutonium Finishing Plant (PFP) closure project completed canyon waste debris clean-up, packaging, and load-outs at 236-Z Plutonium Reclamation Facility (PRF). The project continued work on Glovebox HA-9A with the completion of the size reduction of the middle level of the glovebox.

- The Waste and Fuels Management Project (W&FMP) completed the installation and testing of tank TK-7 in G-Cell of the Waste Encapsulation and Storage Facility (WESF). TK-7 will be used as the failed capsule response tank. Nondestructive assay activities continued in the Outside Storage Area A at the Central Waste Complex.

- The Soil and Groundwater Remediation Project (S&GRP) completed the 2-year Remedial Investigation groundwater sampling, which satisfies the requirements for TPA Milestone M-015-78.

- The K Basin Operations and Plateau Remediation (KBO&PR) project completed the re-lidding of two of the six engineered containers in the K West Basin. The project began Maintenance and Storage Facility (MASF) Pre-Operations Acceptance Testing, with the removal of test articles from the test pool at MASF and the installation of production articles at MASF.

**Workers grouted the PRF canyon floor.**

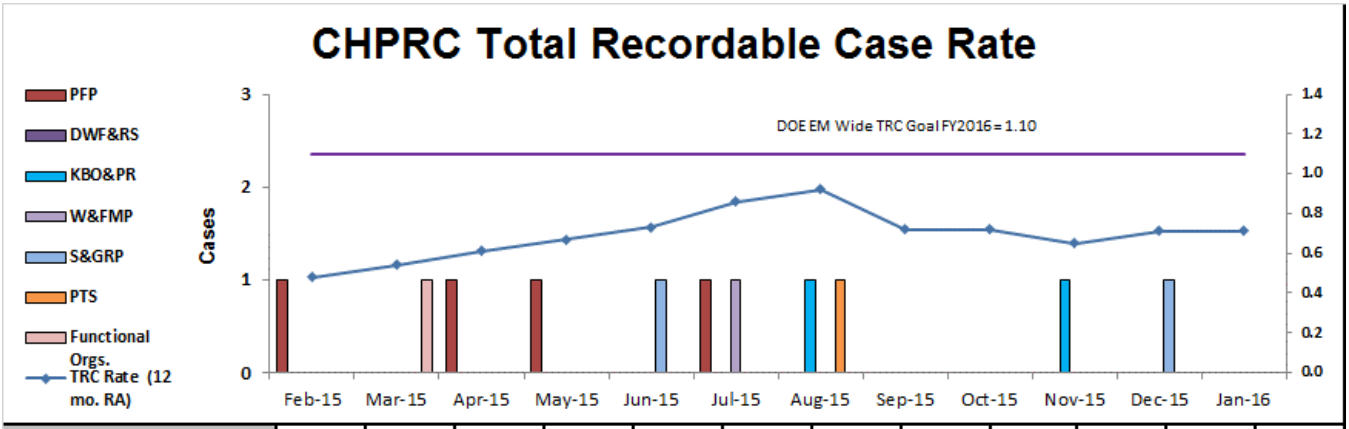

**Workers installed and tested TK-7 inside G-Cell.**

The January 2016 President's Zero Accident Council (PZAC) meeting was hosted by Business Services.

- The three main ideas for the meeting were:
  - Goal setting – turn resolutions into SMART goals.
  - Portion distortion – Remember the seven tips.
  - Positive attitude – smile!
- Four "*Thinking Target Zero*" (TTZ) bulletins were published in January to convey important occupational, safety, health, and environmental messages:
  - Winter Personal Protection Equipment (PPE).
  - VPP – Accident & Injury Reporting.
  - Cold Exposure and Safety.
  - Winter Health and Safety.
- January *Weekly Safety Tailgate* briefing packages communicated relevant topics and safety information to the workforce:
  - Three Lessons Learned: Two workers were severely injured when they were struck by motor vehicles; during transport, a milling machine strapped to a granite slab fell from a flatbed truck during a turn; a worker was going down a scaffold ladder, when the top clamp on the upper ladder section came free.
  - "What Would You Do?" Ethics Awareness messages.
  - Refocus on Safety.
  - Winter hazard evaluations.
  - Hanford Site Lockout/Tagout Procedure Revision.
  - Truck lift gate incident.
  - Safety first, Safety always.
  - Refresh your work habits.
  - Refresh your workstation.
  - Hazard communication regarding Globally Harmonized System.
  - Vehicle use and control.
  - Vehicle chocking.
- Weekly Updates in January featured blogs that highlighted safety, health, and environmental messages:
  - The Vice President of Safety, Health, Security, & Quality (SHS&Q) reminded everyone to refocus on safety after the holidays. He reminded everyone to have a questioning attitude ready; look for what has changed; wear appropriate PPE; to follow procedures and work control documents; report physical limitations, injuries, fatigue or situations that may prevent safe completion of tasks; and to stop when unsure.
  - The Vice President of KBO&PR and the Vice President of Project Technical Services (PTS), shared a video to explain how KBO&PR and PTS workers are working toward safely and compliantly removing highly radioactive sludge away from the Columbia River.
- The January Kudos Corner recognized individuals and teams who made a significant contribution to safety at work, home or play:
  - A Worker was being vigilant and noticed several lighting fixtures required re-lamping at 100K and made the proper notifications to get the problem fixed.

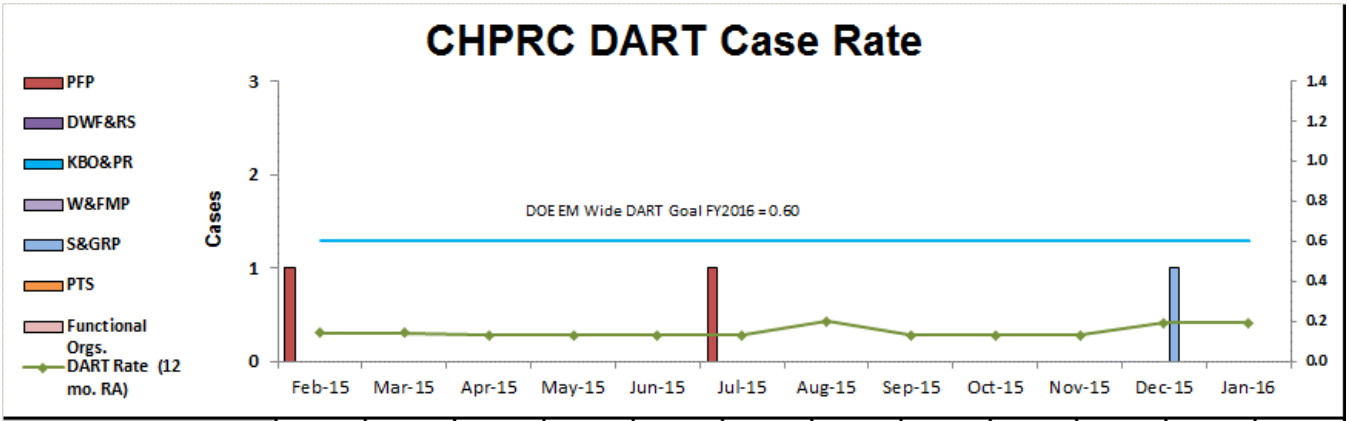
# TARGET ZERO PERFORMANCE

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



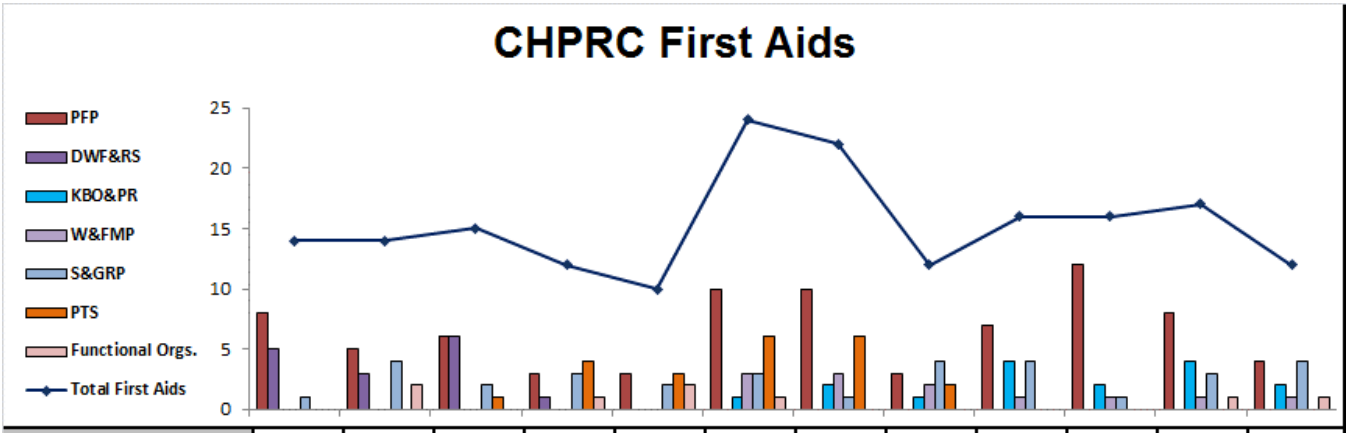

| | Feb-15 | Mar-15 | Apr-15 | May-15 | Jun-15 | Jul-15 | Aug-15 | Sep-15 | Oct-15 | Nov-15 | Dec-15 | Jan-16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PFP | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| DWF&RS | 0 | 0 | 0 | 0 | 0 | | | | | | | |
| KBO&PR | | | | | | 0 | 1 | 0 | 0 | 1 | 0 | 0 |
| W&FMP | | | | | | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| S&GRP | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| PTS | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| Functional Orgs. | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Recordable Cases** | **1** | **1** | **1** | **1** | **1** | **2** | **2** | **0** | **0** | **1** | **1** | **0** |
| **TRC Rate (12 mo. RA)** | **0.48** | **0.54** | **0.61** | **0.67** | **0.73** | **0.86** | **0.92** | **0.72** | **0.72** | **0.65** | **0.71** | **0.71** |

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




| | Feb-15 | Mar-15 | Apr-15 | May-15 | Jun-15 | Jul-15 | Aug-15 | Sep-15 | Oct-15 | Nov-15 | Dec-15 | Jan-16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PFP | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| DWF&RS | 0 | 0 | 0 | 0 | 0 | | | | | | | |
| KBO&PR | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| W&FMP | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| S&GRP | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| PTS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Functional Orgs. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **DART Cases** | **1** | **0** | **0** | **0** | **0** | **1** | **0** | **0** | **0** | **0** | **1** | **0** |
| **DART Rate (12 mo. RA)** | **0.14** | **0.14** | **0.13** | **0.13** | **0.13** | **0.13** | **0.20** | **0.13** | **0.13** | **0.13** | **0.19** | **0.19** |

Days Away, Restricted or Transferred (DART) Workdays Case Rate: The 12-month rolling average DART rate of 0.19 is based upon a total of three Days Away cases. There were no DART cases in January.




| | Feb-15 | Mar-15 | Apr-15 | May-15 | Jun-15 | Jul-15 | Aug-15 | Sep-15 | Oct-15 | Nov-15 | Dec-15 | Jan-16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PFP | 8 | 5 | 6 | 3 | 3 | 10 | 10 | 3 | 7 | 12 | 8 | 4 |
| DWF&RS | 5 | 3 | 6 | 1 | 0 | | | | | | | |
| KBO&PR | | | | | | 1 | 2 | 1 | 4 | 2 | 4 | 2 |
| W&FMP | | | | | | 3 | 3 | 2 | 1 | 1 | 1 | 1 |
| S&GRP | 1 | 4 | 2 | 3 | 2 | 3 | 1 | 4 | 4 | 1 | 3 | 4 |
| PTS | 0 | 0 | 1 | 4 | 3 | 6 | 6 | 2 | 0 | 0 | 0 | 0 |
| Functional Orgs. | 0 | 2 | 0 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 1 | 1 |
| **Total First Aids** | **14** | **14** | **15** | **12** | **10** | **24** | **22** | **12** | **16** | **16** | **17** | **12** |

First Aid Case Summary: CHPRC reported twelve first aid cases in January; of these, six cases required no treatment. There were three self-treated injuries. The contributors were five sprains / strains / pains, five abrasions / contusions and two miscellaneous (irritation, shock, etc.)

## KEY ACCOMPLISHMENTS

**Projects**

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

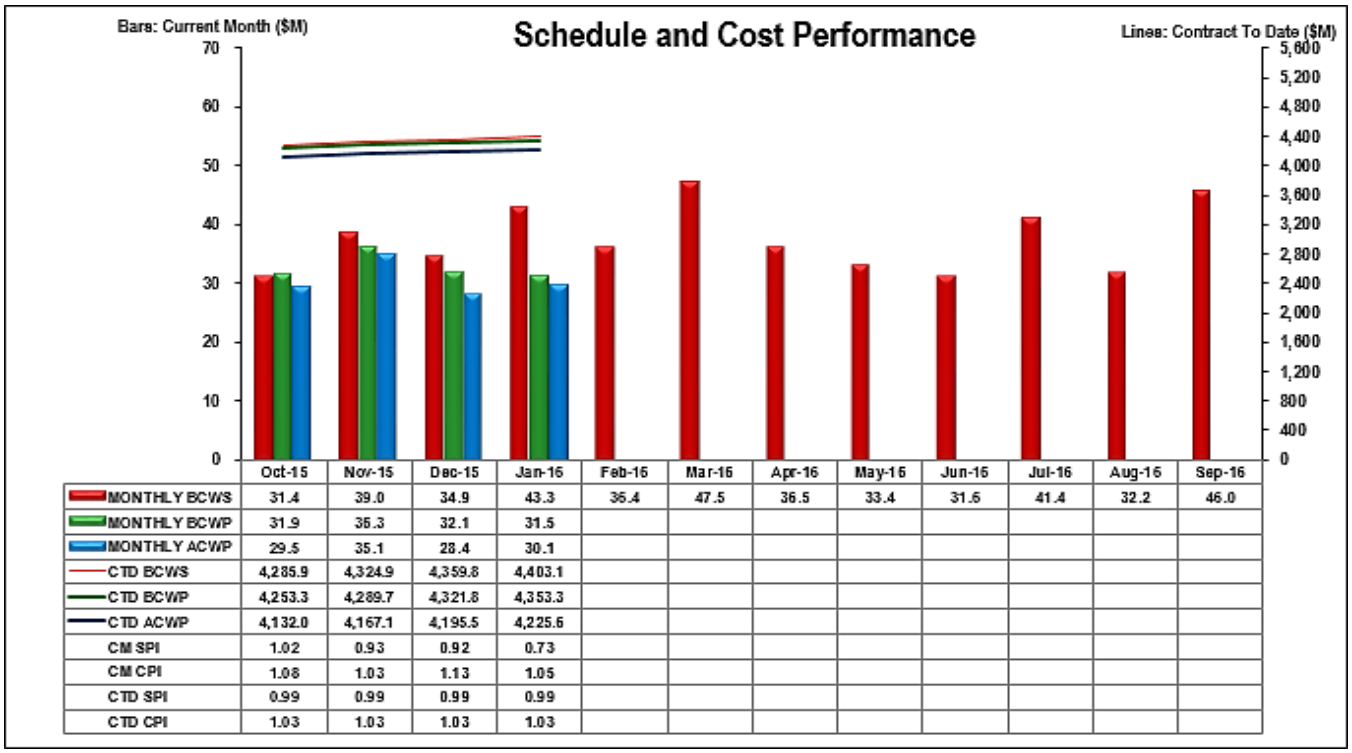
**Project Services and Support**

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

## MAJOR ISSUES

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

# EARNED VALUE MANAGEMENT




| | Oct-15 | Nov-15 | Dec-15 | Jan-16 | Feb-16 | Mar-16 | Apr-16 | May-16 | Jun-16 | Jul-16 | Aug-16 | Sep-16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MONTHLY BCWS | 31.4 | 39.0 | 34.9 | 43.3 | 36.4 | 47.5 | 36.5 | 33.4 | 31.6 | 41.4 | 32.2 | 46.0 |
| MONTHLY BCWP | 31.9 | 36.3 | 32.1 | 31.5 | | | | | | | | |
| MONTHLY ACWP | 29.5 | 35.1 | 28.4 | 30.1 | | | | | | | | |
| CTD BCWS | 4,285.9 | 4,324.9 | 4,359.8 | 4,403.1 | | | | | | | | |
| CTD BCWP | 4,253.3 | 4,289.7 | 4,321.8 | 4,353.3 | | | | | | | | |
| CTD ACWP | 4,132.0 | 4,167.1 | 4,195.5 | 4,225.6 | | | | | | | | |
| CM SPI | 1.02 | 0.93 | 0.92 | 0.73 | | | | | | | | |
| CM CPI | 1.08 | 1.03 | 1.13 | 1.05 | | | | | | | | |
| CTD SPI | 0.99 | 0.99 | 0.99 | 0.99 | | | | | | | | |
| CTD CPI | 1.03 | 1.03 | 1.03 | 1.03 | | | | | | | | |

| | $M Current Period | | | | | $M Contract to Date | | | | | $M Contract Period | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Budgeted Cost | | Actual Cost | Variance | | Budgeted Cost | | Actual Cost | Variance | | | | |
| | BCWS | BCWP | ACWP | Schedule | Cost | BCWS | BCWP | ACWP | Schedule | Cost | BAC | EAC | Variance |
| RL-0011 - Nuclear Materials Stab & Disp PFP | 10.6 | 5.9 | 6.9 | (4.7) | (1.0) | 902.0 | 864.7 | 871.6 | (37.3) | (6.9) | 971.9 | 973.1 | (1.2) |
| RL-0012 - SNF Stabilization & Disposition | 7.0 | 6.1 | 5.1 | (0.9) | 1.0 | 540.5 | 540.2 | 551.6 | (0.3) | (11.4) | 713.3 | 727.6 | (14.2) |
| RL-0013 - Solid Waste Stab & Disposition | 9.7 | 7.9 | 7.0 | (1.9) | 0.9 | 1016.5 | 1015.9 | 954.4 | (0.6) | 61.6 | 1,324.6 | 1,254.9 | 69.7 |
| RL-0030 - Soil & Water Rem-Grndwtr/Vadose | 12.0 | 9.6 | 8.4 | (2.5) | 1.2 | 1193.9 | 1182.4 | 1161.4 | (11.5) | 21.0 | 1,555.0 | 1,518.0 | 37.0 |
| RL-0040 - Nuc Fac D&D - Remainder | 2.2 | 1.4 | 1.2 | (0.8) | 0.2 | 408.3 | 407.3 | 375.6 | (1.0) | 31.8 | 469.1 | 436.1 | 32.9 |
| RL-0041 - Nuc Fac D&D - RC Closure Project | 1.5 | 0.5 | 1.4 | (1.1) | (0.9) | 321.0 | 322.0 | 294.1 | 0.9 | 27.8 | 400.2 | 369.8 | 30.4 |
| RL-0042 - Nuc Fac D&D - FFTF Project | 0.2 | 0.2 | 0.1 | (0.0) | 0.1 | 20.7 | 20.8 | 16.9 | 0.0 | 3.8 | 26.5 | 22.8 | 3.7 |
| (Values are rounded to the nearest $0.1M) Total | 43.3 | 31.5 | 30.1 | (11.8) | 1.4 | 4,403.0 | 4,353.3 | 4,225.6 | (49.7) | 127.7 | 5,460.5 | 5,302.2 | 158.3 |

(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 $158.3 million with $93.5 million of Management Reserve (MR) for a total positive variance of $251.8 million. For January, the project was 27.2 percent behind schedule and 4.5 percent under planned cost. CTD, the project was 1.1 percent behind schedule and 2.9 percent under planned cost.

The current month unfavorable schedule variance is primarily due to RL-0011 PFP Management directed safety pause. Progress was stopped on intrusive planned work while the project re-evaluated safety practices and procedures. Continued delay in Rough Decon and Floor Sweeps of the PRF Canyon Floor debris resulting from a chemical reaction of "J" Pan waste was also a factor. The current month favorable cost variance is attributed to RL-0030 continuing to experience efficiencies in the Groundwater Monitoring and Performance Assessment account associated with the use of lower analytical laboratory costs due to the use of offsite laboratories and lower geophysical logging costs during well drilling due to the competitive procurement process.

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

| PBS | Project | FY2016 Projected Funding | FY2016 Spending Forecast | FY2016 Variance |
|---|---|---|---|---|
| **Spending Forecast** | | | | |
| RL-0011 | Nuclear Materials Stabilization and Disposition | 110.8 | 99.4 | 11.4 |
| RL-0012 | Spent Nuclear Fuel Stabilization and Disposition | 53.0 | 51.7 | 1.2 |
| RL-0012 | 15-D-401 Sludge Retrieval Project | 68.1 | 32.0 | 36.1 |
| RL-0013 | Waste and Fuels Management Project | 106.6 | 86.4 | 20.2 |
| RL-0030 | Soil, Groundwater and Vadose Zone Remediation | 124.3 | 119.1 | 5.3 |
| RL-0040 | Nuclear Facility D&D, Remainder of Hanford | 24.1 | 22.9 | 1.2 |
| RL-0041 | Nuclear Facility D&D, River Corridor | 15.1 | 14.8 | 0.3 |
| RL-0042 | Fast Flux Test Facility Closure | 3.2 | 1.7 | 1.5 |
| | **Total Spending Forecast** | **505.3** | **428.2** | **77.2** |
| **Non Contract Work Scope** | | | | |
| RL-0012 | Spent Nuclear Fuel Stabilization and Disposition | | 0.9 | (0.9) |
| RL-0013 | Waste and Fuels Management Project | | 18.4 | (18.4) |
| RL-0030 | Soil, Groundwater and Vadose Zone Remediation | | 4.9 | (4.9) |
| RL-0041 | Nuclear Facility D&D, River Corridor | | 8.1 | (8.1) |
| | **Total Non-Contract Work Scope** | **0.0** | **32.3** | **(32.3)** |
| **Total Base:** | | | | |
| RL-0011 | Nuclear Materials Stabilization and Disposition | 110.8 | 99.4 | 11.4 |
| RL-0012 | Spent Nuclear Fuel Stabilization and Disposition | 53.0 | 52.6 | 0.4 |
| RL-0012 | 15-D-401 Sludge Retrieval Project | 68.1 | 32.0 | 36.1 |
| RL-0013 | Waste and Fuels Management Project | 106.6 | 104.8 | 1.8 |
| RL-0030 | Soil, Groundwater and Vadose Zone Remediation | 124.3 | 124.0 | 0.3 |
| RL-0040 | Nuclear Facility D&D, Remainder of Hanford | 24.1 | 22.9 | 1.2 |
| RL-0041 | Nuclear Facility D&D, River Corridor | 15.1 | 22.9 | (7.8) |
| RL-0042 | Fast Flux Test Facility Closure | 3.2 | 1.7 | 1.5 |
| | **Total Base:** | **505.3** | **460.5** | **44.8** |

**Funds/Variance Analysis**

FY2016 expected funding was reduced in January from $509.3M to $505.3M, per RL Letter 16-BUD-0007, FY2016 Initial Budget Guidance and Spend Plan Call, dated January 25, 2016, which included reductions for Shelby Office Supplies, Penser worker's compensation administration, Wastren Advantage Inc., and prior year funds advance. The FY Spending Forecast (FYSF) increased this month in RL-0041 to include River Corridor Closure Contract (RCCC) transition.

# BASELINE CHANGE REQUESTS

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

| Change Request # | Title | Summary of Change |
|---|---|---|
| BCR-011-16-003R0 | *PFP Capital Asset 2 Project Demolition Equipment Realized Risk and incorporation of KPPs* | This BCR draws down MR to address the realized risk associated with demolition equipment assumed to be available from WCH that has been determined to be unavailable and now must be obtained through MSA Fleet Services.<br><br>This BCR increased the PMB by $2,046K. |
| BCR-013-16-014R0 | *Definitization of CO #278, Procure DOE Type 7A Large Shipping Container (Super 7A)* | This BCR incorporates the definitization of Change Order (CO) #278, Procure DOE Type 7A Large Shipping Container (Super 7A), into the PMB as documented by Contract Modification (CM) 471.<br><br>This BCR increased the PMB by $605K. |
| BCR-013-16-015R0 | *Definitization of CO #280, CWC Emergency Lighting* | This BCR incorporates the definitization of CO #280, CWC Emergency Lighting, into the PMB as documented by CM 472.<br><br>This BCR increased the PMB by $347K. |
| BCR-030-16-018R0 | *CO #303, BC-5 Automated Water Level Network* | This BCR incorporates the scope associated with the NTE for CO #303, BC-5 Automated Water Level Network, as issued by CM 467, to perform necessary and required activities associated with the installation, operation and maintenance of 7 additional automated water level network units at 100-BC-5 OU.<br><br>This BCR increased the PMB by $22K. |
| BCR-041-16-007R0 | *Definitization of CO #296, Assignment of Unassigned Waste Sites in WIDS - PBS RL-0041* | This BCR adds work scope to the PBS RL-0041 Capital Asset Project (CAP) associated with the definitization of CO #296, Assignment of Unassigned Waste Sites in WIDS, into the PMB as documented by CM 461.<br><br>This BCR increased the PMB by $274K. |
| BCR-041-16-008R0 | *CO#289 Transfer RCCC Work Scope to PRC - Part 4* | This BCR incorporates the direct scope associated with the NTE increase to CO #289, CO#289 Transfer of RCCC Work Scope to PRC, for a new total NTE as authorized by CM 466.<br><br>This BCR increased the PMB by $140K. |
| BCR-041-16-009R0 | *Low Level Contamination Sample Analysis Budget Resource Change – PBS RL-0041* | This BCR changes the resource for PBS RL-0041 CAP low level chemical and radiological sample analysis support from WSCF UBS to subcontract to align with RL direction on low level contamination sample analysis path forward.<br><br>This BCR does not change the PMB value. |
| BCR-PRC-16-021R0 | *Definitization of CO #296, Assignment of Unassigned Waste Sites in WIDS - PBSs RL-0011 and RL-0040* | This BCR incorporates the PBS RL-0011 and PBS RL-0040 scope associated with the definitization of CO #296, Assignment of Unassigned Waste Sites in WIDS, into the PMB as documented by CM 461.<br><br>This BCR increased the PMB by $1,726K. |

| Change Request # | Title | Summary of Change |
|---|---|---|
| BCR-PRC-16-024R0 | *Low Level Contamination Sample Analysis Budget Resource Change* | This BCR changes resource from WSCF UBS to subcontract for PBSs RL-0011, 0012, 0013, 0030, and 0040 to align with RL direction on low level contamination sample analysis path forward.<br><br>This BCR does not change the PMB value. |
| BCR-PRC-16-025R0 | *Revise FY2017 and FY2018 G&A Rates* | This BCR changes the FY2017 and FY2018 G&A rates in the PMB for non-CAP's to reflect the current target direct and projected indirect budgets for those fiscal years and results in a decrease to the PMB and an increase to MR.<br><br>This BCR decreased the PMB by $32,752K. |

The Allocated (Distributed) Budget decreased by $27,592K.

**Undistributed Budget Activity**

| BCR Number | Title | Fiscal Year | UB |
|---|---|---|---|
| BCR-041-16-010R0 | *PBS RL-0041 Undistributed Budget Adjustments January 2016* | 2015 - 2018 | $ -140K |
| BCR-PRC-16-023R0 | *Undistributed Budget Adjustments January 2016* | 2015 - 2018 | $ -797K |
| BCRA-PRC-16-026R0 | *CO #248, CBDPP Revision 2A Implementation Undistributed Budget Adjustments* | 2015 - 2018 | $ -1,979K |

The Undistributed Budget decreased by $2,916K for an overall decrease to the Performance Measurement Baseline of $30,508K during January.

**Management Reserve Activity**

| BCR Number | Title | Fiscal Year | MR |
|---|---|---|---|
| BCRA-PRC-16-026R0 | *CO #248, CBDPP Revision 2A Implementation Undistributed Budget Adjustments* | 2015 - 2018 | $1,979K |
| BCR-PRC-16-025R0 | *Revise FY2017 and FY2018 G&A Rates* | 2015 - 2018 | $32,752K |
| BCR-011-16-003R0 | *PFP Capital Asset 2 Project Demolition Equipment Realized Risk and incorporation of KPPs* | 2015 - 2018 | $ -2,046K |

Overall, there was an increase of $32,685K to Management Reserve during January.

## Fee Activity

| BCR Number | Title | Fiscal Year | Fee |
|---|---|---|---|
| BCR-PRC-16-021R0 | *Definitization of CO #296, Assignment of Unassigned Waste Sites in WIDS - PBSs RL-0011 and RL-0040* | 2015 - 2018 | $45K |
| BCR-013-16-015R0 | *Definitization of CO #280, CWC Emergency Lighting* | 2015 - 2018 | $30K |
| BCR-013-16-014R0 | *Definitization of CO #278, Procure DOE Type 7A Large Shipping Container (Super 7A)* | 2015 - 2018 | $34K |

Overall, there was an increase of $109K 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 2016 Summary of Changes*

| | FY 2009-2013 | FY2014 | FY2015 | FY2016 | FY2017 | FY2018 | FYs 2014-2018 | Contract Period Total | Total PMB |
|---|---|---|---|---|---|---|---|---|---|
| *December 2015 Estimate* | | | | | | | | | |
| PMB | 3,391,477 | 391,653 | 471,323 | 450,940 | 423,269 | 362,373 | 2,099,558 | 5,491,035 | 5,491,035 |
| MR | 0 | 0 | 0 | 21,711 | 13,984 | 25,107 | 60,802 | 60,802 | 60,801 |
| Fee | 155,504 | 14,325 | 14,501 | 21,354 | 9,463 | 17,822 | 77,465 | 232,969 | 232,969 |
| *Total* | ***3,546,981*** | ***405,978*** | ***485,824*** | ***494,005*** | ***446,717*** | ***405,302*** | ***2,237,825*** | ***5,784,806*** | ***5,784,805*** |
| *January 2016 Change* | | | | | | | | | |
| PMB | | | | | | | | | |
| *Change to PMB* | ***0*** | ***0*** | ***0*** | ***2,776*** | ***-19,457*** | ***-13,827*** | ***-30,508*** | ***-30,508*** | ***-30,508*** |
| *MR* | | | | | | | | | |
| *Change to MR* | ***0*** | ***0*** | ***0*** | ***-1,414*** | ***19,802*** | ***14,297*** | ***32,685*** | ***32,685*** | ***32,685*** |
| *Fee* | | | | | | | | | |
| *Change to Fee* | ***0*** | ***0*** | ***0*** | ***109*** | ***0*** | ***0*** | ***109*** | ***109*** | ***109*** |
| *Total Change* | ***0*** | ***0*** | ***0*** | ***1,471*** | ***346*** | ***470*** | ***2,287*** | ***2,287*** | ***2,287*** |
| *January 2016 Estimate* | | | | | | | | | |
| PMB | 3,391,477 | 391,653 | 471,323 | 453,717 | 403,813 | 348,546 | 2,069,051 | 5,460,527 | 5,460,527 |
| MR | 0 | 0 | 0 | 20,297 | 33,786 | 39,404 | 93,487 | 93,487 | 93,486 |
| Fee | 155,504 | 14,325 | 14,501 | 21,463 | 9,463 | 17,822 | 77,574 | 233,078 | 233,078 |
| *Total* | ***3,546,981*** | ***405,978*** | ***485,824*** | ***495,476*** | ***447,062*** | ***405,772*** | ***2,240,111*** | ***5,787,092*** | ***5,787,092*** |

## *Changes to/Utilization of Management Reserve in January 2016*

| | FY2009-2013 | FY2014 | FY2015 | FY2016 | FY2017 | FY2018 | FY2014-2018 | Total |
|---|---|---|---|---|---|---|---|---|
| *December 2015 MR Totals* | | | | | | | | |
| RL-0011 | 0 | 0 | 0 | 7,293 | 3,800 | 0 | 11,093 | 11,093 |
| RL-0012 | 0 | 0 | 0 | 3,395 | 5,000 | 3,897 | 12,292 | 12,292 |
| RL-0013 | 0 | 0 | 0 | 2,999 | 800 | 6,824 | 10,624 | 10,624 |
| RL-0030 | 0 | 0 | 0 | 2,777 | 484 | 6,546 | 9,807 | 9,807 |
| RL-0040 | 0 | 0 | 0 | 10,000 | 1,000 | 740 | 2,740 | 2,740 |
| RL-0041 | 0 | 0 | 0 | 4,096 | 2,800 | 7,000 | 13,896 | 13,896 |
| RL-0042 | 0 | 0 | 0 | 150 | 100 | 100 | 350 | 350 |
| ***Total*** | ***0*** | ***0*** | ***0*** | ***30,710*** | ***13,984*** | ***25,107*** | ***60,801*** | ***60,801*** |
| *January 2016 MR Changes/Utilization* | | | | | | | | |
| RL-0011 | 0 | 0 | 0 | -1,414 | -543 | 0 | -1,957 | -1,957 |
| RL-0012 | 0 | 0 | 0 | 0 | 2,125 | 1,744 | 3,869 | 3,869 |
| RL-0013 | 0 | 0 | 0 | 0 | 7,400 | 5,601 | 13,001 | 13,001 |
| RL-0030 | 0 | 0 | 0 | 0 | 7,464 | 5,824 | 13,289 | 13,289 |
| RL-0040 | 0 | 0 | 0 | 0 | 3,236 | 1,022 | 4,257 | 4,257 |
| RL-0041 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| RL-0042 | 0 | 0 | 0 | 0 | 120 | 107 | 226 | 226 |
| ***Total*** | ***0*** | ***0*** | ***0*** | ***-1,414*** | ***19,802*** | ***14,297*** | ***32,685*** | ***32,685*** |
| *January 2016 MR Totals* | | | | | | | | |
| RL-0011 | 0 | 0 | 0 | 5,879 | 3,257 | 0 | 9,136 | 9,136 |
| RL-0012 | 0 | 0 | 0 | 3,395 | 7,125 | 5,642 | 16,162 | 16,162 |
| RL-0013 | 0 | 0 | 0 | 2,999 | 8,200 | 12,425 | 23,624 | 23,624 |
| RL-0030 | 0 | 0 | 0 | 2,777 | 7,949 | 12,370 | 23,095 | 23,095 |
| RL-0040 | 0 | 0 | 0 | 10,000 | 4,236 | 1,761 | 6,997 | 6,997 |
| RL-0041 | 0 | 0 | 0 | 4,096 | 2,800 | 7,000 | 13,896 | 13,896 |
| RL-0042 | 0 | 0 | 0 | 150 | 220 | 207 | 576 | 576 |
| ***Total*** | ***0*** | ***0*** | ***0*** | ***29,296*** | ***33,786*** | ***39,404*** | ***93,486*** | ***93,486*** |

# 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 -01/31/2016 Reporting Category | | | | Projection to FY18 | |
|---|---|---|---|---|---|
| | | | | Planned Subcontracting: | $2,564,285,972 |
| | | | | Contract-to-date awards: | $2,308,862,557 |
| | | | | Bal remaining to award: | $255,423,415 |
| | $ Value | % | Goal % | Goal award$ | Bal to Goal |
| SB | $1,208,708,245 | 52.35% | 49.3% | $1,264,192,984 | $55,484,739 |
| SDB | $207,313,215 | 8.98% | 8.2% | $210,271,450 | $2,958,235 |
| SWOB | $240,861,241 | 10.43% | 7.5% | $192,321,448 | -$48,539,793 |
| HUB | $45,981,025 | 1.99% | 2.2% | $56,414,291 | $10,433,266 |
| VOSB | $153,124,874 | 6.63% | 3.5% | $89,750,009 | -$63,374,865 |
| SDVO | $79,740,571 | 3.45% | 1.3% | $33,335,718 | -$46,404,854 |
| NAB | $36,611,443 | 1.59% | N/A | | |
| Large | $610,851,603 | 26.46% | N/A | PRC clause H.20 small business requirement | |
| GOVT | $2,316,074 | 0.10% | N/A | ≥ 17% of CHPRC Contract Price performed by SB. | |
| GOVT CONT | $482,866,522 | 20.91% | N/A | | |
| EDUCATION | $102,592 | 0.00% | N/A | CHPRC Contract Value: | $5,732,255,464 |
| NONPROFIT_ | $3,654,141 | 0.16% | N/A | 17% rqmt: | $974,483,429 |
| FOREIGN | $363,379 | 0.02% | N/A | SB actual: | $1,208,708,245 |
| Total | $2,308,862,557 | 100.00% | N/A | Bal to rqmt | -$234,224,816 |

Notes:

1. Since the CHPRC contract award in October 2008, CHPRC has subcontracted over $2.3 billion in goods and services with over 52 percent going to small businesses. Nearly all subcontracting goals have been exceeded.
2. Approximately 93 percent of the total dollars arise from service and staffing contracts and contract amendments with five percent of the remaining expenditures arising from P-Card purchases and the balance in purchase orders for materials and equipment.
3. Data is summarized by business categories (Women Owned Minority Business Enterprise codes) in accordance with socioeconomic reporting requirements. Small business categories overlap and should not be added together.

# GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

| Contract Section | Project | GFS/I | Status |
|---|---|---|---|
| **CONTRACT** | | | |
| J.12/C.2.3.6 | PBS-0013, Transuranic Waste Certification | WIPP provides shipping resources and manages the schedule for transportation of these containers to WIPP. The schedule is variable and the number of shipments is controlled by DOE-HQ on a complex-wide priority. Cost for shipment of TRU waste offsite is borne by the Carlsbad Field Office. | Ongoing |

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

T. E. Bratvold
Vice President for
PFP Closure Project

January 2016
CHPRC-2016-01, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

# PROJECT SUMMARY

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

| *Key Performance Indicators* | *Current Month* | *Contract To Date* |
|---|---|---|
| Glovebox/ Hood Removed or Dispositioned in Place | - | 228 gloveboxes/hoods |
| KPP Rooms/Areas Ready for Demo | - | 60 rooms/areas |
| Asbestos/ACM Removed | - | 23,801 feet |
| Process Vacuum Piping Dispositioned | - | 3,907 feet |
| Process Transfer Line Dispositioned | - | 1,407 feet |
| Pencil Tank Units Removed (Shipped) | - | 196 pencil tank units |
| Buildings Ready for Demo | - | 43 structures |
| Buildings Demolished or Removed | - | 43 structures |
| Non-radioactive Waste Shipped | - | 72 $m^3$ |
| TRU/TRU-M Shipped | 42 $m^3$ | 2,074 $m^3$ |
| LLW/MLLW Shipped | 14 $m^3$ | 6,884 $m^3$ |

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

- Completed implementation of HNF-15500 “PFP Deactivation and Decommissioning Documented Safety Analysis” Revision 12 and HNF-15502 “PFP Deactivation and Decommissioning Technical Safety Requirements” Revision 12.
- Completed 236-Z PRF Canyon floor grouting.
- Continued size reduction on Glovebox HA-9A.
- Shipped 42$m^3$ TRU/TRU-M waste.
- Shipped 14$m^3$ LLW/MLLW.

# EMS Objectives and Target Status

| Objective # | Objective | Targets | Actions | Due Date | Status |
|---|---|---|---|---|---|
| 16-EMS-PFP-OB1-T1 | Minimize emissions resulting from demolition of 234-5Z, 236-Z, 242-Z, and 291-Z. | Inspect 234-5Z, 236-Z, 242-Z, and 291-Z for the presence of asbestos containing materials (ACM) and produce a report identifying ACM requiring removal or abatement and methods for protecting remaining ACM from resulting in visible emissions. | 1. Issue report documenting thorough inspection of 236-Z<br>2. Issue report documenting thorough inspection of 242-Z<br>3. Issue report documenting thorough inspection of 234-5Z<br>4. Issue report documenting thorough inspection of 291-Z | 01/31/16<br>03/31/16<br>06/30/16<br>09/30/16 | Minor modification requested to extend completion date to February 29, 2016. Task is about 75 percent complete for an overall target completion of 19 percent.<br>TBD<br>TBD<br>TBD |
| 16-EMS-PFP-OB1-T2 | Minimize emissions resulting from demolition of 234-5Z, 236-Z, 242-Z, and 291-Z. | Develop an air dispersion model that will guide the D4 processes to keep radiological emissions as low as reasonably achievable below the regulatory limit of 10 mrem/year. | 5. Issue air dispersion modeling report | 12/31/15 | 100% |

# TARGET ZERO PERFORMANCE

| | Current Month | Rolling 12 Month | Comment |
|---|---|---|---|
| **Days Away, Restricted or Transferred** | 0 | 2 | N/A |
| **Total Recordable Injuries** | 0 | 2 | N/A |
| **First Aid Cases** | 4 | 79 | • 1/7/16 - Employee slipped in mud and landed on both knees, causing abrasion. Employee taken to HPMC and returned to work with no restriction. (23909)<br>• 1/7/16 - Employee bumped head on coat rack. Employee taken to HPMC and returned to work with no restriction. (23911)<br>• 1/14/16 - Employee's safety boots caused a blister to a toe. Employee taken to HPMC and returned to work with no restriction. (23913)<br>• 1/19/16 - Employee was cutting a rope with a lineman's plier and experienced pain in shoulder. (23917) |
| **Near Misses** | 0 | 5 | |

# KEY ACCOMPLISHMENTS

**11.02 Maintain Safe & Compliant PFP**

- Completed implementation of HNF-15500 "PFP Deactivation and Decommissioning Documented Safety Analysis" Revision 12 and HNF-15502 "PFP Deactivation and Decommissioning Technical Safety Requirements" Revision 12.

**11.05 Disposition PFP Facility**

**234-5Z**

- RMA Line:
  - Continued size reduction on Glovebox HA-9A.

**PFP Waste Operations**

- Shipped 42m$^3$ TRU/TRU-M waste.
- Shipped 14m$^3$ LLW/MLLW.

**236-Z PRF**

- Canyon:
  - Completed 236-Z PRF Canyon floor grouting.

# 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 Revision 12 has been implemented. Minor modifications to DSA/TSR Revision 12 to clarify and refine controls was submitted to RL as a Revision 13. This issue will be closed in February monthly reporting.

**Issue:**
**Removal of hazardous material will be coordinated using a regulatory compliant graded approach, to avoid cost and schedule impacts associated with complete removal of materials such as brass, electrical components, and lead based paint residues.**

**Corrective Action:**
Coordinate with Maintenance and Waste Integration to establish mass balance calculations for various hazardous materials, demonstrating how much hazardous material may remain with building rubble and still meet Environmental Restoration Disposal Facility (ERDF) Waste Acceptance Criteria (WAC).

**Status**:
CHPRC-02603, Evaluation of Chemical Content in Rubble from the Demolition of 236-Z Facility, December 2015 was issued on December 29, 2015. This document demonstrates that a majority of materials can remain with building rubble and meet ERDF WAC. Prohibited conditions that require remediation prior to demolition are also identified.

The project characterization team in collaboration with the D4 team and Waste Integration has compiled a listing of actions necessary to meet conditions for ERDF acceptance of the 236-Z debris when generated by facility demolition. This listing is being incorporated into final planning of the demolition preparations work package.

With respect to further Project/EVMS reporting, this issue is considered resolved and will be closed during February month end reporting

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

**Corrective Action**:

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

**Status:**

- Previously packaged J Pan waste was unpackaged and placed back in the PRF Canyon.
- Waste packaging instructions for J Pan wastes were developed and waste is in process of being packaged per the waste packaging instructions.
- PFP is performing 100 percent visual inspections of waste drums that contain PRF canyon waste prior to shipment.
- Waste Shipment of PRF Canyon Waste to Central Waste Complex (CWC) has commenced with shipment of Non-J Pan wastes; J Pan wastes are being held at PFP pending Laboratory Analysis Results which are expected in late February.

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

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

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

**Status:**
Revised clearance survey plan for equipment, performed extent of condition for all clearance survey plans, root cause evaluation on going.

Additional equipment (Scott-brand regulators) was found with contamination at the Hanford Fire Department. This was deemed to be associated with the same causal evaluation as the vortex coolers.

The root cause evaluation has been completed and a Corrective Action Review Board (CARB) is scheduled for February 10, 2016.

# RISK MANAGEMENT STATUS

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

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

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

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

Increased Confidence
No Change
Decreased Confidence

| Risk Title | Unmitigated Risk Impacts | Assessment | | Comments |
|---|---|---|---|---|
| | | Month | Trend | |
| **RL-0011/WBS-011.OA** | | | | |
| **Explanation of major changes to the project monthly stoplight chart:** No major changes to the monthly stoplight chart in the month of January. | | | | |
| **Realized Risks** (Risks that are currently impacting project cost/schedule) | | | | |
| No realized risks identified for RL-0011 in the month of January. | | | | |
| **Critical Risks** (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed) | | | | |
| **Lifecycle Risk Triggers** (Risk could be realized at any point of the project) | | | | |
| PFP-092-02: Final Facility Characterization Identifies Unexpected Hold-up | Unexpected or late discovery of radiological (Pu) or chemical (Asbestos) holdup requiring added facility deactivation.<br>**Risk Handling Strategy:** Control<br><br>**Probability:** Medium (26% to 74%)<br>**Worst Case Impacts:** $780K, 11 days |  |  | **Risk Trigger:** Will continue throughout project lifecycle until Demolition activities commence.<br><br>**Mitigation Assessment:**<br>A listing of radiological characterization opportunities that align with Field Schedule activities have been posted on a shared directory accessible to all project Superintendents and Field Work Supervisors. This has proven effective in providing a tool for working characterization activities in conjunction with ongoing deactivation work. Bounding estimates of residual MAR incorporated into the air dispersion model are holding.<br>The PRF Canyon Floor was grouted, and the reduction in background will reduce bias on characterization measurements going forward. Schedule delays/operational impacts limited ongoing mitigation action regarding final decontamination and characterization of the PRF gallery gloveboxes, canyon walls, and strongbacks. Completion dates have been updated accordingly. Enhanced work planning is in progress for final PRF canyon decontamination. Pressure washing and vacuum collection of residual solids are planned.<br><br>The extent of additional asbestos (~3,600 LF) Thermal System Insulation (TSI) identified by 234-5Z Duct Level inspections has been communicated to Decommissioning Operations, and work planning for removal is in progress. Given the sufficient lead time, there is greater confidence that the added work can be completed by existing insulator crew strength assigned and planned through May 2016. In this regard, the work has been incorporated into the ETC. The worst case probability and impact scenario, which could extend crew strength beyond May 2016 is not incorporated into the ETC. Mitigation action delays do not result in alternative course of actions at this time. |

| Mitigation action(s) | FC Date | % |
|---|---|---|
| Incorporate higher than expected bounding parameters in the PNNL Air Dispersion model supporting open-air demolition. Risk reduction is achieved if subsequent model results support the higher than expected residual levels. | Complete | 100 |
| Develop SAP for steam lines in 291-Z fan house to confirm current TSI labelling. There is likelihood that steam lines were presumptively labelled and may not require abatement. | 3/10/16 | 75 |
| Complete Gamma Imaging surveys to identify prevailing hot spots and enable shorter "strategic" final decontamination events. | 2/18/16 | 25 |
| Devise new multiple sensor NDA characterization plans that allow for improved quantification of residual MAR while deactivation work is ongoing. | 2/18/16 | 75 |
| Devise new decontamination/in-situ size reduction approaches to gain confidence that when complete higher than expected residual MAR will not be encountered. | 2/8/16 | 75 |
| Complete 234-5Z Duct Level inspection to identify piping with TSI dropping through to the first floor ceiling void. This results in early identification of any added TSI abatement activity. | 2/18/16 | 75 |

<table>
<tr><th rowspan="2">Risk Title</th><th rowspan="2">Unmitigated Risk Impacts</th><th colspan="2">Assessment</th><th rowspan="2">Comments</th></tr>
<tr><th>Month</th><th>Trend</th></tr>
<tr><td colspan="5">RL-0011/WBS-011.OA</td></tr>
<tr><td colspan="5">FY2016 Risk Triggers (Risk could be realized in FY2016)</td></tr>
<tr><td>PFP-DEMO-02: Air Modeling Increases Equipment Removal/Decontamination for Demo</td><td>Air Dispersion identified additional MAR reduction higher than planned or RL directs constrains from Revision 12 SER, resulting in additional decontamination/fixatives and equipment removal prior to initiating open-air demolition resulting in schedule delays.<br>Risk Handling Strategy: Control<br><br>Probability: Medium (26% to 74%)<br>Worst Case Impacts: $0, 16 days<br><br>*Cost increase will result in cost per day impacts from crews, and hotel load.</td><td>  </td><td>  </td><td>Risk Trigger: 07/06/2015<br><table><tr><th>Mitigation action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>Identify opportunities where demolition operations could be accelerated to recover any schedule delays.</td><td>Complete</td><td>100</td></tr><tr><td>Brief regulatory stakeholders on air model results</td><td>3/17/16</td><td>60</td></tr><tr><td>Once the residual material/contamination is quantified, work with regulators to identify controls to allow for equipment removal and demolition as planned.</td><td>3/17/16</td><td>50</td></tr></table>Mitigation Assessment:<br><br>In the month of January PNNL issued Revision 1 to the Air Dispersion Model document. The dispersion model results confirm that DAC and contamination control can be safely managed within the planned PRF demolition perimeter. The results also demonstrate the greatest challenge to radiological controls at the demolition perimeter occurs only during the last phase of PRF demolition. The condition enables a viable risk control for the PFP complex. The amount of MAR disturbed and dispersed by demolition operations can be safely managed by controlling the pace or duration of demolition sequences. The results of the air model has been briefed to RL, and briefings for other stakeholders are in progress. The audience for briefing interested entities has been broadened and the completion date has been extended accordingly.<br><br>Based on conditions and prerequisites identified in the PFP Demolition Plan, Revision 1 to the PNNL Air Dispersion Model does not pose an increased risk. The model does not drive a need for MAR reduction, fixative applications, or equipment removal beyond that which is planned. Should the Demolition Plan change the PNNL Model would require revision to accommodate. At this time no alternative course of actions needed.</td></tr>
<tr><td colspan="5">High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)</td></tr>
<tr><td colspan="5">FY2016 Risk Triggers (Risk could be realized in FY2016)</td></tr>
<tr><td>PFP-PRF-22: OPP: NDA Process Allows for Section Results to be used</td><td>Improved NDA process allows for disposition of Gallery Gloveboxes into waste containers by using section data rather than summation of entire glovebox, resulting in schedule efficiencies.<br>Risk Handling Strategy: Exploit<br><br>Probability: Likely (75% to 90%)<br>Worst Case Impacts: $0, 60 days<br>*Cost savings will result in cost per day from crews, and hotel load.</td><td>  </td><td>  </td><td>Risk Trigger: During glovebox isolations NDA process allows for section results to be used.<br><table><tr><th>Mitigation action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>Complete West Gallery Glovebox Isolation - 2nd Floor, Vacuum Gallery Gloveboxes, And Wipe Down and Decon, Apply Fixative, and Characterize.</td><td>04/12/16</td><td>0</td></tr></table>Mitigation Assessment:<br>In January, forecasted mitigation dates were updated to reflect planned activities. ~1 month gain is reflected in the EAC.<br>No foreseeable impacts in the near future. Opportunity will continue to be tracked and monitored throughout the Gallery Glovebox subproject lifecycle. No alternative course of actions needed at this time.</td></tr>
<tr><td colspan="5">Unassigned Risks (Pending ownership of identified risks/opportunities)</td></tr>
<tr><td colspan="5">No unassigned risks identified in the month of January.</td></tr>
</table>

# PROJECT BASELINE PERFORMANCE
## Current Month
## ($M)

| WBS 011/RL-0011 Nuclear Matl Stab & Disp PFP | Budgeted Cost of Work Scheduled (BCWS) | Budgeted Cost of Work Performed (BCWP) | Actual Cost of Work Performed (ACWP) | Schedule Variance ($) | Schedule Variance (%) | Cost Variance ($) | Cost Variance (%) |
|---|---|---|---|---|---|---|---|
| Total | 10.6 | 5.9 | 6.9 | (4.7) | -44.4% | (1.0) | -16.3% |

Numbers are rounded to the nearest $0.1 million.

**CM Schedule Variance: (-$4.7M/-44.4%)**
The current month unfavorable schedule variance is primarily due to the PFP Management directed safety pause. Progress was stopped on intrusive planned work while the project re-evaluated safety practices and procedures. In addition, resources assigned to the 234-5Z duct level have been temporarily re-assigned to complete higher priority work (i.e. PRF D&D, Insitu Glovebox removal), resulting in fewer resources available to perform work as planned. Also contributing to the negative variance, is the behind schedule progress on discrete D&D work scope (apportioned), including: reprioritization of work teams to support higher priority work (i.e. PRF D&D and Insitu Glovebox removal) has resulted in schedule delays for: grouting of 234-5Z trenches and tunnels, balance of -5 process vacuum and process support equipment and demo prep for the ancillary facilities. This is partially offset by working historical BCWS work activities on in-situ size reduction activities associated with the 234-5Z HA-9A in-situ size reduction efforts.

**CM Cost Variance: (-$1.0M/-16.3%)**
The current month unfavorable cost variance primarily relates to the lack of progress on discrete D&D work scope (apportioned) while a constant staff provides D&D support services. In addition, a PFP Management directed safety pause contributed to the negative variance, as costs were incurred while resources reviewed work packages and safety protocol in an effort to resume work. Project management and D&D cross-cut charges have been higher than anticipated due to increased support of implementation of identified compensatory measures associated with the recent radiological events at PFP. In addition, subcontracted labor support costs are higher than planned due to extended discrete field work and consumable materials are costing more than planned due to the extended duration of the discrete field work.

## 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 | 902.0 | 864.7 | 871.6 | (37.3) | -4.1% | (6.9) | -0.8% | 971.9 | 973.1 | (1.2) |

Numbers are rounded to the nearest $0.1 million

**CTD Schedule Variance (-$37.3M/-4.1%)**
The Schedule Variance is within reporting thresholds.

**CTD Cost Variance (-$6.9M/-0.8%)**
The Cost Variance is within reporting thresholds.

**Variance at Completion (-$1.2M/-0.1%)**
The Variance at Completion is within reporting thresholds.

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

## FUNDS vs. SPEND FORECAST ($M)

| | FY2016 | | |
|---|---|---|---|
| WBS 011/RL-0011 Nuclear Matl Stab & Disp PFP | Projected Funding | Spending Forecast | Spend Variance |
| Expense – Spending Forecast | 110.8 | 99.4 | 11.4 |
| RL-0011 - Total | 110.8 | 99.4 | 11.4 |

Numbers are rounded to the nearest $0.1 million

**Funds/Variance Analysis**
FY2016 expected funding for RL-0011 was reduced to $110.8 million. The FYSF for January decreased slightly from $100.4 million to $99.4 million.

**Critical Path Schedule**
Following adjustments to the PRF Canyon characterization schedule, the new PFP Critical Schedule Path flows through the 234-5Z Duct level E4 ducting and filter box removal, then to the final focused decontamination throughout 234-5Z. This leads into 234-5Z Cold & Dark and Ready for Demo, allowing demolition of 234-5Z and attached facilities to commence. Once complete, the final step is stabilization of the PFP site leading to completion of the final Tri-Party Agreement milestone – M-083-00A - *PFP Facility Transition and Selection Disposition Activities*.

**Baseline Change Requests**
BCR-011-16-003R0, *PFP C2 Project Demo Equipment Realized Risk & KPPs*
BCR-011-16-021R0, *Definitization of CO #296, Assignment of Unassigned Waste Sites in WIDS – PBS RL-0011 and RL-0041*
BCR-PRC-16-023R0, *Undistributed Budget Adjustments January 2016*
BCR-PRC-16-024R0, *Low Level Contamination Sample Analysis Budget Resource Change*
BCR-PRC-16-025R0, *Revise FY2017 and FY2018 G&A Rates*
BCRA-011-16-002R0, *PBS RL-0011 PARS II Fee Alignment Correction*

# MILESTONE STATUS

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

| Number | Title | Due Date | Actual Date | Forecast Date | Status/ Comment |
|---|---|---|---|---|---|
| M-083-00A | PFP Facility Transition and Selection Disposition Activities | 09/30/16 | | 3/7/17 | Stop works associated with PremAire breathing air suits/hoses in support of in-situ size reduction efforts, stop works associated with intrusive work in the 234-5Z duct level, and safety pause associated with a radiological event caused the Tri-Party Agreement milestone projected completion date to slip an additional 35 calendar days for the forecast date in the December report. As the PFP Project continues to make progress on the behind schedule critical path work scope being performed it is anticipated that efficiencies will be recognized to bring the schedule into alignment with a completion date of September 30, 2016. However, this Tri-Party Agreement completion is currently 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)

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

January 2016
CHPRC-2016-01, 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, supporting the Engineered Container Retrieval and Transfer System (ECRTS) Project work by supporting Annex construction In-Basin Construction activities and continued debris dose rating and relocation activities in 105KW Basin. The Operations team worked several monthly and quarterly routines during the period.
- Draft Preliminary Documented Safety Analysis (PDSA) comment resolutions have been provided to RL for concurrence. Development of the KW Basin integrated DSA, which combines the ECRTS PDSA and the KW Basin FSAR into a single safety basis document continued.
- Continued testing activities at MASF and prepared for the MASF Preoperational Acceptance Testing (MPAT).
- All MPAT test specifications were approved by the STP Joint Test Group (JTG).
- Annex Construction closed the final construction punch list item.
- The External Independent Review (EIR) was received from the Office of Project Management Oversight and Assessments (PM-30). The EIR Team identified a total of 19 findings with eight classified as major findings. Clarification provided by the project team (RL and CHPRC) resulted in reclassification or deletion of four of the eight major findings. RL and CHPRC have provided factual accuracy feedback and have submitted a Correction Action Plan (CAP) in response to the findings.
- The draft Independent Cost Estimate (ICE) Report (Appendix E to the EIR Report), was received January 14, 2016. RL and CHPRC have submitted factual accuracy comments to the ICE Team. The latest report reflects an increase to the risk-adjusted schedule of 12 months (retrieval start November 2019) with no change to the overall funding requirements (after inclusion of MR and contingency). The Project Team is working with the ICE Team to understand specifics of the schedule and estimate.

# EMS OBJECTIVES AND TARGET STATUS

None at this time.

# TARGET ZERO PERFORMANCE

| | CM Quantity | Rolling 12 Month | Comment |
|---|---|---|---|
| **Dart Injuries** | 0 | 0 | N/A |
| **Recordable Injuries** | 0 | 1 | N/A |
| **First Aids** | 2 | 18 | • 1/6/2016 - Employee was loading ice melt in a Connex box when the employee tripped over a piece of plastic. Body part affected was the Bilateral shoulders. (23908)<br>• Employee was ascending stairs when a knee popped causing pain. Body part affected: Knee (23926) |

# KEY ACCOMPLISHMENTS

- ECRTS Process Equipment Procurement:
  - Buy Back Set #2; Safety Significant (SS) Transfer System Components - Testing of the Transfer Line Service Box Lift Fixture was completed.
  - Procurement Set #9; SS STSC Instrumentation & Assembly – HiLine personnel was completed assembly, functional testing, and helium leak testing of the 1st Article STSC appurtenances/instrumentation.
  - Procurement Set #10; SS Truck Scale & Control Panel – Fabrication and testing of the truck scale and panel assembly was complete.
  - Procurement Set #11; Inert Gas and Auxiliary Ventilation System – Task 4 – The seismic testing for the Low Pressure Air Purge Piping Assembly equipment is completed. Task 5 – Hoses – Testing was completed.
  - Procurement Set #14; SS Control System Panels – Fabrication and testing activities are complete on PNL-105 Transfer Pump Control Panel, PNL-107 Blending Panel and PNL-402 Instrument Disconnect Panel. Seismic testing is complete on PNL-602 and Aux Vent Control Panel.
- MASF:
  - Energy Northwest completed calibration at MASF for the Decant and Sand Filter Leak Detectors, Decant and Sand Filter Turbidity Meters and the Sand Filter Level Switches.
  - Installation completed for Instrumentation and Control junction boxes ECRTS-JB-201 and ECRTS-JB-401.
  - Media retrieval evaluation for the Sand Filter was successfully completed.
- KW Annex Construction completed:
  - Acceptance testing of the fire alarm system.
  - Closed final construction punch list item.
  - Issued RFP for preventative maintenance contract for the Annex building mechanical systems (i.e. compressor/HVAC).

- Draft PDSA comment resolutions have been provided to RL for concurrence. Development of the KW Basin integrated DSA, which combines the ECRTS PDSA and the KW Basin FSAR into a single safety basis document continues.
- 105 KW Basin Re-Lidding Construction completed:
  - Removal of injection extraction tubes (IETs) in ECs 210 through 260.
  - Installation of the steel and grating north of EC 210.
  - Lid section bolt removal on EC 210.
  - Removal of backwash manifold from EC 230.
  - Re-lidding of EC-210 and EC-220.
  - Top two-section removal of EC-220 and turned over to Operations for Settler Material Dump.
  - Mobilized new lid for EC-230 into Basin and moved new lids for EC-240, 250 & 260 into Facility Room 3.
  - Issued RFP for Ingress/Egress and doghouse installation (NE Corner).
- T-Plant Construction completed:
  - HEPA vacuums and lift bags were delivered to AVS.
  - Construction contract was awarded to Intermech.
  - All load testing for all lifting bails.
  - Leak testing of secondary containment systems.
  - Fit testing of the sump pump, work platforms, STSC and overpack inside containment system.
- 100K Operations completed:
  - Replacement of pressure gauges on Auto Sampler 16 for IXM-4.
  - Re-lamping of 105KW Basin.
  - Transferred the four canisters of Segregated Settler Material to CON-220.
  - Water Injection of SCS-CON-230.
  - Addition of segregated settler material into SCS-CON-220.

## MAJOR ISSUES

None currently identified.

# RISK MANAGEMENT STATUS

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

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

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

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

Increased Confidence
No Change
Decreased Confidence

| Risk Title | Unmitigated Risk Impacts | Assessment | | Comments |
|---|---|---|---|---|
| | | Month | Trend | |
| **RL-0012/WBS-012** | | | | |
| **Explanation of major changes to the project monthly stoplight chart:** No major changes to the monthly stoplight chart in the month of January. | | | | |
| **Realized Risks** (Risks that are currently impacting project cost/schedule) | | | | |
| STP-123-T: Design Maturity - T-Plant | The final Nitrogen System design is pending FHA update. The construction specification is currently in development. In addition, changes resulting from the PDSA impact the design. There is additional risk with bidder interpretation of the facility ECRs. They do not clearly provide the entire scope of the contractor's work and clarifying bid document details are required.<br>**Risk Handling Strategy:** Accept<br><br>**Probability:** Very Likely (>90%)<br>**Worst Case Impacts:** $200K, 96 days |  |  | **Risk Event:**<br>The risk is being realized based on constructability reviews of the FMPs. The impacts associated with this are the additional cost and resources associated with correcting design errors and providing constructability aids, conducting material take offs, resulting in a lower cost underrun for performing the original design. Schedule impacts eminent due to spec and ECR quality.<br><br>**Recovery Action Assessment:**<br>T-Plant design documents have been issued via ECR-15-000336, based on the current design under review by RL. The design documents have been given to the contractor for bidding purposes, even though the construction specification, HNF-8764 Revision 2, states that the installation is on hold, pending RL's approval of the MDSA (Revision 11). All indications, based on discussions with RL, are that Revision 11 of the MDSA will be approved. CHPRC is expecting decision by the end of March 2016. If the MDSA is not approved as submitted, there is a potential for the design to change. If Revision 11 is signed as is, Engineering will remove the hold on the Nitrogen System ECR and we will give direction to the contractor to move forward with procurement of material in early April 2016.<br>The procurement effort is still underway based on a new path forward and de-scoping of a portion of the work. Cell 9L will not be cleaned and or used for STSC storage, which alleviates the necessity to install the levelling rack, containment, and leak detection. ECR-15-001576 (redlined version of ECR-15-000640) has been released and has been provided in Addendum 3 of Contract Req. 275085 for the contractors to bid on. The project was awarded on January 14, 2016.<br>The schedule activities have been sequenced such that installation will occur following the RL review and approval period of the MDSA. In the event the project receives approval earlier, the installation of the nitrogen system becomes an opportunity to accelerate schedule and finish early. If the review/approval cycle is delayed, there could be an impact to the contractor, resulting in schedule delays and change orders.<br>All planned recovery actions are complete and no additional alternative course of actions needed at this time. |

| Risk recovery action(s) | Risk Date | FC Date | % |
|---|---|---|---|
| No additional recovery actions identified at this time. | 3/03/15 | N/A | N/A |

<table>
<tr><th>Risk Title</th><th>Unmitigated Risk Impacts</th><th colspan="2">Assessment<br>Month / Trend</th><th>Comments</th></tr>
<tr><td colspan="5">RL-0012/WBS-012</td></tr>
<tr><td>STP-103-B: Construction Acceptance Testing - ECRTS Annex/In-Basin Equip. Installation</td><td>Construction Acceptance Testing (CAT) details associated with the ECRTS equipment installation, unique "one of a kind" ECRTS equipment may not function as planned, and equipment installation errors result in cost and schedule impacts.<br>Risk Handling Strategy: Control<br><br>Probability: Likely (75% to 90%)<br>Worst Case Impacts: $950K, 40 days</td><td>●</td><td>↑</td><td>Risk Event:<br>In the month of January, the project incurred additional cost for a nonfunctional CAM alarm.<br><table><tr><th>Risk recovery action(s)</th><th>Risk Date</th><th>FC Date</th><th>%</th></tr><tr><td>No additional recovery actions identified at this time.</td><td>1/01/16</td><td>N/A</td><td>N/A</td></tr></table>Recovery Action Assessment:<br>The impacts could not have been anticipated. At this time, no additional recovery actions identified. The project continues to identify project needs before they become critical and delay planned work scope. If no additional impacts are identified in, the month of February this risk will no longer be reported on and will be monitored internal to the project.</td></tr>
<tr><td>STP-104: Readiness Activities More Extensive than Planned – ECRTS</td><td>The Operational Readiness Activities for startup of the ECRTS may be more extensive than planned.<br><br>Risk Handling Strategy: Accept<br><br>Probability: Very Likely (>99%)<br>Worst Case Impacts: $170K, 73 days</td><td>●</td><td>↓</td><td>Risk Event:<br>This risk is a realized risk that was planned for transfer to RL. RL has requested an Operational Readiness Review be performed instead of the planned Readiness Assessment as approved by the Joint Review Team.<br><table><tr><th>Risk recovery action(s)</th><th>Risk Date</th><th>FC Date</th><th>%</th></tr><tr><td>Process BCR to account for changing assumptions</td><td>1/16/16</td><td>3/31/16</td><td>0</td></tr></table>Recovery Action Assessment:<br>Impacts to this change are being assessed and will be reflected in future BCRs. Baseline changes are being examined to determine how to move forward. Once the BCR is processed, this risk will be closed in the risk database.</td></tr>
<tr><td colspan="5">Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)</td></tr>
<tr><td colspan="5">FY2016 Risk Triggers (Risk could be realized in FY2016)</td></tr>
<tr><td>STP-120-B: Design & Engineering During Construction (Title III) - ECRTS Annex/In-Basin Equip. Installation</td><td>As a result of as-found conditions, errors and omissions in design details, and field interferences are identified during construction requiring clarification and rework of design media. Additionally, changes in engineering processes, engineering codes or standards (e.g., code of record), other requirements (e.g., PDSA, FHA), changes in other site processes or procedures (e.g., H&R, OS&IH, L&T) will also impact construction execution. These changes are imminent and outside the projects control.<br><br>Risk Handling Strategy: Control<br><br>Probability: Very Likely (>90%)<br>Worst Case Impacts: $2M, 56 days</td><td>●</td><td>↔</td><td>Risk Trigger:<br>1) Errors & omissions. 2) Field interferences. 3) CHPRC as-found conditions require clarification and rework of design. 4) Changes in engineering processes, engineering codes or standards (e.g., code of record), other requirements (e.g., PDSA, FHA), or changes in other site processes or procedures.<br><table><tr><th>Mitigation action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>Complete constructability reviews for the balance of the design media. (In-Basin NE-Corner complete, In-Basin Equip (comment resolution in process) and Annex Equip reviews are forthcoming)</td><td>3/31/16</td><td>0</td></tr><tr><td>Modify or expand existing engineering process to more readily facilitate field construction (e.g., redline processes). (In process)</td><td>7/28/16</td><td>0</td></tr><tr><td>Evaluate staffing levels and identify contingency field engineering resources to facilitate construction and resolution of field design changes and design clarifications requested by General Conditions Contractor. (Core assessment has been done and corrective actions are in process)</td><td>7/28/16</td><td>0</td></tr></table>Mitigation Assessment:<br>Staffing levels have been evaluated. Field design changes and design clarifications are being addressed to reduce delays and maintain schedule integrity.<br>This reoccurring risk may experience additional impacts over the course of the project. No additional mitigation actions are planned at this time to address other potential impacts.</td></tr>
<tr><td colspan="5">High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)</td></tr>
<tr><td colspan="5">Lifecycle Risk Triggers (Risk could be realized at any point of the project)</td></tr>
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<tr><td colspan="5">RL-0012/WBS-012</td></tr>
<tr><td>STP-114: Aging Building Systems/Components Problems Impact Operations & S&M Activities</td><td>Problems with aging building systems/ components (e.g. ventilation systems, water distribution system, CAM's, instrument air system, fire alarm system, and electrical system, etc.) result in inoperability or requires unscheduled maintenance/ outages, impacting planned operations or on-going surveillance and maintenance activities. These impacts result in cost impacts, and schedule delays.<br>Risk Handling Strategy: Control<br><br>Probability: Likely (75% to 90%)<br>Worst Case Impacts: $1.3M, 44 days</td><td>  </td><td>  </td><td>Risk Trigger:<br>Routine S&M activities identify problems with aging building systems/ components. This reoccurring risk will continue throughout project lifecycle until sludge is removed from 105KW Basin.<br><table><tr><th>Mitigation action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>Perform critical system reliability assessments; maintenance practices; procure critical spares, and maintain existing redundancies.</td><td>On-Going</td><td>N/A</td></tr><tr><td>Continue with baseline plan for corrective and preventative maintenance on systems, structures and components.</td><td>On-Going</td><td>N/A</td></tr></table>Mitigation Assessment:<br>No changes in the month of January.<br>Operations continues to maintain the facilities in an operational status with no foreseeable impacts in the near future, and no alternative course of actions needed at this time.</td></tr>
<tr><td colspan="5">FY2016 Risk Triggers (Risk could be realized in FY2016)</td></tr>
<tr><td>STP-093-B: Operational Resources Limitations for Construction Support - ECRTS Annex/In-Basin Equip. Installation</td><td>During installation the ECRTS process equipment installation multiple activities, which are currently planned in the FES, compete for the same operational resources (e.g., NCO's, HPT's, Shift Managers, RA, RM, Work Planners). In addition, emergent resource limitations also emerge (e.g., training, sick leave, vacation, short/long term) causing equipment installation delays.<br><br>Additional resources needed due to the requirement for increased confidence in release surveys (95% versus 67%). Internally driven, possibly requiring more RCTs.<br><br>Risk Handling Strategy: Control<br><br>Probability: Very Likely (>90%)<br>Worst Case Impacts: $1.9M, 64 days</td><td>  </td><td>  </td><td>Risk Trigger:<br>Planned Activities compete for the same operational resources, and resource limitations emerge resulting in delays.<br><table><tr><th>Mitigation action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>Post for additional operation resources.</td><td>Complete</td><td>100</td></tr><tr><td>Train newly added staff.</td><td>Complete</td><td>100</td></tr></table>Mitigation Assessment:<br>Additional operators have been hired or alternate resources have been identified. New staff acquisitions have been trained and process are in place to train new staff as needed. Evaluation of alternative/overlapping shifts will be evaluated if schedule recovery actions are required to hold or recover schedule. The constructability review process will continue as needed.<br><br>The majority of the Constructability reviews for the equipment installation will be complete in March 2016. Miscellaneous additions, changes, or redlines are proposed by engineering.<br>No alternative course of actions necessary at this time.</td></tr>
<tr><td>STP-093-T: Operational Resources Limitations for Construction Support - T-Plant Modifications</td><td>During installation the T-Plant modifications and equipment installation activities, which are currently planned in the FES, compete for the same operational resources (e.g., NCO's, HPT's, Shift Managers, RA, RM, Work Planners). In addition, emergent resource limitations also emerge (e.g., training, sick leave, vacation, short/long term) causing equipment installation delays.<br>Risk Handling Strategy: Control<br><br>Probability: Very Likely (>90%)<br>Worst Case Impacts: $512K, 32 days</td><td>  </td><td>  </td><td>Risk Trigger:<br>Planned Activities compete for the same operational resources, and resource limitations emerge resulting in delays.<br><table><tr><th>Mitigation action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>Post for additional operation resources.</td><td>Complete</td><td>100</td></tr><tr><td>Train newly added staff.</td><td>Complete</td><td>100</td></tr></table>Mitigation Assessment:<br>No changes in the month of January.<br>Additional operational resources have been hired at T-Plant to support the construction work. The Construction team has hired an additional planner to support work package development, enhanced work planning, and Hazard Review Board presentations. FPE resources have not engaged to fully support NLOP equipment removal planning process. The apparent resource challenges continue due to limited FPE resources and competing priorities causing potential delays in preparation for equipment removal.<br>No alternative course of actions necessary at this time.</td></tr>
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<tr><td colspan="5">RL-0012/WBS-012</td></tr>
<tr><td>STP-097-B: Material & Procurement (Review)/ Unexpected Procurement Item Delays - ECRTS Annex/In-Basin Equip.</td><td>During installation or testing, the "Buyer Furnished Equipment" will require modification and the emergent procurement actions will result in delays to the project. In addition, other latent quality issues are discovered (i.e., NRTL, suspect counterfeit) and procurement of replacement materials or components are required. There is the possibility the STP hoses are not of adequate length and acquisition of new hoses is required.<br><br>Risk Handling Strategy: Control<br><br>Probability: Likely (75% to 90%)<br>Worst Case Impacts: $2M, 64 days</td><td>  </td><td>  </td><td>Risk Trigger:<br>1) During installation or testing, the "Buyer Furnished Equipment" will require modification. 2) Latent quality issues are discovered.<br><br><table><tr><th>Mitigation action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>Perform equipment mock-ups where feasible. (XAGO mock-up complete)</td><td>Complete</td><td>100</td></tr><tr><td>Evaluate potential bidders and shortlist to 3 potential bidders to procure and modify safety significant equipment as directed by engineering.</td><td>Complete</td><td>100</td></tr><tr><td>Perform equipment installation constructability reviews to minimize field interferences and fit up issues. (In-Basin NE-Corner complete, In-Basin Equip comment resolution in process and Annex Equip reviews are forthcoming)</td><td>7/28/16</td><td>0</td></tr><tr><td>Performance of MPAT will help reduce cost and schedule impacts.</td><td>7/28/16</td><td>0</td></tr><tr><td>Expedited delivery to recover delays from suppliers. Evaluated on a case-by-case basis.</td><td>On-Going</td><td>N/A</td></tr></table><br>Mitigation Assessment:<br>This is a reoccurring risks relating to the unexpected/unanticipated procurement of materials and equipment during the ECRTS Annex/In-Basin equipment or testing. To date the risk has required the purchase of additional cameras and long reach tools to support construction activities; specialty cutting tools for the EC-230 manifold; camera cable connectors; underwater cameras; camera mounting SS tubing; camera articulation hardware; Nucut system replacement batteries; additional tools and equipment for re-lidding; hose assembly modifications; hydraulic cutting tools; and additional PPE (Anti-C latex gloves).<br><br>The project continues to identify project needs before they become critical and delay planned work scope.<br>Mitigation actions are expected to reduce the risk likelihood of occurrence, however, the anticipated risk impacts will be unaffected by the mitigation actions. No alternative course of actions necessary at this time.</td></tr>
<tr><td>STP-103-M: MASF Pre-Operational Acceptance Testing (MPAT)</td><td>The ECRTS equipment does not operate as expected, requiring increased engineering & MASF Testing Staff Support. This will require design modifications of production hardware and changes to control system software. These modifications will negatively impact downstream testing, construction, readiness and ECRTS Operations.<br>Risk Handling Strategy: Control<br><br>Probability: Medium (26% to 74%)<br>Worst Case Impacts: $1M, 60 days</td><td>  </td><td>  </td><td>Risk Trigger:<br>1) ECRTS equipment does not operate as expected. 2) Unexpected attrition of critical testing personnel.<br><br><table><tr><th>Mitigation action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>Establish a testing strategy document to communicate planned testing activities and optimize scope of MPAT.</td><td>Complete</td><td>100</td></tr><tr><td>Evaluate and implement "Risk Reduction Testing Activities" in an effort to minimize the risk of discovering anomalous equipment operation during MPAT.</td><td>Complete</td><td>100</td></tr><tr><td>Establish factory acceptance testing criteria that will provide reasonable confidence that minimal operational surprises will be realized during subsequent MPAT at MASF.</td><td>Complete</td><td>100</td></tr><tr><td>Consider incentives for key project personnel to ensure their availability during this critical acceptance-testing phase of the project.</td><td>2/29/16</td><td>95</td></tr></table><br>Mitigation Assessment:<br>All risk mitigation activities are on track to complete late February. The one-month slip to mitigation actions results in no impact to the overall schedule or EAC.<br>Personnel are actively managing critical procurements required for MPAT and FAT criteria is 98 percent established. Several actions have been taken to secure commitment from staff. Will push to finalize prior to January 31, 2016.</td></tr>
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<tr><td colspan="5">RL-0012/WBS-012</td></tr>
<tr><td>STP-111-B: Contractor/ Subcontractor Performance – ECRTS Annex/ In-Basin Equipment Installation</td><td>The General Contractor and their supporting subcontractors have historically performed poorly and will be challenged on this project by compliance with project and contract flow down requirements (e.g. quality, nuclear standards, site safety requirements, subcontract management to ensure contract requirements are met, NRTL compliance, suspect counterfeit, Buy-American contract clause, Project Controls requirements, development of Construction Acceptance Testing (CAT), timely processing of submittals compliance with all the subcontract flow down requirements) as well as deployment and maintenance of key staff that are essential to safe, cost effective and on-time project delivery. This risk is further compounded by sequestration and decrement funding.<br>Risk Handling Strategy: Control<br><br>Probability: Very Likely (>90%)<br>Worst Case Impacts: $792K, 96 days</td><td>  </td><td>  </td><td>Risk Trigger:<br>1) General Contractor will not be able to comply with all contract requirements.<br><table><tr><th>Mitigation action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>Contractor pre-evaluation completed and shortlisted 3-potential bidders.</td><td>Complete</td><td>100</td></tr><tr><td>Shortlisted bidders evaluated and placed on Site ESL.</td><td>Complete</td><td>100</td></tr><tr><td>Increased schedule duration for the project effort.</td><td>Complete</td><td>100</td></tr><tr><td>Acquisition planning document written to allow additional work to be added to successful bidder-if their performance is acceptable.</td><td>Complete</td><td>100</td></tr><tr><td>Establish weekly CHPRC and General Conditions Contractor interface meetings (e.g., Safety Meeting, Field Safety Walk-down , QA, POD/POW, Schedule and Performance Review) to track performance.</td><td>Ongoing</td><td>N/A</td></tr><tr><td>Implement extensive oversight</td><td>Ongoing</td><td>N/A</td></tr><tr><td>Provide additional training.</td><td>Ongoing</td><td>N/A</td></tr></table><br>Mitigation Assessment:<br>Discreet mitigation actions are complete. Additional mitigation actions will continue throughout the project lifecycle.<br>No alternative course of actions necessary at this time.</td></tr>
<tr><td>STP-121-B: As-Found Conditions - ECRTS Annex/In-Basin Equip.</td><td>Historically, As found, unknown-unknowns, and emergent conditions have impacted construction execution and contractor performance.<br>Risk Handling Strategy: Accept<br><br>Probability: Very Likely (>90%)<br>Worst Case Impacts: $1.3M, 48 days</td><td>  </td><td>  </td><td>Risk Trigger Metric:<br>1) CHPRC As-Found or emergent conditions impact construction execution and contractor performance.<br><table><tr><th>Mitigation action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>None identified at this time.</td><td>N/A</td><td>N/A</td></tr></table><br>Mitigation Assessment:<br>To date the risk has incurred costs for the purchase of additional cameras and long reach tools to support construction activities; camera cable connectors; underwater cameras; additional tools and equipment for re-lidding; unanticipated painting; hose assembly modifications; contamination delays; additional subcontractor labor to perform underwater video; Airborne Radiation Area down posted delayed work scope; replacement of SOV-774/AOV-774 valves; disconnection of second water injection hose connected to SCS-CON-230; and decontamination of contaminated long reach tool-need RWP to allow decontamination of tool.<br>No alternative course of actions necessary at this time.</td></tr>
<tr><td>STP-121-T: As-Found Conditions - Equipment Install - T-Plant</td><td>Historically, As found, unknown-unknowns, and emergent conditions have impacted construction execution and contractor performance.<br>Risk Handling Strategy: Accept<br><br>Probability: Very Likely (>90%)<br>Worst Case Impacts: $1.3M, 48 days</td><td>  </td><td>  </td><td>Risk Trigger Metric:<br>1) CHPRC As-Found or emergent conditions impact construction execution and contractor performance.<br><table><tr><th>Mitigation action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>None identified at this time.</td><td>N/A</td><td>N/A</td></tr></table><br>Mitigation Assessment:<br>No changes in the month of January.<br>The mitigation strategies have been put in place, as a result, the risk strategy is to accept with no further mitigation actions identified at this time.<br><br>In the event as-found conditions are encountered the project make schedule adjustments as necessary, and engage engineering, Operations, and SME resources, as appropriate, to assist in mitigating negative impacts to cost and schedule. In addition, if asbestos-containing material (ACM) is discovered the project will ensure a subset of construction craft workers are trained appropriately to handle discovery of ACM.<br>No alternative course of actions necessary at this time.</td></tr>
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<tr><td colspan="5">RL-0012/WBS-012</td></tr>
<tr><td>STP-123-B: Design Maturity - ECRTS Annex/In-Basin Equip.</td><td>Finalization of design media for the ECRTS equipment installation will result in changes to both cost and schedule. There is also a compounding risk that design changes (e.g. auxiliary ventilations system modifications and nitrogen bottle rack pad, Albi Clad removal, additional hangers for purge pipe, truck pad) will result from the incorporation of PDSA/FHA comments and are more extensive than planned.<br>Risk Handling Strategy: Accept<br><br>Probability: Very Likely (>90%)<br>Worst Case Impacts: $1.3M, 96 days</td><td>  </td><td>  </td><td>Risk Trigger Metric:<br>1) Changes to the final design for the ECRTS equipment installation impacts project cost and schedule.<br><table><tr><th>Mitigation action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>None identified at this time.</td><td>N/A</td><td>N/A</td></tr></table><br>Mitigation Assessment:<br>No changes in the month of January.<br>The mitigation strategies have been put in place, as a result, the risk strategy is to accept with no further mitigation actions identified.<br>No alternative course of actions necessary at this time.</td></tr>
<tr><td colspan="5">FY2017 Risk Triggers (Risk could be realized in FY2017)</td></tr>
<tr><td>STP-105-B: Acceptance Testing and Achieving Readiness - ECRTS Annex/In-Basin Equip. Installation</td><td>Acceptance Testing Requirement are different from planned based on the development final of Acceptance Testing Requirements and Lines of Inquiry for Readiness Review.<br><br>Risk Handling Strategy: Accept<br><br>Probability: Very Likely (>90%)<br>Worst Case Impacts: $1.5M, 64 days</td><td>  </td><td>  </td><td>Risk Trigger Metric:<br>1) During acceptance testing requirements are different from planned.<br><table><tr><th>Mitigation action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>Conduct constructability review of Engineering media and field walk-downs as applicable.</td><td>Complete</td><td>100</td></tr><tr><td>Conduct Field mockups of equipment and review of MASF to identify potential interferences</td><td>Complete</td><td>100</td></tr></table><br>Mitigation Assessment:<br>To date the risk has incurred costs for Fire System ATP development and execution that has exceeded assumed requirements requiring contractor to rework the Annex Fire Protection system, and redo door drop test to allow FPE to witness the test.<br>The mitigation strategies have been put in place, as a result, the risk strategy is to accept with no further mitigation actions identified.<br>No alternative course of actions necessary at this time.</td></tr>
<tr><td colspan="5">FY2018 Risk Triggers (Risk could be realized in FY2018)</td></tr>
<tr><td>STP-018-O: STP Operational Upset or Spill - During 1st STSC</td><td>An operational upset or spill results in a work shutdown at K Basins, resulting in schedule delays.<br>Risk Handling Strategy: Control<br><br>Probability: Medium (26% to 74%)<br>Worst Case Impacts: $1.3M, 96 days</td><td>  </td><td>  </td><td>Risk Trigger:<br>1) An operational upset or spill results in work shutdown at K Basin. This risk will commence in FY2018 and continue throughout project lifecycle until sludge is removed from 105KW Basin.<br><table><tr><th>Mitigation action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>Conduct rigorous startup testing following system installation at the 105KW Basin and Annex.</td><td>10/11/17</td><td>0</td></tr><tr><td>Conduct testing and training at MASF and develop procedures that use the information and knowledge gained during the activity for use at the KW Basin.</td><td>Ongoing</td><td>N/A</td></tr></table><br>Mitigation Assessment:<br>Forecasted mitigation dates are consistent with overall STP critical path schedule. Training and procedure development will continue into FY2018. It will complete prior to completion of management self-assessment affidavits in December 2017. OTJ at MASF is scheduled to start on November 29, 2016 and complete on April 17, 2017.</td></tr>
</table>

<table>
<tr><th rowspan="2">Risk Title</th><th rowspan="2">Unmitigated Risk Impacts</th><th colspan="2">Assessment</th><th rowspan="2">Comments</th></tr>
<tr><th>Month</th><th>Trend</th></tr>
<tr><td colspan="5">RL-0012/WBS-012</td></tr>
<tr><td>STP-073-C: Processing Efficiency - Retrieval & Shipping, During 1st STSC</td><td>The realized processing efficiency associated with sludge retrieval and shipping operations does not match baseline plan.<br>Risk Handling Strategy: Accept<br><br>Probability: Low (10% to 25%)<br>Worst Case Impacts: $0K, 8 days<br><br>*Cost increase will result in cost per day impacts from crews, and hotel load.</td><td>  </td><td>  </td><td>Risk Trigger:<br>1) Actual processing efficiency associated with sludge retrieval and shipping operations does not match baseline assumptions. This risk will commence in FY2018 begin with operations campaign.<br><br>
<table>
<tr><th>Mitigation action(s)</th><th>FC Date</th><th>%</th></tr>
<tr><td>Review lessons learned from NLOP sludge retrieval</td><td>Complete</td><td>100</td></tr>
<tr><td>Incorporate operations personnel recommendations into the ECRTS Process System & STSC design.</td><td>Complete</td><td>100</td></tr>
<tr><td>Test the Design on simulated sludge and test the production hardware to validate operability prior to installation in the 105 KW Basin.</td><td>Complete</td><td>100</td></tr>
<tr><td>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.</td><td>04/10/17</td><td>25</td></tr>
<tr><td>Evaluate alternatives to reduce the total STSC's by optimization of sludge loading.</td><td>Ongoing</td><td>N/A</td></tr>
</table>
<br>Mitigation Assessment:<br>No changes in the month of January.<br>Operations personnel were given training on the process system equipment and will continue to participate in training activities through production system installation at 100K. No foreseeable impacts in the near future and no alternative course of actions needed at this time.</td></tr>
<tr><td colspan="5">Unassigned Risks (Pending ownership of identified risks/opportunities)</td></tr>
<tr><td colspan="5">No unassigned risks identified in the month of January.</td></tr>
</table>

# PROJECT BASELINE PERFORMANCE
## Current Month
## ($M)

| RL-0012 Spent Nuclear Fuel Stabilization and Disposition | Budgeted Cost of Work Scheduled | Budgeted Cost of Work Performed | Actual Cost of Work Performed | Schedule Variance ($) | Schedule Variance (%) | Cost Variance ($) | Cost Variance (%) |
|---|---|---|---|---|---|---|---|
| Total | 7.0 | 6.1 | 5.1 | (0.9) | -13.0% | 1.0 | 15.8% |

Numbers are rounded to the nearest $0.1 million

**CM Schedule Performance (-$0.9M/-13%)**

The negative schedule variance was created by a temporary hold on awarding the construction contract for T-Plant NLOP removal while the capital determination was finalized in December. Re-evaluating the construction schedule to determine if efficiency opportunities can be on the realized project. The Annex Equipment Installation work has been delayed as engineering design media is behind schedule. Readiness and Startup scope is behind schedule due to later than planned Joint Evaluation Team approval, submittal and RL approval of the Startup Notification Report (SNR) due to strategy and approach changes with shifting from an RA to an ORR.

**CM Cost Performance (+$1.0M/+15.8%)**

The positive cost variance is impacted by the In-Basin Re-Lidding construction contract being negotiated below baseline value resulting in a positive cost variance. T-Plant fabrication costs have been underrunning due to a lower FFP contract as a result of fewer RCIs, red-line changes, and contract change orders. In addition, the Project had planned to begin hiring and training of NCOs to support retrieval

operations. The hiring was not initiated as planned as CHPRC is analyzing the potential for the transfer of personnel from other projects to minimize the potential for future layoffs.

## 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 | 540.5 | 540.2 | 551.6 | (0.3) | -0.1% | (11.4) | -2.1% | 713.3 | 727.6 | (14.2) |

Numbers are rounded to the nearest $0.1 million

**CTD Schedule Performance (-$0.3M/-0.1%)**
The variance is within reporting thresholds.

**CTD Cost Performance (-$11.4M/-2.1%)**
The variance is within reporting thresholds.

**Variance at Completion (-$14.2M/-2.0%)**
The variance is within reporting thresholds.

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

## FUNDS vs. SPEND FORECAST ($M)

| | FY2016 | | |
|---|---|---|---|
| RL-0012 Spent Nuclear Fuel Stabilization and Disposition | Projected Funding | Spending Forecast | Spend Variance |
| Expense – Spending Forecast | 53.0 | 51.7 | 1.2 |
| Expense – Non Contract Work | 0 | 0.9 | (0.9) |
| Expense – Subtotal | 53.0 | 52.6 | 0.4 |
| Line Item | 68.1 | 32.0 | 36.1 |
| **RL-0012 – Total** | **121.1** | **84.6** | **36.4** |

Numbers are rounded to the nearest $0.1 million.

**Funds/Variance Analysis**

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

**Critical Path Schedule**

The critical path flows through the installation of process equipment, 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* (milestone is outside contract period in FY2019).

**Baseline Change Requests**

BCR-PRC-16-024R0, *Low Level Contamination Sample Analysis Budget Resource Change*
BCR-PRC-16-02R0, *Revise FY2017 and FY2018 G&A Rates*

# 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. | 09/30/2018 | | 09/15/2018 | The forecast date of September 15, 2018. |

# SELF-PERFORMED WORK

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

# GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.

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

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

January 2016
CHPRC-2016-01, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

# PROJECT SUMMARY

W&FMP maintained facilities in a safe and compliant condition. Overall, the project is delivering planned efficiencies, but continues to be impacted by emerging work and realized risks. The WESF Stabilization and Ventilation Project (W-130) completed installation and testing of tank TK-7 in G-Cell; AVS inspection of K3N heater; removed underground portions of steamline; and transmitted certification of RCRA permit modification and Closure Plan to RL. CWC continued waste box nondestructive assay (NDA) activities in the Outside Storage Area A (OSA).

## EMS Objectives and Target Status

| Objective # | Objective | Target | Due Date | Status |
|---|---|---|---|---|
| 16-EMS-WFM-OB1-T1 | Improve container labeling. | Reconcile data between SWITS and the Operating Record for 750 containers at CWC, and update container labeling for those containers (if needed). | 9/30/16 | 64% |
| 16-EMS-WFM-OB1-T2 | Improve consistency in RCRA inspections between WFM facilities. | Establish consistent format, language, approvals, and corrective action tracking standards for WFM RCRA inspections. | 9/30/16 | 0% |
| 16-EMS-WFM-OB1-T3 | Improve consistency in recordkeeping for RCRA inspections at CWC. | Evaluate and issue procedure for an automated RCRA Checklist and inspection system for CWC. | 9/30/16 | 20% |

## 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<br>*1 Recordable case, PTS in support of RL-0013. |
| **First Aid Cases** | 1 | 26* | • 1/20/16 - Employee “tweaked” back while moving cables with the assistance of another employee. (23919)<br>*8 First Aid Cases, PTS in support of RL-0013. |
| **Near Misses** | 0 | 1 | N/A |

# KEY ACCOMPLISHMENTS

**13.01 Project Management**

- Completed RL/CHPRC joint certification of the Solid Waste Part B Permit Application.

**13.02 Capsule Storage & Disposition**

- Performed/Completed:
  - Conducted tour of WESF for Washington Department of Health (WDOH).
  - 25 Preventive Maintenance (PM) work packages.

**a. Capsule Extended Storage Project:**

- Updated Project Data Sheet and funding curve prepared and provided to RL for review and comment.
- Functions and Requirements Document (FRD), Cask Storage System Functional Design Criteria and the Source Selection Plan were approved by CHPRC.

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

- Obtained occupancy approval for construction trailers.
- Completed installation and testing of tank TK-G7 in G-Cell.
- Completed AVS inspection of K3N heater.
- Removed underground portions of steam line, installed plugs and supports for vertical portion to complete steam line work.
- Transmitted certification of RCRA permit modification and Closure Plan to RL.

**13.03 Canister Storage Building (CSB)**

- Performed/Completed:
  - 32 PM packages.

**13.06 TRU Repackaging**

- Transuranic mixed (TRUM) waste completed and returned fiscal year to date – 252.7 m3.
- M-91 Alternative Study:
  - RL was briefed on and concurred with the scope/approach for M-91 alternatives analysis.

**13.07 WRAP**

- Received four waste drums from PFP.
- Surveillances/PMs:
  - 129 Surveillances.
  - 11 PM packages.

**13.08 T Plant**

- Performed testing and procedure validation of 85 Gallon Drum Venting Assemblies.
- Completed 221T 45 ton crane handrail inspection and planned repair.
- Surveillances/PMs:
  - 555 Surveillances.
  - 27 PM packages.

**13.09 CWC and Low Level Burial Grounds (LLBG)**

- Performed/Completed:
  - Waste box NDA activities in the OSA A, four of ten boxes completed.
  - Concrete scanning inside 2403-W buildings.

**CWC Container Watch List:**

- Surveillances/PMs:
  - 13 PM packages.
  - 387 Surveillances.
- Shipments Received:
  - Twenty-six standard waste boxes (SWB) received into CWC in eight shipments.
  - Three waste drums received into CWC in one shipment.

**13.11 Liquid Effluent Facilities**

- ERDF Transfer Pipeline Construction:

  - Initiated construction of new pipe section on bermed area north of 19th Street and on pipe tie-in inside 200W Area Pump and Treat (P&T) Facility.

**13.12 Integrated Disposal Facility**

- Completed monthly inspections.

**13.14 Solid Waste Base Operations**

- Environmental Enhancement:
  - Completed data reconciliation/containers labeled: 443 drums.
  - Approved the Statement of Work (SOW) and the Function Requirements Documents to automate RCRA inspections.
  - Initiated benchmarking to preparation to standardize RCRA inspection procedure.

**13.16 Off Site Spent Nuclear Fuel Disposition**

- Maintained coordination for offsite Spent Nuclear Fuel Disposition.

**13.21 Mixed Waste Disposal Trenches (MWT)**

- Shipments Received:
  - Five waste boxes and one waste drum in two shipments.
- Completed:
  - 174 Surveillances.

# MAJOR ISSUES

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

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

**Status:**
Continuing to use the best demonstrated available technology to provide adequate configuration and minimize the potential for contamination spread during the long-term storage (i.e., protecting boxes with tarps or protective shoring and over packing drums). Additional repackaging scope was incorporated into the contract and performance measurement baseline in October 2015. However, regulator interest continues regarding container condition and CHPRC is monitoring evolving requirements along with RL.

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

**Corrective Action**:
RL and WDOH were notified of the situation. Options to rectify the situation were evaluated. WDOH prefers an engineering evaluation by Pacific Northwest National Laboratory (PNNL) to justify use of the higher flow rates. This will also provide defensibility for past data. Following successful completion of the engineering evaluation, RL will submit a NOC revision to modify the license to reflect the wider range of stack flow rates.

**Status:**
RL provided direction to proceed with the PNNL statistical analysis of the CSB stack flow data as well as data from other similar stacks. A contract was awarded to PNNL on July 29, 2015. The first deliverable

was received September 28, 2015; the preliminary review is complete. PNNL supplied preliminary information providing a basis for an expanded flow range. A meeting with RL and WDOH was held October 8, 2015 to present the first deliverable from PNNL. Following the meeting, PNNL cleared the presentation for release, and the cleared copies were provided to WDOH on October 22, 2015. WDOH provided positive feedback on the PNNL presentation but wants one of six original tests to be re-performed but at lower flow rates to validate the PNNL statistical analysis, which used test results from similar stacks for comparison. The facility Environmental Compliance Officer is looking into feasibility of performing this testing during quarterly stack flow testing; however, RL contractual approval and funding are required. PNNL was given direction to proceed with preparation of their formal report December 1, 2015, with an anticipated completion date of February 26, 2016. PNNL submitted a draft of report, "Stack Flow Rate Changes and the ANSI/N13.1-1999 Qualification Criteria – Application to the Hanford Canister Storage Building Stack", to CHPRC for review on January 31, 2016. The purpose of this report examines qualification test results of four stacks that are geometrically similar to the CSB and uses the test data from those stacks as a basis for qualifying the CSB stack at flow rates lower than what the CSB stack was originally qualified at.

**Issue:**
CSB storage tubes M03 and M04 were discovered to have rust-like substances under the tube covers and on the tube plugs. M03 was significantly coated, where M04 only displayed a trace amount. The rust-like substance was not radiological contaminated. Vapor sampling detected no abnormal readings. This condition was discovered during the conduct of the primary MBA Custodian inventory during a representative observation of storage tubes.

**Corrective Action**:
Two separate samples determined the presence of rust and other benign substances. The MBA inventory was completed. A work package to inspect, clean and borescope the interior of the tube has been prepared. Engineering/corrosion SME's from the Central Group were contacted to support the inspection and evaluation.

**Status:**
Status report on cleaning of storage tubes M03/M04 was completed December 14, 2015. Final assessment is that the pitting is superficial and does not compromise the structural integrity or radiological shielding capability of any MCO tube assembly component. Follow-on actions are to re-inspect tube M03 for changing conditions after 90-days and final report will be issued after 90-day inspection is complete March 2016.

# RISK MANAGEMENT STATUS

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

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

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

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

Increased Confidence
No Change
Decreased Confidence

| Risk Title | Unmitigated Risk Impacts | Assessment | | Comments |
|---|---|---|---|---|
| | | Month | Trend | |
| **RL-0013/WBS-013** | | | | |
| **Explanation of major changes to the project monthly stoplight chart:** No major changes to the monthly stoplight chart in the month of January. | | | | |
| **Realized Risks** (Risks that are currently impacting project cost/schedule) | | | | |
| WSD-125: Multi-Year Pause in Waste Processing Results in Unexpected Container Integrity Issues | A pause in waste processing results in an unexpected container degradation within SWOC (excluding TRU Retrieval activities) and require additional resources to respond.<br>**Risk Handling Strategy:** Accept<br><br>**Probability:** Likely (75% to 90%)<br>**Worst Case Impacts:** $5 million, 0 day |  |  | **Risk Event:**<br>In November 2011, degraded containers were discovered in CWC.<br><br>**Recovery Action Assessment:**<br>Project continued to perform container surveillances in the month of January to identify container and container cover abnormalities. All shipments related to the 280 m3, largely from Outside Storage Area A, have been made to Perma-Fix Northwest. A contract was awarded for the design and fabrication of a large overpack for storage box 75DMA16F3 with a subsequent move into 2403WD. The new delivery date is April 11, 2016. The one month slip results in no additional impacts to the project at this time.<br><br>A potential impact may be realized due to regulator uncertainties related to the definition of a satisfactory container when corrosion is evident. These uncertainties may result in the inability to efficiently receive waste from on-site generators, i.e., PFP. At this time impacts are being realized in two buildings for the receipt of PFP CERCLA waste. No alternative course of actions needed at this time; however, a teleconference with the EPA was held and no final determination was made by the regulators on the definition of a "good drum." CHPRC is in possession of a letter from the EPA that states they do not believe CHPRC understands what a "bad drum" is. No meetings are currently schedule to resolve this concern, however a letter is being drafted to request contract direction from RL. At this time it is undetermined on the timeframe to reach a conclusion. |

| Risk recovery action(s) | Risk Date | FC Date | % |
|---|---|---|---|
| Perform daily/weekly waste container surveillances to identify container abnormalities. | 11/01/11 | On-Going | N/A |
| Manage a "watch-list" of waste containers that have shown signs of degradation or are associated with degraded containers. | | On-Going | N/A |
| Overpack degraded waste packages. | | On-Going | N/A |
| Process waste packages at a rate funded by RL. | | On-Going | N/A |

<table>
<tr><th rowspan="2">Risk Title</th><th rowspan="2">Unmitigated Risk Impacts</th><th colspan="2">Assessment</th><th rowspan="2">Comments</th></tr>
<tr><th>Month</th><th>Trend</th></tr>
<tr><td colspan="5">RL-0013/WBS-013</td></tr>
<tr><td>WSD-W130-07: WESF W-130 Class 3 Permit modifications – Ecology</td><td>Significant comments or rejection from Ecology on the Class 3 permit modification and closure plan are issued, resulting in cost impacts and schedule delays.<br><br>Risk Handling Strategy: Control<br><br>Probability: Likely (75% to 90%)<br>Worst Case Impacts: $0, 144 days<br><br>*Cost increase will result in cost per day impacts from crews, and hotel load.</td><td>  </td><td>  </td><td>Risk Event:<br>Risk was realized upon receipt of letter of incompleteness from Ecology on closure plan and Class III permit modifications.<br><br>
<table>
<tr><th>Risk recovery action(s)</th><th>Risk Date</th><th>FC Date</th><th>%</th></tr>
<tr><td>Established logic ties in schedule to prompt request of a temporary authorization in the event that an approved permit is not provided in time to support field execution schedule.</td><td rowspan="3">3/25/15</td><td>Complete</td><td>100</td></tr>
<tr><td>Work with Ecology to resolve areas of incompleteness in permit modification and closure plan.</td><td>Complete</td><td>100</td></tr>
<tr><td>Obtain Temporary Authorization from Ecology to allow construction activities to proceed without full permit approval</td><td>3/31/16</td><td>10</td></tr>
</table>
<br>Recovery Action Assessment:<br>Closure Plan comments have been resolved with Ecology, however a new issue was identified November 3 on closure performance standards for cadmium and chromium. Ecology and RL/CHPRC do not agree on closure performance standards. Certified copy of closure plan and Part A permit modification was transmitted to DOE-RL January 14. Any issues with closure performance standards will be resolved during public comment period. Temporary Authorization (TA) to perform construction activities were requested along with the certified closure plan and Part A with approval of TA requested by March 31, 2016 to avoid impacting schedule.<br>CHPRC and DOE will meet with Ecology on February 9, 2016 to discuss a phased approached instead of 1 TA for the full scope requested. The first TA would allow core drilling; the second TA would allow grouting. This approach poses additional schedule risk if Ecology does not issue TAs in time to support field work, and may prolong an interim condition where core drills have been made but grout not placed if the second TA is not issued in time. Additional resources will continue to be necessary to work permitting issues until final permit is issued and implemented. Additional cost for labor resources is incorporated into CP269 R2 through April 2016. No additional alternative course of actions needed at this time.</td></tr>
<tr><td colspan="5">Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)</td></tr>
<tr><td colspan="5">Lifecycle Risk Triggers (Risk could be realized at any point of the project)</td></tr>
</table>

<table>
<tr><th rowspan="2">Risk Title</th><th rowspan="2">Unmitigated Risk Impacts</th><th colspan="2">Assessment</th><th rowspan="2">Comments</th></tr>
<tr><th>Month</th><th>Trend</th></tr>
<tr><td colspan="5">RL-0013/WBS-013</td></tr>
<tr><td>WSD-019: MLLW & TRU Treatment Impacts</td><td>MLLW & TRU treatment capacity/capability does not meet Hanford needs or treatment does not occur as scheduled, resulting in cost impacts.<br>Risk Handling Strategy: Accept<br><br>Probability: Very Low (<10%)<br>Worst Case Impacts: $10 million, 0 day</td><td>  </td><td>  </td><td>Risk Trigger Metric: Will continue throughout contract (September 30, 2018).<br><br>
<table>
<tr><th>Mitigation action(s)</th><th>FC Date</th><th>%</th></tr>
<tr><td>Leverage capability at PFNW to utilize their Low-Level Facility (LLF) for the receipt and processing of non-mixed TRU waste from CWC and PFP. The LLF has a separate radioactive material license (RML) from their Mixed Waste Facility (MWF); therefore, allowing additional quantities of NRC defined special nuclear material (SNM) to be received.</td><td>9/30/16</td><td>10</td></tr>
<tr><td>Established multiple treatment contracts for the processing of MLLW and TRU with terms extending to the end of the current CHPRC contract with RL (i.e., September 30, 2018).</td><td>On-Going</td><td>N/A</td></tr>
<tr><td>Continue to work with RL to fund the processing of TRU waste at PFNW at a rate in which keeps them viable (i.e., keeps the doors open).</td><td>On-Going</td><td>N/A</td></tr>
<tr><td>Work with RL and PFNW to increases the quantity of NRC defined special nuclear material (SNM) in PFNW’s Mixed Waste Facility (MWF). Their current limit is 200 grams of total Pu. The limit needs to be increased between 400 – 1,000 grams to allow for larger TRUM waste quantities to be received and processed at their MWF.</td><td>On-Going</td><td>N/A</td></tr>
</table>
<br>Mitigation Assessment:<br>Project continues to monitor the PFP situation and how it may affect other planned work for PFNW. The TRUM waste being generated from the PRF Canyon floor cleanout could affect the projects ability to have sufficient treatment capability/capability for the processing of Legacy TRUM waste for the remainder of FY2016 and all of FY2017 and FY2018.<br><br>Current alternative course of action:<br>To minimize potential impacts to PFP, the plan is to send the PRF Canyon Floor waste to CWC for interim storage, and then gradually ship the waste packages to PFNW for processing as license limits permit. However by doing this, RL13 will assume the regulatory risk associated with the waste (i.e., more stringent requirements under RCRA at CWC compared to under CERCLA at PFP); additionally, it will still load up PFNW with respect to their Pu limits for several years which will significantly limit the shipment of other Pu containing waste (i.e., legacy large container TRU/M waste) to PFNW for processing.</td></tr>
<tr><td colspan="5">High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)</td></tr>
<tr><td colspan="5">Lifecycle Risk Triggers (Risk could be realized at any point of the project)</td></tr>
<tr><td>WSD-097: Major Equipment Failure - T-Plant</td><td>T Plant suffers a major equipment failure (crane, primary power supply, etc.), resulting in cost impacts, and schedule delays.<br><br>Risk Handling Strategy: Accept<br><br>Probability: Low (10% to 25%)<br>Worst Case Impacts: $2M, 33 days</td><td>  </td><td>  </td><td>Risk Trigger Metric:<br>During planned S&M activities a suspect system component is discovered that requires attention, or an unexpected malfunction results in this risk from being realized. This risk will continue throughout the CHPRC (September 30, 2018).<br><br>
<table>
<tr><th>Mitigation action(s)</th><th>FC Date</th><th>%</th></tr>
<tr><td>None identified at this time.</td><td>N/A</td><td>N/A</td></tr>
</table>
<br>Mitigation Assessment:<br>The mitigation strategies have been put in place (i.e., aggressive S&M activities), as a result, the risk strategy is to accept with no further mitigation actions.<br>Work continues to repair/replace the Crane rail clip.<br>No alternative course of actions needed at this time.</td></tr>
</table>

<table>
<tr><th>Risk Title</th><th>Unmitigated Risk Impacts</th><th colspan="2">Assessment<br>Month | Trend</th><th>Comments</th></tr>
<tr><td colspan="5">RL-0013/WBS-013</td></tr>
<tr><td>WSD-136:CWC Components Fail</td><td>CWC facilities and components may reach their end of life or become obsolete. These items will need to be replaced and/or repaired outside of planned funding profiles, resulting in cost impacts.<br><br>Risk Handling Strategy: Accept<br><br>Probability: Medium (26% to 74%)<br>Worst Case Impacts: $1.5 million, 0 day</td><td>  </td><td>  </td><td>Risk Trigger Metric:<br>During planned S&M activities a suspect system component is discovered that requires attention, or an unexpected malfunction results in this risk from being realized. This risk will continue throughout the CHPRC (September 30, 2018).<br><br><table><tr><th>Mitigation action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>None identified at this time.</td><td>N/A</td><td>N/A</td></tr></table><br>Mitigation Assessment:<br>No changes in the month of January.<br>The mitigation strategies have been put in place (i.e., S&M activities), as a result, the risk strategy is to accept with no further mitigation actions. No alternative course of actions needed at this time.</td></tr>
<tr><td>WSD-137: OPP: Planned Efficiencies</td><td>Funding profile for the contract period are achieved through efficiencies.<br>Risk Handling Strategy: Exploit<br><br>Probability: Likely (75% to 90%)<br>Worst Case Impacts: $48 million, 0 day</td><td>  </td><td>  </td><td>Risk Trigger: Will continue throughout project lifecycle (September 30, 2018).<br><br><table><tr><th>Opportunity action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>Plan work activities and procurements to be as efficient as possible with minimal resources.</td><td>On-Going</td><td>N/A</td></tr></table><br>Opportunity Assessment:<br>No changes in the month of January.<br>The project is continuing implementation of planned efficiencies (approximately $50 million to date) and forecasts indicate that the efficiencies will continue through the contract period of performance. No foreseeable impacts in the near future, and no alternative course of actions needed at this time. However, emerging issues continue to place pressure on ability to achieve planned efficiencies.</td></tr>
<tr><td colspan="5">FY2016 Risk Triggers (Risk could be realized in FY2016)</td></tr>
<tr><td>WSD-W130-17: Changes in the final design are needed after the design is issued</td><td>Changes in the final design are needed after the design is issued. Changes are driven by unexpected conditions, additional reviews of the design media, or field conditions. Design changes result in cost impacts and schedule delays.<br><br>Risk Handling Strategy: Control<br><br>Probability: Medium (26% to 74%)<br>Worst Case Impacts: $650K, 144 days</td><td>  </td><td>  </td><td>Risk Trigger Metric:<br>Risk trigger will continue throughout project lifecycle.<br><br><table><tr><th>Mitigation action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>Maintain tight design configuration and change control.</td><td>9/30/16</td><td>30</td></tr><tr><td>Inform change requestors of change impacts and perform informal cost/benefit analysis to determine necessity of change.</td><td>9/30/16</td><td>30</td></tr><tr><td>Keep project team and regulators informed of status.</td><td>9/30/16</td><td>30</td></tr></table><br>Mitigation Assessment:<br>No change in the month of January.<br>Project is investigating potential communication between WESF and B Plant through opening in hot pipe trench. If investigations reveal communication between WESF and B Plant, design change may be necessary to prevent grout from entering B Plant. It is anticipated that investigations will be complete after the air permit is issued (March 31, 2016).<br>No alternative course of actions needed at this time.</td></tr>
<tr><td>WSD-W130-18: Failure of WESF Hot Cell during Grouting</td><td>There is a risk that the capacity of the floor or walls of the hot cells cannot sustain the applied loads from grout and fails. In addition, a failure to the cover blocks and or the canyon floor result in cost impacts, and schedule delays.<br><br>Risk Handling Strategy: Control<br><br>Probability: Medium (26% to 74%)<br>Worst Case Impacts: $650K, 144 days</td><td>  </td><td>  </td><td>Risk Trigger Metric:<br>Initiation of hot cell grouting.<br><br><table><tr><th>Mitigation action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>Compare actual grout fill volume with estimated value to determine if hot pipe trench has been filled.</td><td>9/30/16</td><td>0</td></tr><tr><td>Fill hot cells in 3 foot lifts to minimize sudden stress by allowing partial curing between lifts, as well as early detection of hot cell floor failure.</td><td>9/30/16</td><td>0</td></tr></table><br>Mitigation Assessment:<br>No change in the month of January.<br>Structural evaluations and calculations have been completed and identified controls necessary during grouting (limit lifts of grout placement to 3 feet, compare actual grout volume placed to calculate estimated volume).<br>No alternative course of actions needed at this time.</td></tr>
<tr><td colspan="5">Unassigned Risks (Pending ownership of identified risks/opportunities)</td></tr>
<tr><td colspan="5">No unassigned risks identified in the month of January.</td></tr>
</table>

# PROJECT BASELINE PERFORMANCE
## Current Month
## ($M)

| WBS 013/RL-0013 Waste and Fuels Management Project | Budgeted Cost of Work Scheduled | Budgeted Cost of Work Performed | Actual Cost of Work Performed | Schedule Variance ($) | Schedule Variance (%) | Cost Variance ($) | Cost Variance (%) |
|---|---|---|---|---|---|---|---|
| Total | 9.7 | 7.9 | 7.0 | (1.9) | -19.0% | 0.9 | 11.6% |

Numbers are rounded to the nearest $0.1 million

**CM Schedule Performance (-$1.9M/-19.0%)**

The current month unfavorable schedule variance is due to accelerated RH/Large Box Repack scope that has been completed in prior periods but planned in the current period.

**CM Cost Performance (+$0.9M/+11.6%)**

The current month favorable cost variance is due to implementation of planned efficiencies such as resource sharing of multiple scopes of work.

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

| WBS 013/RL-0013 Waste and Fuels Management Project | Budgeted Cost of Work Scheduled | Budgeted Cost of Work Performed | Actual Cost of Work Performed | Schedule Variance ($) | Schedule Variance (%) | Cost Variance ($) | Cost Variance (%) | Budget at Completion (BAC) | Estimate at Completion (EAC) | Variance at Completion (VAC) |
|---|---|---|---|---|---|---|---|---|---|---|
| Total | 1,016.6 | 1,015.9 | 954.4 | (0.6) | -0.1% | 61.6 | 6.1% | 1,324.6 | 1,254.9 | 69.7 |

Numbers are rounded to the nearest $0.1 million

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

The schedule variance is within threshold.

**CTD Cost Performance (+$61.6M/+6.1%)**

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

**Variance at Completion (+$69.7M/+5.3%)**

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

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

# FUNDS vs. SPEND FORECAST ($M)

| WBS 013/RL-0013 Waste and Fuels Management Project | FY2016 Projected Funding | FY2016 Spending Forecast | FY2016 Spend Variance |
|---|---|---|---|
| Expense – Spending Forecast | 106.6 | 86.4 | 20.2 |
| Expense – Non Contract Work | 0.0 | 18.4 | (18.4) |
| RL-0013 – Total | 106.6 | 104.8 | 1.8 |

Numbers are rounded to the nearest $0.1 million.

**Funds/Variance Analysis**
FY2016 project funding for RL-0013 was decreased from $109.6 million to $106.6 million due to RL direction and CHPRC funding re-rack. The FYSF was decreased from $107.3 million to $104.8 million by adjusting the forecast FTEs downward to reflect the sustained efficiencies anticipated for the remainder of the fiscal year.

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

**Baseline Change Requests**
BCR-013-16-014R0, *Definitization of CO #278, Procure DOE Type 7A Large Shipping Container (Super 7A)*
BCR-013-16-015R0, *Definitization of CO #280, CWC Emergency Lighting*
BCR-PRC-16-023R0, *Undistributed Budget Adjustments January 2016*
BCR-PRC-16-024R0, *Low Level Contamination Sample Analysis Budget Resource Change*
BCR-PRC-16-025R0, *Revise FY2017 and FY2018 G&A Rates*

# MILESTONE STATUS

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

| Number | Title | Due Date | Actual Date | Forecast Date | Status/ Comment |
|---|---|---|---|---|---|
| M-091-44Z-006 | Annual PMM or Quarterly Notification of Cert of CH/RH TRUM. | 12/31/15 | 12/10/15 | -- | Completed |

| Number | Title | Due Date | Actual Date | Forecast Date | Status/ Comment |
|---|---|---|---|---|---|
| C-026-07J | Tritium Treatment Technology Development to Ecology and EPA | 3/31/16 | | 3/31/16 | On Schedule |
| M-091-03J | Submit Revision of TRUM Waste and MLLW PMP to Ecology. | 6/30/16 | | 6/30/16 | On Schedule |
| M-091-01A | Complete Conceptual Design for RH TRUM and TRUM Facilities and Change Package. | 9/30/16 | | -- | To Be Missed – realignment of select M-091 milestones deletes this milestone. |
| M-091-040 | Complete retrieval and designation of CH RSW in Burial grounds 218-W-4B, W-3A, and E-12B | 9/30/16 | | -- | To Be Missed – realignment of select M-091 milestones deletes this milestone. |
| M-091-41A | Complete retrieval of non-caisson RH RSW. | 9/30/16 | | -- | To Be Missed – realignment of select M-091 milestones deletes this milestone. |
| M-091-44Q | Certify 300 cubic meters large container CH TRUM and/or RH TRUM Waste. | 9/30/16 | 5/26/11 | -- | Completed |
| M-091-46F | Certify 250 cubic meters of small container CH TRUM waste. | 9/30/16 | | -- | To Be Missed – realignment of select M-091 milestones deletes this milestone. |
| P-091-47B | Certify or treat 280 cubic meters of TRUM/MLLW waste in FY2016. | 9/30/16 | | 9/30/16 | On Schedule |
| P-091-51 | Submit secondary document for new or modified facilities to process all Hanford Site RH TRUM waste. | 9/30/16 | | 9/30/16 | On Schedule |
| M-091-44Z-007 | Annual PMM or Quarterly Notification of Cert of CH/RH TRUM. | 12/31/16 | | 12/31/16 | On Schedule |

# SELF-PERFORMED WORK

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

# GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

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

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

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

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

January 2016
CHPRC-2016-01, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

# PROJECT SUMMARY

P&T Operations continued making progress on the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) remedial process documentation for the RCCC. 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) | | Uranium (kg) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CM | FYTD | CM | FYTD | CM | FYTD | CM | FYTD | CM | FYTD | CM | FYTD |
| DX P&T | 33.1 | 134.0 | 5.9 | 27.2 | | | | | | | | |
| HX P&T | 19.0 | 76.6 | 2.1 | 8.9 | | | | | | | | |
| KR-4 P&T | 11.2 | 51.8 | 0.2 | 1.2 | | | | | | | | |
| KW P&T | 14.5 | 58.0 | 0.8 | 3.4 | | | | | | | | |
| KX P&T | 36.9 | 143.3 | 2.2 | 9.0 | | | | | | | | |
| 200 West P&T | 75.8 | 329.9 | 5.7 | 25.0 | 154 | 776 | 8538 | 30321 | $.28x10^{12}$ | $1.06x10^{12}$ | 2.7 | 8.5 |
| **Combined** | **190.5** | **793.7** | **16.9** | **74.7** | **154** | **776** | **8538** | **30321** | **$.28x10^{12}$** | **$1.06x10^{12}$** | **2.7** | **8.5** |

| Well Drilling by Area | FY2016 Planned | January | FY2016 Cumulative |
|---|---|---|---|
| 100-KR-4 | 3 | - | - |
| 100-HR-3 | 8 | - | - |
| 200-UP-1 | 4 | - | - |
| 200-UP-1 Chromium Plume | 3 | - | - |
| 200-ZP-1 C9521 | 1 | - | - |
| 200-ZP-1 monitoring | 2 | - | 1 |
| M-24 Milestone 100-NR-2 | 6 | - | - |
| M-24 Milestone C Farm | 1 | - | - |
| Vadose Zone | 1 | - | - |
| 100 F I/U | 8 | - | - |
| **Total Wells** | **37** | **-** | **1** |

# EMS Objectives and Target Status

| Objective | Target | Actions | Due Date | Status | Overall Target Status |
|---|---|---|---|---|---|
| 16-EMS-SGWR-OB1 Monitor and confirm low carbon tetrachloride emissions at the 200 West P&T Facility | T1 – Evaluate treated off gas analytical results from compliance sampling and process sampling each quarter. | Compile 1st quarter emissions evaluation. | 12/31/15 | 100% | 33% |
| | | Compile 2nd quarter emissions evaluation. | 3/31/16 | 33% | |
| | | Compile 3rd quarter emissions evaluation. | 6/30/16 | 0% | |
| | | Compile 4th quarter emissions evaluation and complete work site assessment on FY2016 emissions. | 9/30/16 | 0% | |
| 16-EMS-SGWR-OB2 More effective promotion of EMS | T1 – Promote and increase S&GRP project personnel EMS awareness via various means throughout FY2016. | Present four EMS topics to S&GRP personnel, typically during the S&GRP Monday Tailgate, S&GRP Supervisors' Meeting, or S&GRP All-Hands Meeting. | 9/30/16 | 25% | 25% |
| 16-EMS-SGWR-OB3 Promote a more thorough understanding of the regulatory umbrella under which S&GRP conducts operations. | T1 – Promote and increase S&GRP project personnel environmental regulatory awareness via various means, targeting small group settings, throughout FY2016. | Facilitate four regulatory related discussions based on such topical areas as RCRA Permit, CERCLA Decision Documents, Waste Management, Air Permit, etc. These discussions would typically be targeted at smaller S&GRP group settings such as staff meetings, department meetings, PODs, etc. | 9/30/16 | 25% | 25% |
| 16-EMS-SGWR-OB4 Reduce the risk of noncompliance with environmental requirements. | T1 – Develop compliance matrices for S&GRP P&T facilities CERCLA RD/RAWPs. | Identify implementing mechanisms and gaps for environmental requirements (i.e., requirement matrices) for the following RD/RAWPs: DOE/RL-96-84, Revision 0 and 0-A, DOE/RL-2006-52, DOE/RL-2006-75, and DOE/RL-2008-78. | 9/30/16 | 0% | 0% |

# TARGET ZERO PERFORMANCE

| | CM Quantity | Rolling 12 Month | Comment |
|---|---|---|---|
| **Days Away, Restricted or Transferred** | 0 | 1 | N/A |
| **Total Recordable Injuries** | 0 | 2 | N/A |
| **First Aid Cases** | 4 | 45* | • 1/4/2016 – Employee inadvertently struck head just above the eye on the edge of a table causing a minor contusion. They were given a bag of ice for swelling at HPMC and returned to work without restriction. (23907)<br>• 1/18/2016 – Employee noticed an abnormal odor when walking through 200W P&T chemical room. They were taken to HPMC for examination and returned to work without restriction. (23916)<br>• 1/19/2016 – Employee reported that knee was sore at the end of work day and discovered the knee was swollen the next morning. (23918)<br>• 1/26/2016 – Employee tripped on a piece of plywood that was covered in plastic and landed on their knee and hand. They were taken to HPMC for examination and released to work. (23925)<br><br>*13 FA cases, PTS in support of RL-0030. |
| **Near-Misses** | | 2 | N/A |

# KEY ACCOMPLISHMENTS

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

**Risk & Modeling Integration**

- At a modeling workshop held with Ecology, EPA, RL and ORP on January 20, 2016, Ecology agreed to resume review of the 200-BP-5 remedial investigation report and the 200-PO-1 remedial investigation addendum. Ecology suspended review of these reports over objections concerning the use of the Tank Closure & Waste Management EIS models and their use in CERCLA investigations. Ecology staff were under the impression that long-term groundwater impacts from tank farms were to be addressed in these CERCLA documents. ORP clarified that these would rather be addressed in the TPA Appendix 1 Performance Assessments. The scope of the RI documents is to address current and emerging groundwater contamination in the groundwater operable units.

**RL-0030.O1 RL 30 Operations**
**River Corridor**

**100-BC-5 Operable Unit**

- Completed the 2-year remedial investigation groundwater sampling on January 12, 2016. This

completes the requirements for TPA Milestone M-015-78.

- Performed the following key activities as part of the RI/FS:
  - Completed re-calculation for hexavalent chromium water quality specific to ecological aquatic standards relative to the Hanford Reach.
  - Updated plume maps for contaminants of potential concern.
  - Completed evaluation of human health direct contact for contaminants of potential concern for the waste sites.
  - Completed soil-screening-level and preliminary remedial goals for the waste sites.

**100-FR-3 Operable Unit**

- Awarded well pad and access road installation contract on January 21, 2016, in preparation for the installation of eight remedial action monitoring wells.

**100-HR-3 Operable Unit**

- Provided the revised FY2016 P&T optimization work scope to RL on January 28, 2016.
- Completed submittal of revised cultural review requests for planned 2016 well realignment activities.

**100-KR-4 Operable Unit**

- Presented the soil and groundwater contamination results from the borings in the vicinity of 105-KE Reactor to RL.
- Provided the revised FY2016 P&T optimization work scope to RL on January 28, 2016.
- Completed submittal of revised cultural review requests for planned 2016 well realignment activities.

**100-NR-2 Operable Unit**

- Provided preliminary responses to Ecology comments on the interim RD/RAWP, O&M plan, and SAP to RL.

**Central Plateau**

**200-BP-5 and 200-PO-1 Operable Units**

- Resolved Ecology comments on the 200-BP-5 EE/CA on January 20, 2016.
- Completed an initial draft of the 200-BP-5 Treatability Test Report for internal review.

**200-UP-1 Operable Unit**

- Transmitted a letter documenting the completion of TPA Milestone M-16-191 (initiate of startup operations for the U Plant area P&T system (Uranium/Tc-99), and the I-129 hydraulic containment system) to RL January 11, 2016.
- Initiated the drilling of groundwater monitoring well 299-W19-116 near U Plant on January 13, 2016, for the uranium/Tc-99 plume (1 of 4 wells).

**200-IS-1 Operable Unit**

- Initiated 37 new waste site scoping summaries; re-prioritized production based on proximity to U Plant and PFP.
- Resolved informal Ecology comments on Chapter 1 and related Chapter 5 text and initiated discussions on Chapter 2 on January 25, 2016.

**200-DV-1**

- Completed sonic drilling at boreholes C9550 and C9549. Electrodes are in the process of being installed as these boreholes are grouted.

**Groundwater P&T Facilities**
**200 West P&T**

- Operated the 200 West P&T an average of 1,699 gpm.

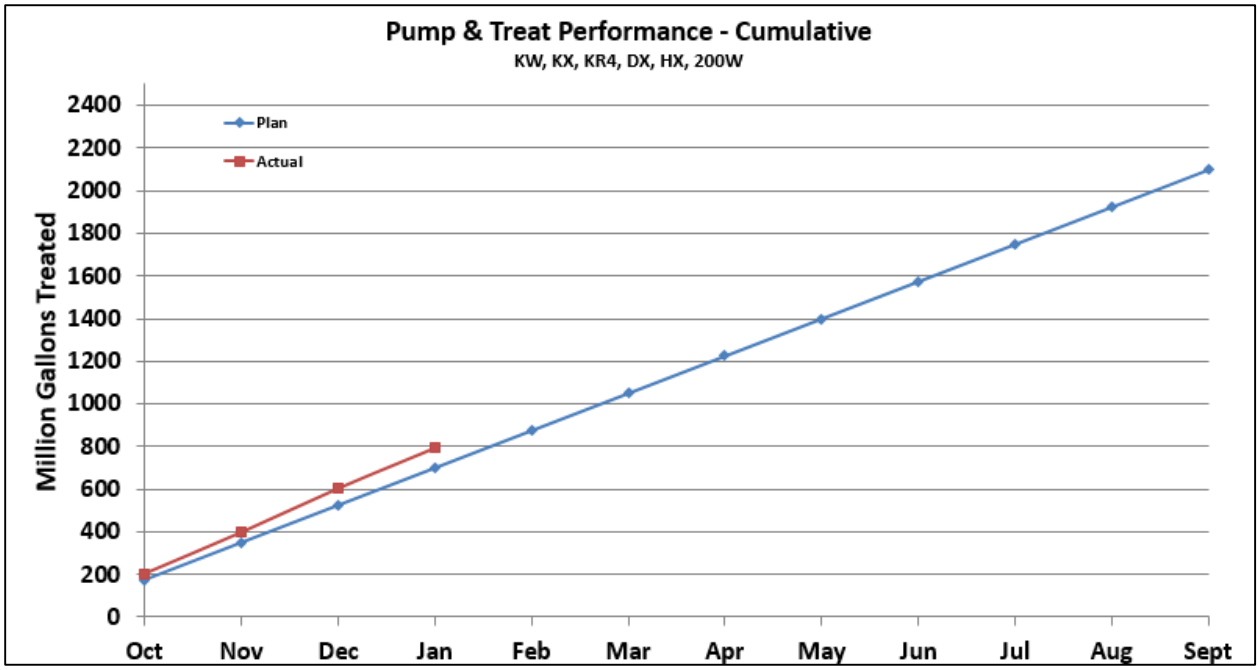
**100 Area P&Ts**

- Operated the DX P&T at 741 gpm, near the facility capacity of 775 gpm.
- Operated the KR-4 P&T at 250 gpm, near the facility capacity of 330 gpm.
- Operated the KW P&T at325 gpm, at the facility capacity of 330 gpm.
- Operated the KX P&T at 827 gpm, near the facility capacity of 900 gpm.
- Operated the HX P&T at maximum extraction well capacity. Monthly average at approximately 426 gpm.

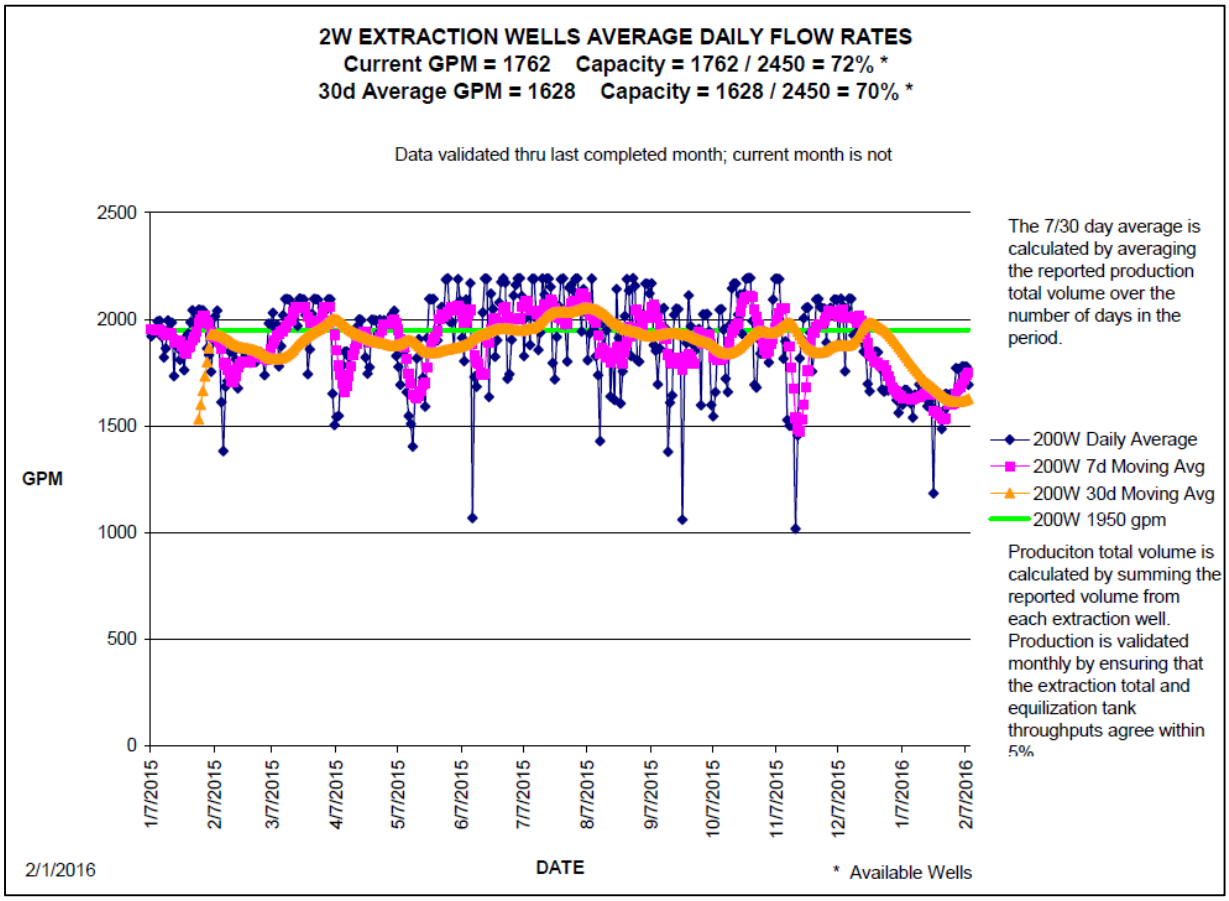
**Perched Water (200-DV-1)**

- The perched water system has been shut down since August 2015. The existing well has been modified and two new perched water removal stations have been installed. Operational Acceptance Testing (OAT) is on-going.

**FY2016 P&T Operations**



**200 West P&T**




# MAJOR ISSUES

**Issue**:
Field work has been delayed due to the Section 106 Cultural Resource Review (CRR) and approval process for work within the TCP. This issue originally impacted performance of the 100-NR-2 apatite barrier in FY2014, and later the installation of the six M-24 milestone monitoring wells and D&D of the P&T facility in FY2015. Notified by MSA on November 19, 2015, that some of the proposed scope associated with the FY2016 P&T Optimization Plan is within the boundaries of the TCP and will be impacted.

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

**Status**:
The MOA for drilling 6 new monitoring wells has been approved. The project is working with RL to implement the associated mitigation measures. The MOA for D&D of the 100-NR-2 P&T facility is pending final approval. For the 100-HR-3 and 100-KR-4 OUs, the FY2016 P&T optimization scope was revised to only include the activities that occur outside of the TCP. Meetings have been set up by RL with the Tribes to address the scope inside the TCP.

**Issue:**
Experiencing regulatory agency delays in the approval of decision documents, including the legal reviews of the 100-D/H Proposed Plan (DOE/RL-2011-111), extended comment resolution on the 100-N RI/FS Report (DOE/RL-2012-15, Draft A), Ecology approval of the 200-IS-1 Tri-Party Agreement change packages (C-013-01 and C-014-02), which affect the 200-IS-1 RI/FS Work Plan (DOE/RL-2010-114) scope definition, and Ecology review of the Draft A 200-BP-5 RI/200-PO-1 RI Addendum.

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

**Status:**
Delays in completion of the decision documents are reported weekly to RL management and monthly to RL, EPA, and Ecology senior management. Specific document status includes:

- 100-HR-3: Resolution of EPA legal comments on the proposed plan (PP) continues. It is likely that issuance of the PP for public comment will be delayed several months due to EPA request to evaluate several waste sites that were remediated after completion of the RI/FS in the PP.
- 100-NR-2: The regular weekly comment resolution meetings with Ecology on the RI/FS were not held in January due to regulator staff availability. The next meeting is scheduled for February 8, 2016.
- 200-IS-1: Ecology continues to review change package C-13-01, which was provided to them on December 19, 2015.
- 200-BP-5 and 200-PO-1: Ecology suspended review of the 20-BP-5 and 200-PO-2 remedial investigation reports (letter 15-NWP-189, dated October 23, 2015). The issue deals with the role of the Tank Closure & Waste Management EIS models and its use in CERCLA investigations. A workshop was held with Ecology on January 20, 2016 where Ecology stated they would resume their review. Subsequently, Ecology stated that they are preparing a letter that will identify stipulations for the successful completion of the review.

# RISK MANAGEMENT STATUS

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

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

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

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

Increased Confidence

No Change

Decreased Confidence

| Risk Title | Unmitigated Risk Impacts | Assessment | | Comments |
|---|---|---|---|---|
| | | Month | Trend | |
| **RL-0030/WBS-030** | | | | |
| **Explanation of major changes to the project monthly stoplight chart:** No major changes to the risk stoplight chart in the month of January | | | | |
| **Realized Risks** (Risks that are currently impacting project cost/schedule) | | | | |
| OPPORTUNITY: SGW-007A: Sampling Requirement Reduction | Reduction in field sampling (locations, frequency, or total number of samples collected) has the opportunity to reduce cost.<br>**Risk Handling Strategy:** Exploit<br><br>**Probability:** Medium (26% to 74%)<br><br>**Worst Case Impacts:** $3 million, 0 day |  |  | **Opportunity Event:**<br>The *Optimization Plan to Revise the Groundwater Sampling Plan* is final and provides the roadmap to revise all groundwater SAPs over the next two years.<br><br>**Opportunity action(s)** / **FC Date** / **%**<br>Develop schedule for completing RL Panel Review on the SAPs. / Complete / 100<br>Obtain RL approval of the revised SAP. / Complete / 100<br>Obtain Agency approval of the revised SAPs. / 9/30/16 / 50<br><br>**Opportunity Assessment:**<br>All ten CERCLA groundwater monitoring SAPs have been revised and transmitted to RL. Five of the ten CERCLA SAPs have been approved by the Agencies and the revised monitoring program implemented. Comment resolution with the Agencies is on-going for two CERCLA SAPs (100-HR-3, and 100-NR-2). It is expected that these SAPs will be finalized within the next couple of months. The 100-NR-2 SAP is with RL for transmittal to the Agencies. Ecology suspended review of the 200-BP-5 and 200-PO-1 SAPs pending resolution of the RI reports. This issue is being addressed by senior management and a projected completion date for these two SAPs is not available at this time.<br><br>All 24 RCRA monitoring plans have been revised and transmitted to RL. Thirteen of the RCRA monitoring plans are complete. Eight of the RCRA monitoring plans are in Ecology review. Resolution of Ecology comments is on-going for the remaining three RCRA groundwater monitoring plans. Finalization of the revised RCRA monitoring plans is dependent upon Ecology's review schedule.<br><br>No alternative course of actions are needed at this time. |

<table>
<tr><th>Risk Title</th><th>Unmitigated Risk Impacts</th><th colspan="2">Assessment<br>Month | Trend</th><th>Comments</th></tr>
<tr><td colspan="5">RL-0030/WBS-030</td></tr>
<tr><td>PRC-005: Delayed Document Approvals</td><td>Required regulatory, nuclear safety, or transportation safety documents are not approved within the scheduled timeframes and impact CHPRC scheduled activities.<br>Risk Handling Strategy: Transfer<br><br>Probability: Very Likely (>90%)<br><br>Worst Case Impacts: TBD</td><td>  </td><td>  </td><td>Risk Event:<br>Progress on several key decision documents have been delayed due to regulator comments and resource availability:<br>a) 100-D/H PP: Ecology’s comments on the draft Revision 0 100-D/H PP were not received within 30 days of transmittal (September 2014). As a result, it is not possible to complete the document within the timeframe identified in the TPA without extensions.<br>b) 100-N RI/FS: Ecology comments on the Draft A 100-N RI/FS and PP were not received within 45 days of transmittal (June 2013). As a result, it is not possible to complete the document within the timeframe identified in the TPA without extensions.<br>c) 200-IS-1 RI/FS Work Plan (WP): RL invoked dispute resolution on December 10, 2013, for Tri-Party Agreement milestone M-015-112, Submit Draft B 200-IS-1 OU RI/FS WP. Resolution of this dispute, which includes the 200-IS-1 OU waste sites and TSD/past practice status, is required before the Draft B RI/FS WP can be submitted.<br>d) 200-BP-5/PO-1 RI: On October 23, 2015, Ecology submitted a letter that suspended their review of the Draft A 200-BP-5 RI report and Draft A 200-PO-1 RI report addendum due to issues related to fate and transport modeling.<br><br>
<table>
<tr><th>Risk recovery action(s)</th><th>Risk Date</th><th>FC Date</th><th>%</th></tr>
<tr><td>Resolution with Ecology/EPA on Draft Revision 0 100-D/H PP.</td><td>Sept 2014</td><td>Ongoing</td><td>N/A</td></tr>
<tr><td>Resolution with Ecology on Draft A 100-N RI/FS Report.</td><td>June 2013</td><td>Ongoing</td><td>N/A</td></tr>
<tr><td>Complete waste site scope definition and dispute resolution with Ecology on Draft B 200-IS-1 RI/FS.</td><td>Dec 2013</td><td>2/29/16</td><td>N/A</td></tr>
<tr><td>Resolution with Ecology on the Draft A 200-BP-5/200-PO-1 RI Report</td><td>Oct 2015</td><td>Ongoing</td><td>N/A</td></tr>
</table>
<br>Risk Assessment:<br>a) 100-D/H PP: Three comment resolution meetings were held in January with EPA, Ecology and RL. The completion date is dependent upon resolution of EPA’s and Ecology’s legal comments.<br>b) 100-N RI/FS: No comment resolution meetings occurred during January due to Ecology’s staff availability. The current document extension is to March 31, 2016 (15-NWP-225).<br>c) 200-IS-1 RI/FS WP: Ecology continues to review the revised change package C-13-01, which was submitted to Ecology on December 19, 2015. The dispute resolution period has been extended to February 29, 2016.<br>d) 200-BP-5/200-PO-1 RI: A meeting was held with Ecology on January 20, 2016, to resolve issues related to fate and transport modeling. Ecology will identify stipulations before resuming review of the RI report.</td></tr>
<tr><td colspan="5">Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)</td></tr>
<tr><td colspan="5">No critical risks identified in the month of January.</td></tr>
<tr><td colspan="5">High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)</td></tr>
<tr><td colspan="5">No high risks identified in the month of January.</td></tr>
<tr><td colspan="5">Unassigned Risks (Pending ownership of identified risks/opportunities)</td></tr>
<tr><td colspan="5">No unassigned risks identified in the month of January.</td></tr>
</table>

# 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 | 12.0 | 9.6 | 8.4 | (2.5) | -20.4% | 1.2 | 12.4% |

Numbers are rounded to the nearest $0.1 million.

**CM Schedule Performance (-$2.5M/-20.4%)**

The negative schedule variance resulted from the following:

- Drilling campaigns at 200-ZP-1 and 100-NR-2 (M-24 wells) were initiated ahead of schedule. The scope of work planned for January was completed in prior months.
- The 100-HR-3 PP review process being delayed effected the RD/RAWP that was planned in January.
- Negative SV was experienced due to unexpected radiological levels encountered at both the BY Cribs and TW-1/2 areas at depths greater than planned and experiencing broken casings in two boreholes.

**CM Cost Performance (+$1.2M/+12.4%)**

The positive cost variance resulted from the following:

- Continuing to experience efficiencies in the Groundwater Monitoring and Performance Assessment account associated with the use of lower analytical laboratory costs due to the use of offsite laboratories and lower geophysical logging costs during well drilling due to the competitive procurement process.

## 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 | 1,193.9 | 1,182.4 | 1,161.4 | (11.5) | -1.0% | 21.0 | 1.8% | 1,555.0 | 1,518.0 | 37.0 |

Numbers are rounded to the nearest $0.1 million.

**CTD Schedule Performance (-$11.5M/-1.0%)**

The variance is within reporting thresholds.

**CTD Cost Performance (+$21.0M/+1.8%)**

The variance is within reporting thresholds.

**Variance at Completion (+$37.0/+2.4%)**

The variance is within reporting thresholds.

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

# FUNDS vs. SPEND FORECAST ($M)

| RL-0030 Soil and Groundwater Remediation | FY2016 Projected Funding | FY2016 Spending Forecast | FY2016 Spend Variance |
|---|---|---|---|
| Expense – Spending Forecast | 124.3 | 119.1 | 5.3 |
| Expense – Non Contract Work | 0.0 | 4.9 | (4.9) |
| RL-0030 –Total | 124.3 | 124.0 | 0.3 |

Numbers are rounded to the nearest $0.1 million

**Funds/Variance Analysis**
FY2016 expected funding was reduced in January from $509.3M to $505.3M per RL letter 16-BUD-0007, FY2016 Initial Budget Guidance and Spend Plan Call, dated January 25, 2016. This included reductions for Shelby Office Supplies, Penser worker's compensation administration, Wastren Advantage Inc., and prior year funds advance. As a result, RL-0030 project funding was revised from $126.1 million to $124.3 million for FY2016. The FYSF of $124.0 million includes actions anticipated to achieve funding targets.

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

**Baseline Change Requests**
BCR-030-16-018R0, *CO #303 100-BC-5 Automated Water Level Network*
BCR-PRC-16-023R0, *Undistributed Budget Adjustments January 2016*
BCR-PRC-16-024R0, *Low Level Contamination Sample Analysis Budget Resource Change*
BCR-PRC-16-025R0, *Revise G&A Rates for FY2017 and FY2018*

# MILESTONE STATUS

Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) milestones represent significant achievements in project execution. Enforceable Tri-Party Agreement milestones were established to provide high-level visibility to critical deliverables and specific status on the accomplishment of these key activities. The PMB Annual Update, implemented in September 2013, and subsequent approved BCRs define CHPRC planning with respect to Tri-Party Agreement milestones. A Tentative Agreement for Tri-Party Agreement Milestone series M-015, M-016, M-037, M-085 and M-094 was signed on October 26, 2015. This agreement is in public review through February 12, 2016 (extended from December 11, 2015). The following table is a one year look ahead of RL-0030 Tri-Party Agreement enforceable milestones, non-enforceable target due dates and commitments.

| Number | Title | Due Date | Actual Date | Forecast Date | Status/ Comment |
|---|---|---|---|---|---|
| **Complete Milestones** | | | | | |
| M-015-78 | Complete two years of groundwater and aquifer tube sampling at the 100-BC expanded monitoring network in accordance with the revised 100-BC-1,2 and 5 RI/FS Work Plan/SAP | 2/28/16 | 1/12/16 | | Complete; preparation of transmittal letter is underway |
| **Milestones in Dispute** | | | | | |
| M-015-112 | Submit Draft B, 200-IS-1 Operable Unit Pipeline System Waste Sites RFI/CMS/RI/FS Work Plan to Ecology | 2/28/14 | | TBD | Dispute resolution extended to February 29, 2016 (TPA change control form M-15-13-02) |
| **Milestones Included in Tentative Agreement** | | | | | |
| M-015-21A | Submit 200-BP-5 & 200-PO-1 OU FS Report and PP(s) to Ecology | 6/30/15 | | 9/30/16 | Proposed due date is 6/30/2018 |
| M-015-92A | Submit RFI/CMS & RI/FS Work Plan for 200-EA-1 OU to Ecology | 6/30/15 | | 9/30/17 | Proposed due date is 9/30/2017 |
| M-015-110B | Submit CMS & FS & PP/Proposed CA Decision for 200-DV-1 OU to Ecology | 9/30/15 | | 6/24/19 | Proposed due date is 9/30/2023 |
| M-015-91B | Submit FS Report and PP for 200-WA-1 to EPA | 12/31/15 | | 4/30/17 | Proposed due date is 7/31/2021 |
| M-015-38B | Submit Revised FS Report and PP for CW-1, CW-3, & OA-1 to EPA | 10/30/15 | | 6/10/19 | Proposed due date is 7/31/2023 |
| **Milestones on Schedule** | | | | | |
| M-091-40L-049 | Submit Oct. to Dec. 1st Quarter FY2016 Burial Ground Sample Results. | Deleted | | - | Removed via TPA change control form M-91-15-01 signed by the Tri-Parties January 11, 2016 |
| M-024-58I | Initiate Discussions of Well Commitments | 6/1/16 | | 6/1/16 | On schedule |
| M-091-40L-050 | Submit Jan to March 2nd Quarter FY2016 Burial Ground Sample Results. | Deleted | | - | Removed via TPA change control form M-91-15-01 signed by the Tri-Parties January 11, 2016 |
| M-024-67-T01 | Conclude Discussions of Well Commitments | 8/1/16 | | 8/1/16 | On schedule |

| Number | Title | Due Date | Actual Date | Forecast Date | Status/ Comment |
|---|---|---|---|---|---|
| M-091-40L-051 | Submit Apr to Jun 3rd Quarter FY2016 Burial Ground Sample Results. | Deleted | | - | Removed via TPA change control form M-91-15-01 signed by the Tri-Parties January 11, 2016. |
| M-015-79 | Submit RI/FS Report/PP for 100-BC-1/2/5 OUs for GW & Soil | 12/15/16 | | 12/15/16 | On schedule |
| M-091-40L-052 | Submit July to September 4th Quarter FY2016 Burial Ground Sample Results | Deleted | | - | Removed via TPA change control form M-91-15-01 signed by the Tri-Parties January 11, 2016. |
| M-016-110-T03 | Contain the Strontium-90 GW plume at the 100-NR-2 OU | 12/31/16 | | 9/19/19 | Unable to accomplish work due to TCP |
| M-016-110-T04 | Implement Remedial Actions in all 100A RODs for GW OUs | 12/31/16 | | 8/24/16 | On schedule. Preparing NOC for potential impacts due to TCP |
| M-024-67 | DOE Shall Complete Construction of all Wells Listed | 12/31/16 | | 8/1/16 | On schedule |

## SELF-PERFORMED WORK

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

## GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.

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

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

January 2016
CHPRC-2016-01, 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 completed the Treatment, Storage, and Disposal (TSD) Annual Site Surveillances on the 600 and 1100 Areas and completed replacement of the B-Plant Stack exhaust bearing EF-102. The project also submitted the 224-B DSA to RL ahead of schedule and commenced the DSA for REDOX, Revision 6.

## 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 | 2 | N/A |
| **Near-Misses** | 0 | 0 | N/A |

# KEY ACCOMPLISHMENTS

- Operations/Maintenance:
  - Completed TSD Annual Site Surveillances on the 600 and 1100 Areas.
  - Completed replacement of B Plant Stack exhaust bearing EF-102.
  - Completed Post Jobs for CX-70, 71, 72 and 224-T Annual Surveillance.
  - Performed Beryllium Verification Sampling of 2710-S, 2711-S and 2718-S.
  - Supported Central Environmental Protection Inspections of Universal Waste.
  - Received RAD Detection Equipment (Truck & Off-road Vehicle).
  - Completed Support of Annual Emergency Planning and Community Right to Know Act (EPCRA) Certification/Chemical Management CPS&M Operations Support.
- Completed:
  - 48 radiological facility surveillances.
  - 23 PM activities.
- Nuclear Safety:
  - Submitted 224-B DSA to RL (ahead of schedule).
  - Internally approved PUREX, Revision 9 DSA.
  - Completed 90 percent Implementation Validation Review (IVR) for PUREX, Revision 8.
  - Commenced DSA for REDOX, Revision 6.
  - Commenced B-Plant Hazard Categorization.

- 207A South Retention Basin Closure:
  - Awaiting Final Permit Modification and RL direction to backfill.
- Continued Progress on Canyon Stabilization Documents:
  - Incorporated closure plan comments and finalized B-Plant Iso-Chem Tank for Ecology review.
  - Submitted draft B-Plant Engineering Evaluation Cost Analysis (EE/CA) for internal review.
- Demolish REDOX Ancillary Facilities
  - Continued the planning for the demolition of high risk facilities at REDOX including 2710S, 2711S, and 2718S.

## MAJOR ISSUES

None currently identified.

## RISK MANAGEMENT STATUS

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

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

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

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

Increased Confidence
No Change
Decreased Confidence

| Risk Title | Unmitigated Risk Impacts | Assessment | | Comments |
|---|---|---|---|---|
| | | Month | Trend | |
| **RL-0040/WBS-040** | | | | |
| **Explanation of major changes to the project monthly stoplight chart:** No major changes to the monthly stoplight chart in the month of January | | | | |
| **Realized Risks** (Risks that are currently impacting project cost/schedule) | | | | |
| No realized risks for the month of January | | | | |
| **Critical Risks** (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed) | | | | |
| No critical risks identified in the month of January | | | | |
| **High Risk Threat Value** (Recoverable slip to enforceable or incentivized milestone) | | | | |
| **Lifecycle Risk Triggers** (Risk could be realized at any point of the project) | | | | |
| D4-064: Aging Building Systems/ Components | Problems with aging building systems/ components (e.g., roofing/structures, etc.) result in inoperability or requires unscheduled maintenance/ outages, resulting in cost impacts.<br><br>**Risk Handling Strategy:** Accept<br><br>**Probability:** Likely (75% to 90%)<br>**Worst Case Impacts:** $2 million, 0 day |  |  | **Risk Trigger Metric:**<br>During routine surveillance activities unforeseen events cause systems to be compromised. This is a lifecycle risk and will continue through the CHPRC (September 30, 2018).<br><br>**Mitigation action(s)** / **FC Date** / **%**<br>None identified at this time. / N/A / N/A<br><br>**Mitigation Assessment:**<br>No changes in the month of January.<br>The mitigation strategies have been put in place (i.e., continuous surveillance activities for high risk areas), as a result, the risk strategy is to accept with no further mitigation actions or alternate course of actions identified at this time. |
| **Unassigned Risks** (Pending ownership of identified risks/opportunities) | | | | |
| No unassigned risks identified in the month of January | | | | |

# PROJECT BASELINE PERFORMANCE
## Current Month
## ($M)

| WBS 040/ RL-0040 Nuclear Facility D&D | Budgeted Cost of Work Scheduled | Budgeted Cost of Work Performed | Actual Cost of Work Performed | Schedule Variance ($) | Schedule Variance (%) | Cost Variance ($) | Cost Variance (%) |
|---|---|---|---|---|---|---|---|
| Total | 2.2 | 1.4 | 1.2 | (0.8) | -36.6% | 0.2 | 12.6% |

Numbers are rounded to the nearest $0.1 million

**CM Schedule Performance: (-$0.8M/-36.6%)**
The current month unfavorable schedule variance is primarily due to a delay in the procurement of Rad Detection Equipment needed for Rad detection surveillance on inactive waste sites. The equipment was baselined to arrive in January. However, the contract was re-issued to obtain a vendor in closer proximity to the Hanford site ($0.5 million). The equipment will arrive in April. In addition, training and planning associated with an activity to increase frequency of PMs was expected to begin in January but delayed due to lack of resources ($0.15 million). The remaining schedule variance is comprised of various planning packages for REDOX Pu Bag Removal and Increased Planning Capability being behind schedule due to a lack of resources ($0.1 million) and a delay in electrical circuit verifications required due to the need to train and qualify the Field Work Supervisors (FWS) ($0.05 million).

**CM Cost Performance: (+$0.2M/+12.6%)**
The cost variance is within reporting thresholds.

## Contract-To-Date
## ($M)

| WBS 040/ RL-0040 Nuclear Facility D&D | Budgeted Cost of Work Scheduled | Budgeted Cost of Work Performed | Actual Cost of Work Performed | Schedule Variance ($) | Schedule Variance (%) | Cost Variance ($) | Cost Variance (%) | Budget at Completion (BAC) | Estimate at Completion (EAC) | Variance at Completion (VAC) |
|---|---|---|---|---|---|---|---|---|---|---|
| Total | 408.3 | 407.3 | 375.6 | (1.0) | -0.2% | 31.8 | 7.8% | 469.1 | 436.1 | 32.9 |

Numbers are rounded to the nearest $0.1 million

**CTD Schedule Performance: (-$1.0M/-0.2%)**
The schedule variance is within reporting thresholds.

**CTD Cost Performance: (+31.8M/+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), efficiencies with Arid Lands Ecology (ALE) ($3.7 million) and North Slope Facilities ($1.2 million), disposition of railcars D&D ($2.1 million), and Industrial 7 Project ($3.6 million). This is offset by increased material and equipment costs, unexpected asbestos levels, and schedule delays in other ARRA D4 Projects (-$15.3 million). Efficiencies in Outer Area Waste Sites ($6.7 million) are primarily due to Remove, Treat, and Dispose (RTD) O-Zone Waste Sites, and ERDF passback, which includes the operational efficiencies associated with use of the super dump truck. In addition, under runs in overhead allocation and Usage Based Services ($7.4 million) contributed to the favorable cost variance.
- The remaining CTD favorable cost variance in base-funded work is due to efficiencies for waste site remediation and D4 activities as a result of utilization of existing site equipment and less resources ($1.0 million), S&M costs less than expected ($4.3 million), U Plant completion of the sampling of Cell 30 with less resources than planned ($1.1 million), Program Management utilizing less resources ($3.7 million), Emergency Response activities ($0.6 million) and an underrun in overhead allocations ($2.1 million).

**Variance at Completion (+$32.9M/+7.0%)**
The Variance at Completion is primarily due to implementation of planned efficiencies.

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

## FUNDS vs. SPEND FORECAST ($M)

| | FY2016 | | |
|---|---|---|---|
| WBS 040/RL-0040 Nuclear Facility D&D | Projected Funding | Spending Forecast | Spend Variance |
| Expense – Spending Forecast | 24.1 | 22.9 | 1.2 |
| RL-0040 – Total | 24.1 | 22.9 | 1.2 |

Numbers are rounded to the nearest $0.1 million.

**Funds/Variance Analysis**
FY2016 project funding decreased from $24.6 million to $24.1 million due to CHPRC funding re-alignment. The FYSF change in FY2016 decreased by $.3 million. This decrease reflects $0.2 million of scope that has been deferred to FY2017 due to lack of available resources. The remaining $0.1 million decrease is due to miscellaneous offsets.

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

**Baseline Change Requests**
BCR-PRC-16-021R0, *Definitization of CO#296, Assignment of Unassigned Waste Sites in WIDS – PBSs RL-0011 and RL-0040*
BCR-PRC-16-024R0, *Low Level Contamination Sample Analysis Budget Resource Change*
BCR-PRC-16-025R0, *Revise G&A Rates for FY2017 and FY2018*
BCR-PRC-16-023R0, *Undistributed Budget Adjustments January 2016*

# MILESTONE STATUS

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

| Number | Title | Due Date | Actual Date | Forecast Date | Status/ Comment |
|---|---|---|---|---|---|
| M-016-250 | Develop three-year rolling prioritized scheduled to implement waste site removal actions | 3/31/2016 | | 3/31/2016 | On Schedule (Tentative Agreement) |
| M-037-11 | Complete Closure Requirements for 216-B-3 and 216-S-10 | 9/30/2016 | | 9/30/2016 | At Risk (being renegotiated to September 20, 2021as part of tentative agreement). |

# SELF-PERFORMED WORK

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

# GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.

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

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

January 2016
CHPRC-2016-01, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

# PROJECT SUMMARY

The 100K Characterization Wells Project shipped all project waste to ERDF and received preliminary leach data for 116-KE-3. The 100K AB Waste Sites Remediation Project conducted in-process sampling of six sites and added 13 new sites to the field remediation contract. The Final RCCC Transition Plan was submitted to RL and the Extent of Condition review was finalized and issued internally for review and comments. In addition, Modification 466 that increased the NTE for CO 289 Transfer of RCCC Scope to PRC, to $2 million was incorporated into the baseline.

## EMS Objectives and Target Status

None currently identified.

# TARGET ZERO PERFORMANCE

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

# KEY ACCOMPLISHMENTS

- 100K Characterization Wells:
  - o 116-KE-3 and UPR-100-K-1:
    - Shipped all project waste to ERDF.
    - Received preliminary leach data for 116-KE-3.
- 165 KE Asbestos Abatement:
  - Completed walk down with craft personnel.
  - Complete installation of generators to Modec trailer and 165-KE.
  - Completed Beryllium assessment walk down.
- Area AB waste site remediation:
  - Conducted in-process samples of six sites on January 21 and sent to the lab.
  - Added thirteen Waste Sites to the field remediation contract and began remediation.
- Completed sixteen Radiological Surveillances.
- RCCC Transition:
  - Submitted the final Transition Plan to RL.
  - Received RL comments on the CHPRC RCCC Transition Plan.
  - Finalized Extent of Condition and issued internally for review and comment.

- Incorporated PRC Modification 466 that increased the NTE for CO 289 Transfer of RCCC Scope to PRC, to $2 million.

## MAJOR ISSUES

**Issue:**
**The current FY2016 RL-0041 baseline budget and funding to perform 100K AB Area waste site remediation is not sufficient to complete the entire scope. Funding is currently adequate to complete excavation of the next 39,000 tons. If additional funding is not received, work will stop prior to completion of the scope.**

**Corrective Action**:
Identify and assess the difference between the planned (baseline) and estimated actual tons of soil to be remediated to complete the scope. Reconcile the 100K waste site tonnage between the PRC contract and baseline and compare against information provided in Letter 13-PRO-0333, dated August 15, 2013 that established RL's 100K Area Waste Site Concept Implementation 100K Area Waste Site Concept. Work with RL to obtain agreement on the path forward for continued progress of AB waste site remediation, including increased funding and proposed budget changes.

**Status**:
Discussions continue with RL regarding continued progress and additional funds needed. The project is currently preparing a detailed estimate that reflects remediation of the entire AB scope with the intent of preparing a BCR in the March/April period to implement proposed budget changes should they be approved.

## RISK MANAGEMENT STATUS

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

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

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

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

Increased Confidence
No Change
Decreased Confidence

| Risk Title | Unmitigated Risk Impacts | Assessment | | Comments |
|---|---|---|---|---|
| | | Month | Trend | |
| **RL-0041/WBS-041** | | | | |
| **Explanation of major changes to the project monthly stoplight chart:** No major changes to the monthly stoplight chart in the month of January. | | | | |
| **Realized Risks** (Risks that are currently impacting project cost/schedule) | | | | |
| No realized risks for the month of January. | | | | |
| **Critical Risks** (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed) | | | | |
| No critical risks identified in the month of January. | | | | |
| **High Risk Threat Value** (Recoverable slip to enforceable or incentivized milestone) | | | | |
| **Lifecycle Risk Triggers** (Risk could be realized at any point of the project) | | | | |

| | | | | |
|---|---|---|---|---|
| KBC-002: Subcontract Change Orders/Claims | Subcontracts for D4, soil remediation, and other field support services require revision based on discovery of changed conditions or completion requirements resulting in cost impacts and schedule delays.<br><br>**Risk Handling Strategy:** Accept<br><br>**Probability:** Low (10% to 25%)<br>**Worst Case Impacts:** $1.5 million, 66 days |  |  | **Risk Trigger Metric:**<br>Field condition changes, including but not limited to, the amount of waste containers provided for soil remediation on a daily basis. Additional field changes include the need to excavate a greater amount of soil than planned to complete remediation.<br><br>**Mitigation action(s)** / **FC Date** / **%**<br>None identified at this time. / N/A / N/A<br><br>**Mitigation Assessment:**<br>Increased communication/interface continues between the Project and ERDF to obtain delivery of containers needed to achieve planned production rates for waste site remediation needed containers.<br><br>In the month of December, an issue was identified with the baseline planning assumptions. The project is currently developing a detailed estimate for AB Waste Site remediation based upon the estimated actual tons of soil to be remediated to complete the scope. A BCR will be prepared to modify the baseline to reflect AB remediation up to an estimated 407,094 tons within the 100K Area. A contract modification will be prepared to add any tonnage needed to complete the AB area that exceeds 407,094 tons. Discussions continue with RL regarding the need for additional funds later in the fiscal year that will be required to complete the AB Area. |

**Unassigned Risks** (Pending ownership of identified risks/opportunities)

No unassigned risks identified in the month of January.

# PROJECT BASELINE PERFORMANCE
## Current Month
## ($M)

| WBS 041/RL-0041 Nuclear Facility D&D – River Corridor | Budgeted Cost of Work Scheduled | Budgeted Cost of Work Performed | Actual Cost of Work Performed | Schedule Variance ($) | Schedule Variance (%) | Cost Variance ($) | Cost Variance (%) |
|---|---|---|---|---|---|---|---|
| Total | 1.5 | 0.5 | 1.4 | (1.1) | -70.0% | (0.9) | -203.7% |

Numbers are rounded to the nearest $0.1 million

**CM Schedule Performance (-$1.1M/-70.0%)**

The negative schedule variance for the current month is primarily due to accelerated performance of the 10 100K Area AB Waste Sites. The majority of the scope planned in January was performed in prior months resulting in a negative schedule variance.

**CM Cost Performance (-$0.9M/-203.7%)**

The negative cost variance for the current month is primarily due to greater than planned soil excavation being performed for the 100K Area AB Waste Sites. This has resulted in higher than anticipated ERDF disposal costs.

## 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 | 321.0 | 322.0 | 294.1 | 0.9 | 0.3% | 27.8 | 8.6% | 400.2 | 369.8 | 30.4 |

Numbers are rounded to the nearest $0.1 million

**CTD Schedule Performance (+$.9M/+0.3%)**

The schedule variance is within reporting thresholds.

**CTD Cost Performance (+$27.8M/+8.6%)**

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

**Variance at Completion (+$30.4M/+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)

| | FY2016 | | |
|---|---|---|---|
| WBS 041/RL-0041 Nuclear Facility D&D – River Corridor | Projected Funding | Spending Forecast | Spend Variance |
| Expense – Spending Forecast | 15.1 | 14.8 | 0.3 |
| Expense – Non Contract Work | 0 | 8.1 | (8.1) |
| RL-0041- Total | 15.1 | 22.9 | (7.8) |

Numbers are rounded to the nearest $0.1 million.

**Funds/Variance Analysis:**

The RL-0041 project funding is $15.1 million for FY2016 and remains unchanged. The FYSF changed from $20.8 million to $22.9 million. This increase reflects scope associated with CO #304, RCCC Scope Transition, received on January 27, 2016, which authorizes CHPRC to initiate transition of the River Corridor Contract activities.

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

**Baseline Change Requests**
BCR-041-16-007R0, *Definitization of CO #296, Assignment of Unassigned Waste Sites in WIDS – PBS RL-0041*
BCR-041-16-008R0, *CO #289 Transfer RCCC Work Scope to PRC – Part 4*
BCR-041-16-009R0, *Low Level Contamination Sample Analysis Budget Resource Change*
BCR-041-16-010R0, *PBS Rl-0041 Undistributed Budget Adjustments January 2016*

## MILESTONE STATUS

None currently identified.

## SELF-PERFORMED WORK

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

## GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.

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

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

January 2016
CHPRC-2016-01, 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 TSD Annual Site Surveillances on the 400 Area.
- Completed post job for 400 Area Buildings Annual Surveillance.
- Completed Annual Surveillance of Sodium Storage Facility.
- Completed Annual Surveillance of Fuels and Materials Examination Facility.
- 400 Area Water Systems:
  - Completed all monthly and weekly maintenance inspections.
  - Completed walkdowns for P-16 Pump replacement and maintenance on 400 Area Water System electrical breakers.
- Completed:
  - Nineteen PM activities.
  - Four operational surveillances.
  - Four radiological surveillances.

# MAJOR ISSUES

None currently identified.

# RISK MANAGEMENT STATUS

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

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

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

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

Increased Confidence
No Change
Decreased Confidence

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

# PROJECT BASELINE PERFORMANCE
## Current Month
## ($M)

| RL-0042 FFTF Closure | Budgeted Cost of Work Scheduled | Budgeted Cost of Work Performed | Actual Cost of Work Performed | Schedule Variance ($) | Schedule Variance (%) | Cost Variance ($) | Cost Variance (%) |
|---|---|---|---|---|---|---|---|
| Total | 0.2 | 0.2 | 0.1 | (0.0) | -2.1% | 0.1 | 32.6% |
| Numbers are rounded to the nearest $0.1M | | | | | | | |

**CM Schedule Performance: (-$0.0M/-2.1%)**
The schedule variance is within reporting thresholds.

**CM Cost Performance: (+$0.1M/+32.6%)**
The cost variance is within reporting thresholds.

## Contract-to-Date ($M)

| RL-0042 FFTF Closure | Budgeted Cost of Work Scheduled | Budgeted Cost of Work Performed | Actual Cost of Work Performed | Schedule Variance ($) | Schedule Variance (%) | Cost Variance ($) | Cost Variance (%) | Budget at Completion (BAC) | Estimate at Completion (EAC) | Variance at Completion (VAC) |
|---|---|---|---|---|---|---|---|---|---|---|
| Total | 20.7 | 20.8 | 16.9 | 0.0 | 0.2% | 3.8 | 18.5% | 26.5 | 22.8 | 3.7 |
| Numbers are rounded to the nearest $0.1 million | | | | | | | | | | |

**CTD Schedule Performance (+$0.0M/+0.2%)**
The schedule variance is within reporting thresholds.

**CTD Cost Performance (+$3.8M/+18.5%)**
The cost variance reflects efficient use of resources to support deactivation activities.

**Variance at Completion (+$3.7M/+13.9%)**
The Variance at Completion is within reporting thresholds.

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

## FUNDS VS. SPEND FORECAST ($M)

| | FY2016 | | |
|---|---|---|---|
| RL-0042 FFTF Closure | Projected Funding | Spending Forecast | Spend Variance |
| Expense – Spending Forecast | 3.2 | 1.7 | 1.5 |
| RL-0042 – Total | 3.2 | 1.7 | 1.5 |
| Numbers are rounded to the nearest $0.1 million | | | |

**Funds Analysis**
Projected Funding is unchanged from last month. The FYSF change for FY2016 from $1.8 million to 1.7 million is insignificant for the month.

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

**Baseline Change Requests**
BCR-PRC-16-025R0, *Revise G&A Rates for FY2017 and FY2018*

## 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 2016
CHPRC-2016-01, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

CLASSIFICATION (When Filled In)

# INTEGRATED PROGRAM MANAGEMENT REPORT
## FORMAT 1 - WORK BREAKDOWN STRUCTURE

DOLLARS IN: Dollars

PENDING UPDATE TO: OMB No. 0704-0188

| 1. CONTRACTOR | 2. CONTRACT | 3. PROGRAM | 4. REPORT PERIOD |
|---|---|---|---|
| a. NAME: CH2M HILL Plateau Remediation Company | a. NAME: Plateau Remediation Contract | a. NAME: Plateau Remediation Contract | a. FROM (YYYYMMDD): 2015 / 12 / 21 |
| b. LOCATION (Address and ZIP Code): Richland, WA | b. NUMBER: RL14788 | b. PHASE: | b. TO (YYYYMMDD): 2016 / 01 / 24 |
| | c. TYPE: CPAF; d. SHARE RATIO: | c. EVMS ACCEPTANCE: NO: ; X; YES (YYYYMMDD): 2009 / 09 / 18 | |

**5. CONTRACT DATA**

| a. QUANTITY | b. NEGOTIATED COST | c. ESTIMATED COST OF AUTHORIZED UNPRICED WORK | d. TARGET PROFIT/FEE | e. TARGET PRICE | f. ESTIMATED PRICE | g. CONTRACT CEILING | h. ESTIMATED CONTRACT CEILING | i. DATE OF OTB/OTS (YYYYMMDD) |
|---|---|---|---|---|---|---|---|---|
| 1 | 5,537,077 | 16,988 | 233,078 | 5,770,155 | 5,628,777 | 5,770,155 | 5,628,777 | |

**6. ESTIMATED COST AT COMPLETION**

**7. AUTHORIZED CONTRACTOR REPRESENTATIVE**

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

b. TITLE: Prime Contract Manager

c. SIGNATURE:

d. DATE SIGNED (YYYYMMDD): 2016 / 01 / 24

| | MANAGEMENT ESTIMATE AT COMPLETION (1) | CONTRACT BUDGET BASE (2) | VARIANCE (3) |
|---|---|---|---|
| a. BEST CASE | 5,302,213 | | |
| b. WORST CASE | 5,416,248 | | |
| c. MOST LIKELY | 5,395,699 | 5,554,065 | 158,366 |

**8. PERFORMANCE DATA**

| CAPN.PBS ITEM (1) | CURRENT PERIOD: BUDGETED COST WORK SCHEDULED (2) | BUDGETED COST WORK PERFORMED (3) | ACTUAL COST WORK PERFORMED (4) | VARIANCE SCHEDULE (5) | VARIANCE COST (6) | CUMULATIVE TO DATE: BUDGETED COST WORK SCHEDULED (7) | BUDGETED COST WORK PERFORMED (8) | ACTUAL COST WORK PERFORMED (9) | VARIANCE SCHEDULE (10) | VARIANCE COST (11) | REPROGRAMMING ADJUSTMENTS: COST VARIANCE (12a) | SCHEDULE VARIANCE (12b) | BUDGET (13) | AT COMPLETION: BUDGETED (14) | ESTIMATED (15) | VARIANCE (16) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RL-0011 Nuclear Mat Stab & Disp PFP | 10,625 | 5,911 | 6,873 | (4,714) | (962) | 902,023 | 864,728 | 871,604 | (37,295) | (6,876) | 0 | 0 | 0 | 971,797 | 972,997 | (1,200) |
| RL-0012 SNF Stabilization & Disp | 7,022 | 6,109 | 5,142 | (913) | 967 | 540,527 | 540,246 | 551,649 | (281) | (11,403) | 0 | 0 | 0 | 713,281 | 727,512 | (14,231) |
| RL-0013 Solid Waste Stab & Disp | 9,724 | 7,872 | 6,957 | (1,851) | 916 | 1,016,550 | 1,015,934 | 954,350 | (616) | 61,584 | 0 | 0 | 0 | 1,323,585 | 1,253,871 | 69,714 |
| RL-0030 Soil &Water Rem-Grndwtr/Vadose | 12,037 | 9,582 | 8,390 | (2,455) | 1,192 | 1,193,884 | 1,182,358 | 1,161,373 | (11,526) | 20,985 | 0 | 0 | 0 | 1,553,647 | 1,516,629 | 37,017 |
| RL-0040 Nuc Fac D&D - Remainder Hanfrd | 2,209 | 1,401 | 1,225 | (808) | 176 | 408,328 | 407,337 | 375,567 | (991) | 31,770 | 0 | 0 | 0 | 468,839 | 435,890 | 32,948 |
| RL-0041 Nuc Fac D&D - RC Closure Proj | 1,504 | 452 | 1,372 | (1,052) | (920) | 321,009 | 321,956 | 294,108 | 947 | 27,848 | 0 | 0 | 0 | 398,788 | 368,414 | 30,375 |
| RL-0042 Nuc Fac D&D - FFTF Proj | 183 | 179 | 120 | (4) | 58 | 20,726 | 20,762 | 16,927 | 35 | 3,834 | 0 | 0 | 0 | 26,468 | 22,777 | 3,691 |
| b. COST OF MONEY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| c. GENERAL AND ADMINISTRATIVE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| d. UNDISTRIBUTED BUDGET | | | | | | | | | | | | | | 4,123 | 4,123 | 0 |
| e. SUBTOTAL | 43,303 | 31,506 | 30,079 | (11,798) | 1,426 | 4,403,047 | 4,353,321 | 4,225,579 | (49,726) | 127,742 | 0 | 0 | 0 | 5,460,527 | 5,302,213 | 158,315 |
| f. MANAGEMENT RESERVE | | | | | | | | | | | | | | 93,486 | | |
| g. TOTAL | 43,303 | 31,506 | 30,079 | (11,798) | 1,426 | 4,403,047 | 4,353,321 | 4,225,579 | (49,726) | 127,742 | 0 | 0 | 0 | 5,554,014 | | |

**9. RECONCILIATION TO CONTRACT BUDGET BASELINE**

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. VARIANCE ADJUSTMENT | | | | | | | | | | | | | | | | |
| b. TOTAL CONTRACT VARIANCE | | | | | | | | | (49,726) | 127,742 | | | | 5,554,014 | 5,302,213 | 251,801 |

CLASSIFICATION (When Filled In)

CLASSIFICATION (When Filled In)

# INTEGRATED PROGRAM MANAGEMENT REPORT
## FORMAT 2 - ORGANIZATIONAL CATEGORIES

DOLLARS IN Dollars

PENDING UPDATE TO OMB No. 0704-0188

| 1. CONTRACTOR | 2. CONTRACT | | 3. PROGRAM | 4. REPORT PERIOD |
|---|---|---|---|---|
| a. NAME | a. NAME | | a. NAME | a. FROM *(YYYYMMDD)* |
| CH2M HILL Plateau Remediation Company | Plateau Remediation Contract | | Plateau Remediation Contract | 2015 / 12 / 21 |
| b. LOCATION (Address and ZIP Code) | b. NUMBER | | b. PHASE | b. TO *(YYYYMMDD)* |
| Richland, WA | RL14788 | | | 2016 / 01 / 24 |
| | c. TYPE | d. SHARE RATIO | c. EVMS ACCEPTANCE | |
| | CPAF | | NO X YES *(YYYYMMDD)* 2009 / 09 / 18 | |

## 5. PERFORMANCE DATA

| WBS.Resp Org Group / WBS.Resp Org Code / ITEM (1) | CURRENT PERIOD: BUDGETED COST WORK SCHEDULED (2) | CURRENT PERIOD: BUDGETED COST WORK PERFORMED (3) | CURRENT PERIOD: ACTUAL COST WORK PERFORMED (4) | CURRENT PERIOD: VARIANCE SCHEDULE (5) | CURRENT PERIOD: VARIANCE COST (6) | CUMULATIVE TO DATE: BUDGETED COST WORK SCHEDULED (7) | CUMULATIVE TO DATE: BUDGETED COST WORK PERFORMED (8) | CUMULATIVE TO DATE: ACTUAL COST WORK PERFORMED (9) | CUMULATIVE TO DATE: VARIANCE SCHEDULE (10) | CUMULATIVE TO DATE: VARIANCE COST (11) | REPROGRAMMING ADJUSTMENTS: COST VARIANCE (12a) | REPROGRAMMING ADJUSTMENTS: SCHEDULE VARIANCE (12b) | REPROGRAMMING ADJUSTMENTS: BUDGET (13) | AT COMPLETION: BUDGETED (14) | AT COMPLETION: ESTIMATED (15) | AT COMPLETION: VARIANCE (16) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 34 - Env Program & Strategic Plng | 764 | 626 | 642 | (138) | (16) | 59,350 | 58,908 | 54,797 | 550 | 4,112 | 0 | 0 | 0 | 82,288 | 80,271 | 2,017 |
| 35 - Business Services | 0 | 0 | 0 | 0 | 0 | 472,524 | 472,524 | 448,488 | 0 | 24,036 | 0 | 0 | 0 | 472,524 | 448,488 | 24,036 |
| 36 - Prime Contract & Proj Integr | 263 | 263 | 152 | 0 | 111 | 3,037 | 3,037 | 1,527 | 0 | 1,509 | 0 | 0 | 0 | 8,426 | 6,279 | 2,147 |
| 38 - Project Technical Services | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | (0) | 0 | 0 | 0 | 0 | 0 | (0) |
| 3B - PFP Closure Project | 10,566 | 5,852 | 6,858 | 2,578 | 6,941 | 815,229 | 777,934 | 792,347 | (37,295) | (14,413) | 0 | 0 | 0 | 884,538 | 893,610 | (9,072) |
| 3C - Waste & Fuels Management Project | 9,687 | 7,835 | 6,928 | 2,480 | 4,077 | 908,509 | 907,893 | 846,508 | (616) | 61,384 | 0 | 0 | 0 | 1,214,737 | 1,145,237 | 69,501 |
| 3D - Soil & Groundwater Remediation | 11,208 | 8,891 | 7,701 | (559) | 1,581 | 1,035,439 | 1,024,355 | 1,001,168 | (11,084) | 23,188 | 0 | 0 | 0 | 1,370,570 | 1,329,343 | 41,226 |
| 3G - K Basin Oper & Plateau Remediation Project | 10,816 | 8,038 | 7,798 | 563 | (1,739) | 1,108,960 | 1,108,671 | 1,080,744 | (289) | 27,927 | 0 | 0 | 0 | 1,423,321 | 1,394,861 | 28,460 |
| **b. COST OF MONEY** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **c. GENERAL AND ADMINISTRATIVE** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **d. UNDISTRIBUTED BUDGET** | | | | | | | | | | | | | | 4,123 | 4,123 | 0 |
| **e. SUBTOTAL *(Performance Measurement Baseline)*** | 43,303 | 31,506 | 30,079 | (11,798) | 1,426 | 4,403,047 | 4,353,321 | 4,225,579 | (49,726) | 127,742 | 0 | 0 | 0 | 5,460,527 | 5,302,213 | 158,315 |
| **f. MANAGEMENT RESERVE** | | | | | | | | | | | | | | 93,486 | | |
| **g. TOTAL** | 43,303 | 31,506 | 30,079 | (11,798) | 1,426 | 4,403,047 | 4,353,321 | 4,225,579 | (49,726) | 127,742 | 0 | 0 | 0 | 5,554,014 | | |

**CONTRACT PERFORMANCE REPORT**

**FORMAT 3 - BASELINE**

**DOLLARS IN THOUSANDS**

**Form Approved**
**OMB No. 0704-0188**

| 1. CONTRACTOR | 2. CONTRACT | 3. PROGRAM | 4. REPORT PERIOD |
|---|---|---|---|
| CH2M HILL Plateau Remediation Company | a. NAME: Plateau Remediation Contract | a. NAME: Plateau Remediation Contract | a. FROM: 2015/12/21 |
| b. LOCATION: | b. NUMBER: RL14788 | b. PHASE | b. TO: 2016/01/24 |
| Richland, WA | c. TYPE: CPAF | c. EVMS ACCEPTANCE | |
| | d. SHARE RATIO: | NO YES X 9/18/2009 | |

5. CONTRACT DATA

| a. ORIGINAL NEGOTIATED COST | b. NEGOTIATED CONTRACT CHANGE | c. CURRENT NEGOTIATED COST (A + B) | d. ESTIMATED COST AUTH UNPRICED WORK | e. CONTRACT BUDGET BASE (C + D) | f. TOTAL ALLOCATED BUDGET | g. DIFFERENCE (E - F) |
|---|---|---|---|---|---|---|
| 4,312,366 | $1,224,711 | $5,537,077 | $16,988 | $5,554,065 | $5,554,014 | $52 |

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

6. PERFORMANCE DATA

BUDGETED COST FOR WORK SCHEDULED (NON - CUMULATIVE)

| ITEM (1) | BCWS CUM TO DATE (2) | BCWS FOR REPORT PERIOD (3) | SIX MONTH FORECAST +1 Feb-16 (4) | +2 Mar-16 (5) | +3 Apr-16 (6) | +4 May-16 (7) | +5 Jun-16 (8) | +6 Jul-16 (9) | FY09-13 (10) | FY14 (11) | FY15 (12) | FY16 (13) | FY17 (14) | FY18 (15) | UNDISTRIB BUDGET (16) | TOTAL BUDGET (17) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. PM BASELINE | | | | | | | | | | | | | | | | |
| **(BEGIN OF PERIOD)** | **4,359,744** | **43,019** | **36,164** | **46,911** | **36,231** | **33,158** | **31,337** | **41,102** | **3,391,477** | **391,653** | **471,323** | **450,940** | **416,230** | **362,373** | **7,038** | **5,491,035** |
| **b. BASELINE CHANGES AUTH DURING REPORT PERIOD** | | | | | | | | | | | | | | | | |
| BCR-011-16-003R0 - PFP Capital Asset 2 Project Demolition Equipment Realized Risk and incorporation of KPPs | | | | | | | | | | | | **1,414** | **632** | | | **2,046** |
| BCR-013-16-014R0 - Definitization of CO #278, Procure DOE Type 7A Large Shipping Container (Super 7A) | | | | | | | | | | | | | **605** | | | **605** |
| BCR-013-16-015R0 - Definitization of CO #280, CWC Emergency Lighting | | | | | | | | | | | | **347** | | | | **347** |
| BCR-030-16-018R0 - CO #303, BC-5 Automated Water Level Network | | | | | | | | | | | | **22** | | | | **22** |
| BCR-041-16-007R0 - Definitization of CO #296, Assignment of Unassigned Waste Sites in WIDS - PBS RL-0041 | | | | | | | | | | | | **97** | **102** | **76** | | **274** |
| BCR-041-16-008R0 - CO#289 Transfer RCCC Work Scope to PRC - Part 4 | | | | | | | | | | | | **140** | | | | **140** |
| BCR-041-16-009R0 - Low Level Contamination Sample Analysis Budget Resource Change – PBS RL-0041 | | | | | | | | | | | | **0** | **0** | **0** | | **0** |
| BCR-PRC-16-021R0 - Definitization of CO #296, Assignment of Unassigned Waste Sites in WIDS - PBSs RL-0011 and RL-0040 | | | | | | | | | | | | **756** | **575** | **394** | | **1,726** |
| BCR-PRC-16-024R0 - Low Level Contamination Sample Analysis Budget Resource Change | | | | | | | | | | | | **0** | **0** | **0** | | **0** |
| BCR-PRC-16-025R0 - Revise FY2017 and FY2018 G&A Rates | | | | | | | | | | | | | **(18,455)** | **(14,297)** | | **(32,752)** |
| BCRA-PRC-16-026R0 -CO #248, CBDPP Revision 2A Implementation Undistributed Budget Adjustments | | | | | | | | | | | | | | | **(1,979)** | **(1,979)** |
| BCR-PRC-16-023R0 - Undistributed Budget Adjustments January 2016 | | | | | | | | | | | | | | | **(797)** | **(797)** |
| BCR-041-16-010R0 - PBS RL-0041 Undistributed Budget Adjustments January 2016 | | | | | | | | | | | | | | | **(140)** | **(140)** |
| **c. PM BASELINE (END OF PERIOD)** | **4,403,047** | **43,303** | **36,413** | **47,452** | **36,509** | **33,435** | **31,597** | **41,421** | **3,391,477** | **391,653** | **471,323** | **453,716** | **399,690** | **348,545** | **4,123** | **5,460,527** |
| **7. MANAGEMENT RESERVE** | | | | | | | | | | | | | | | | **93,486** |
| **8. TOTAL** | | | | | | | | | | | | | | | | **5,554,014** |

CLASSIFICATION (When Filled In)

**CONTRACT PERFORMANCE REPORT**

**FORMAT 4 - STAFFING**

FORM APPROVED
OMB No. 0704-0188

| 1. CONTRACTOR | 2. CONTRACT | | 3. PROGRAM | 4. REPORT PERIOD |
|---|---|---|---|---|
| **1. CONTRACTOR** | **2. CONTRACT** | | **3. PROGRAM** | **4. REPORT PERIOD** |
| **a. NAME**<br>CH2M HILL Plateau Remediation Company | **a. NAME**<br>Plateau Remediation Contract | | **a. NAME**<br>Plateau Remediation Contract | **a. FROM** *(YYYYMMDD)*<br>2015 / 12 / 21 |
| **b. LOCATION (Address and ZIP Code)**<br>Richland, WA | **b. NUMBER**<br>RL14788 | | **b. PHASE** | **b. TO** *(YYYYMMDD)*<br>2016 / 01 / 24 |
| | **c. TYPE**<br>CPAF | **d. SHARE RATIO** | **c. EVMS ACCEPTANCE**<br>**YES** 2009 / 09 / 18 | |

**5. PERFORMANCE DATA**

| Organizational Breakdown Structure (OBS) | ACTUAL CURRENT PERIOD | ACTUAL END OF CURRENT PERIOD *(Cumulative)* | FORECAST *(Non-Cumulative)* — SIX MONTH FORECAST BY MONTH *(Enter names of months)* | | | | | | | | | AT COMPLETION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | +1 FEB 2016 | +2 MAR 2016 | +3 APR 2016 | +4 MAY 2016 | +5 JUN 2016 | +6 JUL 2016 | REMAIN FY2016 | FY2017 | FY2018 | |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (15) |
| 300 - Office of the President | 7 | 534 | 19 | 14 | 11 | 14 | 13 | 6 | 17 | 63 | 63 | 754 |
| 303 - Internal Audit | 3 | 380 | 5 | 5 | 5 | 5 | 5 | 5 | 15 | 60 | 60 | 545 |
| 304 - General Counsel | 3 | 359 | 4 | 4 | 4 | 4 | 5 | 5 | 16 | 60 | 60 | 521 |
| 31 - Communications | 7 | 848 | 9 | 9 | 9 | 9 | 9 | 9 | 27 | 108 | 108 | 1,145 |
| 32 - Safety Health Security & Quality | 50 | 6,090 | 61 | 58 | 59 | 59 | 59 | 58 | 173 | 774 | 775 | 8,165 |
| 34 - Env Program & Strategic Plng | 34 | 3,999 | 41 | 42 | 42 | 42 | 42 | 41 | 124 | 604 | 600 | 5,577 |
| 35 - Business Services | 47 | 6,480 | 61 | 64 | 63 | 63 | 63 | 63 | 189 | 759 | 761 | 8,567 |
| 36 - Prime Contract & Proj Integr | 47 | 3,861 | 56 | 56 | 57 | 57 | 57 | 57 | 170 | 652 | 643 | 5,666 |
| 38 - Project Technical Services | 26 | 4,958 | 35 | 36 | 35 | 35 | 34 | 33 | 100 | 433 | 427 | 6,124 |
| 3B - PFP Closure Project | 317 | 42,604 | 401 | 353 | 265 | 255 | 281 | 238 | 713 | 760 | - | 45,869 |
| 3C - Waste & Fuels Management Project | 299 | 42,934 | 329 | 302 | 298 | 293 | 293 | 284 | 852 | 3,699 | 3,615 | 52,898 |
| 3D - Soil & Groundwater Remediation | 272 | 30,248 | 287 | 312 | 303 | 308 | 300 | 283 | 850 | 3,600 | 3,910 | 40,402 |
| 3G - KBO&PR Project | 265 | 40,774 | 322 | 330 | 354 | 342 | 308 | 319 | 957 | 3,819 | 3,631 | 51,157 |
| Grand Totals | 1,376 | 184,069 | 1,630 | 1,584 | 1,505 | 1,486 | 1,467 | 1,401 | 4,202 | 15,391 | 14,653 | 227,388 |

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

**CLASSIFICATION (When Filled In)**

**CONTRACT PERFORMANCE REPORT**
**FORMAT 5 - EXPLANATIONS AND PROBLEM ANALYSES**

**FORM APPROVED**
**OMB No. 0704-0188**

| 1. CONTRACTOR | 2. CONTRACT | | 3. PROGRAM | 4. REPORT PERIOD |
|---|---|---|---|---|
| **a. NAME**<br>CH2M HILL<br>Plateau Remediation Company | **a. NAME**<br>Plateau Remediation Contract | | **a. NAME**<br>Plateau Remediation Contract | **a. FROM (YYYY/MM/DD)**<br>2015/12/21 |
| **b. LOCATION (Address and ZIP Code)**<br>Richland, WA 99354 | **b. NUMBER**<br>DE-AC06-08RL14788 | | **b. PHASE**<br>Base | **b. TO (YYYY/MM/DD)**<br>2016/1/24 |
| | **c. TYPE**<br>CPAF | **d. SHARE RATIO** | **c. EVMS ACCEPTANCE**<br>2009/09/18<br>NO YES X | |

| | BCWS | BCWP | ACWP | SV in $ | SV in % | CV in $ | CV % | SPI | CPI |
|---|---|---|---|---|---|---|---|---|---|
| Current: | 43,303 | 31,506 | 30,079 | (11,798) | -27.2% | 1,427 | 4.5% | 0.73 | 1.05 |
| *Cumulative:* | 4,403,047 | 4,353,321 | 4,225,579 | (49,726) | -1.1% | 127,742 | 2.9% | 0.99 | 1.03 |
| | BAC | EAC | VAC in $ | VAC in % | TCPI | | | | |
| At Complete: | 5,460,527 | 5,302,213 | 158,315 | 2.9% | 1.03 | | | | |

**Explanation of Variance/Description of Problem:**

**Current Period Schedule Variance:** The current month unfavorable schedule variance is primarily due to RL-0011 PFP Management directed safety pause. Progress was stopped on intrusive planned work while the project re-evaluated safety practices and procedures. Continued delay in Rough Decon and Floor Sweeps of the PRF Canyon Floor debris resulting from a chemical reaction of "J" Pan waste was also a factor.

**Current Period Cost Variance:** The current month favorable cost variance is primarily attributed to RL-0030 continuing to experience efficiencies in the Groundwater Monitoring and Performance Assessment account associated with the use of lower analytical laboratory costs due to the use of offsite laboratories and lower geophysical logging costs during well drilling due to the competitive procurement process.

**Cumulative Schedule Variance:** The variance is within reporting thresholds.

**Cumulative Cost Variance:** The variance is within reporting thresholds.

**Impact:**

**Current Period Schedule:** For PFP, If schedule efficiencies are not realized through characterization efforts, additional resources will be required to complete the work scope. This will increase the ETC and could possibly delay the ready for demolition milestone. No other significant impact overall, as the lifecycle EAC reflects these changes.

**Current Period Cost**: No significant impact overall, as the lifecycle EAC reflects these changes.

**Cumulative Schedule:** N/A

**Cumulative Cost:** N/A

**Corrective Action:**

**Current Period Schedule:** If schedule efficiencies at PFP are not realized through characterization efforts, additional resources will be required to complete the work scope. This will increase the ETC and could possibly delay the ready for demolition milestone.

**Current Period Cost:** EAC has been adjusted accordingly.

**Cumulative Schedule:** N/A

**Cumulative Cost:** N/A

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

CHPRC continues to track completion of contract scope within budget and is currently projecting a Variance at Completion of $158.3 million with $93.5 million of Management Reserve for a total positive variance of $251.8 million. For January, the project was 27.2 percent behind schedule and 4.5 percent under planned cost. CTD, the project was 1.1 percent behind schedule and 2.9 percent under planned cost. No other specific Corrective Actions are planned at this time. There was one significant BCRs in the period that impacted the PMB; BCR-PRC-16-025R0 - Revise FY2017 and FY2018 G&A Rates. Additionally, revisions were made to Undistributed Budget (UB) via BCR-PRC-16-023R0 - *Undistributed Budget Adjustments January 2016* (details of changes listed below).

**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 +$158.3 million, +2.9% and is within reporting thresholds.

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

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

| | | |
|---|---|---|
| **CPs - In Process** | | |
| | **Total Authorized Unpriced Work** | **$16,988** |
| **Approved Adjustments to Contract Price (not reflected in B.4-1 Table)** | | |
| | **Total Negotiated Cost Changes** | |
| | **Grand Total Adjustments** | **$16,988** |

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

**MR Utilization**

| BCR Number | Title | Fiscal Year | MR |
|---|---|---|---|
| BCRA-PRC-16-026R0 | *CO #248, CBDPP Revision 2A Implementation Undistributed Budget Adjustments* | 2015 - 2018 | $1,979K |
| BCR-PRC-16-025R0 | *Revise FY2017 and FY2018 G&A Rates* | 2015 - 2018 | $32,752K |
| BCR-011-16-003R0 | *PFP Capital Asset 2 Project Demolition Equipment Realized Risk and incorporation of KPPs* | 2015 - 2018 | $ -2,046K |

Overall, there was an increase of $32,685K to Management Reserve during January.

**Fee Activity**

| BCR Number | Title | Fiscal Year | Fee |
|---|---|---|---|
| BCR-PRC-16-021R0 | *Definitization of CO #296, Assignment of Unassigned Waste Sites in WIDS - PBSs RL-0011 and RL-0040* | 2015 - 2018 | $45K |
| BCR-013-16-015R0 | *Definitization of CO #280, CWC Emergency Lighting* | 2015 - 2018 | $30K |
| BCR-013-16-014R0 | *Definitization of CO #278, Procure DOE Type 7A Large Shipping Container (Super 7A)* | 2015 - 2018 | $34K |

Overall, there was an increase of $109K to Fee during January.

**UB Activity**

| BCR Number | Title | Fiscal Year | UB |
|---|---|---|---|
| BCR-041-16-010R0 | *PBS RL-0041 Undistributed Budget Adjustments January 2016* | 2015 - 2018 | $ -140K |
| BCR-PRC-16-023R0 | *Undistributed Budget Adjustments January 2016* | 2015 - 2018 | $ -797K |
| BCRA-PRC-16-026R0 | *CO #248, CBDPP Revision 2A Implementation Undistributed Budget Adjustments* | 2015 - 2018 | $ -1,979K |

The Undistributed Budget decreased by $2,916K for an overall decrease to the Performance Measurement Baseline of $30,508K during January.

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

| **Prepared by:** | **Date:** | **Approved by:** | **Date:** |
|---|---|---|---|
| Project Control Staff | 2/16/2016 | | |

# Appendix B
# Project Services and Support
# (WBS 000)

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

M. A. Wright
Vice President for
Project Technical
Services

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

D. A. Millikin
Director of
Communications

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

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

January 2016
CHPRC-2016-01, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

# PROGRAM SUMMARY

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

## EMS Objectives and Target Status (draft)

| Objective # | Objective | Target | Due Date | Status |
|---|---|---|---|---|
| 16-EMS-ADMIN-OB1-T1 | Reduce energy intensity. | Increase facility occupancy rates to greater than 82 percent by compressing occupancy and vacating underutilized facilities. Vacated/unoccupied facilities declared unusable and designated inactive placed in Care Taker System. | 9/30/16 | 0% |
| 16-EMS-ADMIN-OB2-T1 | Maximize the acquisition and use of environmentally preferable products in the conduct of operations. | Establish/utilize green catalogs to maximum extent for products beyond office supply purchases on the web site. | 10/9/16* | 0% |
| 16-EMS-ADMIN-OB3-T1 | Energy and natural resource conservation. | Establish electronic signature system for contracts using Adobe Acrobat. | 9/30/16 | 30% |
| 16-EMS-PTS-OB1-T1 | Reduce the potential generation and release of toxic, hazardous, and non-regulated chemical materials to the environment, evaluate for compliance with universal waste and other recycling requirements, and identify opportunities for waste reduction. | Monitor and evaluate spill prevention program and existing techniques to reduce and/or eliminate spills to the environment by surveillances, on-going training. | 9/30/16 | 34% |
| 16-EMS-PTS-OB2-T1 | Increase chemical management oversight of subcontractors and PTS operations. | Increase chemical management oversight of subcontracts, evaluate chemical procurement methods, identify expired chemicals, track, and properly dispose of expired chemicals. Perform quarterly assessment on chemical inventory locations. | 9/30/16 | 16% |

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

# TARGET ZERO PERFORMANCE

| | Current Month | Rolling 12 Month | Comment |
|---|---|---|---|
| **Days Away, Restricted or Transferred** | 0 | 0 | N/A |
| **Total Recordable Injuries** | 0 | 1 | N/A |
| **First Aid Cases** | 1 | 9 | • 1/11/16 – Worker cut a corner too close and bumped her knee on a stair railing. (23912) |
| **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 was one reported injury during the month of January.
  - o Occupational Safety and Industrial Hygiene (OS&IH) accomplishments:
    - – Continued support of site-wide standards committees and site-wide steering committees. DOE-0346, *Hanford Site Fall Protection Program*, is pending implementation of Revision 1A. DOE-0344, *Hanford Site Excavation, Trenching and Shoring Procedure*, is being routed for approval signatures; implementation pending. DOE-0352, *Hanford Site Respiratory Protection Program)* is going through the revision process at this time.
    - – Continued implementation of the Chronic Beryllium Disease Prevention Program (CBDPP) Revision 2A. Beryllium assessments have been completed on 1122 CHPRC facilities. Beryllium characterizations have been completed on 749 CHPRC facilities.
    - – Continued to provide support to the PFP for respiratory protection issues and resolution of the compressed breathing air issues. A request for variance has been submitted to RL following the 10 CFR 851 variance process for using a harness that was not NIOSH tested with the original MSA breathing system.
    - – Continued to work with Sample Management in resolving issues with the handling and shipping of Industrial Hygiene (IH) samples.
    - – Continued support to all projects for Oversight of Confined Space work activities.
    - – Support to all projects for Fall Protection Program requirements and Fall Protection Work Permit reviews.
    - – Support to all project for scaffolding program requirements.
    - – Provided additional confined space training/briefings for KBO&PR, and PTS, and provided support to all projects to approve additional competent/qualified personnel for DOE-0360 Revision 1, *Confined Space*.
    - – Provided support to PFP for ergonomic evaluation of workstations for respiratory decontamination stations.
    - – Provided support to PFP, W&FMP, and KBO&PR for asbestos characterization activities.
    - – Provided support to W&FMP for lead removal of surfacing material at the Central CWC.
    - – Provided support to PFP for beryllium characterization activities.

- Continued support to PTS for the development of an approved Fall Protection Work Permit (FPWP) for in-basin work.
- Provided support to W&FMP in the development of FPWP for WESF roof repair activities.
- Provided support to the PFP Cause Evaluation for the identified emerging trend of injuries, respiratory protection, and radiological issues.
- Completed the Voluntary Protection Program (VPP) Self-Assessment and the annual report is being finalized for submission to RL in February.

o Radiological Control accomplishments:
- Completed clearance of personal property work site assessments at PFP and for all other CHPRC projects.
- Completed Radioactive Material Area (RMA) work site assessment.
- Completed PPE Usage Validation work site assessment.
- Continued Survey Simple upgrade efforts.
- Approved Technical Evaluation for PFP (Dosimetry).
- Approved alternate RMA inspection frequencies for W&FMP (ISA Pad).
- Continued support of oversight at PFP for specific high hazard activities (Plutonium Reclamation Facility Canyon/In-Situ).
- Supported causal evaluations and critiques at PFP.
- Continued support of RCCC transition planning.

o Nuclear Operations Support & Compliance accomplishments:
  - Letter, CHPRC-1600400, dated January 25, 2016, *Request for Approval for the 216-Z-9 and 241-Z-361 Emergency Planning Hazards Assessment, CHPRC-02766, Revision 0.*
- Safety Basis documents and letters transmitted to RL include:
  - Letter, CHPRC-1505784, dated January 14, 2016, *Transmittal of the 2016 Annual Update to CP-18179, Revision 8, 224B Facility Documented Safety Analysis, and the Unreviewed Safety Question Determination Summary*.
  - Letter, CHPRC-1600307, dated January 21, 2016, *Transmittal of the 2016 Annual Update of the Fast Flux Test Facility Safety Basis and Unreviewed Safety Question Determination Summary.*
- Document approval received from RL:
  - Letter, 16-SEI-0013, dated January 4, 2016, *Request for Approval of the Hazards Survey for the Plutonium Finishing Plant, CHPRC-01434, Revision 1.*
  - Letter, 16-SEI-0017, dated January 4, 2016, *Request for Approval for the Plutonium Finishing Plant Emergency Planning Hazards Assessment, HNF-SD-PRP-HA-002, Revision 13*.
  - Letter, 16-SEI-0019, dated January 4, 2016, *Request for Approval of the Emergency Planning Hazards Assessment (EPHA) for Waste Receiving and Processing (WRAP) Facility, CHPRC-01762, Revision 0.*
  - Letter, 16-NSD-0016, dated January 26, 2016, *Transmittal of the 2015 Annual Update to the B Plant DSA, HNF-14804, Revision 6, and the Unreviewed Safety Question Determination Summary*.
- Criticality Safety
  - Three Criticality Safety Evaluation Reports are in process (two PFP, one T-Plant).

o Contractor Assurance Regulatory Reporting (CARR) accomplishments:
- 192 Condition Reports (CRs) were screened:
  - No Significant issues identified.
  - Three Adverse issues identified.
  - 118 Track until Fixed (TUF) issues identified.
  - 33 Trend Only (TO) items identified.

  - 36 Opportunity for Improvement (OFI) items identified.
  - Two Screen Out.
- 193 CRs administratively closed.
- 276 CR actions administratively closed.
- Provided full-time support to PFP in Issues Management, including cause evaluation and Occurrence Reporting.
- Transmitted two Occurrence Reporting and Processing System (ORPS) notification reports for PFP: EM-RL--CPRC-PFP-2016-0001, *Low Level Radiological Contamination on Regulator*; EM-RL--CPRC-PFP-2016-0002, *Administrative Control Level for Extremities Exceeded.*
- Completed Apparent Cause Evaluation and submitted final report for EM-RL--CPRC-PFP-2015-0016, *A PFP Facility Electrician Received a Shock While Removing and Indicator Light Bulb.*
- Coordinated recurring monthly DNFSB, Sludge Treatment Plant (STP), and PFP status conference calls.
- Continued support and coordination for an upcoming conference call with the DNFSB to discuss whether the final design for the WESF stabilization and ventilation project is consistent with requirements in DOE O 420.1B, *Facility Safety*. The review has been scheduled to begin Tuesday, March 2, 1016.
- Continued support and coordination for the upcoming DNFSB review of the current safety posture of the 202-S (REDOX) and 222-S facilities for a potential seismically-induced collapse of the REDOX facility roof and subsequent radiological release. The review has been scheduled to begin Tuesday, March 2, 2016.
- Nine documents were provided in response to DNFSB requests for information.
- One external Lessons Learned was submitted to OPEXShare in January 2016; 2016-RL-HNF-0002, *Lack of Post-Storm Inspection leaves Resultant Hazard Unidentified.*
- One new Noncompliance Tracking System (NTS) report was submitted: NTS-RL--CPRC-PFP-2016-0001, *Low Level Alpha Contaminated Equipment Cleared from PFP Facility.*
- Provided Course 080983, *DOE Enforcement Program (PAAA/WSH) Overview Training*, to nine employees.

o Performance Oversight, Assessment, and Quality Assurance accomplishments:
- Continued Analysis of the FY2015 Safety Culture Survey data results.
- Submitted Integrated Safety Management System (ISMS) Declaration and FY2016 Performance Objectives, Measures, and Commitments to RL.
- Supported PFP in PremAire ensemble fitting concerns.
- Completed in-field activities for 10 CFR 835, Subparts I & N, "Reports to Individuals and Emergency Exposure Situations."
- Provided specific mentoring and feedback to assessors and responsible managers that conducted management assessments.
- Finalized Assessment Workshop outline and developed presentation package.
- Established the date of the first Assessment Workshop (February 23, 2016).
- Completed the independent review of the CHPRC-02521, *PFP Independent Verification Review*, for implementation of HNF-15500 and HNF-15502.
- Supported the PFP field exercise at the Emergency Operations Center.
- Supported the PFP Documented Safety Analysis, Revision 12, Implementation Verification Review.
- Continued to support the S&GWRP and Central Support S&GWRP organization in evaluation of the calibration methods used for Geophysical Logging equipment.

- Conducted a three day Auditing Methods for Lead Auditors Course. Thirty-two students participated from RL, Bechtel, MSA, and CHPRC.
- The Quality Systems organization completed ten surveillances covering the areas of subcontractor material and test control, CHPRC Quality Assurance program implementation and OCRWM corrective actions verification.
- Presented a briefing to the QA staff on the calibration terms such as accuracy and uncertainty.
- Assisted the PTS in selection of a measurement technology to accurately measure Canister Storage Building fire water pump flow rate.
- Supported RL in their review of the CHPRC Quality Assurance Engineer qualification program.

o Fire Protection accomplishments:

- Three new Fire Protection Engineering graduates started in January.
- A training bulletin has been developed for Building Managers on the inspection criteria for fire extinguishers.
- A matrix is being developed on the IT&M requirements based upon NFPA Codes and Standards. The CHPRC work product will be used to develop the Hanford Site Matrix for fire protection related IT&M.
- CHPRC is interfacing with MSA Water Utilities to resolve testing issues with water supply isolation valves.
- Fire Protection punch-list items are being worked to close all open items with the 105KW Modified Annex. Coordination with the Hanford Fire Department is being facilitated on fire alarm items.
- The two adverse CRs regarding Fire Protection Contract Compliance are nearing completion. The final actions are the effectiveness reviews.
- Procedure updates are ongoing to improve the quality and ensure compliance with requirements.
- TSR Surveillances:
  - SWOC
    - 2T-15-07637 – T Plant 3 Month Combustible Surveillance (TSR)
  - PFP
    - ZAP-000-029, Checklist 2, Monthly 1 (TSR)
    - ZAP-000-029, Checklist 3, Bi-Weekly/Monthly 3 (TSR)
    - ZAP-000-029, Checklist 4, Weekly Fire Loading 4 (TSR)
    - Fire Sprinkler Deactivation Areas 1 (Some rooms are TSR)
    - FS Supply Valves 1 (TSR)
- There are twenty three Facility Fire Protection Assessments planned for 2016 as compared to 99 for 2015. Fourteen of the Assessments are associated with the B Plant Complex.
- Fire Hazard Analysis (FHA):
  - The 105KW Modified Annex Preliminary FHA Revision 6 was published.
  - The 105KW Complex FHA is in development.
  - The T Plant FHA is nearing completion.
  - The REDOX FHA is at 85 percent.
  - A new FHA for 241-Z-361 and 216-Z-9 is in development.
- Other Fire Protection Items:
  - SHS&Q-2016-WSA-13332 "Annual Review of Designated Hot Work Permits" was completed in January.
  - The Triennial Fire Protection Self-Assessment is in progress and scheduled for completion at the end of February.

    - Meetings have been held to improve IT&M issues between CHPRC, MSA Hanford Fire Department Fire System Maintenance and MSA Water Utilities.
- Status of SHS&Q Focus Areas:
    - **Issue:** Beryllium (Be) program assessment findings from DOE-HQ, Office of Safety, Health and Security Independent Oversight Inspection report.
    - **Status:** Continued implementation of Revision 2A across CHPRC. Comment resolution is complete for Revision 3 and is being routed for signature.
    - **Action:** Beryllium (Be) facility assessments and characterization continues as scheduled. Beryllium facility assessments have been completed on 1122 CHPRC facilities.
    - **Issue:** Accident & Injury Reduction.
    - **Status:** Continue investigating recordable, DART, and first aid injuries to determine cause, prevention, reduction, to prevent recurrence.
    - **Action:** Continued to interface with project personnel, supporting EZAC and project safety meetings for continued focus on injury prevention. Recordable injury trend across CHPRC has improved, but continued focus is necessary. Projects have identified and are implementing additional actions, which are resulting in reducing injuries and first aids.
    - **Issue:** PFP Value Engineering (VE) Initiatives Path Forward.
    - **Status:** Supporting PFP with three additional OS&IH personnel and three additional RadCon personnel, all from the SHS&Q Central group.
    - **Action:** Supporting PFP initiatives, supplied breathing air system issues; radiological & safety trends, outside limited area implementation, and DSA Revision 13 development and J plan waste path forward.
    - **Issue:** Fire Protection program weaknesses.
    - **Status:** Program weaknesses continue to be identified and corrective actions are underway to improve program. Additional personnel resources have been hired to support projects.
    - **Action:** Continued interface with MSA to work off CHPRC back log items on the MSA IT&M log and to improve MSA HFD support to CHPRC projects. Working with CHPRC projects to schedule and perform back log of facility fire protection assessments.

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

- **Compliance Status**
    - Worked with the Washington Department of Health (WDOH) in reviewing and suggesting changes to the draft approval licenses for the ventilation upgrades project at the WESF. Final license approvals are anticipated in early February.
    - Efforts continue to support RL and Ecology in preparation of the Revision 9 permit renewal for the Hanford Facility RCRA Permit. A major theme workshop with Ecology, RL and Site contractors was begun on the Hanford Site RCRA Part As. RL and Site contractors began discussions on Ecology's Major Theme Table for Site security. Support will be provided to RL's revision of the DOE/RL-91-28 document (contains permit application material common to all Hanford Site RCRA TSDs) to support the renewal effort.
    - Supported a WDOH tour of the WESF facility as part of its ventilation upgrades licensing effort, and the CHPRC portion of the Ecology site-wide inspection that focused on the RCRA dangerous waste training program and implementation.
    - In a related Hanford Facility RCRA Permit matter, support was provided to RL in finalizing understandings with Ecology on the content of a revision of the Hanford Emergency Management Plan. A last issue to resolve is Ecology's insistence on referencing Hanford Site procedures in the document. RL is resistant to this because it could potentially subject future procedure changes to Ecology approval.

- Support to PFP continued in the area of compliance with National Emission Standards for Hazardous Air Pollutants (NESHAP) asbestos standards. This included review of NESHAP asbestos thorough inspection reports.
- On January 28 received an advance copy of a WDOH to RL letter that appears to reclassify previous notices of High Priority Violations (HPV) for stack flow/monitoring issues at CSB, removal of continuous air monitors at B Plant and PUREX, and loss of continuous air sampling at PUREX to a "General Notice of Potential Violation." The letter requires a compliance plan within 45 days.
- On January 28, received an advance copy of an EPA to RL letter responding to RL's October letter challenging EPA's CERCLA offsite waste determinations for Solid Waste Operations Complex facilities. Essentially, EPA did not move off its original position. Currently under evaluation.

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

- **Assessment Program**
  - Completed a vendor assessment at the Stericycle Facility located in Kent, WA. On January 12-13, 2016. The final report was issued on January 29, 2016. Environmental compliance and compliance with quality assurance requirements specified in Basic Ordering Agreement (BOA) 53733, Modification 2 "Hazardous and Non-Hazardous Waste Treatment and Disposal" appeared adequate and the use of Stericycle to manage RL wastes is acceptable. In the area of Environmental, one finding and four recommendations were identified. In the area of Quality Assurance, one recommendation is identified.
  - Completed a walk down of D4 demolition activities at KBO&PR. The focus of the walk down was to validate removal of building debris, including Asbestos Contaminated Material. The inspection team was led by an AHERA qualified Building Inspector. One finding was identified to address asbestos containing material at the 207-A South stockpile staging area. This material was removed immediately by Project personnel.
  - A surveillance was conducted to assess compliance with sustainable procurement requirements. It was determine that Procurement Clause SP-5, Section 3.0, Environmental Protection, had been adequately placed in PTS, WESF and K-Area construction contracts over the last three years and that subcontractors provided acceptable environmental reports as required. Pesticide and herbicide purchases were reviewed for the last three years and, as found, all purchases underwent an appropriate environmental screening. Disposal of used pesticide/herbicide containers was also performed appropriately.

**Business Services**

- **Acquisition Planning:**
  - Reviewed the STP's request to acquire the services of AREVA for continued support on engineering services on the KW Basin Annex design and equipment installation. Met with Procurement to establish a basis for these activities that would require the use of multiple charge accounts for properly tracking and allocating costs.
  - Revised the acquisition strategy and drafted project documents for acquiring a waste transport trailer that would interface with a CHPRC trailer design.
  - Performed market research on, and made contact with, chemical manufacturers for the purposes of developing competitive responses to RFP 285022: 200W P&T Chemicals. The estimated award value is $10.4 million over the three-year period.
  - Drafted and reviewed a statement of work for obtaining software design and development services that will convert a CHPRC manual inspection/surveillance process to an electronic application. Developed the acquisition plan and coordinated activities with the CHPRC Information and Interface Management organization

- Developed the statement of work for providing technical support services associated with developing a project estimate for RCCC scope transition.
- Met with the S&GRP to develop a long-range plan for environmental services contract support. Concepts discussed included the establishment of competitively awarded master agreements that would serve the Project through the end of CHPRC's prime contract period.
- Developed the acquisition plan for installing eight wells at the 100-FR-3 Operable Units. The eight monitoring wells will be used to monitor natural attenuation of groundwater remedy actions in the 100 Area.
- Presented summary of business case analyses to the RCCC Transition executive review team.

- **Facilities & Property Management (F&PM):**
  - FY2015 KPMG property system audit results were forwarded from RL. System generally compliant. Six findings and five observations were noted. CAP formally requested from RL. CAP review with RL Property and Finance groups was held in late January. Formal CAP submittal expected to RL no later than February 4, 2016.
  - Continued with the re-aligning of asset responsibilities and assignments as a result of the split in the DWF&RS organization to KBO&PR and W&FMP. Re-alignment of assets and assignments complete for DWF&RS. 90 percent complete for separation of S&M to KBO&PR. New organizational codes established for personnel and assignments.
  - Work in process to transfer MO2102 back from WRPS to CHPRC at PFP. Waiting on WRPS to sign SF-122 to complete transfer in SAMS.
  - Efforts continued on installing two self-contained showers at PFP, two self-contained facilities at 100K which are nearing completion by February 4, 2016, and three facilities at B-Plant were completed in January.
- **Finance:**
  - Continued to support KPMG requests for data related to the ongoing FY2014 incurred cost audit.
  - January month end completed with no suspensions.
  - Rolled out the Time Information System (TIS) modification which requires non-exempt and bargaining unit employees to log-in and "save" at the beginning of every shift, and exempt employees to log-in and save at the beginning of paid overtime shifts. PRC-PRO-FM-045 *Labor Charging* procedure was revised to include requirements effective January 4, 2016.
- **Human Resources**
  - Completed the Wage Increase Expenditure Report deliverable for RL.
  - Received RL approval for the Company Service Recognition procedure and it was issued with communications to our employees regarding changes and process for consideration of prior service.
  - Four HR staff members attended the Tri-Cities Women in Business program held at TRAC.
  - HR team member attended the first meeting of the series for the Ascent Program.
- **Labor Relations:**
  - Awaiting arbitrator's award (anticipated in February) PRC-014-076 in regards to shift differential pay heard on November 18, 2015.
  - Arbitration originally scheduled for December 15-16, 2015, to address HAMTC's General Council grievance in regards to D&D activities at PFP has been postponed and parties are in discussions.
  - Three grievances (PRC-014-113, PRC-014-126, & PRC-015-003) scheduled for arbitration on January 20, 2016 were withdrawn by the union. Additionally, the union withdrew two (2) others in the arbitration process (PRC-014-121 and PRC-015-021).
  - No new grievances were requested by the Union to proceed to arbitration during this reporting period.

- **Procurement:**
  - Awarded/amended 164 contracts with a total value of $3.4 million. Additionally, awarded 111 new material purchase orders (PO) valued at $615,607 to support ongoing project objectives.
  - At the end of the first 88 months of the CHPRC project, procurement volume has been significant; $2.3 billion in contract activity has been recorded with approximately 52.35 percent, or $1.2 billion, in awards to small businesses. This includes 7,099 contract releases, 20,018 PO's, and 239,806 P-Card transactions.
  - Contract 58897 was awarded to Pinnacle Manufacturing, LLC on January 12, 2016. This is a firm fixed price contract for "Four Metal Storage Tanks." This award is valued at $74,000.00.
  - Contract 55705, Release 03 was awarded to Intermech on January 14, 2016. This is a firm fixed price contract for the "T-Plant Sludge Treatment Project Modifications." This award is valued at $3,295,685.00.
  - Contract 36538-87 was awarded to Watts Construction Inc. on January 11, 2016. This contract is firm fixed price for the construction of "well pads for the 4 wells in the 100-D, FY2016." This award is valued at $30,000.00.
  - Contract 36538-88 was awarded to Watts Construction Inc. on January 29, 2106. This contract is firm fixed price for the construction of eight well pads and seven roads in the 100-FR-3 to support the drilling campaign. This award is valued at $165,000.00.
  - Contract 52041 Release 36 was awarded to Ojeda Business Ventures on January 25, 2016. This contract is a fixed unit rate contract for craft labor support for the Annex at STP. This award is valued at $240,000.
  - Contract 57675, Release 3 was awarded to Babcock Services, Inc., on January 20, 2016. This is a labor hour contract for estimator support and the award is valued at $129,643.
  - Contract 53687, Releases 7 and 8 were awarded to Gram, Inc. on January 11, 2016. They are time and materials contracts for Geology Support for 7 wells in the 100 D&A Area. The contract releases are valued at approximately $45,000.
  - Contract 37351, Releases 102 – 106 were awarded to Tradewind Services, LLC, in the month of January 2016. These contract releases are labor hour contracts for contract labor support for two engineers, an industrial hygienist, a planner, and a health physicist. The total value for these releases is $485,854.

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

- **Contract Compliance and Change Management (CC&CM):**
  - In January, CC&CM received and processed 12 contract modifications (numbers 472-479, 481-483, and 489) from RL.
  - The Correspondence Review Team received and determined the distribution for 56 incoming letters/documents. The Prime Contract Compliance Manager reviewed 37 outgoing correspondence packages.
  - Reach agreement with RL on the definitization of the STP Sequestration REA as documented in CM 482 for an increase in contract cost of $9 million and fee of $500,000.
  - Submitted letter CHPRC-1600277, Notification of Change for impacts to 200-BP-5 and 200-PO-1 operable unit RI/FS and proposed plan, and letter CHPRC-1600417, Notification of Potential Impacts due to 200-DV-1 operable unit RI/FS and Resource Conservation and Recovery Act of 1976 Facility Investigation/Corrective Measures Study.
  - Continued RCCC Transition Planning:
    - Final Transition Plan was submitted to RL on January 8, 2016. Received RL comments on the CHPRC RCCC Transition Plan on January 31, 2016. Finalized the Extent of Condition Review and issued internally for review and comment. Incorporated MOD 466 that increased CO 289 Not to Exceed into the Performance Measurement Baseline via BCR for RL-0041 and 000's. Held deep dive briefings on make versus buy decisions. Received CM 483 with

direction to accelerate transition of 324 nuclear facility and ancillary buildings and 300-296 soil remediation project no later than April 30, 2016. It also includes transition of ERDF and 618-10 no later than August 30, 2016.

**Change Proposal (CP) /REA Summary**

| CPs submitted on or ahead of due date | CPs submitted after the due date | REAs submitted | Supplemental Information submitted/ Tina Sweep | CPs Definitized on or ahead of 180-day metric | CPs Definitized after 180-day metric | Other Proposals/ REAs Definitized |
|---|---|---|---|---|---|---|
| 1 | 0 | 0 | 2 | 2 | 2 | 3 |

- Estimating & Program Support (ESS) provided the following support to Projects and Programs.
  - Multiple Projects:
    - Initiated updated TINA review for REA 000 1498, *WSCF Closure Impacts*.
    - Supported definitization of Estimate 1529, *Hanford Site Lockout Tagout Procedure Revision* on January 14, 2016.
  - KBO&PR:
    - Supported definitization of REA 012 1519, *Impacts to PBS RL-0012 (STP) Work due to FY2013 Sequestration*, on January 9, 2016.
    - Supported implementation of CO 190, *622S Lysimeter Test Facility*, on January 6, 2016.
    - Supported definitization of REA 040 1449, *Surveillance and Maintenance for 200-ZP-1 Process Facility and Ancillary Buildings*, on January 28, 2016.
  - W&FMP:
    - Supported implementation of CO 280, *CWC Emergency Lighting*, on January 5, 2016.
    - Supported definitization of REA 013 1538, *231-Z-DR-11 Concrete Box Mitigation*, on January 6, 2016.
    - Supported definitization of CO 282, *Burial Grounds CA/HCAs to URMAs*, on January 11, 2016.
    - Supported definitization of CO 279, *SWITS Barcode Reader*, on January 18, 2016.
    - Provided supplemental information for CO 263, *ERDF Transfer Pipeline Construction*, on January 18, 2016.
  - S&GRP:
    - Supported definitization of CO 291, *200-IS-1 WIDS Information*, on January 5, 2016.
    - Provided supplemental information for CO 299, *200 West Pump and Treat System Membrane Bioreactor Cassette Additions*, on January 13, 2016.
    - Submitted change proposal CP 030 303 1588 Revision 0, *100-BC-5 Automated Water Level Network*, on January 25, 2016
  - ESS:
    - Sage Estimating and support vendor EOS, and LMSI continued working to install and configure Sage Estimating version 14.2 during January.
    - Continued database updates and data management.

- **Earned Value Management System (EVMS) Compliance and Reporting:**
  - Progress continued to be made on EVM Assessment Corrective Actions. As of month end, 54 of 68 actions had been completed (79 percent complete).
  - During January, EVMS C&R facilitated and supported the processing of 17 BCRs. This high volume of BCRs in a month, which is projected to continue for the foreseeable future, is driven by changes in RL priorities. COs including BCRs to incorporate scope associated with CO NTE amounts and CO definitization, implementation of the STP CAP, and CHPRC self-initiated BCRs related to initiatives to improve the quality of baseline planning and reporting.
  - Continued to support RCCC Transition planning with emphasis on developing the PMB and change proposals for scope that will transfer to CHPRC.
  - Efforts continued to create a compliance matrix to align with the recently developed EVMS Interpretation Handbook. Once completed, the Project Control System Description (PCSD) will be modified to align with the Handbook.
  - Efforts continued to develop computer based training for Accrual training, VAR training, and BCR training. Completion is targeted for early in CY2016.
  - Continued to lead CHPRC EVM training and Qualification initiative.
- **Information and Interface Management:**
  **Interface Management**
  - Interfaces (Technical, Administrative and Regulatory):
    - Clarified TIS approval roles for MSA dedicated resources embedded in CHPRC projects. MSA management will retain approval authority supported by weekly email confirmations from the project.
    - Informed MSA Water Utilities that WCH will be isolating the 100 Area Raw Water Fire Loop system. CHPRC confirmed that it would not need the fire loop functional after transition.
  - Annual Forecast of Services
    - Re-evaluating welder needs with MSA.
  - Inter-Contractor Issue Resolution:
    - Continue internal reviews and data call collection for the annual ISAP reporting request from MSA. ISAP information due to MSA February 4, 2016.
    - Provided input to the Ten Year Site Plan.
    - Attended weekly field interface and resource allocation meetings.
    - Participated in regular Interface Management leadership meetings with MSA and WRPS.
    - Hosted the December Contractor Interface Board meeting. Main topics discussed were HSPD-12 Implementation, Information Technology (IT) Contract Transition activities and December UBS Variances.
    - Facilitating discussions with WRPS regarding demolition activities at REDOX, adjacent to 222-S Laboratories. Added a section to TOC-AIA-PRC-00031 to address interfaces and necessary responses specific to the Laboratory contractor.
    - Continued working with Hanford Fire Department, CHPRC Projects (SWOC/PFP), and CHPRC Work Control to improve communications, and streamline planning/corrective maintenance items. Meeting weekly to document issues and resolution for inclusion into an interface document currently in development. The SDD J.3 ID#20 will be revised to include interim corrective measures until a more inclusive document can be drafted.
    - Continued working with MSA to develop an Administrative Interface Agreement (AIA) to ensure the Unreviewed Safety Question (USQ) process is completed for procedures and work/activities performed by MSA in CHPRC controlled nuclear facilities. CHPRC Nuclear Safety is reviewing the AIA.

- Controlling and Service Agreements:
  - Issued HNF-50602, Revision 1, *HAMMER Worker Trainer Program*.
  - Continued efforts in supporting annual review of the J.3 Service Delivery Documents.
  - Continued working with Engineering Services personnel to develop or revise an interface document with MSA Electrical Utilities.
  - Revision of HNF-46148, Water System Services, is in progress. Working with MSA to re-define the lines of demarcation for CHPRC facilities, and better define outage notification and response.
  - Working with WRPS to revise TOC-AIA-PRC-0031, Operations Interface for Activities within or adjacent to Nuclear Facilities; adding additional roles and responsibilities and aligning with current Nuclear Safety processes.
  - Supporting discussions with WRPS regarding the future use of the existing ERDF Leachate Transfer Line and additional tie-in interfaces related to the new Leachate Transfer Line to the 200W P&T.
- J.3 Table Maintenance-No significant action in January.
- J.13/J.14 Tables Maintenance:
  - Preparing internal review package for the latest J.13/J.14 table updates. This update will incorporate the recent transfer of ETF operations to WRPS among other assignments.
- Internal Operations:
  - Ongoing internal work site assessment of MSA Usage Based Service Statements of Work. Completion targeted for the end of February.
  - Assessing the continued need of the Plastic Shop services internal to CHPRC as well as discussing potential transfer with OHCs.
  - Prepared draft AIA to document a shared resource process with WCH during the transition activities.

- **Information Management:**
  - Provided IT, event logistics, and facilitation support to EZAC, PZAC, Ascent Training, and various onsite and offsite meetings.
  - Provided information clearance and release support for KBO&PR, S&GRP, W&FMP, SHS&Q and PTS documents.
  - Supported numerous IT support requests for cellular phone issues/questions, meeting set-up, network connections, and printing.
  - Completed final box of OCRWM records collection reconciliation at the Records Holding Area. MSA assessment and final closure report to be completed in January 2016.
  - Processed 23,446 Electronic Records into the Integrated Document Management System (IDMS).
- **Performance Analysis and Risk Management Integration (PARMI):**
  - The Monthly meeting between the Contractor Assurance and Regulatory Reporting, PARMI, and Projects was held on January 19, 2016. The purposes of the monthly meetings are to review productivity data, to determine if trends exist across the CHPRC, and to provide recommended actions related to Corrective Actions. Company level metrics are being evaluated by the PARMI organization, in addition to Project specific metrics that are evaluated at the Project level. The KBOPR and SGRP organizations are presenting their data/evaluations as a part of the Project monthly Continuous Improvement Meetings. "Dashboard Metrics" are being tracked on the PTL web page. Field Presentations and Training continued to be provided. Steps to automate Field Execution Schedule item integration into the PTL were piloted in January and are expected to be fully implemented during February.
  - Technical and Administrative support was provided to the STP during and after the DOE-HQ led EIR/ICE. Both review teams performed the on-site portion of their reviews the week of November 16, 2015. Actions identified during the Exit Briefing are being tracked; additional

actions from the draft report are being evaluated. Transmittal of CHPRC comments to the RL was completed January. Communication continues with both RL and the EIR/ICE teams to finalize and close actions.

- PRC-MD-PM-53058, *CHPRC Productivity Processes*, was published on December 9, 2015. The Management Directive (MD) describes the process for identifying, reviewing, and evaluating Productivity items. A Draft version of the PRC Procedure System (PPS) document that will replace PRC-MD-PM-53058 was routed for preliminary review in January.
- Comments for the Draft Revision to DOE-STD-1189, *Integration of Safety into the Design Process*, were compiled and transmitted to the Energy Facility Contractors Group (EFCOG) Safety Working Group for further consolidation and transmittal to DOE-HQ. Comments ranged from highly technical to philosophical to administrative.
- Progress continues to be made towards completion of the Productivity Corrective Actions. Completed 20 of 24 actions (83 percent).
- PARMI Risk Management staff provided Risk Analysis for the PFP, STP CAP, the WESF Stabilization and Ventilation Project, and numerous BCRs.
- Risk Management, Requirements Management, and Business Process Evaluation support was provided to the RCCC Transition Team. PARMI staff met with WCH Risk Management/Requirements Management staff in support of transition of WCH work scope to CHPRC. Program information was provided by the WCH staff. These efforts are expected to continue over the next several months.
- Internal review of the revision to CHPRC-MP-MS-19361, *CH2MHill Plateau Remediation Company Project Execution Plan*, was completed in January. An advance copy was transmitted to the RL for review and comment prior to official transmittal for concurrence.

**Project Technical Services**

- **Engineering Services**
  - Supported W&FMP in the review and evaluation of the SOW and Functional Design Criteria (FDC) for the design and fabrication of the WESF Cask Storage System (CSS).
  - Supported STP in establishing a defensible seismic evaluation for instruments mounted on the Sludge Transport and Storage Container (STSC). The STSC pressure boundary is required to withstand SDC-1 seismic loads while maintaining leak tightness.
  - Continued to review fabrication and construction submittals for the 200W P&T Facility safety platforms and handrails, the W-130 project (WESF Vent/Stabilization), and the STP ECRTS (Engineered Container Retrieval and Transfer System).
  - Continued to revise WESF facility procedures to support W-130 ventilation system operation, alarm response, and maintenance. These are central to the development of the ventilation system Operation Acceptance Test program.
  - Identified and interpreted requirements for arc flash labelling at S&GRP and KBO&PR.
- **Procedures and Training**
  - Supported development and approval of the Training and Qualification plan to support PFP readiness for Demolition.
  - Supported development of training and procedures to support STP.
  - Supported and participated in the Ecology Inspection on Dangerous Waste Training Plans.
  - Supported RL assessment on Training and Qualification Programs governed by DOE O 426.2.
  - Supported the implementation of Document Safety Analysis, Revision 12, for PFP.

- **Operations Program**
  - Supported Sub-Committee developing improved interface agreements between PRC and MSA/Fire System Maintenance.

- DOE-0336, Hanford Site Lockout/Tagout Procedure, Revision 2A gap training in progress.
- Starting Conduct of Operations Project assist visits this month.
- Continued RCCC Transition support.
- Conducted two Full-Up drills at PFP, and completed the Readiness Assessment / Site exercise on January 28, 2016.

- **Project Delivery**
  - ERDF Transfer Line:
    - Excavated and located 6" TEDF line for 3" tie in to 2WPT. Continued earthen berm to 200W P&T
    - PVC pipe construction in the RAD building.
  - W-130 Stabilization:
    - Commenced K3N Pad Form installation.
    - Continued with duct support excavation.
  - 289T Fluidized Bed Reactor and Carbon Separation platforms:
    - Mobilized for field erection.
- **KW Annex Construction**
  - Resolved final punch list items.
  - Prepared for Construction Completion Documentation (CCD) and Turnover to construction from the contractor.
  - Scheduled CCD walk down with contractors, February 2, 2016.
  - Issued RFP for preventative maintenance contract for the Annex building mechanical systems (i.e. Compressor/HVAC).
- **105 KW Basin Re-Lidding Construction**
  - Completed re-lidding of EC-220 (2 out of 6 complete).
  - Removed top two sections from EC-230 and mobilized divider plate into position and prepared for installation (target completion February 1, 2016) dive into Basin.
  - Continued bolt removal on EC-250, 95 percent complete – (4 out of 6 complete).
  - Mobilized new lid for EC-230 into Basin and moved new lids for EC-240, 250 & 260 into Facility Room 3 (6 out 6 lids are in the Basin).
  - Issue RFP for Ingress/Egress and doghouse installation in 105 KW Basin.
- **T Plant Modification Construction**
  - T Plant Construction Kick-Off Meeting held on January 25, 2016. The project has begun the submittal review and approval process.
  - Enhanced Work Planning for NLOP removal has started and on schedule to complete on February 11, 2016.

**Communications**

- Communications developed a story that ran in the EM Newsletter on progress within the Plutonium Reclamation Facility and a partnership with Savannah River National Laboratory to measure contamination within the PRF canyon.
- Communications supported the public involvement process for the WESF Temporary Authorization, working with RL to design and distribute informational materials to the public.
- Communications worked with RL to develop a social media post for the grouting of the PRF canyon.

# 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** | 0.4 | 0.8 | 0.3 | 0.4 | 101.2% | 0.5 | 62.9% |
| **Internal Audit** | 0.1 | 0.1 | 0.1 | 0.0 | 0.0% | 0.0 | 34.8% |
| **General Counsel** | 0.1 | 0.1 | 0.1 | 0.0 | 0.0% | 0.1 | 39.4% |
| **Communications** | 0.1 | 0.1 | 0.1 | 0.0 | 0.0% | 0.0 | 19.0% |
| **Safety, Health, Security and Quality** | 1.3 | 1.3 | 1.2 | 0.0 | 0.0% | 0.1 | 6.1% |
| **Environmental Program and Strategic Planning** | 0.4 | 0.4 | 0.3 | 0.0 | 0.0% | 0.2 | 36.4% |
| **Business Services** | 1.8 | 1.8 | 0.3 | 0.0 | 0.0% | 1.5 | 81.9% |
| **Prime Contract and Project Integration** | 1.8 | 1.8 | 1.7 | 0.0 | 0.0% | 0.1 | 7.6% |
| **Project Technical Services** | 0.6 | 0.6 | 0.4 | 0.0 | 0.8% | 0.2 | 30.8% |
| **Indirect WBS 000 Total** | **6.8** | **7.2** | **4.5** | **0.4** | **6.4%** | **2.7** | **37.6%** |

Numbers are rounded to the nearest $0.1M.

### Indirect WBS 000

**CM Schedule Performance: (+$0.4M/+6.4%)**
The variance is within reporting thresholds.

**CM Cost Performance: (+2.7M/+37.6%)**
The variance is within reporting thresholds.

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

| WBS 000 Project Services and Support | Budgeted Cost of Work Scheduled | Budgeted Cost of Work Performed | Actual Cost of Work Performed | Schedule Variance ($) | Schedule Variance (%) | Cost Variance ($) | Cost Variance (%) | Budget at Completion (BAC) |
|---|---|---|---|---|---|---|---|---|
| **Office of the President** | 1.0 | 1.5 | 1.6 | 0.5 | 50.2% | (0.1) | -7.5% | 3.2 |
| **Internal Audit** | 0.3 | 0.3 | 0.3 | 0.0 | 0.0% | 0.1 | 23.2% | 1.1 |
| **General Counsel** | 0.4 | 0.4 | 0.3 | 0.0 | 0.0% | 0.2 | 39.0% | 1.5 |
| **Communications** | 0.3 | 0.3 | 0.3 | 0.0 | 0.0% | (17.5) | -5.5% | 1.0 |
| **Safety, Health, Security and Quality** | 4.5 | 4.5 | 3.8 | 0.0 | 0.0% | 0.7 | 15.0% | 14.8 |
| **Environmental Program and Strategic Planning** | 1.5 | 1.5 | 1.4 | 0.0 | 0.0% | 0.2 | 10.0% | 5.0 |
| **Business Services** | 6.3 | 6.3 | 4.8 | 0.0 | 0.0% | 1.5 | 23.4% | 20.7 |
| **Prime Contract and Project Integration** | 6.3 | 6.3 | 6.4 | 0.0 | 0.0% | (0.1) | -2.2% | 20.7 |
| **Project Technical Services** | 2.1 | 2.1 | 2.0 | 0.0 | 0.3% | 0.1 | 5.7% | 6.9 |
| **Indirect WBS 000 Total** | **22.8** | **23.3** | **20.9** | **0.5** | **2.3%** | **2.4** | **10.3%** | **75.0** |

Numbers are rounded to the nearest $0.1M.

**Indirect WBS 000**
**FYTD Schedule Performance: (+$0.5M/+2.3%)**
The variance is within reporting thresholds.

**FYTD Cost Performance: (+2.4M/+10.3%)**
The variance is within reporting thresholds.

# FY2016 G&A Analysis
## ($M)

| WBS 000 Project Services and Support | FY2016 FYTD BCWS | FYTD Actual | FYTD Variance (O)/U | | FY2016 BCWS | FY2016 Forecast | FY2016 Variance (O)/U |
|---|---|---|---|---|---|---|---|
| **General & Administrative (G&A)** | **22.8** | **20.9** | **1.9** | | **75.0** | **75.1** | **(0.1)** |
| Office of the President | 1.0 | 1.6 | (0.6) | | 3.2 | 5.9 | (2.7) |
| Internal Audit | 0.3 | 0.3 | 0.1 | | 1.1 | 1.2 | (0.0) |
| General Counsel | 0.4 | 0.3 | 0.2 | | 1.5 | 1.2 | 0.3 |
| Communications | 0.3 | 0.3 | (0.0) | | 1.0 | 1.3 | (0.2) |
| Safety, Health, Security and Quality | 4.5 | 3.8 | 0.7 | | 14.8 | 13.2 | 1.7 |
| Env. Program & Strategic Planning | 1.5 | 1.4 | 0.2 | | 5.0 | 4.8 | 0.3 |
| Business Services | 6.3 | 4.8 | 1.5 | | 20.7 | 19.5 | 1.2 |
| Prime Contract and Project Integration | 6.3 | 6.4 | (0.1) | | 20.7 | 20.8 | (0.1) |
| Project Technical Services | 2.1 | 2.0 | 0.1 | | 6.9 | 7.4 | (0.5) |

| | FYTD | FY2016 |
|---|---|---|
| **G&A Distribution** | **(20.1)** | **(73.2)** |
| **G&A Liquidation (Over)/Under** | **0.8** | **1.9** |

**Liquidation Analysis**
For January application of the G&A rate has under-liquidated total to date G&A cost by $0.8 million. The FY2016 year-end projected under-liquidation of $1.9 million reflected in the FYSF reflects a projected increase in the G&A costs.

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

# MAJOR ISSUES

None currently identified.

# RISK MANAGEMENT STATUS

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

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

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

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

Increased Confidence
No Change
Decreased Confidence

| Risk Title | Unmitigated Risk Impacts | Assessment | | Comments |
|---|---|---|---|---|
| | | Month | Trend | |
| **Executive Level Risks** | | | | |
| **Explanation of major changes to the project monthly stoplight chart:** No major changes to the risk profile for the month of January. | | | | |
| **Realized Risks** (Risks that are currently impacting project cost/schedule) | | | | |
| PRC-022: Higher Than Anticipated Attrition | Higher than planned attrition or staffing reduction is experienced resulting in project schedule delays, and increased training costs.<br><br>**Risk Handling Strategy:** Avoid<br><br>**Probability:** Likely (75% to 90%)<br>**Worst Case Impacts:** $5 million, 40 days |  |  | **Risk Event:** CHPRC continues to experience higher than anticipated attrition for FY2015.<br><br>**Recovery Action Assessment:** No changes in the month of January. CHPRC continues to increase recruitment, and analysis of comparable markets for salary competitiveness. Potential problems exist pending funding profiles for other site contractors. No alternative course of actions needed at this time. |
| **Critical Risks** (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed) | | | | |
| No critical risks identified in the month of January. | | | | |
| **High Risk Threat Value** (Recoverable slip to enforceable or incentivized milestone) | | | | |
| No high threat value risks identified in the month of January. | | | | |
| **Unassigned Risks** (Pending ownership of identified risks/opportunities) | | | | |
| CHPRC continues to conduct internal reviews to ensure risks are still valid. In cases where risk has passed/or is no longer valid CHPRC will no longer report, and close the risk in the database. In the event risk are still valid ownership will need to be established to further identify and address potential impacts to project cost and schedule. There are cases when risks are identified but are outside the control and management of the contractor. However, CHPRC risk management process identifies all risks that could impact overall project success. | | | | |

| Risk recovery action(s) | Risk Date | FC Date | % |
|---|---|---|---|
| Implement salary increase fund | FY2015 | Complete | 100 |
| Proposed PFP incentive program | | Complete | 100 |
| Draft retention and recruiting plan investment for FY2015. | | Complete | 100 |
| Develop/implement CHPRC People Legacy Program. | | On Going | N/A |
| Target recruiting for key project resources | | 9/30/16 | 30 |
| Continue PFP resource transition plan for FY2016 | | 9/30/16 | 30 |
| River Corridor Closure recruitment for FY2016 | | 9/30/16 | 30 |

# MILESTONE STATUS

None currently identified.

# SELF-PERFORMED WORK

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

# GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None identified.

# Appendix C
# Capital Asset Projects

January 2016
CHPRC-2016-01, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

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

T. E. Bratvold
Vice President for
PFP Closure Project

January 2016
CHPRC-2016-01, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

# PROJECT SUMMARY

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

| *Key Metrics* | *Current Month Plan* | *Current Month Actuals* | *Cumulative Plan* | *Cumulative Actuals* |
|---|---|---|---|---|
| Glovebox/Hood Removed | - | - | 174 | 162 |
| KPP Rooms/Areas Ready for Demo | - | - | 60 | 60 rooms/areas |

**Summary:**
The removal of plutonium-contaminated process equipment continued with a particular focus on removing gloveboxes, associated piping, and ductwork. The total number of gloveboxes removed to date is at 93 percent complete.

# KEY ACCOMPLISHMENTS

**234-5Z**

- RMA Line:
  - o Continued size reduction on Glovebox HA-9A.

# 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 Revision 12 has been implemented. Minor modifications to DSA/TSR Revision 12 to clarify and refine controls was submitted to RL as a Revision 13. This issue will be closed in February monthly reporting.

# CONTRACT PERFORMANCE REPORT
## FORMAT 1 - WORK BREAKDOWN STRUCTURE

DOLLARS IN: Thousands of $

FORM APPROVED
OMB No. 0704-0188

| 1. CONTRACTOR | 2. CONTRACT | 3. PROGRAM | 4. REPORT PERIOD |
|---|---|---|---|
| a. NAME: CH2M HILL Plateau Remediation Company | a. NAME: Plateau Remediation Contract | a. NAME: RL 0011 C1 - PFP D&D (ARRA/Base) | a. FROM (YYYYMMDD): 2015 / 12 / 21 |
| b. LOCATION (Address and ZIP Code): Richland, WA | b. NUMBER: RL14788 | b. PHASE: | b. TO (YYYYMMDD): 2016 / 01 / 24 |
| | c. TYPE: CPAF; d. SHARE RATIO: | c. EVMS ACCEPTANCE: NO: ; X; YES: (YYYYMMDD) 2009 / 09 / 18 | |

**5. CONTRACT DATA**

| a. QUANTITY | b. NEGOTIATED COST | c. ESTIMATED COST OF AUTHORIZED UNPRICED WORK | d. TARGET PROFIT/FEE | e. TARGET PRICE | f. ESTIMATED PRICE | g. CONTRACT CEILING | h. ESTIMATED CONTRACT CEILING | i. DATE OF OTB/OTS (YYYYMMDD) |
|---|---|---|---|---|---|---|---|---|
| 1 | 317,545 | 0 | 9,878 | 327,423 | 344,765 | 327,423 | 344,765 | |

**6. ESTIMATED COST AT COMPLETION**

| | MANAGEMENT ESTIMATE AT COMPLETION (1) | CONTRACT BUDGET BASE (2) | VARIANCE (3) |
|---|---|---|---|
| a. BEST CASE | 332,494 | | |
| b. WORST CASE | 335,038 | | |
| c. MOST LIKELY | 334,887 | 317,545 | -17,342 |

**7. AUTHORIZED CONTRACTOR REPRESENTATIVE**

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

b. TITLE: Prime Contract Manager

c. SIGNATURE:

d. DATE SIGNED (YYYYMMDD):

**8. PERFORMANCE DATA**

| CAPN.PBS Control Account.PARS 2 WBS (2) ITEM (1) | CURRENT PERIOD: BUDGETED COST WORK SCHEDULED (2) | BUDGETED COST WORK PERFORMED (3) | ACTUAL COST WORK PERFORMED (4) | VARIANCE SCHEDULE (5) | VARIANCE COST (6) | CUMULATIVE TO DATE: BUDGETED COST WORK SCHEDULED (7) | BUDGETED COST WORK PERFORMED (8) | ACTUAL COST WORK PERFORMED (9) | VARIANCE SCHEDULE (10) | VARIANCE COST (11) | REPROGRAMMING ADJUSTMENTS: COST VARIANCE (12a) | SCHEDULE VARIANCE (12b) | BUDGET (13) | AT COMPLETION: BUDGETED (14) | ESTIMATED (15) | VARIANCE (16) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RL-0011 Nuclear Mat Stab & Disp | | | | | | | | | | | | | | | | |
| RL_0011_C1.02 Maintain Safe B | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| RL_0011_C1.05 Disposition PFP | 222 | 21 | 291 | -201 | -271 | 235,012 | 233,591 | 257,940 | -1,420 | -24,349 | 0 | 0 | 0 | 235,514 | 259,707 | -24,193 |
| RL_0011_C1.06 Project Manage | 0 | 0 | 0 | 0 | 0 | 11,990 | 11,990 | 12,477 | 0 | -487 | 0 | 0 | 0 | 11,990 | 12,477 | -487 |
| RL_0011_C1.90 Usage Based Se | 0 | 0 | 0 | 0 | 0 | 7,221 | 7,221 | 7,731 | 0 | -510 | 0 | 0 | 0 | 7,221 | 7,731 | -510 |
| RL_0011_C1.98 Ramp-up and tr | 0 | 0 | 0 | 0 | 0 | 19,399 | 19,399 | 19,253 | 0 | 147 | 0 | 0 | 0 | 19,399 | 19,253 | 147 |
| RL_0011_C1.99 PBS RL-11 UBS, | 0 | 0 | 0 | 0 | 0 | 41,028 | 41,028 | 33,328 | 0 | 7,700 | 0 | 0 | 0 | 41,028 | 33,328 | 7,700 |
| b. COST OF MONEY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| c. GENERAL AND ADMINISTRATIVE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| d. UNDISTRIBUTED BUDGET | | | | | | | | | | | | | | 0 | 0 | 0 |
| e. SUBTOTAL | 222 | 21 | 291 | -201 | -271 | 314,649 | 313,229 | 330,727 | -1,420 | -17,499 | 0 | 0 | 0 | 315,152 | 332,494 | -17,342 |
| f. MANAGEMENT RESERVE | | | | | | | | | | | | | | 2,393 | | |
| g. TOTAL | 222 | 21 | 291 | -201 | -271 | 314,649 | 313,229 | 330,727 | -1,420 | -17,499 | 0 | 0 | 0 | 317,545 | | |

**9. RECONCILIATION TO CONTRACT BUDGET BASELINE**

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. VARIANCE ADJUSTMENT | | | | | | | | | | | | | | | | |
| b. TOTAL CONTRACT VARIANCE | | | | | | | | | -1,420 | -17,499 | | | | 317,545 | 332,494 | -14,949 |

## 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<br>CH2M HILL Plateau Remediation Company | a. NAME<br>Plateau Remediation Contract | a. NAME<br>RL 0011 C1 - PFP D&D (ARRA/Base) | a. FROM (YYYYMMDD)<br>2015 / 12 / 21 |
| b. LOCATION (Address and ZIP Code)<br>Richland, WA | b. NUMBER<br>RL14788 | b. PHASE | b. TO (YYYYMMDD)<br>2016 / 01 / 24 |
| | c. TYPE<br>CPAF | d. SHARE RATIO | c. EVMS ACCEPTANCE<br>NO / X / YES (YYYYMMDD) 2009 / 09 / 18 |

5. PERFORMANCE DATA

| WBS/Resp Org Group | CURRENT PERIOD | | | | | CUMULATIVE TO DATE | | | | | REPROGRAMMING ADJUSTMENTS | | | AT COMPLETION | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | BUDGETED COST | | ACTUAL | VARIANCE | | BUDGETED COST | | ACTUAL | VARIANCE | | | | | BUDGETED | ESTIMATED | VARIANCE |
| ITEM | WORK SCHEDULED | WORK PERFORMED | COST WORK PERFORMED | SCHEDULE | COST | WORK SCHEDULED | WORK PERFORMED | COST WORK PERFORMED | SCHEDULE | COST | COST VARIANCE | SCHEDULE VARIANCE | BUDGET | | | |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12a) | (12b) | (13) | (14) | (15) | (16) |
| 35 - Business Services | 0 | 0 | 0 | 0 | 0 | 60,427 | 60,427 | 52,580 | 0 | 7,847 | 0 | 0 | 0 | 60,427 | 52,580 | 7,847 |
| 38 - PFP Closure Project | 222 | 21 | 291 | -201 | -271 | 254,222 | 252,802 | 278,147 | -1,420 | -25,345 | 0 | 0 | 0 | 254,725 | 279,914 | -25,189 |
| b. COST OF MONEY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| c. GENERAL AND ADMINISTRATIVE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| d. UNDISTRIBUTED BUDGET | | | | | | | | | | | | | | 0 | 0 | 0 |
| e. SUBTOTAL (Performance Measurement Baseline) | 222 | 21 | 291 | -201 | -271 | 314,649 | 313,229 | 330,727 | -1,420 | -17,499 | 0 | 0 | 0 | 315,152 | 332,494 | -17,342 |
| f. MANAGEMENT RESERVE | | | | | | | | | | | | | | 2,393 | | |
| g. TOTAL | 222 | 21 | 291 | -201 | -271 | 314,649 | 313,229 | 330,727 | -1,420 | -17,499 | 0 | 0 | 0 | 317,545 | | |

| CONTRACT PERFORMANCE REPORT<br>FORMAT 3 - BASELINE | | | DOLLARS IN THOUSANDS | Form Approved<br>OMB No. 0704-0188 |
|---|---|---|---|---|
| 1. CONTRACTOR<br>CH2M HILL Plateau Remediation Company<br>b. LOCATION:<br>Richland, WA | 2. CONTRACT<br>a. NAME: Plateau Remediation Contract<br>b. NUMBER: RL14788<br>c. TYPE: CPAF<br>d. SHARE RATIO: | 3. PROGRAM<br>a. NAME:<br>b. PHASE<br>c. EVMS ACCEPTANCE<br>NO YES X 9/18/2009 | RL_0011_C1 - PFP D&D (ARRA/Base)<br>Plateau Remediation Contract | 4. REPORT PERIOD<br>a. FROM: 2015/12/21<br>b. TO: 2016/01/24 |

5. CONTRACT DATA

| a. ORIGINAL NEGOTIATED COST | b. NEGOTIATED CONTRACT CHANGE | c. CURRENT NEGOTIATED COST (A + B) | d. ESTIMATED COST AUTH UNPRICED WORK | e. CONTRACT BUDGET BASE (C + D) | f. TOTAL ALLOCATED BUDGET | g. DIFFERENCE (E - F) |
|---|---|---|---|---|---|---|
| 317,546 | $0 | $317,546 | $0 | $317,546 | $317,546 | $0 |

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

6. PERFORMANCE DATA

| ITEM | BCWS CUM TO DATE | BCWS FOR REPORT PERIOD | BUDGETED COST FOR WORK SCHEDULED (NON - CUMULATIVE) SIX MONTH FORECAST +1 Feb-16 | +2 Mar-16 | +3 Apr-16 | +4 May-16 | +5 Jun-16 | +6 Jul-16 | FY09-13 | FY14 | FY15 | FY16 | FY17 | FY18 | UNDISTRIB BUDGET | TOTAL BUDGET |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) | (17) |
| a. PM BASELINE | | | | | | | | | | | | | | | | |
| **(BEGIN OF PERIOD)** | **314,427** | **222** | **165** | **183** | **0** | **0** | **0** | **0** | **302,288** | **4,109** | **7,749** | **890** | **116** | **0** | **0** | **315,152** |
| **b. BASELINE CHANGES AUTH DURING REPORT PERIOD** | | | | | | | | | | | | | | | | |
| None during the reporting period | | | | | | | | | | | 0 | 0 | 0 | 0 | | 0 |
| **c. PM BASELINE (END OF PERIOD)** | **314,649** | **222** | **165** | **183** | **0** | **0** | **0** | **0** | **302,288** | **4,109** | **7,749** | **890** | **116** | **0** | **0** | **315,152** |
| **7. MANAGEMENT RESERVE** | | | | | | | | | | | | | | | | **2,394** |
| **8. TOTAL** | | | | | | | | | | | | | | | | **317,546** |

## CONTRACT PERFORMANCE REPORT
### FORMAT 4 - STAFFING

Dollars In: FTE

FORM APPROVED
OMB No. 0704-0188

| 1. CONTRACTOR | 2. CONTRACT | 3. PROGRAM | 4. REPORT PERIOD |
|---|---|---|---|
| a. NAME<br>CH2M HILL Plateau Remediation Company | a. NAME<br>Plateau Remediation Contract | a. NAME<br>RL-0011_C1 - PFP D&D (ARRA/Base) | a. FROM (YYYYMMDD)<br>2015 / 12 / 21 |
| b. LOCATION (Address and ZIP Code)<br>Richland, WA | b. NUMBER<br>RL14788 | b. PHASE | b. TO (YYYYMMDD)<br>2016 / 01 / 24 |
| | c. TYPE<br>CPAF | d. SHARE RATIO | c. EVMS ACCEPTANCE (YYYYMMDD) 2009 / 09 / 18<br>NO X YES |

5. PERFORMANCE DATA

| ORGANIZATIONAL CATEGORY (1) | WBS Resp Org Group | ACTUAL CURRENT PERIOD (2) | ACTUAL END OF CURRENT PERIOD (Cumulative) (3) | FORECAST (Non-Cumulative) | | | | | | | | | | | | AT COMPLETION (15) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | SIX MONTH FORECAST BY MONTH (Enter names of months) | | | | | | ENTER SPECIFIED PERIODS | | | | | | |
| | | | | +1 FEB 2016 (4) | +2 MAR 2016 (5) | +3 APR 2016 (6) | +4 MAY 2016 (7) | +5 JUN 2016 (8) | +6 REMAIN FY16 (9) | FY17 (10) | FY18 (11) | FY19-FY24 (12) | ATCOMPLETE (13) | (14) | | |
| 33 - Business Services | | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 17 |
| 38 - PFP Closure Project | | 19 | 15325 | 20 | 14 | 0 | 12 | 22 | 14 | 9 | 0 | 0 | 0 | 0 | | 15416 |
| g. TOTAL DIRECT | | 19 | 15342 | 20 | 14 | 0 | 12 | 22 | 14 | 9 | 0 | 0 | 0 | 0 | | 15433 |

-

CLASSIFICATION (When Filled In)

CONTRACT PERFORMANCE REPORT

FORMAT 5 - Explanations and Problem Analysis

FORM APPROVED
OMB No. 0704-0188

| 1. CONTRACTOR | 2. CONTRACT | | 3. PROGRAM | | | | 4. REPORT PERIOD |
|---|---|---|---|---|---|---|---|
| a. NAME | a. NAME | | a. NAME | | | | a. FROM (YYYYMMDD) |
| CH2M HILL Plateau Remediation Company | Plateau Remediation Contract | | RL 0011_C1 - PFP D&D (ARRA/Base) | | | | |
| b. LOCATION (Address and ZIP Code) | b. NUMBER | | b. PHASE | | | | 2015 / 12 / 21 |
| Richland, WA | RL14788 | | | | | | b. TO (YYYYMMDD) |
| | c. TYPE | d. SHARE RATIO | c. EVMS ACCEPTANCE | | | | |
| | CPAF | | No | X | Yes | (YYYYMMDD) 2009 / 09 / 18 | 2016 / 01 / 24 |

5. Evaluation

Direct Projects

| | Budget | Earned | Actuals | SV in $ | SV in % | CV in $ | CV in % | SPI | CPI |
|---|---|---|---|---|---|---|---|---|---|
| Current: | 222 | 21 | 291 | -201 | -91% | -271 | -1304% | 0.09 | 0.07 |
| Cumulative: | 314,649 | 313,229 | 330,727 | -1,420 | 0% | -17,499 | -6% | 1.00 | 0.95 |
| | BAC | EAC | VAC in $ | VAC in % | TCPI to BAC | TCPI to EAC | | | |
| At Complete: | 315,152 | 332,494 | -17,342 | -6% | - | 1.09 | | | |

**Explanation of Variance/Description of Problem:**

Schedule Variance: The current month negative schedule variance is due to CHPRC PFP management initiating a safety pause that commenced on December 16 and not lifted until January 10. This safety pause resulted in the requirement for the in-situ team to place their workplace into a safe configuration entering the pause and once the safety pause was lifted, reconfiguring their workspace for D&D. In total, the team performed one shift of D&D work for the entire fiscal month of January. This resulted in a loss of 35 calendar days from the critical path.

Cost Variance: The negative cost variance for the month of January was caused by a CHPRC PFP management safety pause initiated on December 16, 2015. See the above discussion for an explanation of the variance/description of the problem.

**Impact:**

Schedule Impact: The RL-011.C1 project baseline date is November 16, 2016, with the impacts of the safety stand down, the current schedule now reflects reflecting a completion date of January 11, 2017, a slip of 35 calendar days since December 2015. The current RL-11 PBS performance baseline schedule indicates that the PFP project will achieve slab-on-grade by January 19, 2017. With the impacts of the safety stand down, The current schedule shows that the work scope to meet the completion of the TPA milestone will not complete until March 7, 2017, a slip of 35 calendar days since December 2015. The project expects to continue progress at the rate that has been experienced in the past several months prior to the safety pause; however, even with the implementation of new initiatives (i.e., breathing air, high mass glovebox initiative, foaming, grouting, etc.) the impacts of the safety pause has further increased the risk the PFP Project not meeting the TPA milestone M-083-00A due date of 9/30/16 for achieving slab-on-grade.

Cost Impact: Cost variance is not considered recoverable. Past performance and successful implementation of the above actions are reflected in the EAC. Considering the historical negative cost variance of 5.6% and CPI of .95 and ~$17.5M cost variance to date and impacts of the safety pause, the projected EAC has been increased by $2.4M resulting in a VAC of ~$17.3M. This is due to extended duration of the timing to complete size reduction of the HA-9A glovebox as a result of impacts from stop works/safety pauses and incorporation of the use of the PreMaire breathing air suits that will be used to mitigate exposure to the worker and ease in in-situ size reduction of gloveboxes and transferred scope for removal of the gloveboxes from the facility to meet the end point criteria of the Project Execution Plan. As efficiencies continue to be recognized, the EAC will be adjusted. It is not expected that the entire cost variance will be recovered as there is only a small amount of scope remaining to complete the KPP.

**Corrective Action:**

Schedule: Implementation of DSA Revision 12 will allow for removal of confinement walls and therefore provide egress access for gloveboxes marked for removal prior to demolition of 234-5Z. Action: Ruben Trevino 1/16/16 (COMPLETE)

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

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

Cost variance is not considered recoverable.

NOTE: To eliminate the need for modifications and allow resources to concentrate on recovering schedule to assist the project in getting the 234-5Z facility demolished, with the exception of one glovebox that has high gram values too high to be left in place (HA-9A), the remaining gloveboxes have been removed from E-4 ventilation and will be removed from the building during demolition preparations and demolition of the 234-5Z facility in FY2016. This approach has been incorporated into the baseline as noted in the CM Variance explanation.

The following items are addressed, as applicable, per the EVMSIH:

1. Schedule Margin Analysis: N/A
2. IMS Data dictionary Changes: N/A
3. Forecast Schedule with No Baseline: N/A
4. UB Balance: N/A
5. Negative ACWP: N/A
6. EAC Analysis: Best Case = EAC; Most Likely = EAC + MR; Worst Case = ECWR or BCWR (whichever is greater) + ACWP + MR + Trend Log values not already included.
7. Negative CV > VAC: N/A
8. MR Transactions: N/A
9. Freeze Period Changes: N/A
10. Retroactive Changes: N/A
11. Indirect Variances: N/A

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

# CORRECTIVE ACTION LOG

| Control Account | Task Title | FY Year/ Month | CAM | Status | Forecast Completion | Actual Completion | Assigned To |
|---|---|---|---|---|---|---|---|
| 011.05.01.01 | DSA Revision 12 Implementation | 2016/01 | Trevino, Ruben A | Open | 1/16/16 | | Trevino, Ruben A |

# RISK MANAGEMENT STATUS

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

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

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

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

Increased Confidence
No Change
Decreased Confidence

| Risk Title Risk Owner | Unmitigated Risk Impacts | Assessment Month | Assessment Trend | Comments |
|---|---|---|---|---|
| **RL-0011/WBS-011.05.01.01.06 (CAP.1)** | | | | |
| **Explanation of major changes to the project monthly stoplight chart:** No major changes to the monthly stoplight chart in the month of January. | | | | |
| **Realized Risks** (Risks that are currently impacting project cost/schedule) | | | | |
| No realized risks identified for RL-0011/WBS-011.05.01.01.06 (CAP.1) in the month of January. | | | | |
| **Critical Risks** (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed) | | | | |
| **FY2016 Risk Triggers** (Risk could be realized in FY2016) | | | | |
| PFP-DEMO-21: Glove Box/Equipment Removal/Demolition Material Handling Event | A material handling event (e.g., dropped piece of process equipment) occurs during the PFP demolition resulting in cost impacts and schedule delays.<br>**Risk Handling Strategy:** Accept<br><br>**Probability:** Low (10% to 25%)<br>**Worst Case Impacts:** $150K, 44 days |  |  | **Risk Trigger:** During pre-demolition/demolition activities in FY2016.<br>Mitigation action(s) \| FC Date \| %<br>None identified at this time. \| N/A \| N/A<br><br>**Mitigation Assessment:**<br>No change in the month of January.<br>The mitigation strategies have been put in place, as a result, the risk strategy is to accept with no further mitigation actions identified at this time. PFP will continue to adhere to the CHPRC ISMS program/ hoisting and rigging program to include detailed analyses of potential hazards and identification of preventive measures to implement prior to starting the work.<br>At this time no alternative course of actions needed. |
| **High Risk Threat Value** (Recoverable slip to enforceable or incentivized milestone) | | | | |
| **FY2016 Risk Triggers** (Risk could be realized in FY2016) | | | | |
| PFP-GB-08: KPP Room Recovery After Contamination Event | An industrial accident or contaminated worker events necessitate a safety stand down or other corrective actions resulting in cost impacts, and schedule delays.<br>**Risk Handling Strategy:** Accept<br><br>**Probability:** Medium (26% to 74%)<br>**Worst Case Impacts:** $375K, 44 days |  |  | **Risk Trigger:** During insitu size reduction activities within RMA/RMC (9A, 9B, 18M). Dates tracked in the FES.<br>Mitigation action(s) \| FC Date \| %<br>None identified at this time. \| N/A \| N/A<br><br>**Mitigation Assessment:**<br>No change in the month of January.<br>The mitigation strategies have been put in place, as a result, the risk strategy is to accept with no further mitigation actions identified at this time. PFP will continue to adhere to Worker Safety Programs, and implement corrective actions as part of the ISMS feedback loop.<br>At this time no alternative course of actions needed. |
| PFP-GB-09: Bulk Area clean-out scope Increase for KPP Scope | Additional bulk area clean-out results in schedule delays due to contamination events in rooms 228A -228C and 235A3 after Insitu-size reduction activities are complete.<br>**Risk Handling Strategy:** Accept<br><br>**Probability:** Low (10% to 25%)<br>**Worst Case Impacts:** $0, 16 days |  |  | **Risk Trigger:** During insitu size reduction activities within RMA/RMC (9A, 9B, 18M). Dates tracked in the FES.<br>Mitigation action(s) \| FC Date \| %<br>None identified at this time. \| N/A \| N/A<br><br>**Mitigation Assessment:**<br>No change in the month of January.<br>The mitigation strategies have been put in place, as a result, the risk strategy is to accept with no further mitigation actions identified at this time. |

| | | | | |
|---|---|---|---|---|
| | *Cost increase will result in cost per day impacts from crews, and hotel load. | | | At this time no alternative course of actions needed. |
| **Unassigned Risks** (Pending ownership of identified risks/opportunities) | | | | |
| No unassigned risks identified for RL-0011 in the month of January. | | | | |

**Critical Path Schedule**

The critical path for this project runs through PFP non-capital asset activities. The PFP Critical Schedule Path to removal of the gloveboxes from the 234-5Z facility and RL-0011.C1 capital asset project flows through the 234-5Z duct level and filter box removal, then to the final focused decontamination throughout 234-5Z. This leads into 234-5Z Cold & Dark and Ready for Demo, allowing removal of the gloveboxes that have been left in place to be removed during demolition of 234-5Z. Once demolition is complete, CD-4 activities to close out the RL-0011.C1 project will be performed.

# MILESTONE STATUS

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

| Number | Title | Due Date | Actual Date | Forecast Date | Status/ Comment |
|---|---|---|---|---|---|
| M-083-00A | PFP Facility Transition and Selection Disposition Activities | 09/30/16 | | 3/7/17 | Stop works associated with PremAire breathing air suits/hoses in support of in-situ size reduction efforts, stop works associated with intrusive work in the 234-5Z duct level, and safety pause associated with a radiological event caused the Tri-Party Agreement milestone projected completion date to slip an additional 35 calendar days for the forecast date in the December report. As the PFP Project continues to make progress on the behind schedule critical path work scope being performed it is anticipated that efficiencies will be recognized to bring the schedule into alignment with a completion date of September 30, 2016. However, this Tri-Party Agreement completion is currently at risk of meeting the September 30, 2016 commitment date. |

# GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None identified at this time.

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

T. E. Bratvold
Vice President for
PFP Closure Project

January 2016
CHPRC-2016-01, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

# PROJECT SUMMARY

The following are key metrics associated with this CAP.

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

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

# KEY ACCOMPLISHMENTS

- Completed implementation of HNF-15500 “PFP Deactivation and Decommissioning Documented Safety Analysis” Revision 12 and HNF-15502 “PFP Deactivation and Decommissioning Technical Safety Requirements” Revision 12.

# 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 Revision 12 has been implemented. Minor modifications to DSA/TSR Revision 12 to clarify and refine controls was submitted to RL as a Revision 13. This issue will be closed in February monthly reporting.

**Issue:**
**Removal of hazardous material will be coordinated using a regulatory compliant graded approach, to avoid cost and schedule impacts associated with complete removal of materials such as brass, electrical components, and lead based paint residues.**

**Corrective Action:**
Coordinate with Maintenance and Waste Integration to establish mass balance calculations for various hazardous materials, demonstrating how much hazardous material may remain with building rubble and still meet ERDF WAC.

**Status**:
CHPRC-02603, Evaluation of Chemical Content in Rubble from the Demolition of 236-Z Facility, December 2015 was issued on December 29, 2015. This document demonstrates that a majority of materials can remain with building rubble and meet ERDF WAC. Prohibited conditions that require remediation prior to demolition are also identified.

The project characterization team in collaboration with the D4 team and Waste Integration has compiled a listing of actions necessary to meet conditions for ERDF acceptance of the 236-Z debris when generated by facility demolition. This listing is being incorporated into final planning of the demolition preparations work package.

With respect to further Project/EVMS reporting, this issue is considered resolved and will be closed during February month end reporting

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

**Corrective Action**:
- Unpackaged and placed previously packaged J Pan wastes back in the PRF Canyon.
- Develop waste packaging instructions for J Pan wastes.

- PFP will perform a visual inspection of waste drums that contain PRF canyon waste prior to shipment from the facility.

**Status:**

- Previously packaged J Pan wastes were unpackaged and placed back in the PRF Canyon.
- Waste packaging instructions for J Pan wastes were developed and wastes are in process of being packaged per the waste packaging instructions.
- PFP is performing visual inspections of waste drums that contain PRF canyon waste prior to shipment.
- Waste Shipment of PRF Canyon Waste to CWC has commenced with shipment of Non-J Pan wastes; J Pan wastes are being held at PFP pending Laboratory Analysis Results expected in late February.

# CONTRACT PERFORMANCE REPORT
## FORMAT 1 - WORK BREAKDOWN STRUCTURE

DOLLARS IN Thousands of $

FORM APPROVED
OMB No. 0704-0188

| 1. CONTRACTOR | 2. CONTRACT | 3. PROGRAM | 4. REPORT PERIOD |
|---|---|---|---|
| a. NAME<br>CH2M HILL Plateau Remediation Company | a. NAME<br>Plateau Remediation Contract | a. NAME<br>RL_0011_C2 PFP Demolition Capital Asset Project | a. FROM (YYYYMMDD)<br>2015 / 12 / 21 |
| b. LOCATION (Address and ZIP Code)<br>Richland, WA | b. NUMBER<br>RL14788 | b. PHASE | b. TO (YYYYMMDD)<br>2016 / 01 / 24 |
| | c. TYPE<br>CPAF / d. SHARE RATIO | c. EVMS ACCEPTANCE<br>NO X YES (YYYYMMDD) 2009 / 09 / 18 | |

5. CONTRACT DATA

| a. QUANTITY | b. NEGOTIATED COST | c. ESTIMATED COST OF AUTHORIZED UNPRICED WORK | d. TARGET PROFIT/FEE | e. TARGET PRICE | f. ESTIMATED PRICE | g. CONTRACT CEILING | h. ESTIMATED CONTRACT CEILING | i. DATE OF OTB/OTS (YYYYMMDD) |
|---|---|---|---|---|---|---|---|---|
| 1 | 51,683 | 0 | 5,000 | 56,683 | 52,170 | 56,683 | 52,170 | |

6. ESTIMATED COST AT COMPLETION

7. AUTHORIZED CONTRACTOR REPRESENTATIVE

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

| | MANAGEMENT ESTIMATE AT COMPLETION (1) | CONTRACT BUDGET BASE (2) | VARIANCE (3) |
|---|---|---|---|
| a. BEST CASE | 43,016 | | |
| b. WORST CASE | 48,246 | | |
| c. MOST LIKELY | 47,170 | 51,683 | 4,514 |

8. PERFORMANCE DATA

| CAPN.PBS Control Account.PARS 2 WBS (2) ITEM (1) | CURRENT PERIOD: BUDGETED COST WORK SCHEDULED (2) | CURRENT PERIOD: BUDGETED COST WORK PERFORMED (3) | CURRENT PERIOD: ACTUAL COST WORK PERFORMED (4) | CURRENT PERIOD: VARIANCE SCHEDULE (5) | CURRENT PERIOD: VARIANCE COST (6) | CUMULATIVE TO DATE: BUDGETED COST WORK SCHEDULED (7) | CUMULATIVE TO DATE: BUDGETED COST WORK PERFORMED (8) | CUMULATIVE TO DATE: ACTUAL COST WORK PERFORMED (9) | CUMULATIVE TO DATE: VARIANCE SCHEDULE (10) | CUMULATIVE TO DATE: VARIANCE COST (11) | REPROGRAMMING ADJUSTMENTS: COST VARIANCE (12a) | REPROGRAMMING ADJUSTMENTS: SCHEDULE VARIANCE (12b) | REPROGRAMMING ADJUSTMENTS: BUDGET (13) | AT COMPLETION: BUDGETED (14) | AT COMPLETION: ESTIMATED (15) | AT COMPLETION: VARIANCE (16) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RL-0011 Nuclear Mat Stab & Disp | | | | | | | | | | | | | | | | |
| RL_0011_C2.05 Disposition PFP | 332 | 148 | 70 | -184 | 78 | 7,163 | 6,783 | 6,414 | -380 | 369 | 0 | 0 | 0 | 47,529 | 43,016 | 4,514 |
| b. COST OF MONEY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| c. GENERAL AND ADMINISTRATIVE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| d. UNDISTRIBUTED BUDGET | | | | | | | | | | | | | | 0 | 0 | 0 |
| e. SUBTOTAL | 332 | 148 | 70 | -184 | 78 | 7,163 | 6,783 | 6,414 | -380 | 369 | 0 | 0 | 0 | 47,529 | 43,016 | 4,514 |
| f. MANAGEMENT RESERVE | | | | | | | | | | | | | | 4,154 | | |
| g. TOTAL | 332 | 148 | 70 | -184 | 78 | 7,163 | 6,783 | 6,414 | -380 | 369 | 0 | 0 | 0 | 51,683 | | |

9. RECONCILIATION TO CONTRACT BUDGET BASELINE

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. VARIANCE ADJUSTMENT | | | | | | | | | | | | | | | | |
| b. TOTAL CONTRACT VARIANCE | | | | | | | | | -380 | 369 | | | | 51,683 | 43,016 | 8,668 |

## 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<br>CH2M HILL Plateau Remediation Company | a. NAME<br>Plateau Remediation Contract | a. NAME<br>RL-0011_C2 PFP Demolition Capital Asset Project | a. FROM (YYYYMMDD)<br>2015 / 12 / 21 |
| b. LOCATION (Address and ZIP Code)<br>Richland, WA | b. NUMBER<br>RL14788 | b. PHASE | b. TO (YYYYMMDD)<br>2016 / 01 / 24 |
| | c. TYPE<br>CPAF | d. SHARE RATIO | c. EVMS ACCEPTANCE<br>NO: ; X: ; YES: (YYYYMMDD) 2009 / 09 / 18 |

5. PERFORMANCE DATA

| WBS.Resp Org Group | CURRENT PERIOD | | | | | CUMULATIVE TO DATE | | | | | REPROGRAMMING ADJUSTMENTS | | | AT COMPLETION | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | BUDGETED COST | | ACTUAL | VARIANCE | | BUDGETED COST | | ACTUAL | VARIANCE | | | | | BUDGETED | ESTIMATED | VARIANCE |
| ITEM | WORK SCHEDULED | WORK PERFORMED | COST WORK PERFORMED | SCHEDULE | COST | WORK SCHEDULED | WORK PERFORMED | COST WORK PERFORMED | SCHEDULE | COST | COST VARIANCE | SCHEDULE VARIANCE | BUDGET | | | |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12a) | (12b) | (13) | (14) | (15) | (16) |
| 3B - PFP Closure Project | 332 | 148 | 70 | -184 | 78 | 7,163 | 6,783 | 6,414 | -380 | 369 | 0 | 0 | 0 | 47,529 | 43,016 | 4,514 |
| b. COST OF MONEY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| c. GENERAL AND ADMINISTRATIVE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| d. UNDISTRIBUTED BUDGET | | | | | | | | | | | | | | 0 | 0 | 0 |
| e. SUBTOTAL *(Performance Measurement Baseline)* | 332 | 148 | 70 | -184 | 78 | 7,163 | 6,783 | 6,414 | -380 | 369 | 0 | 0 | 0 | 47,529 | 43,016 | 4,514 |
| f. MANAGEMENT RESERVE | | | | | | | | | | | | | | 4,154 | | |
| g. TOTAL | 332 | 148 | 70 | -184 | 78 | 7,163 | 6,783 | 6,414 | -380 | 369 | 0 | 0 | 0 | 51,683 | | |

**CONTRACT PERFORMANCE REPORT**
**FORMAT 3 - BASELINE**

**DOLLARS IN THOUSANDS**

Form Approved
OMB No. 0704-0188

| 1. CONTRACTOR | 2. CONTRACT | 3. PROGRAM | 4. REPORT PERIOD |
|---|---|---|---|
| CH2M HILL Plateau Remediation Company | a. NAME: Plateau Remediation Contract | a. NAME: RL_0011_C2 PFP Demolition Capital Asset Project<br>Plateau Remediation Contract | a. FROM: 2015/12/21 |
| b. LOCATION: | b. NUMBER: RL14788 | b. PHASE | b. TO: 2016/01/24 |
| Richland, WA | c. TYPE: CPAF | c. EVMS ACCEPTANCE | |
| | d. SHARE RATIO: | NO YES X 9/18/2009 | |

5. CONTRACT DATA

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

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

6. PERFORMANCE DATA

BUDGETED COST FOR WORK SCHEDULED (NON - CUMULATIVE)

| ITEM | BCWS CUM TO DATE | BCWS FOR REPORT PERIOD | SIX MONTH FORECAST | | | | | | FY09-13 | FY14 | FY15 | FY16 | FY17 | FY18 | UNDISTRIB BUDGET | TOTAL BUDGET |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | +1 Feb-16 | +2 Mar-16 | +3 Apr-16 | +4 May-16 | +5 Jun-16 | +6 Jul-16 | | | | | | | | |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) | (17) |
| a. PM BASELINE (BEGIN OF PERIOD) | 6,832 | 332 | 455 | 1,406 | 3,212 | 3,429 | 3,061 | 5,246 | 0 | 0 | 6,090 | 26,447 | 12,947 | 0 | 0 | 45,483 |
| b. BASELINE CHANGES AUTH DURING REPORT PERIOD | | | | | | | | | | | 0 | 1,414 | 632 | 0 | | 2,046 |
| BCR-011-16-003R0 - PFP Capital Asset 2 Project Demolition Equipment Realized Risk and Incorporation of KPPs | | | | | | | | | | | | | | | | |
| c. PM BASELINE (END OF PERIOD) | 7,164 | 332 | 536 | 1,775 | 3,355 | 3,572 | 3,196 | 5,420 | 0 | 0 | 6,090 | 27,861 | 13,578 | 0 | 0 | 47,529 |
| 7. MANAGEMENT RESERVE | | | | | | | | | | | | | | | | 4,154 |
| 8. TOTAL | | | | | | | | | | | | | | | | 51,683 |

## CONTRACT PERFORMANCE REPORT
### FORMAT 4 - STAFFING

Dollars in: FTE

FORM APPROVED
OMB No. 0704-0188

| 1. CONTRACTOR | 2. CONTRACT | 3. PROGRAM | 4. REPORT PERIOD |
|---|---|---|---|
| a. NAME | a. NAME | a. NAME | a. FROM (YYYYMMDD) |
| CH2M HILL Plateau Remediation Company | Plateau Remediation Contract | RL-0011 C2 PFP Demolition Capital Asset Project | 2015 / 12 / 21 |
| b. LOCATION (Address and ZIP Code) | b. NUMBER | b. PHASE | b. TO (YYYYMMDD) |
| Richland, WA | RL14798 | | 2016 / 01 / 24 |
| | c. TYPE | c. EVMS ACCEPTANCE | |
| | CPAF | NO X YES (YYYYMMDD) 2009 / 09 / 18 | |
| | d. SHARE RATIO | | |

5. PERFORMANCE DATA

| WBS.Resp Org Group / ORGANIZATIONAL CATEGORY (1) | ACTUAL CURRENT PERIOD (2) | ACTUAL END OF CURRENT PERIOD (Cumulative) (3) | FORECAST (Non-Cumulative) | | | | | | | | | | AT COMPLETION (15) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | SIX MONTH FORECAST BY MONTH (Enter names of months) | | | | | | ENTER SPECIFIED PERIODS | | | | |
| | | | +1 FEB 2016 (4) | +2 MAR 2016 (5) | +3 APR 2016 (6) | +4 MAY 2016 (7) | +5 JUN 2016 (8) | +6 REMAIN FY16 (9) | FY17 (10) | FY18 (11) | FY19-FY24 (12) | ATCOMPLETE (13) | (14) | |
| 3B - PFP Closure Project | 2 | 17 | 38 | 20 | 15 | 34 | 85 | 295 | 518 | 0 | 0 | 0 | 0 | 1022 |
| g. TOTAL DIRECT | 2 | 17 | 38 | 20 | 15 | 34 | 85 | 295 | 518 | 0 | 0 | 0 | 0 | 1022 |

CLASSIFICATION (When Filled In)

**CONTRACT PERFORMANCE REPORT**
**FORMAT 5 - Explanations and Problem Analysis**

FORM APPROVED
OMB No. 0704-0188

| 1. CONTRACTOR | 2. CONTRACT | | 3. PROGRAM | 4. REPORT PERIOD |
|---|---|---|---|---|
| a. NAME<br>CH2M HILL Plateau Remediation Company | a. NAME<br>Plateau Remediation Contract | | a. NAME<br>RL_0011_C2 PFP Demolition Capital Asset Project | a. FROM (YYYYMMDD)<br>2015 / 12 / 21 |
| b. LOCATION (Address and ZIP Code)<br>Richland, WA | b. NUMBER<br>RL14788 | | b. PHASE | b. TO (YYYYMMDD)<br>2016 / 01 / 24 |
| | c. TYPE<br>CPAF | d. SHARE RATIO | c. EVMS ACCEPTANCE<br>No X Yes (YYYYMMDD) 2009 / 09 / 18 | |

5. Evaluation

Direct Projects

| | Budget | Earned | Actuals | SV in $ | SV in % | CV in $ | CV in % | SPI | CPI |
|---|---|---|---|---|---|---|---|---|---|
| Current: | 332 | 148 | 70 | -184 | -55% | 78 | 53% | 0.45 | 2.11 |
| Cumulative: | 7,163 | 6,783 | 6,414 | -380 | -5% | 369 | 5% | 0.95 | 1.06 |
| | BAC | EAC | VAC in $ | VAC in % | TCPI to BAC | TCPI to EAC | | | |
| At Complete: | 47,529 | 43,016 | 4,514 | 9% | 0.99 | 1.11 | | | |

**Explanation of Variance/Description of Problem:**
Schedule Variance: Current month negative schedule variance is attributed to not receiving the telehandler dust suppression unit as planned. This is partially offset by receipt of gravel and PBS water trailers earlier than planned.

Cost Variance: Starting demolition of the ancillary facilities has been pushed out due to resource constraints caused by other critical path PFP Operations Projects (i.e., readying PRF for demolition), impacts from stop works/safey pauses. This has resulted in less project management support charges than planned in this LOE account during the current period. In addition, the PFP Demolition Readiness Assessment activity continues to be behind schedule as a result of impacts from stop works/safety pauses that have affected the entire PFP Facility. These stop works and safety pauses are related to breathing air equipment and radiological controls issues.

**Impact:**
Schedule: Delayed receipt of the telehandler will be no impact to the critical path for execution of the demolition activities as they are currently slated to begin in the May time frame. However, stop works and safety pauses have impacted the work to ready facilities for demolition resulting in a 35 calendar day impact to the critical path to achieving the TPA Milestone TPA-083-00A. Recovery actions are being reviewed and will be put in place when finalized to support recovery of the schedule delays.

Cost: Stop Works and Safety Pauses are impacting the work to ready facilities for demolition. Recovery actions are being reviewed and will be put in place when finalized to support recovery of the schedule delays. The readiness assessment will continue to lag, and costs will increase to support this effort as more radiological oversight is required to support the PFP project related to the safety pause compensatory measures. In addition, costs will lag until receipt of the telehandler dust suppression unit. The projected net impact in January of these issues to the EAC was $2.4M.

**Corrective Action:**
Schedule/Cost: Work with vendor to expedite delivery of the remote control unit for the Telehandler which will allow for the final operational testing of the machine with the remote control to support demolition of the 236-Z Facility. Action: Trevino 3/31/16

**Monthly Summary (to include technical causes of VARs, Impacts) and Corrective Action(s):**
The positive cost variance for PM support will continue until work scope on ancillary facilities begins. The current positive cost variance on the Readiness activity is anticipated to reduce significantly as the more stringent Readiness Assessment and site exercise complete.

The following items are addressed, as applicable, per the EVMSIH:
1. Schedule Margin Analysis: During the month of January the RL-011.C2 Demolition Capital Asset project held the schedule margin from the December reporting period. This is as a result of no further impacts as a result of stop works associated with PremAire breathing air issues related to size reduction of the HA-9A glovebox and impacts from a safety pause associated with a radiological event also related to the PremAire breathing air equipment. Overall, the C2 project has lost two calendar days against the original baseline schedule margin activity.
2. IMS Data dictionary Changes: N/A
3. Forecast Schedule with No Baseline: N/A
4. UB Balance: N/A
5. Negative ACWP: N/A
6. EAC Analysis: Best Case = EAC; Most Likely = EAC + MR; Worst Case = ECWR or BCWR (whichever is greater) + ACWP + MR + Trend Log values not already included.
7. Negative CV > VAC: N/A
8. MR Transactions: BCR-011-16-003R0 dated January 12, 2016, "PFP Capital Asset 2 Project Demolition Equipment realized Risk and Incorporation of KPPs" was approved and implemented in the January, month end performance measurement baseline. This BCR demonstrates a change in planning assumptions, and impacts the risk profile for RL-011.C2 by $2,045.86. Risk PFP-DEMO-23 was realized and resulted in ability to lease light plants, water trucks, articulating life, and compressor. Also, the purchase of 6 water monitors, 3 hotsy sprayers and 2 water trailers are part of this BCR.
9. Freeze Period Changes: N/A
10. Retroactive Changes: N/A
11. Indirect Variances: N/A

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

# CORRECTIVE ACTION LOG

| Control Account | Task Title | FY Year/ Month | CAM | Status | Forecast Completion | Actual Completion | Assigned To |
|---|---|---|---|---|---|---|---|
| 011.05.C3.03 | Expedite Delivery of Remote Control Telehandler | 2016/03 | Lucas, Chris | Open | 1/31/16 | | Trevino, Ruben A |

# RISK MANAGEMENT STATUS

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

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

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

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

Increased Confidence
No Change
Decreased Confidence

| Risk Title Risk Owner | Unmitigated Risk Impacts | Assessment Month | Assessment Trend | Comments |
|---|---|---|---|---|
| **RL-0011/WBS-011.05.C3 (CAP.2)** | | | | |
| **Explanation of major changes to the project monthly stoplight chart:** No major changes to the monthly stoplight chart in the month of January. | | | | |
| **Realized Risks** (Risks that are currently impacting project cost/schedule) | | | | |
| PFP-DEMO-23: Demolition Equipment Reliability and Modification | Ineffective demolition equipment attachments or mechanical failures impact the demolition of PFP. Equipment modification, leasing, or replacement will be required resulting in cost impacts<br>**Risk Handling Strategy:** Control<br><br>**Probability:** Medium (26% to 74%)<br>**Worst Case Impacts:** $1 million, 66 days |  |  | **Risk Event:**<br>The baseline assumed existing equipment loaned to another Hanford Contractor was available to commence demolition activities. In November it was identified that assumed equipment will not be available to support the project needs.<br><br>**Risk Recovery action(s)** / **Risk Date** / **FC Date** / **%**<br>Interface with WCH to identify equipment needs. / 11/2/15 / Complete / 100<br>Process BCR to account for changing assumptions / 11/2/15 / Complete / 100<br>Deliver and stage equipment on-site / 11/2/15 / 3/30/16 / 50<br><br>**Recovery Action Assessment:**<br>In the month of January a BCR was processed to draw down management reserve to cover baseline assumption changes.<br>Interface meetings were held with WCH, and it was identified that 6 water monitors, and 2 water trailers will need to be purchased. In addition, 3 water trucks, 15 light plants, and 1 compressor will be leased. |
| **Critical Risks** (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed) | | | | |
| **FY2016 Risk Triggers** (Risk could be realized in FY2016) | | | | |
| PFP-DEMO-21: Glove Box/Equipment Removal/Demolition Material Handling Event | A material handling event (E.g., dropped piece of process equipment) occurs during the PFP demolition resulting in cost impacts and schedule delays.<br>**Risk Handling Strategy:** Accept<br><br>**Probability:** Low (10% to 25%)<br>**Worst Case Impacts:** $150K, 44 days |  |  | **Risk Trigger:** During pre-demolition/demolition activities in FY2016.<br><br>**Mitigation action(s)** / **FC Date** / **%**<br>None identified at this time. / N/A / N/A<br><br>**Mitigation Assessment:**<br>No change in the month of January.<br>The mitigation strategies have been put in place, as a result, the risk strategy is to accept with no further mitigation actions identified at this time. PFP will continue to adhere to the CHPRC ISMS program/ hoisting and rigging program to include detailed analyses of potential hazards and identification of preventive measures to implement prior to starting the work.<br>At this time no alternative course of actions needed. |

<table>
<tr><th>Risk Title<br>Risk Owner</th><th>Unmitigated Risk Impacts</th><th colspan="2">Assessment<br>Month | Trend</th><th>Comments</th></tr>
<tr><td colspan="5">RL-0011/WBS-011.05.C3 (CAP.2)</td></tr>
<tr><td>PFP-DEMO-07: Removal/Extraction of Equipment Takes Longer Than Planned</td><td>Controlled demolition of equipment, gloveboxes, and portions of the cross-cutting process support systems (i.e. ventilation) result in cost impacts, and schedule delays.<br>Risk Handling Strategy: Control<br><br>Probability: Medium (26% to 74%)<br>Worst Case Impacts: $1.5 million, 45 days</td><td>  </td><td>  </td><td>Risk Trigger: During pre-demolition/demolition activities in FY2016. Dates tracked in the FES.<br><br><table><tr><th>Mitigation action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>Submit safety basis documents that allow for additional equipment (e.g., 242-Z Tanks) to be left in place for removal during demolition.</td><td>Complete</td><td>100</td></tr><tr><td>Identify and pre-rig equipment with lifting slings.</td><td>2/29/16</td><td>50</td></tr><tr><td>Initiate discussions early in the demo planning of the equipment being left in place for removal during demolish.</td><td>Ongoing</td><td>N/A</td></tr><tr><td>Apply fixative to internals of equipment intended to be removed during demolition to contain contamination.</td><td>Ongoing</td><td>N/A</td></tr></table><br>Mitigation Assessment:<br>No changes in the month of January.<br>At this time no alternative course of actions needed.</td></tr>
<tr><td colspan="5">High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)</td></tr>
<tr><td colspan="5">FY2016 Risk Triggers (Risk could be realized in FY2016)</td></tr>
<tr><td>PFP-DEMO-05: Inclement Weather</td><td>Inclement weather, including moderate winds, low or high temperatures and thunderstorms will impact the demolition of PFP.<br>Risk Handling Strategy: Accept<br><br>Probability: Low (10% to 25%)<br>Worst Case Impacts: $0K, 66 days<br><br>*Cost increase will result in cost per day impacts from crews, and hotel load.</td><td>  </td><td>  </td><td>Risk Trigger: During pre-demolition/demolition activities in FY2016. Dates tracked in the FES.<br><br><table><tr><th>Mitigation action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>None identified at this time.</td><td>N/A</td><td>N/A</td></tr></table><br>Mitigation Assessment:<br>No change in the month of January.<br>The mitigation strategies have been put in place, as a result, the risk strategy is to accept with no further mitigation actions identified at this time. PFP will continue to develop work plans to incorporate required controls.<br>At this time no alternative course of actions needed.</td></tr>
<tr><td colspan="5">Unassigned Risks (Pending ownership of identified risks/opportunities)</td></tr>
<tr><td colspan="5">To ensure success of the project ownership needs to be established to further identify and address potential impacts to project cost and schedule. There are cases when risks are identified but are outside the control and management of the contractor. However, CHPRC risk management process identifies all risks that could impact overall project success.</td></tr>
<tr><td>PFP-DEMO-18: Level of Readiness Effort</td><td colspan="4">PFP Demolition activities and hazard categorization provide for a Readiness Assessment; however, due to the first of its kind project at the Hanford Site, CHPRC will be directed by the customer to perform a more rigorous RA than planned resulting in cost impacts and schedule delays.<br><br>CHPRC Comment: The rework required between the first submittal on May 26, 2015, through the resubmittal on August 27, 2015, (Reference 2) and subsequent approval on October 8, 2015, (Reference 1) has increased cost of demolition and impacted schedule. The additional cost is due to a technical difference in the readiness scoring by RL that is not consistent with historical scoring. The addition of a readiness team and performance of an exercise versus a drill have impacted the project. The additional requirements may represent realization of previously identified risk PRC-010, Requirements Change. Accordingly, CHPRC is entitled to an adjustment to cost and fee to implement the direction.</td></tr>
</table>

## Critical Path Schedule

The critical path for this project runs through PFP non-capital asset activities. The PFP Critical Schedule Path to slab on grade and completion of the RL-0011.C2 capital asset project flows through the 234-5Z duct level and filter box removal, then to the final focused decontamination throughout 234-5Z. This leads into 234-5Z Cold & Dark and Ready for Demo, allowing demolition of 234-5Z and attached facilities to commence. Once demolition is complete, stabilization of the PFP site is performed to reach the final Tri-Party Agreement milestone – M-083-00A - *PFP Facility Transition and Selection Disposition Activities*; after which CD-4 activities to close out the RL-0011.C2 project will be performed.

# MILESTONE STATUS

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

| Number | Title | Due Date | Actual Date | Forecast Date | Status/ Comment |
|---|---|---|---|---|---|
| M-083-00A | PFP Facility Transition and Selection Disposition Activities | 09/30/16 | | 3/7/17 | Stop works associated with PremAire breathing air suits/hoses in support of in-situ size reduction efforts, stop works associated with intrusive work in the 234-5Z duct level, and safety pause associated with a radiological event caused the Tri-Party Agreement milestone projected completion date to slip an additional 35 calendar days for the forecast date in the December report. As the PFP Project continues to make progress on the behind schedule critical path work scope being performed it is anticipated that efficiencies will be recognized to bring the schedule into alignment with a completion date of September 30, 2016. However, this Tri-Party Agreement completion is currently at risk of meeting the September 30, 2016 commitment date. |

# GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None identified at this time.