

Monthly Performance Report

March 2017

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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Date Published
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APPROVED

By Janis Aardal at 10:59 am, Apr 24, 2017

Release Approval

Date

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L. Ty Blackford
President and Chief
Executive Officer

Monthly Performance Report

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

March 2017
CHPRC-2017-03, Revision 0

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EXECUTIVE SUMMARY

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

- At the Plutonium Finishing Plant (PFP), crews shut off permanent power to the main portion of the PFP, and for the first time in the plant's 60-year history, the main portion of the PFP is running on temporary power. This achievement brings the team closer to demolition of the 234-5Z (the main processing facility). Employees also vacated the main facility, which was transitioned to temporary power. In addition, demolition of the 242-Z facility is 95 percent complete. Waste load-out activities are all that remain to complete this historical accomplishment.
- At the Waste Encapsulation and Storage Facility (WESF), crews completed removal of the temporary ventilation header and most of the equipment associated with the temporary ventilation. WESF management convened a hazard review board to review activities in preparation for final cell grouting.
- At the Soil and Groundwater Remediation Project, workers announced to RL the successful findings of a K West Rebound Study that found large amounts of chromium removed from groundwater in the 100K Area. Workers continued preparations to make repairs to the 200W Pump and Treat Fluidized Bed Reactor A while drilling continued at the 300 Area Uranium Sequestration project and 15 of 67 wells were completed.
- K Basins Operations and Remediation Project crews completed installation of equipment for sludge removal in the 100K Area, and are now preparing for KW Basin/Annex pre-operational acceptance testing, which will begin in April.
- The 324 Building Remediation Project maintenance team opened the airlock door for maintenance in preparation for airlock entry. Crews at the 324 Building continued working/finalizing the work package to begin airlock cleanout and successfully conducted the first test cut of the floor saw on a mock-up steel-lined concrete pad at the Maintenance and Storage Facility.
- Crews at the 618-10 Burial Ground applied fixative on all 80 over-cased Vertical Pipe Units (VPUs), removed 14 of 80 VPU over casings, processed 24 of 56 steel VPU segments, removed and stockpiled 9,833 super dump truck loads of soil from the 316-4 Waste Site, and completed drum retrieval from the 618-10 trenches.



Temporary lighting inside 234-5Z at PFP.

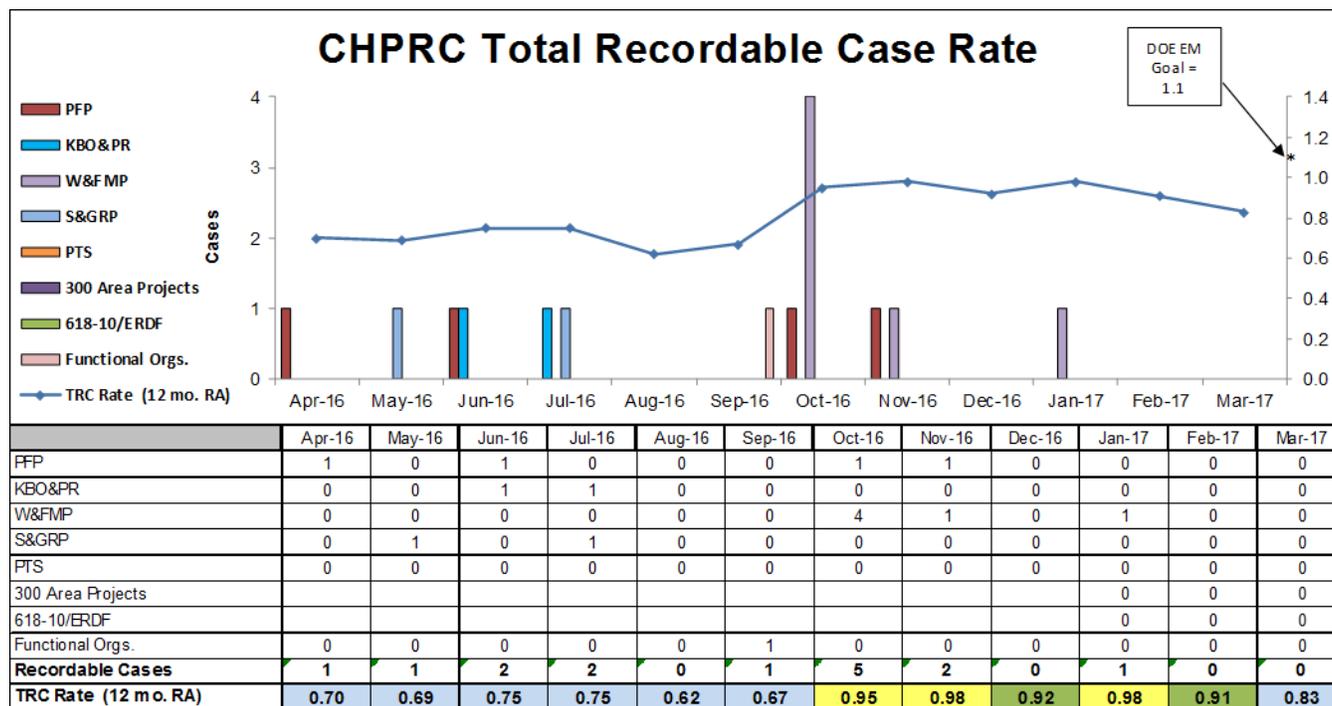


Maintenance team opening airlock door for maintenance at 324 Building.

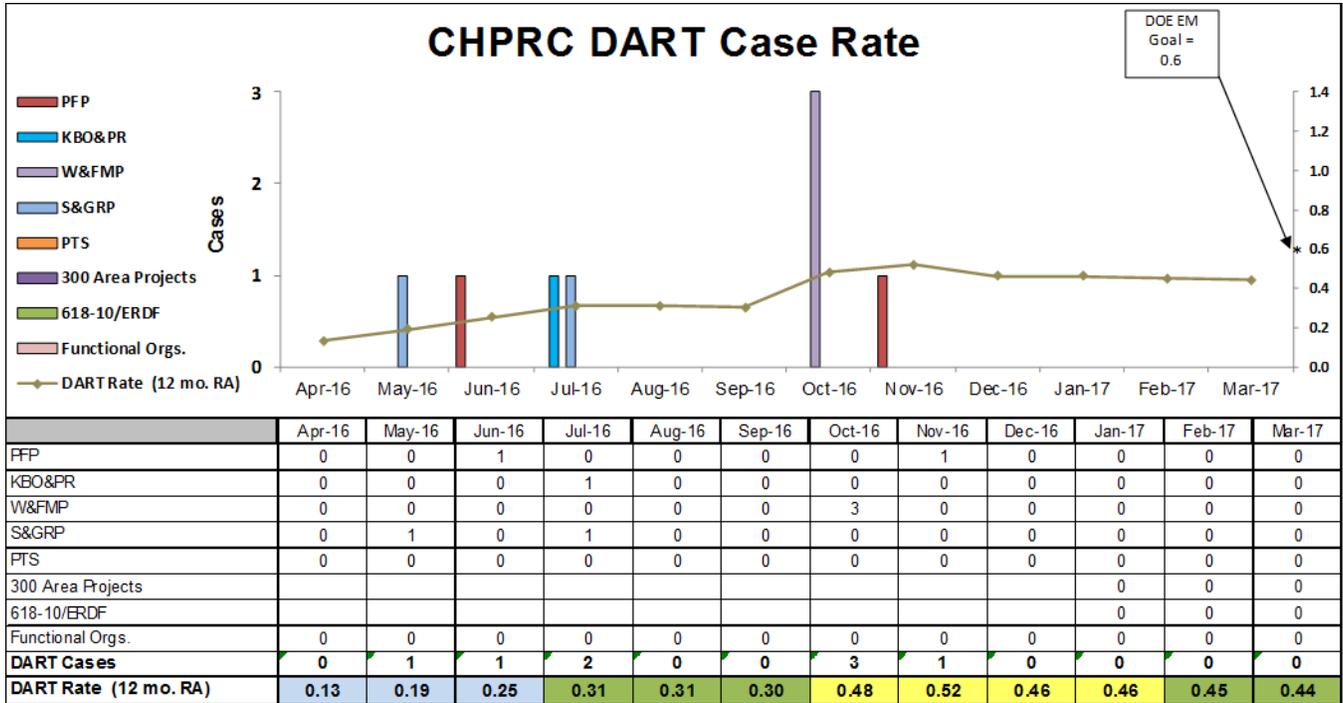
- The President's Zero Accident Council (PZAC) meeting held in March was hosted by the Safety, Health, Security, and Quality organization. The three main themes were: Gone with the Wind – Consult your safety professional and use the Adverse Weather procedure; Continuous Improvement (CRRS) – CRRS can be used to track safety issues and ideas; and Vehicle Safety Awareness – do not bypass road barriers and watch for changing conditions.
- Four “*Thinking Target Zero*” (TTZ) bulletins were published to convey important occupational, safety, health, and environmental messages:
 - o Environmental Aspects and Impacts.
 - o Voluntary Protection Program = Worker Safety.
 - o Windy Weather Hazards.
 - o Work Site and Management Assessments.
- *Weekly Safety Tailgate* briefing packages communicated relevant topics and safety information to the workforce:
 - o Four Lessons Learned: Savanna River Remediation – consider degraded equipment from fire events during pre-planning hazard analysis; Washington River Protection Solutions – wind/radiological considerations for constructing work viewing platforms; Washington State Department of Labor – construction laborer falls when ladder breaks; consider worst-case scenario when selecting Personal Protective Equipment (PPE).
 - o Weekly ethics moments.
 - o Vehicle incidents.
 - o Sharing the road.
 - o Time to spring forward.
 - o Prescription safety eyewear.
 - o Hearing protection PPE.
 - o Safety Connect 2017.
 - o Personal Protective Equipment – Eye safety at work.
- The *Kudos Corner* recognized individuals and teams who made a significant contribution to safety at work, home or play:
 - o Kudos to K Basin Operations & Plateau Remediation Operators, Radiological Control Technicians and Maintenance and Storage Facility Engineers for collaborating to identify operational nuances, techniques and procedural improvements needed to remove sludge safely and compliantly.
 - o Kudos to the 618-10 Project employees for identifying a need in the community and acting on it. Last month, the team donated several thousand dollars' worth of coats and winter items to the Union Gospel Mission. Their actions demonstrated not only a kind act, but helped keep others safe during freezing temperatures.
 - o Kudos to the Business Services worker who took the appropriate actions when he observed spilled water early in the morning on the stairwell at the Federal Building. He immediately notified building maintenance of the safety concern and ensured it was cleaned up prior to others using that part of the stairwell.
 - o Special kudos to a 618-10 Radiological Control Technician for their work at the 618-10 Burial Ground. The worker raised questions and provided the necessary support for remediation efforts to provide additional controls to make the job safer for the workforce.

TARGET ZERO PERFORMANCE

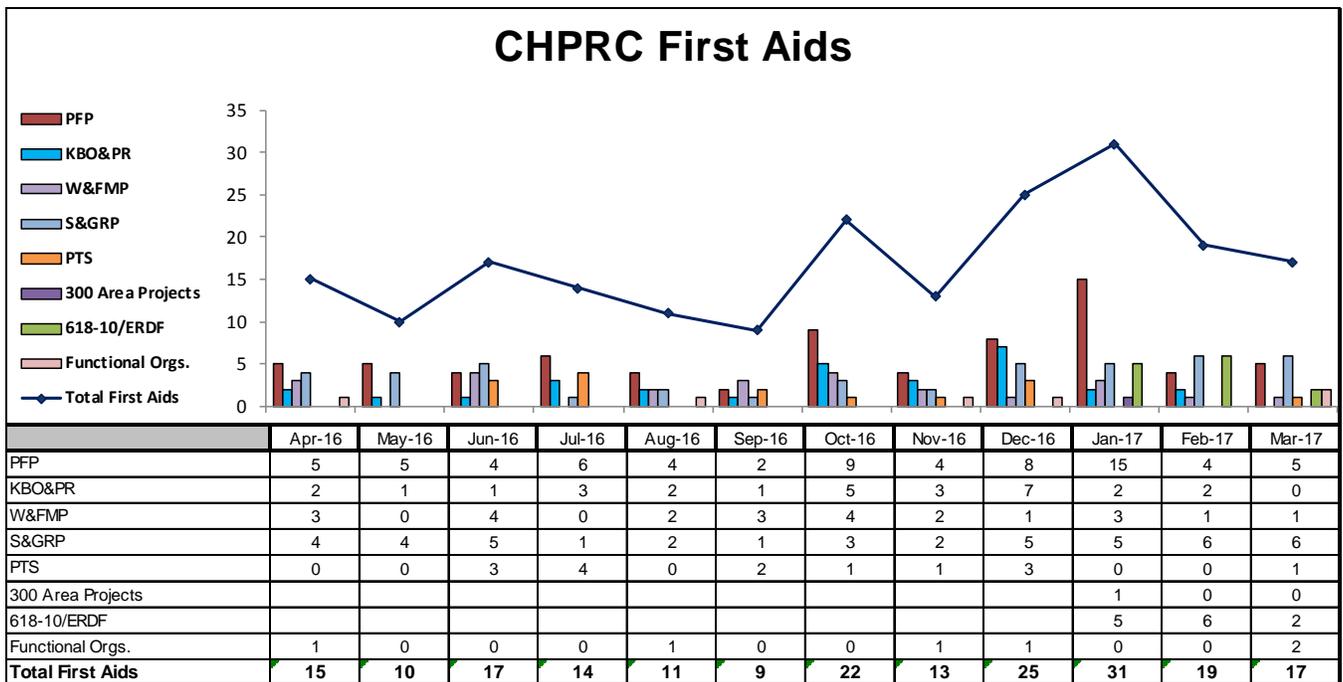
CHPRC continued focusing on integrating and implementing safety programs in all program and project areas.



Total Recordable Injury Case (TRC) Rate: The 12-month rolling average TRC rate of 0.83 is based on a total of 15 Recordable injuries. There were no Recordable cases for March.



Days Away, Restricted or Transferred (DART) Workdays Case Rate: The 12-month rolling average DART rate of 0.44 is based upon a total of eight Days Away cases. There were no DART cases in March.



First Aid Case Summary: CHPRC reported 17 first aid cases in March. The contributors were nine sprains/strains/pains, four abrasions/bruises/contusions, two miscellaneous (burns, rashes, repetitive motion, etc.), one cuts/lacerations/punctures and one insect bite injury.

KEY ACCOMPLISHMENTS

Projects

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

Project Services and Support (PTS)

- Refer to the Appendix B section of this report for specific Overhead support and Sections A through G as well as Appendix C of this report for specific Project support.

MAJOR ISSUES

Issue:

Unusually severe weather has caused negative schedule impacts to programmatic and performance measure due dates and increased costs.

Corrective Action:

- Evaluate potential work arounds to mitigate impacts.
- Submit notice to DOE Richland Operations Office (RL) for excusable delays related to unusually severe weather conditions.
- Assess current and future impacts of these disruptions to schedule and cost, and submit Request for Equitable Adjustment (REA) to RL.

Status:

- Continued winter weather has limited ability to recover delays.
- Submitted REA to RL on January 24, 2017 (CHPRC-1700206 – *Request for Excusable Delay Due to Unusually Severe Weather*).
- Developing request for Excusable Delay for *Weather Delay Impacts to PM-30-4-17, Complete Well Drilling of Six Wells by March 31, 2017*, for submittal to RL.
- Efforts to quantify schedule and cost impacts are continuing.

Issue:

Work authorization has not been provided by RL for scope associated with one FY2017 Performance Measure, potentially putting CHPRC's ability to complete it in FY2017 at risk.

Corrective Action:

- Obtain RL authorization to proceed on scope associated with:
 - PM-13-2-17, Repackage 280m3 of TRUM or MLLW – authorization needed to accelerate FY2018 scope in order to complete the Performance Measure.

Status:

- CHPRC is working with Federal Project Director (FPD) and RL Contracting Officer (CO) to facilitate RL issuing required acceleration authorization and Notice to Proceed.

Issue:

Significant Contract Change Management is ongoing and must be resolved to retain Plateau Remediation Contract (PRC) alignment for FY2017/FY2018.

- As of March fiscal month end there is a backlog of undefinitized Change Proposals (CPs) and responses to Requests for Proposals (RFPs) – about 36 CPs/RFPs totaling \$239 million in net value (RCCC scope, WA-1 Characterization, and other Change Orders valued at approximately \$285 million offset by Management of

Cesium and Strontium Capsules Capital Asset Project deduct proposal valued at about \$46 million for work to be completed outside CHPRC period of performance).

Corrective Action:

- Work with RL to reach agreement on PRC FY2017/FY2018 alignment and support RL evaluation and determination of the disposition of undefinitized CHPRC CPs/REAs.

Status:

- Five additional CPs were submitted to RL in March, increasing backlog.
- CHPRC continues to discuss proposed alignment strategy with RL.
- CHPRC is making it a priority to respond to RL Requests for Information and Truthful Cost or Pricing Data submittal requests in a timely manner to provide RL with current information to enable them to negotiate and definitize open changes.

Issue:

Resource Availability/Staffing Needs – schedule delays and emerging issues at PFP has resulted in the need for unplanned resources and delayed planned roll-off of PFP staff. Delay has impacted workforce restructuring planning and may impact other project's ability to perform other activities as planned due to unavailability of staff assumed to be released by PFP.

Corrective Action:

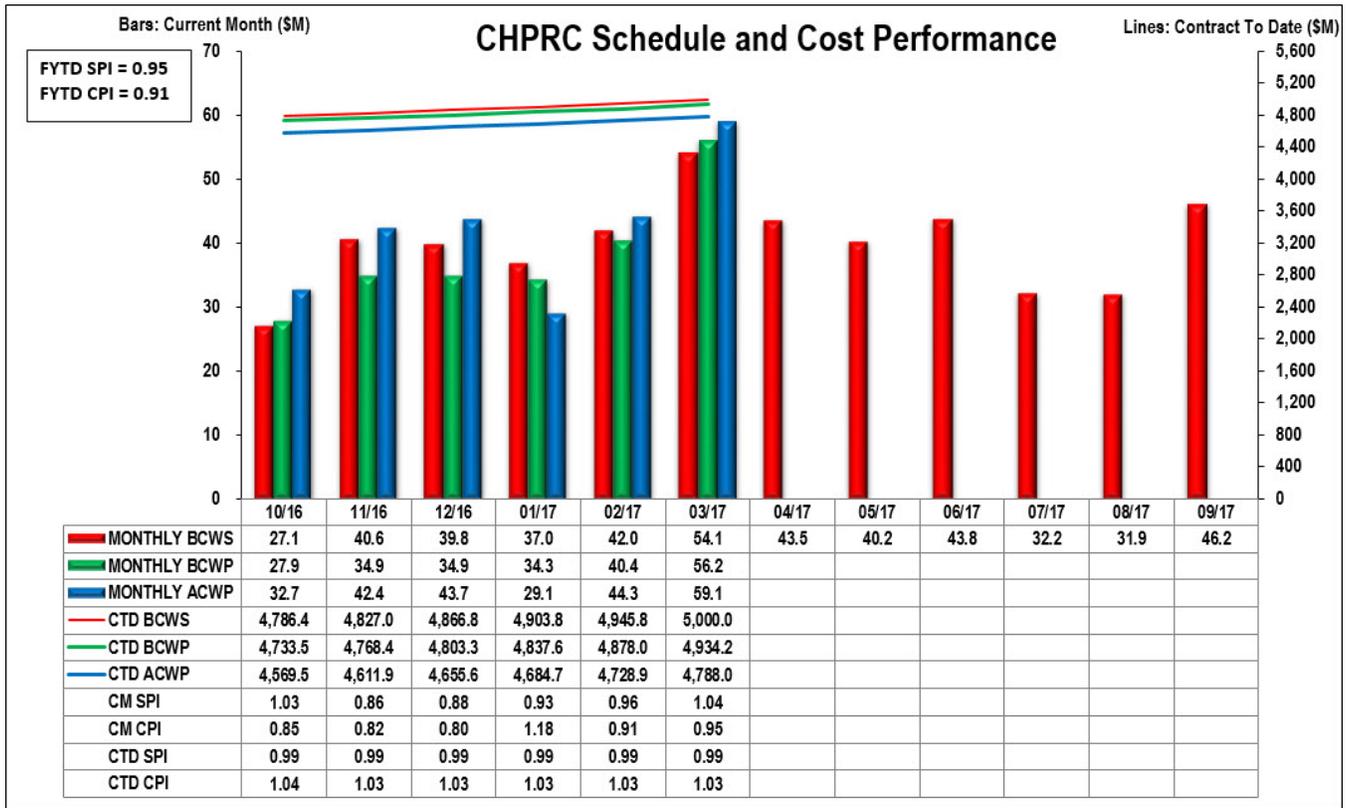
- Update staffing analysis to evaluate options to support work priorities and workforce restructuring.
- Hire short-term craft personnel to support PFP and other project needs.

Status:

- Updated staffing analysis addressing the delay in the PFP planned roll-off and other project staffing needs has been completed.
- Moving ahead with workforce restructuring and continuing to work to minimize impacts to other projects.

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

EARNED VALUE MANAGEMENT



	\$M					\$M					\$M		
	Current Period					Contract to Date					Contract Period		
	Budgeted Cost		Actual Cost		Variance	Budgeted Cost		Actual Cost		Variance			
	BCWS	BCWP	ACWP	Schedule	Cost	BCWS	BCWP	ACWP	Schedule	Cost	BAC	EAC	Variance
RL-0011 - Nuclear Materials Stab & Disp PFP	0.4	5.1	15.3	4.8	(10.2)	979.2	932.9	1004.1	(46.3)	(71.3)	980.5	1,063.5	(83.0)
RL-0012 - SNF Stabilization & Disposition	7.6	7.0	7.4	(0.6)	(0.4)	661.0	663.6	633.6	2.7	30.1	740.2	708.0	32.1
RL-0013 - Solid Waste Stab & Disposition	11.1	10.5	9.4	(0.6)	1.1	1140.4	1139.6	1065.4	(0.9)	74.2	1,345.4	1,292.9	52.5
RL-0030 - Soil & Water Rem-Grndwtr/Vadose	15.2	12.2	12.5	(3.1)	(0.3)	1351.4	1328.0	1294.5	(23.4)	33.5	1,566.5	1,498.2	68.3
RL-0040 - Nuc Fac D&D - Remainder	3.6	3.4	2.5	(0.2)	1.0	435.9	431.3	400.8	(4.6)	30.5	481.3	454.5	26.8
RL-0041 - Nuc Fac D&D - RC Closure Project	16.0	17.8	11.9	1.8	5.9	408.9	415.8	371.2	6.8	44.6	547.2	492.9	54.4
RL-0042 - Nuc Fac D&D - FFTF Project	0.2	0.2	0.2	(0.0)	(0.0)	23.2	23.1	19.0	(0.0)	4.2	26.5	23.3	3.1
Total	54.1	56.2	59.1	2.0	(2.9)	5,000.0	4,934.2	4,788.5	(65.8)	145.8	5,687.6	5,533.3	154.3

(Values are rounded to the nearest \$0.1M)
(Values do not have UB breakout)

* In regards to RL-0041, CHPRC has implemented the River Corridor Closure Contract (RCCC) transitioned scope into the Performance Measurement Baseline (PMB) for Earned Value Management (EVM) reporting purposes. When the change orders (CO #304, #305, #306) are definitized, BCRs will be processed to align the PMB with the definitized values.

Performance Summary

CHPRC continues to track completion of the contract scope within budget and is currently projecting a Variance at Completion of \$154.3 million, with \$63.1 million of Management Reserve (MR) for a total positive variance of \$217.4 million. For March, the project was 3.8 percent ahead of schedule and 5.2 percent over planned cost. Contract to Date (CTD), the project was 1.3 percent behind schedule and 3.0 percent under planned cost.

The current month schedule variance is within reporting thresholds.

The current month negative cost variance is primarily due to project breakdown structure (PBS) RL-0011 delay in completion of the PFP Project to achieve slab on grade. The delay is causing needed extensions of both Minimum Safe, Maintenance, and D&D project management resources, without Budgeted Cost of Work Scheduled (BCWS), to support the remaining D&D work scope until the facility becomes ready for demolition. In addition, asbestos abatement, E4 duct removal, and process vacuum removal are all requiring more time and additional resources to complete work. Additional resources (i.e., pipefitters, electricians, insulators, Radiological Control Technicians) have also been hired temporarily to attempt to recover schedule. Additional activities have been identified that require removal of approximately an additional 10,000 feet of asbestos that was not visible on any plant drawings when the baseline was developed, further delaying the demolition ready activities. Due to delays in ready-for-demo activities, resources supporting waste processing activities that were planned to be completed in FY2016 are continuing to charge for support of waste load-out, processing, and shipping. Additional unplanned shipping materials (Waste shipping containers (TL-1800s, SLB2s, IP-1 bags, etc.)) were also required to support waste load-out activities. Unplanned shipments of drums to Perma-fix Northwest also contributed to the unfavorable variance. Continuation of quarterly stipend certification payments is also contributing to this variance. In addition, due to the historical (December 2015) radiological issues resulting in compensatory measures that have been implemented at PFP, additional radiological and industrial hygiene resources have been assigned to support the PFP Project until the slab on grade milestone is met. This is partially offset by PBS RL-0041 implementing a BCR in March for the 618-10 and 316-4 projects. The BCR incorporated revisions to the assumed scope and quantities that were realized after the scope was transferred from WCH to CHPRC. The implementation of this BCR causes a point adjustment in the current period. The Contract-to-Date variances for the 618-10 and 316-4 are more reflective of actual experienced variances.

FUNDING ANALYSIS

FY2017 Funds vs. Fiscal Year Spend Forecast (\$M)

PBS	Project	FY2017		Variance
		Projected Funding	Spending Forecast	
Estimate at Complete				
RL-0011	Nuclear Materials Stabilization and Disposition	104.9	120.1	(15.2)
RL-0012	Spent Nuclear Fuel Stabilization and Disposition	36.6	31.7	4.9
RL-0012	15-D-401 Sludge Retrieval Project	57.8	47.5	10.3
RL-0013	Waste and Fuels Management Project	103.3	93.5	9.8
RL-0030	Soil, Groundwater and Vadose Zone Remediation	130.7	107.6	23.0
RL-0040	Nuclear Facility D&D, Remainder of Hanford	36.1	26.6	9.5
RL-0041	Nuclear Facility D&D, River Corridor	139.4	109.1	30.3
RL-0042	Fast Flux Test Facility Closure	3.9	2.0	1.9
Total Estimate at Complete		612.6	538.0	74.6
Incremental Scope Pending Change Management				
RL-0011	Nuclear Materials Stabilization and Disposition	0.0	0.0	0.0
RL-0012	Spent Nuclear Fuel Stabilization and Disposition	0.0	0.0	(0.0)
RL-0012	15-D-401 Sludge Retrieval Project	0.0	0.0	(0.0)
RL-0013	Waste and Fuels Management Project	0.0	3.7	(3.7)
RL-0030	Soil, Groundwater and Vadose Zone Remediation	0.0	16.7	(16.7)
RL-0040	Nuclear Facility D&D, Remainder of Hanford	0.0	6.3	(6.3)
RL-0041	Nuclear Facility D&D, River Corridor	0.0	24.2	(24.2)
RL-0042	Fast Flux Test Facility Closure	0.0	0.0	0.0
Total Incremental Work Scope		0.0	51.0	(51.0)
Total Fiscal Year Spend Forecast				
RL-0011	Nuclear Materials Stabilization and Disposition	104.9	120.1	(15.2)
RL-0012	Spent Nuclear Fuel Stabilization and Disposition	36.6	31.7	4.9
RL-0012	15-D-401 Sludge Retrieval Project	57.8	47.6	10.3
RL-0013	Waste and Fuels Management Project	103.3	97.2	6.1
RL-0030	Soil, Groundwater and Vadose Zone Remediation	130.7	124.4	6.3
RL-0040	Nuclear Facility D&D, Remainder of Hanford	36.1	32.8	3.3
RL-0041	Nuclear Facility D&D, River Corridor	139.4	133.4	6.1
RL-0042	Fast Flux Test Facility Closure	3.9	2.0	1.9
Total		612.6	589.1	23.6

Funds/Variance Analysis

FY2017 expected funding did not change during the month of March and remains at \$612.6 million. The total Spending Forecast increased by \$12 million from last month. The increase is primarily attributed to an \$8.1 million increase in PBS RL-0011 D&D, and \$5.8 million in PBS RL-0041 for Garnet Filter Media Removal Change Proposal #319, and 324 Building and 300-296 project acceleration.

BASELINE CHANGE REQUESTS

In March 2017, CHPRC approved and implemented 18 Baseline Change Requests (BCRs) into the Performance Measurement Baseline (PMB). Each change request is identified in the table below:

Change Request #	Title	PBS	Summary of Change
BCRA-000-17-002R0	<i>Correct BOE for Beryllium Exposure Medical Removal Costs</i>	000s	This BCR corrected a BOE omission from BCR-000-17-001R0, Incorporate Beryllium Exposure Medical Removal Costs implemented in February. This BCR does not change the PMB value.
BCR-011-17-009R0	<i>CO #313, Correct Negative BCWS Errors Previously Incorporated</i>	RL-0011	This BCR corrected estimate budget quantities from the initial incorporation of the NTE value into the PMB. This BCR does not change the PMB value.
BCR-011C-17-008R0	<i>RL-011 CAP 2 Additional Demo Equipment MR Draw – Clamp Buckets</i>	RL-0011	This BCR drew Management Reserve (MR) for procurement of Demo Equipment resulting from recent contamination event. This BCR increased the PMB value by \$126K.
BCR-013-17-011R0	<i>Incorporate CO #314 Outside Storage Area Closure Plan Revisions</i>	RL-0013	This BCR incorporated CO #314 for the scope and NTE to revise the RCRA Closure Plans for continued waste storage operations in Outside Storage Area (OSA) A, OSA-B, and the D-10 OSA for submittal to Washington Department of Ecology. This BCR increased the PMB value by \$100K.
BCR-013-17-012R0	<i>RL-013 TPA Milestone Revisions</i>	RL-0013	This BCR incorporated updates to Tri-Party Agreement milestones that are assigned to RL-0013. Tri-Party Agreement Change Number M-91-15-01, Modification of TRU and Mixed Waste Retrieval and Treatment M-091 Series Milestone, was approved by RL and Ecology to delete target milestone M-091-44. This BCR does not change the PMB value.
BCR-013-17-013R0	<i>Incorporate CO #323, Management of Hanford Sitewide Transportation Safety Document</i>	RL-0013	This BCR incorporated CO #323 for the scope and NTE to perform necessary and required activities associated with assuming responsibility for maintenance of DOE/RL 2001-36, Hanford Sitewide Transportation Safety Document (TSD). This BCR increased the PMB value by \$200K.
BCR-013-17-014R0	<i>Incorporate CO #322, Integrated Disposal Facility Revised Operational Requirements</i>	RL-0013	This BCR incorporated the scope to implement the revised operational requirements for the Integrated Disposal Facility (IDF), consistent with the Performance Assessment. This BCR increased the PMB value by \$500K.
BCR-013-17-015R0	<i>Establish WESF MO-029 Replacement as a GPP</i>	RL-0013	This BCR established the replacement of WESF Trailer MO-029 as a new General Plant Project based on the completed Capital Determination (March 1, 2017). This BCR does not change the PMB value.
BCR-030-17-011R0	<i>Incorporate CO #294, 100-KR-4 OU RI/FS Rewrite</i>	RL-0030	This BCR incorporated CO #294 for the scope and NTE to revise RI/FS and PP to be consistent with other River Corridor OU decisions and policy changes. This BCR increased the PMB value by \$809K.
BCR-030-17-013R0	<i>Incorporate CO #316, Re-plan DWMUs for Engineering Evaluations</i>	RL-0030	This BCR re-planned the execution order of the Groundwater Engineering Reports for Dangerous Waste Management Units (DWMUs). This BCR does not change the PMB value.
BCR-030-17-014R0	<i>Incorporate CO #318, 200-WA-1 & 200-BC-1 OUs Characterization</i>	RL-0030	This BCR incorporated CO #318 for the scope and NTE to perform necessary and required activities associated with the fieldwork characterization at 200-WA-1 and 200-BC-1 Operable Units (OU) Waste Sites. This BCR increased the PMB value by \$350K.

BCRA-030-17-015R0	<i>RL-030 WBS Dictionary Update</i>	RL-0030	This BCR corrected the WBS Dictionary to properly reflect changes incorporated in BCR-030-16-040R0. This BCR does not change the PMB value.
BCR-040-17-009R0	<i>Incorporate CO #324 Miscellaneous RL-0040 Work Scope</i>	RL-0040	This BCR incorporated CO #324 for the scope and NTE to perform necessary and required activities associated with disposition of B Plant Facilities, disposition of 242 B/BL, development of the 224B Removal Action Work Plan and disposition of steam lines within the REDOX facility boundary. This BCR increased the PMB value by \$3,490K.
BCR-041-17-011R0	<i>Incorporate Revised Scope for 300-296 Waste Site Project</i>	RL-0041	This BCR modified the CO #305 scope to reflect the revised strategy to not procure a new trailer for Mockup Equipment Testing and revise an existing trailer instead; close out scope that is no longer required; add procurement of waste bins as part of the overall NTE value; and make Schedule Health modifications to the PMB schedule. This BCR does not change the PMB value.
BCR-041C-17-010R0	<i>Incorporate Scope Revisions for 618-10 Burial Ground and 316-4 Waste Site</i>	RL-0041	This BCR modified the scope, schedule, and budget for the RCCC transferred scope for the 618-10 Burial Ground and the 316-4 Waste Site where material differences to the scope and quantities have been identified. This BCR increased the PMB value by \$9,408K.
BCRA-PRC-17-019R0	<i>HPIC Updates March 2017</i>	RL-0013, RL-0030, RL-0040, RL-0041, 000s	This BCR incorporated March FY2017 Hanford Programs Integrated Control Module (HPIC) updates. This BCR does not change the PMB value.
BCR-PRC-17-020R0	<i>RL-040 Min Safe Scope MR draw</i>	RL-0040	This BCR drew down MR for in scope unplanned work associated with the RL-040 Min Safe Ops work scope. This BCR increased the PMB value by \$3,372K.

The Allocated (Distributed) Budget increased by \$18,355K.

Undistributed Budget Activity

BCR Number	Title	PBS	Fiscal Year	UB
BCR-PRC-17-018R0	<i>Undistributed Budget Adjustments March 2017</i>	RL-0011, RL-0013, RL-0030, RL-0040, RL-0041	2017-2018	\$-2,549K

The Undistributed Budget decreased by \$2,549K.

Management Reserve Activity

BCR Number	Title	PBS	Fiscal Year	MR
BCR-011C-17-008R0	<i>RL-011 CAP 2 Additional Demo Equipment MR Draw – Clamp Buckets</i>	RL-0011	2017 - 2018	\$-126K
BCR-PRC-17-020R0	<i>RL-040 Min Safe Scope MR draw</i>	RL-0040	2017 - 2018	\$-3,372K

Overall, there was a decrease in Management Reserve (MR) of \$3,498K during March.

Fee Activity

BCR Number	Title	PBS	Fiscal Year	Fee
N/A	N/A	N/A	2017 - 2018	N/A

Overall, there was no change to the Fee during March.

See the Format 3 Report in Appendix A for a listing of the specific change requests that had an impact on the PMB budget by fiscal year. The PMB values of change requests are summarized by fiscal year in the tables below (dollars in thousands):

March 2017 Summary of Changes

	FY 2009-2013	FY2014	FY2015	FY2016	FY2017	FY2018	FYs 2014-2018	Contract Period Total	Total PMB
February 2017 Estimate									
PMB	3,391,477	391,653	471,323	504,826	462,816	449,674	2,280,291	5,671,768	5,671,768
MR	0	0	0	0	34,351	32,237	66,589	66,589	66,589
Fee	155,504	14,325	14,501	27,804	10,546	18,636	85,811	241,315	241,315
Total	3,546,981	405,978	485,824	532,630	507,713	500,547	2,432,692	5,979,672	5,979,672
March 2017 Change									
PMB									
Change to PMB	0	0	0	0	15,810	-4	15,806	15,806	15,806
MR									
Change to MR	0	0	0	0	-3,059	-439	-3,498	-3,498	-3,498
Fee									
Change to Fee	0	0	0	0	0	0	0	0	0
Total Change	0	0	0	0	12,752	-444	12,308	12,308	12,308
March 2017 Estimate									
PMB	3,391,477	391,653	471,323	504,826	478,626	449,670	2,296,097	5,687,574	5,687,574
MR	0	0	0	0	31,293	31,798	63,091	63,091	63,091
Fee	155,504	14,325	14,501	27,804	10,546	18,636	85,811	241,315	241,315
Total	3,546,981	405,978	485,824	532,630	520,465	500,104	2,445,000	5,991,981	5,991,981

Changes to/Utilization of Management Reserve in March 2017

	FY2009-2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2014-2018	Total
February 2017 MR Totals								
RL-0011	0	0	0	0	7,000	0	7,000	7,000
RL-0012	0	0	0	0	6,782	3,262	10,044	10,044
RL-0013	0	0	0	0	1,422	7,208	8,629	8,629
RL-0030	0	0	0	0	8,883	10,380	19,263	19,263
RL-0040	0	0	0	0	2,131	439	2,570	2,570
RL-0041	0	0	0	0	8,095	10,847	18,942	18,942
RL-0042	0	0	0	0	38	101	139	139
Total	0	0	0	0	34,351	32,237	66,588	66,589
March 2017 MR Changes/Utilization								
RL-0011	0	0	0	0	(126)	0	-126	-126
RL-0012	0	0	0	0	0	0	0	0
RL-0013	0	0	0	0	0	0	0	0
RL-0030	0	0	0	0	(802)	0	-802	-802
RL-0040	0	0	0	0	(2,131)	(439)	-2,570	-2,570
RL-0041	0	0	0	0	0	0	0	0
RL-0042	0	0	0	0	0	0	0	0
Total	0	0	0	0	-3,059	-439	-3,498	-3,498
March 2017 MR Totals								
RL-0011	0	0	0	0	6,874	0	6,874	6,874
RL-0012	0	0	0	0	6,782	3,262	10,044	10,044
RL-0013	0	0	0	0	1,422	7,208	8,629	8,629
RL-0030	0	0	0	0	8,081	10,380	18,461	18,461
RL-0040	0	0	0	0	0	0	0	0
RL-0041	0	0	0	0	8,095	10,847	18,942	18,942
RL-0042	0	0	0	0	38	101	139	139
Total	0	0	0	0	31,293	31,798	63,091	63,091

SELF-PERFORMED WORK

Business structure information documents ongoing compliance with the requirements of the Contract Section H.20 clause entitled *Self-Performed Work*.

Contract-to-Date Actual Awards & Mods				Projection to FY2018	
10/1/2008 - 2/28/2017				Planned Subcontracting:	\$2,720,084,369
Reporting Category				Contract-to-date awards:	\$2,513,200,806
				Bal remaining to award:	\$206,883,563
	\$ Value	%	Goal %	Goal award\$	Bal to Goal
SB	\$1,376,117,315	54.76%	49.3%	\$1,341,001,594	-\$35,115,721
SDB	\$244,464,031	9.73%	8.2%	\$223,046,918	-\$21,417,113
SWOB	\$267,340,604	10.64%	7.5%	\$204,006,328	-\$63,334,277
HUB	\$59,008,483	2.35%	2.2%	\$59,841,856	\$833,373
VOSB	\$193,140,861	7.69%	3.5%	\$95,202,953	-\$97,937,909
SDVO	\$112,848,755	4.49%	1.3%	\$35,361,097	-\$77,487,658
NAB	\$52,990,184	2.11%	N/A	PRC clause H.20 small business requirement ≥ 17% of CHPRC Contract Price performed by SB.	
Large	\$646,247,843	25.71%	N/A		
GOVT	\$3,335,131	0.13%	N/A		
GOVT CONT	\$483,186,359	19.23%	N/A		
EDUCATION	\$110,685	0.00%	N/A	CHPRC Contract Value:	\$5,732,255,464
NONPROFIT_	\$3,778,611	0.15%	N/A	17% rqmt:	\$974,483,429
FOREIGN	\$424,861	0.02%	N/A	SB actual:	\$1,376,117,315
Total	\$2,513,200,806	100.00%	N/A	Bal to rqmt	-\$401,633,886

Notes:

1. Since the CHPRC contract award in October 2008, CHPRC has subcontracted \$2.5 billion in goods and services with over 54 percent going to small businesses. Nearly all subcontracting goals have been exceeded.
2. Approximately 91 percent of the total dollars arise from service and staffing contracts and contract amendments, with 6 percent of the remaining expenditures arising from P-Card purchases and 3 percent from the balance in purchase orders for materials and equipment.
3. Data is summarized by business categories (Women Owned Minority Business Enterprise codes) in accordance with socioeconomic reporting requirements. Small business categories overlap and should not be added together.

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

Contract Section	Project	GFS/I	Status
CONTRACT			
J.12/C.2.2, C.2.3	PBS-11, Plutonium Finishing Plant Closure Project PBS-13, Solid and Liquid Waste Treatment and Disposal	Offsite Transportation of Radioactive Material: RL provides equipment and government drivers to transport transuranic (TRU) materials outbound/inbound between the Hanford Site and Perma-Fix Northwest, Inc. (PFNW) locations. RL is the authorized shipper and acts as signatory on the shipping papers, and ensures DOE Manual 460.2-1 is complied with RL arranges for Commercial Motor Vehicle Safety Alliance (CVSA) level VI vehicle inspections and verifies that the government drivers meet the applicable Department of Transportation (DOT) Federal Motor Carrier Safety Regulations (49 CFR 382 and 383). RL also inspects the load securement to ensure compliance with DOT regulations and/or Transportation Safety Document (TSD) requirements.	Ongoing
J.12/C.2.3.6	PBS-13, Transuranic Waste Certification	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.	No WIPP shipments are planned within the Contract period of performance.

DOE ACTIONS/DECISIONS

Refer to Sections A through G as well as Appendix C of this report for the project specific DOE Actions / Decisions.

Section A

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



T. E. Bratvold
Vice President for
Plutonium Finishing
Plant Closure
Project

March 2017
CHPRC-2017-03, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

The removal of plutonium-contaminated process equipment continued with a particular focus on removing gloveboxes, associated piping, and ductwork. All gloveboxes have been removed from E4 ventilation and all preparations for demolition starting in the Plutonium Reclamation Facility (PRF) are complete. Initiation of demolition on the PRF started in early November 2016. Initiation of demolition on the 242-Z Facility started in early January 2017 and is 95 percent complete.

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

Significant accomplishments in March included:

- Demolition activities for 242-Z are 95 percent complete. Waste loadout activities are all that remain to complete in this work scope.
- Continued preparations for removal of HA-7A, HC-7C, and HC-18M gloveboxes from 234-5Z.
- Grouting of the 234-5Z pipe trenches is 93 percent complete. Identified 14 additional suspect trenches for grouting.
- Identified 14 additional pits in the 234-5Z Facility and initiated grouting; 29 percent complete.
- Continued preparations for the draining, venting, isolating, drying, and epoxy filling of Transuranic (TRU) drain lines in the 234-5Z below-grade tunnels.
- Continued demolition activities on 236-Z Facility.
- Completed cold and dark activities to support disconnect of the 13.8 Power Supply to PFP.
- Abated 742 feet of asbestos.
- Removed or dispositioned in place 62 feet of process vacuum piping.
- Shipped 4 m³ TRU Waste.
- Shipped 280 m³ Low Level Waste/Mixed Low Level Waste (LLW/MLLW).

Key Metrics

<i>Key Performance Indicators</i>	<i>Current Month</i>	<i>Contract To Date</i>
COMPLETE Glovebox/ Hood Removed or Dispositioned in Place	-	232 gloveboxes/hoods
COMPLETE KPP Rooms/Areas Ready for Demo	-	60 rooms/areas
Asbestos/ Asbestos Containing Material (ACM) Removed	742	30,915
Process Vacuum Piping Dispositioned	62	6,176 feet
COMPLETE Process Transfer Line Dispositioned	-	1,525 feet
COMPLETE Pencil Tank Units Removed (Shipped)	-	196 pencil tank units
Buildings Ready for Demo	-	50 structures
Buildings Demolished or Removed	-	48 structures
Non-radioactive Waste Shipped	-	76 m ³
Transuranic /Transuranic Mixed (TRU/TRU-M) Shipped	4 m ³	2,395m ³
LLW/MLLW Shipped	280 m ³	8,654 m ³

Environmental Management System (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	08/16/16	100%
			2. Issue report documenting thorough inspection of 242-Z	05/26/16	100%
			3. Issue report documenting thorough inspection of 234-5Z	04/30/17	90%
			4. Issue report documenting thorough inspection of 291-Z	05/30/17	100%
17-EMS-PFP-OB1-T1	Reduce the risk of noncompliance with environmental requirements during demolition at PFP.	Reduce risk of noncompliance with applicable environmental requirements by enhancing the environmental screening process for demolition packages for 242Z, 234-5Z, and 291Z. Thereby reducing the overall impacts from PFP's significant aspects.	1. Create ready for demolition checklist for 242Z/ZA	11/30/16	100%
			2. Review 242Z/ZA demolition work package against environmental requirements	12/29/16	100%
			3. Create ready for demolition checklist for 291Z	02/28/17	100%
			4. Review 291Z demolition work package against environmental requirements	03/30/17	75%
			5. Create ready for demolition checklist for 234-5Z	03/30/17	100%
			6. Review 234-5Z demolition work package against environmental requirements	04/27/17	0%

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	5	71	<ul style="list-style-type: none"> • 3/5/2017 – Employee cut finger of right hand on conduit. Employee was provided the material to self-treat as the first aid office was closed. Employee reported to HPMC the following morning. (24390) • 3/13/2017 – Employee turned left, heard a pop and felt immediate pain in left knee. Employee was taken to HPMC for observation/treatment, which was diagnosed with knee strain and returned to work with restrictions. (24396) • 3/13/2017 – Employee received a minor abrasion to his left thumb while holding a ladder for a co-worker, who inadvertently stepped on the employee's left thumb. Employee was taken to HPMC for observation/treatment, and returned to work with radiological restrictions (zone-entry dressings). The employee was also sent for a wound count. (24395) • 3/9/2017 – Employee struck head on an overhead pipe while working on a scaffold. Employee was wearing a hard hat. Employee was taken to HPMC, examined, and diagnosed as having a sprain/strain to neck. Non-prescription medication was given, and employee was released to return to work without restrictions. (24394) • 3/30/2017 – Employee lost balance and fell, twisting left ankle and when stepping on gravel transitioning from asphalt. This caused road rash to right shin, and a bruise on the right hip, elbow, lower back area, and buttocks. The employee reported the injury by text from off-site. (24419)
Near Misses	0	0	N/A

KEY ACCOMPLISHMENTS

RL-0011 Accomplishments

234-5Z

- Abated 742 feet of asbestos.
- Removed or dispositioned in place 62 feet of process vacuum piping.
- Grouting of the 234-5Z pipe trenches is 93 percent complete.
- Identified 14 additional suspect trenches for grouting.
- Identified 14 additional pits in the 234-5Z Facility and initiated grouting; 29 percent complete.
- Continued preparations for the draining, venting, isolating, drying, and epoxy filling of TRU drain lines in the 234-5Z below-grade tunnels.
- Continued preparations for removal of HA-7A, HC-7C, and HC-18M gloveboxes from 234-5Z.

PFM Waste Operations

- Shipped four m³ TRU/TRU-M waste.
- Shipped 280 m³ LLW/MLLW.

Demolition Activities

- Demolition of 242-Z is 95 percent complete. Waste loadout activities are all that remain to complete this work scope.
- Continued demolition activities on the 236-Z Facility.

PTS

Engineering Services

- Issued final reports for the Evaluation of Deactivation and Decommissioning Missile Impact on Buildings 234-5Z and 291-Z and the Evaluation of Vibration Impact on tank 241-Z-361 and Below Grade Water Line due to Demolition Activities.

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-0011/WBS-011.OA								
Explanation of major changes to the project monthly stoplight chart: No major changes to the monthly stoplight chart in the month of March .								
Realized Risks (Risks that are currently impacting project cost/schedule)								
PFP-096: PPE availability or failed respirator equipment impacts planned D&D work	Due to old generation Personal protective equipment (PPE), respirator equipment fails planned D&D work and impacts project with cost and schedule delays. Risk Handling Strategy: Accept Probability: Likely (75% to 90%) Worst Case Impacts: \$300K, 24 days			Risk Event: The project is currently experiencing impacts from a stop work that was issued by another Hanford contractor on the use of respirators as a result of a powered air purifying respirator (PAPR) shutting down during a training evolution on the use of the equipment.				
				<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Risk Recovery action(s)</th> <th style="text-align: center;">Risk Date</th> <th style="text-align: center;">FC Date</th> <th style="text-align: center;">%</th> </tr> </thead> <tbody> <tr> <td>Procure additional PPE with new generation respirator equipment.</td> <td style="text-align: center;">04/15/16</td> <td style="text-align: center;">Ongoing</td> <td style="text-align: center;">Ongoing</td> </tr> </tbody> </table>	Risk Recovery action(s)	Risk Date	FC Date	%
Risk Recovery action(s)	Risk Date	FC Date	%					
Procure additional PPE with new generation respirator equipment.	04/15/16	Ongoing	Ongoing					
Recovery Assessment: During the month of March, the project experienced issues with the shutdown of four PAPR units. There was no impact to the project, as spare respirators had been previously procured to mitigate the potential of this risk occurring. However, a stop work on the use of the PAPR units was issued by another Hanford contractor during a training class on the use of the PPE resulting in the inability to complete insulator 40 hour Occupational Safety and Health Administration (OSHA) training and impacting the ability to deploy the insulator resources into the field to support asbestos removal activities at PFP. This risk was designated to be realized based on several events related to failed PPE. Discussion will be held with CHPRC's Change Control Coordinator concerning the usage of management reserve to procure additional PPE to avoid future fieldwork impacts. The mitigation strategies have been put in place, as a result, the risk strategy is to accept with no further mitigation actions.								

Risk Title	Unmitigated Risk Impacts	Assessment		Comments																
		Month	Trend																	
RL-0011/WBS-011.OA																				
PFP-092-02: Final Facility Characterization Identifies Unexpected Hold-up	Unexpected or late discovery of radiological (Pu) or chemical (Asbestos) holdup requiring added facility deactivation. Risk Handling Strategy: Control Probability: Medium (26% to 74%) Worst Case Impacts: \$380K, 24 days			<p>Risk Event: Based on characterization data, the amount of asbestos insulated piping to be removed had been estimated since FY2013 to be approximately 24,000 linear feet. In January, about an additional 10,000 feet of asbestos was discovered taking the total of asbestos to be removed to about 35,612 feet. In the month of March, an additional 215 feet was discovered that also required removal. With March 2017 progress, the PFP project has actually removed over 30,915 linear feet to date with additional asbestos still remaining to be removed. In March, the process vacuum system removal effort encountered high hold-up conditions. While this applicable portion of the system had been characterized by NDA, material encountered required additional special handling, which was not foreseen.</p> <table border="1"> <thead> <tr> <th>Risk Recovery action(s)</th> <th>Risk Date</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Collaborate with Safeguards to develop and approve Safeguards termination criteria for remnant piping and duct work.</td> <td>01/09/17</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Collaborate with Criticality Safety to recognize the reduced removal action necessary for Safeguards termination and as feasibly warranted, revise CSER requirements to achieve a criticality incredible state</td> <td>01/09/17</td> <td>04/20/17</td> <td>95</td> </tr> <tr> <td>Work with RL to utilize contingency for about an additional 10,000 feet of asbestos identified during walkdowns and inspections</td> <td>01/09/17</td> <td>Ongoing</td> <td>N/A</td> </tr> </tbody> </table> <p>Recovery Assessment: Based on completed inspections, this risk has been triggered by additional TSI identified that was not part of the original engineering estimate that was used to develop the RL-011 baseline. Mitigating action cited focuses on managing the need for added asbestos abatement work. Discussions are underway on utilizing contingency funds to strengthen the asbestos abatement work force to complete the added scope of work.</p> <p>With respect to the emerging risk regarding characterization of remnant stubs and piping left for facility demolition, RL formally accepted the proposed Safeguards termination criteria. Criticality Engineering is nearing completion on revising criticality incredibility requirements that enable recognition of the termination limits. Any added characterization of remnant piping is thereby reduced and only pursued when the total MAR in a given demolition zone (Crit Safety Value g-Pu) exceeds specified limits, which are not considered restrictive.</p> <p>Final consideration of impacts to air dispersion modeling as well as waste disposition have been evaluated, resulting in finalizing the scope of ductwork in need of removal and that which can remain in place for demolition. These programmatic mitigating actions, expected to be complete before the end of April 2017, enables the opportunity to achieve the reduced scope of remaining ongoing facility deactivation work. Given the potential impact to the 234-5Z demolition schedule, however, per PRC-MP-PC-40167, this risk remains critical.</p>	Risk Recovery action(s)	Risk Date	FC Date	%	Collaborate with Safeguards to develop and approve Safeguards termination criteria for remnant piping and duct work.	01/09/17	Complete	100	Collaborate with Criticality Safety to recognize the reduced removal action necessary for Safeguards termination and as feasibly warranted, revise CSER requirements to achieve a criticality incredible state	01/09/17	04/20/17	95	Work with RL to utilize contingency for about an additional 10,000 feet of asbestos identified during walkdowns and inspections	01/09/17	Ongoing	N/A
Risk Recovery action(s)	Risk Date	FC Date	%																	
Collaborate with Safeguards to develop and approve Safeguards termination criteria for remnant piping and duct work.	01/09/17	Complete	100																	
Collaborate with Criticality Safety to recognize the reduced removal action necessary for Safeguards termination and as feasibly warranted, revise CSER requirements to achieve a criticality incredible state	01/09/17	04/20/17	95																	
Work with RL to utilize contingency for about an additional 10,000 feet of asbestos identified during walkdowns and inspections	01/09/17	Ongoing	N/A																	
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)																				
No critical risks identified in the month of March.																				
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)																				
PFP-DEMO-24: Stop work from concerned workers	Concerned workers results in a stop work to address an off-normal or safety issue. The work cannot be restarted until the implementation of corrective actions is completed. Risk Handling Strategy: Accept Probability: Likely (75% to 90%) Worst Case Impacts: \$0K, 24 days			<p>Risk Trigger: The project has experienced stop works from concerned workers due to SCBA cylinders, failed respirator equipment, chemical concerns, contamination events, and jurisdictional issues.</p> <table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>None identified at this time</td> <td>N/A</td> <td>N/A</td> </tr> </tbody> </table> <p>Mitigation Assessment: No major changes in the month of March. The mitigation strategies have been put in place, as a result, the risk strategy is to accept with no further mitigation actions.</p>	Mitigation action(s)	FC Date	%	None identified at this time	N/A	N/A										
Mitigation action(s)	FC Date	%																		
None identified at this time	N/A	N/A																		
Unassigned Risks (Pending ownership of identified risks/opportunities)																				
No unassigned risks identified in the month of March.																				

PROJECT BASELINE PERFORMANCE

Current Month

(\$M)

WBS 011/RL-0011 Nuclear Matl Stab & Disp PFP	Budgeted Cost of Work Scheduled (BCWS)	Budgeted Cost of Work Performed (BCWP)	Actual Cost of Work Performed (ACWP)	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)
Total	0.4	5.1	15.3	4.8	1,290.2%	(10.2)	-198.5%

Numbers are rounded to the nearest \$0.1 million.

CM Schedule Variance: (+\$4.8M/+1,290.2%)

The current month positive schedule variance is primarily due to completion of historical BCWS associated with the 26-inch process vacuum removal, characterization, asbestos, drain lines, E3/E4 duct scope, trench grouting and drain line remediation in 234-5Z as well as sample and process vacuum system removal in 291-Z. Because all work is historical, the current schedule variance will be favorable going forward. Additionally, performance of behind schedule demolition work scope associated with the demolition of 236-Z and 242-Z also contributes to this positive variance. This scope was to be performed in the third quarter of 2016, however, delays in getting 236-Z ready for demolition negatively impacted the start of both 236-Z and 242-Z demolition. Demolition of 236-Z is currently scheduled to complete on June 26, 2017. 242-Z has been physically demolished with waste loadout the only remaining activity under the 011.05.C3.06.03 Work Package, which is scheduled to complete on March 29, 2017. The positive schedule variance is partially offset by additional scope that has been identified that requires removal of an additional ~10,000 feet of asbestos that was not visible on any plant drawings when the baseline was developed, further delaying the demolition-ready activities; recovery efforts from the contamination event associated with the PRF demolition activities, and the delay in the demobilization and installation of the cover cap following demolition of PFP. The demobilization work has been significantly impacted due to the delays in getting 236-Z, 242-Z, 291-Z, and 234-5Z ready for demolition and cannot occur until all buildings are demolished.

CM Cost Variance: (-\$10.2M/-198.5%)

The current month negative cost variance is primarily due to the delay in completion of the PFP Project to achieve slab on grade. The delay is causing needed extensions of both Minimum Safe, Maintenance, and D&D project management resources, without BCWS, to support the remaining D&D work scope until the facility becomes ready for demolition. In addition, asbestos abatement, E4 duct removal, and process vacuum removal are all requiring more time and additional resources to complete work. Additional resources (i.e., pipefitters, electricians, insulators, Radiological Control Technicians) have also been hired temporarily to attempt to recover schedule. Additional activities have been identified that require removal of an additional ~10,000 feet of asbestos that was not visible on any plant drawings when the baseline was developed, further delaying the demolition ready activities. Due to delays in ready-for-demo activities, resources supporting waste processing activities that were planned to be completed in FY2016 are continuing to charge for support of waste loadout, processing, and shipping. Additional unplanned shipping materials (Waste shipping containers (TL-1800s, SLB2s, IP-1 bags, etc.)) were also required to support waste loadout activities. Unplanned shipments of drums to Perma-fix Northwest also contributed to the unfavorable variance. Continuation of quarterly stipend certification payments is also contributing to this variance. In addition, due to the historical (December 2015) radiological issues resulting in compensatory measures that have been implemented at PFP, additional radiological and industrial hygiene resources have been assigned to support the PFP Project until the slab on grade milestone is met.

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	979.2	932.9	1,004.1	(46.3)	-4.7%	(71.3)	-7.6%	980.5	1,063.5	(83.0)

Numbers are rounded to the nearest \$0.1 million

Contract-to-Date (CTD) Schedule Variance (-\$46.3M/-4.7%)

The CTD schedule variance is within threshold.

CTD Cost Variance (-\$71.3M/-7.6%)

The negative CTD cost variance is primarily a result of prior year unrecoverable costs as well impacts to D&D work scope and extending Level-of-Effort and support services, consistent with delayed activities, in support of completing Tri-Party Agreement Milestone M-083-00A. In addition, unplanned costs to support implementation of efficiency initiatives at PFP (i.e., foaming and PremAire Breathing Air), and increased training as a result of assignment of new Health Physics Technicians, and D&D workers (as the result of Hanford Atomic Metal Trades Council (HAMTC) lamping process) to PFP have also contributed to this variance. Additional resources to recover schedule for asbestos removal activities and to cover the additional asbestos needing to be removed that was recently identified (~10,000 feet). This is partially offset by utilization of fewer breathing air suits and hoses being used than originally planned for 242-Z entries as a result of fewer field work team members required to perform hands-on work in 242-Z because of the confined space and size of suits (three suits per day vs. five).

Variance at Completion (-\$83.0M/-8.5%)

The Variance at Completion (VAC) unfavorable variance is reflective of previous inability to achieve 20 percent increased efficiency associated with time on respirator as assumed in the baseline plan. The Collective Bargaining Agreement was accepted and recognized efficiencies are continuing to be recognized with more time on mask and implementation of the value engineering initiatives associated with high-mass gloveboxes and grouting. Extended hotel loading costs as a result of delays in demolition ready and demolition activities caused by issues identified in the CTD schedule variance above are also driving the negative VAC. As a result of the wall removal and electrical isolations, it was discovered that ~10,000 feet of additional asbestos was between the walls that would need to be removed. This is a recognized risk (PFP-092-02) and has been incorporated into the VAC. Of note, CHPRC is working with RL to utilize contingency for the additional ~10,000 feet of asbestos identified during walkdowns and inspections. Finally, increased utilization of overtime is being used to ready the 234-5Z facility for demolition by June 2017. This is partially offset by recognized efficiencies due to characterization data in the 234-5Z duct level allowing piping and ducting to be left in place for demolition. The variance at completion is reflective of PFP's current projected date to reach slab on grade no later than September 30, 2017.

Contract Performance Report Formats are provided in Appendix A.

FUNDS vs. SPEND FORECAST (\$M)

WBS 011/RL-0011 Nuclear Matl Stab & Disp PFP	FY2017		Variance
	Projected Funding	Spending Forecast	
Spending Forecast	104.9	120.1	(15.2)
Incremental Scope Pending Change Management	0.0	0.0	0.0
RL-0011 - Total	104.9	120.1	(15.2)

Numbers are rounded to the nearest \$0.1 million

Funds/Variance Analysis

FY2017 expected funding for project breakdown structure (PBS) RL-0011 remains at \$104.9 million. The Fiscal Year Spend Forecast (FYSF) for March increased significantly to \$120.1 million. The primary contributors to the increase are utilization of overtime, waste handling bags, and TL-1800 waste containers; consumable materials; and subcontracts resulting from the delay in completion of the PFP Project to achieve slab on grade. The funds in this control point for estimate to complete (ETC) for regular scope are adequate to support current work. Recognized efficiencies will be necessary to support slab removal if RL direction to perform this work is received.

Critical Path Schedule

The PFP Critical Path Schedule starts with completing the final phase of demolition of the 242-Z facility. This is followed by continuing demolition of the fourth, third, second, and first floors of 236-Z, leading to demolition of the 236-Z Canyon. Once demolition of 236-Z is complete, demolition of the A-Labs portion of the 234-5Z facility begins. This leads to the following sequence for demolition on 234-5Z: RMA Process Lines, RMC Process Lines, and the RADTU & Basement areas. Once the 234-5Z has been demolished, the Tri-Party Agreement Milestone – M-083-00A - *PFP Facility Transition and Selection Disposition Activities* will have been met.

MILESTONE STATUS

Tri-Party Agreement milestones represent significant events in project execution. RL Enforceable Agreement milestones were established to provide high-level visibility to critical deliverables and specific status on the accomplishment of these key events. The Performance Measurement Baseline (PMB) Annual Update, implemented in September 2013, and subsequent approved Baseline Change Requests (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	PFM Facility Transition and Selection Disposition Activities	09/30/17		8/24/17	During the month of March, the PFM project gained six days on the schedule from the February month-end forecast completion date of the Tri-Party Agreement milestone for the PFM Project to reach slab on grade. This is a result of recognized efficiencies during the demolition activities of the 242-Z facility and 26-inch process vacuum removal efforts. As the PFM Project continues to make progress on the behind schedule critical path work scope being performed, it is expected efficiencies will be recognized, evaluated, and implemented to recover some schedule delays.

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

Contract Section	Project	GFS/I	Status
CONTRACT			
J.12/C.2.2, C.2.3	PBS RL-0011, Plutonium Finishing Plant Closure Project	Offsite Transportation of Radioactive Material: RL provides equipment and government drivers to transport TRU materials outbound/inbound between the Hanford Site and Perma-Fix Northwest (PFNW) locations. RL is the authorized shipper and acts as signatory on the shipping papers, and ensures DOE Manual 460.2-1 is complied with. RL arranges for Commercial Motor Vehicle Safety Alliance (CVSA) level VI vehicle inspections and verifies that the government drivers meet the applicable Department of Transportation (DOT) Federal Motor Carrier Safety Regulations (49 CFR 382 and 383). RL also inspects the load securement to ensure compliance with DOT regulations and/or Transportation Safety Document (TSD) requirements.	Ongoing

DOE ACTIONS / DECISIONS

None 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

March 2017
CHPRC-2017-03, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

M. A. Wright
Vice President for
Project Technical
Services

PROJECT SUMMARY

Based upon discussions between RL and CHPRC Senior Management, the Sludge Treatment Project (STP) Team has modified the Field Execution Schedule (FES) to implement acceleration opportunities that could facilitate the transfer of all sludge to the T Plant in fiscal year (FY) 2018. On March 27, 2017, CHPRC formally submitted letter CHPRC-1701045R1 - CONTRACT NUMBER DE-AC06-08RL14788 – Change Proposal CP 012 PRC 1646, Revision 0, Sludge Removal Project Acceleration of 105KW and T Plant for RL approval. In order to meet the accelerated schedule, support from CHPRC and RL is required for the following assumptions:

- Significant overtime/weekend work is required to reduce the schedule duration.
- Approval of the integrated 105K West Documented Safety Analysis (DSA) must not affect project critical path. This integrated DSA/ technical safety requirement (TSR) includes as-built information from installation activities and therefore a subsequent “as-built” DSA/TSR submittal is not required.
- Sludge Removal Project (SRP) CD-4 approval must occur concurrently with commencing sludge retrieval operations.
- Approval of the T Plant safety documentation must be completed within 120 days of submittal.
- To demonstrate the current forecast date of Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) M-016-175, *Begin sludge removal from 105-KW Fuel Storage Basin*, the milestone has been disconnected from the risk analysis schedule margin. The current, non-risk adjusted forecast date to begin sludge removal is January 19, 2018.

Installation of process hardware completed in March 2017, with K Basin Preoperational Acceptance Testing (KPAT) scheduled to begin in mid-April 2017.

Project breakdown structure (PBS) RL-0012 scope is over 85 percent complete, and performance to date is positive with a cumulative Schedule Performance Index (SPI) of 1.00 and a cumulative Cost Performance Index (CPI) of 1.05.

EMS OBJECTIVES AND TARGET STATUS

None currently identified.

TARGET ZERO PERFORMANCE

	CM Quantity	Rolling 12 Month	Comment
Dart Injuries	0	1	N/A
Recordable Injuries	0	1	N/A
First Aids	0	14	N/A
Near Misses	0	0	N/A

KEY ACCOMPLISHMENTS

100K Operations

- The 100K Operations group continued maintaining facilities in a safe and compliant condition. Crews continued debris dose mapping, relocation activities in 105KW Basin, and performance of several monthly and quarterly routines during the period. In addition, support was provided to SRP for Annex/In-Basin equipment installation and facility modifications.
- The effort to retrieve and containerize the sludge pile in the KW Basin Center Bay discovered during debris mapping continued as resources allow.

KW Basin Sludge Retrieval Capital Asset Project

- KW Annex Construction Project Technical Services (PTS)
 - Completed re-route and installation of northwest exterior downspout.
 - Completed installation of 105 KW rail protection around exterior nitrogen storage system.
 - Completed testing, adjusting, and balancing of heating, ventilation, and air conditioning (HVAC) system.
 - Completed gathering HVAC equipment vibration baseline data to support completion of the Testing and Balancing (TAB) report.
 - Completed mechanical and electrical installation of supplemental cooling system.
 - Completed handrail modification around Mezzanine floor penetration for hoses.
 - Completed repair on Sludge Transport & Storage Container (STSC) cable plug, reinstalled cask lid, and removed trailer from loading bay and staged East of Annex.
 - Removed the front north plate from the sand filter-shielding box to support future KPAT activities.
- KW Basin In Basin Construction (PTS)
 - Completed vestibule pass-through door modification.
 - Completed painting of handrails/toe boards at northeast Corner and above the Engineered Containers.
 - Completed energizing Basin and Room 20A panels to support Pre-KPAT Checkouts.

- Completed annual inspection and installed new tags on both Hydrolance Deployment Beam assemblies.
- Resolution of remaining DSA & TSR comments continues. A review with the Safety Basis Review Team (SBRT) of draft documents with all comments incorporated is scheduled the week of April 10, 2017. The DSA/TSR must be approved and implemented prior to integrated KPAT activities that transfer 105K West Basin water into the 105K West Annex.
- The Maintenance and Storage Facility (MASF) Pre-operational Acceptance Test (MPAT) Report was approved by the STP, Joint Test Group on January 31, 2017, however, comment incorporation and issuance has been given a lower priority than development and approval of KPAT Specifications/Procedures. The MPAT Test Report is forecast to complete in April 2017.
- KPAT specification development, review, and approval efforts continued. There will be a total of 14 specifications and one procedure required. All specifications and the test procedure that executed testing steps are forecast to be approved in mid-April as additional reviews were required.
- Engineered Container Retrieval and Transfer System (ECRTS) Procurement: STSC Vessels and Installation of STSC Instrumentation/Appurtenances continued through the fiscal month. The project is on track to complete the first 12 STSC Assemblies by September 30, 2017. American Boiler Works (ABW) will also complete fabrication of the final 11 STSC Shells by September 30, 2017. Once the final 11 STSC shells are fabricated, they will be transported to HiLine for installation of associated instrumentation and appurtenances.
- Progress continues in development of the Operations and Maintenance Procedures supporting sludge removal and packaging operations. Nuclear Chemical Operator (NCO), Subject Matter Expert (SME) qualifications completed in March.
- Readiness documentation development continued as planned.

T Plant Preparations

- Facility Modifications/Construction (PTS)
 - Removed the Nitrogen System manifold from the T Plant Tunnel for repair.
 - Work package WCN-3 was approved to address design changes to the Nitrogen System configuration.
 - Safety significant parts were received to support the WCN-03 for the Nitrogen system and are in the process of receipt inspection and commercial grade dedication.

Other Support from PTS

- Completed training on ECRTS Systems to Team 1.

MAJOR ISSUES

T Plant Major Issues

Issue:

T Plant Construction is experiencing an approximate 5.5-month field execution schedule delay with the completion of the Nitrogen Purge System (no impact to STP critical path) installation and testing. Discovery of as-found nitrogen manifold maintenance issues have resulted in nitrogen manifold design changes.

Corrective Action:

T Plant Design Authority (DA) prepare/issue design changes. PTS to provide General Contractor with change order to procure and expedite safety significant material to the extent possible.

Status:

Engineering Change Request (ECR) issued (February 23, 2017) and placed safety significant material order with delivery in April. Installation, CAT testing and Acceptance Test Procedure (ATP) to follow. ATP completion is now forecast for early/mid-May. Issue is closed.

T Plant

Issue:

CHPRC submitted the Solid Waste Operations Complex (SWOC) Master Documented Safety Analysis (MDSA)/ TSR Revision 12 to RL for review and approval on November 28, 2016. On March 30, 2017, the RL Contracting Officer transmitted Letter 17-NSD-0018_RL to CHPRC providing a RL Review Comment Record (RCR) against the SWOC MDSA/TSR Revision 12 requiring resolution of 35 pages of comments and a resubmittal. The schedule for receipt of a Safety Evaluation Report (SER) approving the SWOC MDSA is currently beyond the schedule assumptions in the Performance Management Baseline (PMB) and is in jeopardy of negatively impacting the Sludge Removal Project (SRP) Critical Path.

Corrective Action:

Continue working closely with the RL Nuclear Safety Division (NSD) Staff to resolve comments as expeditiously as possible. Expedite comment incorporation, CHPRC internal approval of the update MDSA/TSR Package, and RL approval of that package.

Status:

CHPRC is forecasting a completion date for having all RL NSD comments incorporated and the document ready to be retransmitted to RL NSD by April 24, 2017. Once RL has reviewed and accepted the updated SWOC MDSA/TSR package, and SER will be issued to CHPRC.

Sludge Removal Project

Issue:

Iron contamination was discovered in STSCs that had previously been accepted by Mission Support Alliance (MSA) Acquisition Verification Services (AVS) final inspections.

Corrective Action:

A causal analysis and corrective action plan were completed to ensure all STSCs are tested, cleaned as necessary, and declared free of iron contamination.

Status: Issue Closed

1. STSC 410-413 were cleaned, retested, and accepted by CHPRC - Complete.

2. STSC 402-403 remain at HiLine (with instrumentation/appurtenances installed) and will be tested, cleaned, and retested by HiLine personnel, due to the difficulty and expense of returning these vessels to Arlington, WA, with instrumentation and appurtenance installed. This work will complete prior to the end of April.
3. STSC 404-409 have been shipped back to Arlington, WA, for testing, cleaning, and retesting, as appropriate. STSC 405 and 406 were completed February 23, 2017, and STSC 404, and 407-409 will be completed in April.
4. STSC 414-424 will be tested for free-iron, cleaned, and retested, as appropriate – forecasted delivery by September 2017.

Sludge Removal Project

Issue:

The schedule for resolving RL Safety Basis Review Team (SBRT) comments on the 105K West Basin/Annex DSA/TSR is slipping, putting the activity in jeopardy of negatively impacting the KPAT Integrated Test and SRP critical path.

Corrective Action:

Continue working closely with the RL SBRT to resolve comments as expeditiously as possible. CHPRC will expedite comment incorporation, obtain CHPRC internal approval of the update DSA/TSR Package, and request RL approval of that package.

Status:

CHPRC is forecasting a completion date for having all RL SBRT comments incorporated and the document ready to be retransmitted to RL by April 12, 2017. Additional time has been required due to unresolved comments.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change



● Opportunity currently realized, or mitigation efforts are currently working toward, or after risk trigger with no foreseeable impacts.
 ● Mitigation efforts are currently working toward risk trigger with the possibility of actions not in place prior to risk occurrence. Recovery actions may be needed.
 ● Risk currently realized, or risk mitigation efforts are past risk trigger date with foreseeable impacts. Recovery actions needed.

↑ Increased Confidence
 ↔ No Change
 ↓ Decreased Confidence

Unmitigated Risk Impacts	Assessment		Comments																								
	Month	Trend																									
RL-0012/WBS-012																											
Explanation of major changes to the project monthly spotlight chart: No major changes to the monthly spotlight chart in the month of March .																											
Realized Risks (Risks that are currently impacting project cost/schedule)																											
STP-072: Delayed STSC/ECRTS Procurement & Delivery Material delivery and fabrication issues at ECRTS vendor facilities delay the delivery of the components to the Sludge Treatment Plant (STP), resulting in cost impacts and schedule delays. Additionally, discovery of additional components requiring fabrication result in deliveries that challenge project baseline schedules. Risk Handling Strategy: Control Probability: Very Likely (>90%) Worst Case Impacts: \$3,000K 120 days	●	↑	Risk Event: Event 1: In order to establish a reliable Sludge Transportation System Cask configuration capable of meeting the project's needs, several ports must be reconfigured to ensure reliable leak-tight integrity. This discovery was outside of baseline material procurement plans. <table border="1"> <thead> <tr> <th>Risk recovery action(s)</th> <th>Risk Date</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Event 1 - Finalize Field FES activities dates consistent with change orders</td> <td>12/7/16</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Complete Procurement/Fabrication</td> <td>12/7/16</td> <td>03/31/17</td> <td>90</td> </tr> <tr> <td>Deliver equipment to 100K Area</td> <td>12/7/16</td> <td>03/31/17</td> <td>90</td> </tr> <tr> <td>Replace STS Cask Seals</td> <td>12/7/16</td> <td>07/31/17</td> <td>0</td> </tr> <tr> <td>Conduct post repair leak test.</td> <td>12/7/17</td> <td>07/31/17</td> <td>0</td> </tr> </tbody> </table> Recovery Action Assessment: Event 1: New seals and bolts will be delivered on 3/31/17. Cask seal repair planned prior to 7/3/17. Proof test on new seal will likely be delayed until fabrication and qualification of Cask Leak Test Tool is qualified by Nondestructive examination (NDE) Contractor.	Risk recovery action(s)	Risk Date	FC Date	%	Event 1 - Finalize Field FES activities dates consistent with change orders	12/7/16	Complete	100	Complete Procurement/Fabrication	12/7/16	03/31/17	90	Deliver equipment to 100K Area	12/7/16	03/31/17	90	Replace STS Cask Seals	12/7/16	07/31/17	0	Conduct post repair leak test.	12/7/17	07/31/17	0
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STP-067A Safety Classification of SSCs - DSA/TSR RL approval of the Documented Safety Analysis (DSA)/Technical Safety Requirements (TSR) takes longer than the assumptions planned for in the baseline. Risk Handling Strategy: Control Probability: Very Likely (>90%) Worst Case Impacts: \$3,000K 120 days	●	↑	Risk Event: CHPRC sent the DSA and TSR to RL for review and approval on October 20, 2016, in letter CHPRC-1604692. RL rejected this submittal via correspondence 1700081A/17-NSD-0006. The Original project baseline included 120 calendar days for RL to approve the safety basis document; however, it has now been 151 days (as of 3/19/17) with formal approval still not imminent. <table border="1"> <thead> <tr> <th>Risk recovery action(s)</th> <th>Risk Date</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Solicit Senior RL & CHPRC involvement in resolving deficiencies.</td> <td>1/28/17</td> <td>As Needed</td> <td>N/A</td> </tr> <tr> <td>Conduct interface meetings between RL Safety Basis Review Team (SBRT) & CHPRC Nuclear Safety personnel to negotiate a product that is acceptable to RL.</td> <td>1/28/17</td> <td>4/13/17</td> <td>55</td> </tr> <tr> <td>CHPRC to appoint an independent facilitator to assist in resolution of RL comments.</td> <td>1/28/17</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Prepare a change order to obtain Management Reserve for realized risk.</td> <td>1/28/17</td> <td>Complete</td> <td>100</td> </tr> </tbody> </table> Recovery Action Assessment: RL & CHPRC Senior Management have met multiple times in an attempt to resolve differences on the DSA/TSR Submittal. All DSA/TSR comments have been dispositioned as of 2/17/17. Obtaining RL concurrence on comment resolution continues to slip and is now forecasted to complete 4/13/17. CHPRC and RL agreed to commission an independent facilitator (who arrived 3/9/17) to assist in resolving RL comments against the DSA/TSR Submittal. Efforts continue to produce a product acceptable to the SBRT.	Risk recovery action(s)	Risk Date	FC Date	%	Solicit Senior RL & CHPRC involvement in resolving deficiencies.	1/28/17	As Needed	N/A	Conduct interface meetings between RL Safety Basis Review Team (SBRT) & CHPRC Nuclear Safety personnel to negotiate a product that is acceptable to RL.	1/28/17	4/13/17	55	CHPRC to appoint an independent facilitator to assist in resolution of RL comments.	1/28/17	Complete	100	Prepare a change order to obtain Management Reserve for realized risk.	1/28/17	Complete	100				
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Unmitigated Risk Impacts		Assessment		Comments																								
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RL-0012/WBS-012																												
STP-067E Safety Classification of SSCs - MDSA Rev. 12	RL approval of the MDSA Rev 12 takes longer than the negotiated assumption planned for in the baseline and/or the safety classification of Systems, Structures, & Components (SSCs) is more conservative than the safety analysis dictates resulting in cost impacts and schedule delays. Risk Handling Strategy: Control Probability: Very Likely (>90%) Worst Case Impacts: \$600K 120 days			Risk Event: On 11/28/16, CHPRC submitted letter CHPRC-1604566AR1 - MDSA, REV 12, the TSR REV 12, the <i>T PLANT FHA</i> , and the SWOC FHA, Rev 6. While the baseline plan assumed that RL would review and approve this submittal within 120 calendar days (or by 3/30/17), RL senior management had informally agreed to accelerate review/approval of this submittal within 60 days to facilitate moving all 100K Sludge from the 105KW Basin to T Plant by 9/30/18. RL will transmit letter 17-NSD-0018_RL to CHPRC on 3/30/17, providing a 35 page Review Comment Record (RCR) with comments that must be resolved prior to resubmitting the updated MDSA & TSR. The target date for resubmitting the updated MDSA/TSR is 4/24/17.																								
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Recovery Action Assessment: CHPRC will receive letter 17-NSD-0018_RL on 3/30/17 providing 35 pages of comments against the MDSA/TSR R12 submittal. CHPRC is currently working to resolve these comments and projects resubmittal of a revised document on 4/24/17. Once RL issues a Safety Evaluation Report, CHPRC will proceed with implementation activities.																												
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)																												
No critical risks identified in the month of March .																												
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)																												
FY2017 Risk Triggers (Risk could be realized in FY2017)																												
STP-103: K Basin Pre-Operational Acceptance Testing (KPAT) & ECRTS Startup	The ECRTS equipment does not operate as expected, requiring increased engineering, startup, operations, and construction Firm Fixed Price contractor support; as well as equipment replacement, procurement, and retesting. Realization of this risk would also require additional training, procedure revision, and design modifications as a result of construction testing and/or Lines of Inquiry for Readiness Review resulting in cost impacts and schedule delays. Risk Handling Strategy: Control Probability: Medium (26% to 74%) Worst Case Impacts: \$4.5 million, 90 days			Risk Trigger: 1) The ECRTS equipment does not operate as expected. 2) Unexpected attrition of critical testing personnel.																								
				<table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Develop and refine procedures based upon feedback from testing and operations personnel.</td> <td>4/13/17</td> <td>75</td> </tr> <tr> <td>Develop streamline strategy (work packages and procedures) to perform in-basin/annex integrated testing and troubleshooting.</td> <td>3/30/17</td> <td>35</td> </tr> <tr> <td>Utilize Overtime to offset schedule impacts.</td> <td>As Needed</td> <td>N/A</td> </tr> <tr> <td>Closely monitor employee satisfaction and consider employee incentive to retain key test personnel.</td> <td>As Needed</td> <td>N/A</td> </tr> </tbody> </table>	Mitigation action(s)	FC Date	%	Develop and refine procedures based upon feedback from testing and operations personnel.	4/13/17	75	Develop streamline strategy (work packages and procedures) to perform in-basin/annex integrated testing and troubleshooting.	3/30/17	35	Utilize Overtime to offset schedule impacts.	As Needed	N/A	Closely monitor employee satisfaction and consider employee incentive to retain key test personnel.	As Needed	N/A									
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Mitigation Assessment: Forecasted mitigation dates slipped two weeks as scope was found to be more extensive and difficult to complete than planned. Dates are driving the STP critical path.																												

Unmitigated Risk Impacts	Assessment		Comments									
	Month	Trend										
RL-0012/WBS-012												
<p>STP-018-O: STP Operational Upset or Spill - During first STSC</p> <p>An operational upset or spill results in a work shutdown at K Basins, resulting in schedule delays. Risk Handling Strategy: Control</p> <p>Probability: Medium (26% to 74%) Worst Case Impacts: \$1.3 million, 96 days</p>	●	↔	<p>Risk Trigger: 1) An operational upset or spill results in work shutdown at K Basin. This risk will commence in FY2018 and continue throughout the project lifecycle until the sludge is removed from 105KW Basin.</p> <table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <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> </tbody> </table> <p>Mitigation Assessment: No major changes in the month of March. Forecasted mitigation dates are consistent with overall STP critical path schedule. Training and procedure development will continue into FY2018. It will complete prior to completion of management self-assessment affidavits in December 2017.</p>	Mitigation action(s)	FC Date	%	Conduct rigorous startup testing following system installation at the 105KW Basin and Annex.	10/11/17	0	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.	Ongoing	N/A
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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.	Ongoing	N/A										
<p>STP-073-C: Processing Efficiency - Retrieval & Shipping</p> <p>The realized processing efficiency associated with sludge retrieval and shipping operations does not match baseline plan. Risk Handling Strategy: Accept</p> <p>Probability: Low (10% to 25%) Worst Case Impacts: \$0K, 8 days</p>	●	↔	<p>Risk Trigger: 1) Actual processing efficiency associated with sludge retrieval and shipping operations does not match baseline assumptions. This risk will commence in FY2018, beginning with operations campaign.</p> <table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>None identified at this time.</td> <td>N/A</td> <td>N/A</td> </tr> </tbody> </table> <p>Mitigation Assessment: No major changes in the month of March. Operations personnel were given training on the process system equipment and will continue to participate in training activities through production system installation at 100K. No foreseeable impacts in the near future and no alternative course of actions are needed at this time.</p>	Mitigation action(s)	FC Date	%	None identified at this time.	N/A	N/A			
Mitigation action(s)	FC Date	%										
None identified at this time.	N/A	N/A										
Unassigned Risks (Pending ownership of identified threats/opportunities)												
<p>CHPRC proposed five risks that are outside of CHPRC’s ability to manage and, as such, should be re-assigned to RL (STP-011D, STP-018, STP-073, STP-073-A, and STP-073-B). The proposal was not accepted by RL, stating, “...the opportunities and threats appear to be under the control of CHPRC to manage.” CHPRC submitted letter CHPRC-1602146 R1 on August 30, 2016, in response to RL’s rejection letter. On 3/14/17, CHPRC received Correspondence No. 1701045 providing direction to accelerate the Capital portion of the SRP. The risks listed, however, are for the non-capital scope. If contract direction is given to accommodate the acceleration opportunities to the SRP non-capital scope and the transfer of all sludge to T Plant is incorporated into FY2018, then CHPRC would re-assume ownership of these risks.</p>												

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	7.6	7.0	7.4	(0.6)	-8.3%	(0.4)	-6.2%

Numbers are rounded to the nearest \$0.1 million

CM Schedule Performance (-\$0.6M/-8.3%)

The current month schedule variance is due to KPAT originally planning to be executed in parallel with development of the integrated test procedure. Due to a revision in the execution plan, the project coordinated with construction personnel to move personnel from construction to other activities in order to minimize the impact from delays in approval of these documents. In addition, the procurement project BCWS for fabrication of the fill tube/float assemblies that were scheduled in the current month's window but were already claimed in prior periods as acceleration efforts have continued.

CM Cost Performance (-\$0.4M/-6.2%)

The variance is within reporting thresholds.

Contract-to-Date

(\$M)

RL-0012 Spent Nuclear Fuel Stabilization and Disposition	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)
Total	661.0	663.6	633.6	2.7	0.4%	30.1	4.5%	740.2	708.0	32.1

Numbers are rounded to the nearest \$0.1 million

CTD Schedule Performance (+\$2.7M/+0.4%)

The variance is within reporting thresholds.

CTD Cost Performance (+\$30.1M/+4.5%)

The variance is within reporting thresholds.

Variance at Completion (+\$32.1M/+4.3%)

The variance is within reporting thresholds.

Contract Performance Report Formats are provided in Appendix A.

FUNDS vs. SPEND FORECAST (\$M)

RL-0012 Spent Nuclear Fuel Stabilization and Disposition	FY2017		Variance
	Projected Funding	Spending Forecast	
Expense - Spending Forecast	36.6	31.7	4.9
Incremental Scope Pending Change Management	0.0	0.0	(0.0)
Expense - Subtotal	36.6	31.7	4.9
Line Item (LI)	57.8	47.5	10.3
Incremental Scope Pending Change Management	0.0	0.0	0.0
LI -Subtotal	57.8	47.5	10.3
RL-0012 – Total	94.4	79.2	15.2
Numbers are rounded to the nearest \$0.1 million.			

Funds/Variance Analysis

FY2017 projected funding for PBS RL-0012 is \$94.4 million. Positive variance of \$4.9 million in expense funding is the result of reclassification of Garnet Filter Media Removal and Sand Filter Media Removal scopes being transferred from PBS RL-0012 to PBS RL-0041, savings forecast for sample maintenance from Pacific Northwest National Laboratory (PNNL), and savings forecast for project management scope – work is being performed with reduced staff. Positive variance in line item (LI) for FY2017 is due to receipt of entire LI funding in current year. Unused funding will be carried over to support work planned for FY2018.

Critical Path Schedule

The critical path flows through preparation for and performance of the KPAT. Following a successful Operational Readiness Review, RL will provide Authorization to Commence Retrieval Operations in parallel with the DOE HQ review/approval of critical decision (CD)-4. Completing retrieval operations, including the filling of STSCs with sludge and transferring them to T Plant, to complete Tri-Party Agreement Milestone M-016-176, *Complete Sludge Removal from 105-KW Fuels Storage Basin*, is outside the current contract period in FY2019, however, the Project is implementing acceleration strategies to complete all sludge retrievals by September 30, 2018.

MILESTONE STATUS

Tri-Party Agreement milestones represent significant events in project execution. RL Enforceable Agreement milestones were established to provide high-level visibility to critical deliverables and specific status on the accomplishment of these key events. The Performance Measurement Baseline (PMB) Annual Update, implemented in September 2013, and subsequent approved Baseline Change Request (BCR)s define CHPRC planning with respect to Tri-Party Agreement milestones. The following table is the Tri-Party Agreement milestones within the CHPRC contract period (September 30, 2018).

Number	Title	Due Date	Actual Date	Forecast Date	Status/ Comment
M-016-175	Begin Sludge Removal from 105KW Fuel Storage Basin.	9/30/2018		1/19/2018	The forecast date does not include schedule margin from the project's risk analysis.
M-016-177	Complete installation of sludge transfer equipment in K West Reactor facilities	9/30/2017		4/20/2017	Project has revised completion to include punch list items. Revised date is 4/20/17.

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.

DOE ACTIONS / DECISIONS

Description	CHPRC Delivery Date	RL Due Date
RL Review & Comment on Emergency Planning Hazard Assessment (EPHA)	4/27/17	5/04/17
RL Issue SER for Integrated KW Basin DSA/TSR	4/29/17	5/05/17
RL Concur on Integrated DSA/TSR Comment Resolution	2/17/17 (A)	4/13/17
RL Prepare Integrated DSA/TSR SER	4/14/17	4/25/17
RL SRB Review of Integrated DSA/TSR	4/28/17	4/28/17
RL Approve / Comment Plan of Action (POA) - K-Basins	4/04/17	5/03/17
RL Final Approval of POA - K-Basins	5/16/17	5/22/17
RL Review and Approve MDSA and TSR Rev.12	12/01/16 (A)	3/30/17
RL Approve Revised MDSA TSR Rev 12/Receive SER (includes ESS approval)	4/25/17	5/01/17
RL Approval of EALs	6/06/17	7/05/17
RL Approve OTRS	4/07/17	5/31/17

Section C

Solid Waste Stabilization and Disposition (RL-0013)



C. J. Simiele
Vice President for
Waste and Fuels
Management Project

March 2017
CHPRC-2017-03, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

M. A. Wright
Vice President for
Project Technical
Services

PROJECT SUMMARY

During March reporting period, February 20 – March 26, 2017, Waste and Fuels Management Project (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.

This month:

- Waste Encapsulation and Storage Facility (WESF) Stabilization and Ventilation Project (W-130) completed removal of 11 containers of waste from the WESF canyon. Completed installation of Cover Block Temporary Ventilation System (new vent system onto the A, B, C, D, E, & F, Cell cover Blocks). The recovery plan to mitigate high-dose field in the canyon was completed.
- Management of Cesium and Strontium Capsule (MCSC) Project (W-135) completed transmittal of Safety Design Strategy for the Capsule Storage Area (CSA) and major Modification Determination for WESF modifications to RL. NAC International, the Cask Storage System (CSS) subcontractor, toured WESF and the proposed CSA location during the month. The project also met with the Department of Ecology to discuss the Environmental Permitting schedule.
- M-091-52 – performed implementation option down-select for Transuranic (TRU) Retrieval, characterization, processing, certification, storage, and shipping options.

EMS Objectives and Target Status

Objective #	Objective	Target	Due Date	Status
17-EMS-WFMP-OB1-T1	Implement the requirement to provide a “full printed name” in CHPRC Waste & Fuels controlled Resource Conservation and Recovery Act of 1976 (RCRA) inspection work packages and procedures.	<ul style="list-style-type: none"> • Review W&FMP inspection procedures, checklists, and work packages/PMS, which implement RCRA inspection criteria for direction to use the full printed name. • Initiate modifications to necessary procedures, checklists, and work packages/PMS, which implement RCRA inspection criteria to include the full printed name. 	5/12/17 9/28/17	45%
17-EMS-WFMP-OB2-T1	Implement 40 CFR 265 regulatory requirements identified by the Compliance Matrix for T Plant and Central Waste Complex at the project level.	<ul style="list-style-type: none"> • Review the applicable 40 CFR 265 requirements to verify the implementing mechanisms and methods and to identify compliance gaps. • Resolve identified gaps by initiating modifications to procedures into the PPS system. 	5/31/17 9/30/17	60%
17-EMS-WFMP-OB3-T1	Ensure W&FMP procedure inspection forms, checklists, and work packages, which implement RCRA inspection requirements are capturing the RCRA inspection requirements and are appropriately located in the facility operating record.	<ul style="list-style-type: none"> • Review all inspection procedures, checklists, and work packages to identify, which are used to meet RCRA inspection requirements. • Initiate updates into PPS and/or JCS systems to ensure RCRA inspection requirements are met and documentation is appropriately placed into the facility operating record. 	5/31/17 9/30/17	45%

TARGET ZERO PERFORMANCE

	CM Quantity	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	3	
Total Recordable Injuries	0	5	
First Aid Cases	1	*25	<ul style="list-style-type: none"> 3/21/17: Employee strained right shoulder while extending arm to place a box on top of metal storage using a step stool. Employee was given an ice pack and returned to work with no restrictions. (24404) <p>*2 First Aid case, PTS in support of RL-0013.</p>
Near Misses	0	0	N/A

KEY ACCOMPLISHMENTS

13.01 Project Management

- o Performed/Completed:
 - Central Waste Complex (CWC) Temporary Authorization: Closure Plans for Outdoor Storage Area (OSA) A, OSA B, and D-10 OSA; revised informal drafts of the complete Temporary Authorization Request package and provided to Ecology.
 - Consent agreement and final order Permit Modification Request: RL/CHPRC finalized a path forward for closure performance standards so that modification of the Consent agreement/final order (CAFO) closure plans could be completed. This will allow work to proceed on the Closure plans for the 277-T Building, 277-T OSA, 271-T Cage, and 211-T Pad, which have been on hold for over a year pending resolution of the closure performance standards issue.

13.02 Capsule Storage & Disposition

- o Performed/Completed:
 - Canyon entries in support of annual inspection and Preventive Maintenance (PM) of 15 ton and West 1 ton canyon crane and hoist.
 - Waste removal support for W-130.
- o Surveillances/PM:
 - 54 PM work packages.

Waste Encapsulation and Storage Facility (WESF) Stabilization and Ventilation Project (W-130):

- o Performed/Completed:
 - Recovery plan to mitigate high dose field in the canyon.
 - Installation of the Cover Block Temporary Ventilation System. A new vent system was installed onto the A, B, C, D, E, & F Cell cover blocks.
 - Removal of 11 containers of waste from WESF canyon.

13.03 Canister Storage Building (CSB)

- o Performed/Completed:
 - 80 percent of the excess chemical packaging and preparation for disposal.
- o Surveillances/PMs:
 - 35 PM packages.

13.06 TRU Repackaging

- o Performed/Completed:
 - o M-091-52
 - Implementation of option down-select for TRU Retrieval, characterization, processing, certification, storage, and shipping options.
 - Development of an additional shipping option for a stand-alone HalfPACT facility for RH-TRU Shipments.
 - o Shipped:
 - One Super 7A shipment from CWC to Perma-Fix Northwest (PFNW).
 - o Shipments Received:
 - 10 Standard Waste Boxes (SWBs) from PFWN to CWC.

13.07 Waste Receiving and Processing (WRAP)

- o Surveillances/PMs:
 - 137 Surveillances.
 - 13 PM packages.

13.08 T Plant

- o Performed/Completed:
 - Pipe gallery painting on second floor.
- o Sludge Receipt
 - Removal of Nitrogen manifold from tunnel.
 - Workability review for acceptance test plan.
- o Surveillances/PMs:
 - 447 Surveillances.
 - 43 PM packages.

13.09 CWC and Low-level burial ground (LLBG)

- o Surveillances/PMs:
 - 361 Surveillances.
 - 23 PM packages.
- o Shipments Received:
 - Five Standard Large Boxes and four SWBs from Plutonium Finishing Plant (PFP) to CWC in four shipments.

13.12 Integrated Disposal Facility (IDF)

- o Performed/Completed:
 - Initiation of the Critical Safety Evaluation Report in support of the documented safety analysis development.
 - Deliverable of the IDF RCRA Permit modification schedules to One System for inclusion in the Direct Feed Low Activity Waste Integrated Schedule.

13.15 TRU Disposition

- o Performed/Completed:
 - Participation in the Basis of Knowledge workshop at Carlsbad Field Office to discuss comments from across the DOE complex.
 - Initiation of management review of the CHPRC/Central Characterization Project Interface Document.

13.16 Off Site Spent Nuclear Fuel Disposition

- o Maintained coordination for offsite Spent Nuclear Fuel Disposition.

13.21 Mixed Waste Disposal Trenches (MWT)

- o Shipments Received:
 - Nine waste boxes, four waste drums, and eight SWBs from PFNW to MWT in three shipments.
- o Surveillances/Preventive Maintenance:
 - 189 Surveillances.

13.24 Management of Cesium and Strontium Capsules Project

- o Performed/Completed:
 - Transmittal of Safety Design Strategy for the CSA and Major Modification Determination for WESF modifications to RL.
 - Preparation survey of proposed CSA location.
 - Meeting with the Department of Ecology to discuss the Environmental Permitting schedule.

13.25 Capsules Interim Storage Operations

- o Performed/Completed:
 - A site visit of WESF with NAC International, the CSS subcontractor, and proposed CSA location.

Project Technical Services (PTS) Support

- o MO-029 Trailer Modifications at WESF
 - Received U.S. Environmental Protection Agency (EPA) concurrence for the disposal of MO-029 at Environmental Restoration Disposal Facility (ERDF).
 - Awarded contract to Ojeda Business Ventures for removal of MO-029 and installation of new trailer MO-199.
 - MO-029 utilities isolated for removal.
- o CSB Door Refurbishment
 - Statement of Work for functional review.

MAJOR ISSUES

Issue:

Contract authorization needed to accelerate FY2018 contract scope for the repackaging of TRU waste in order to meet PM-13-2-17 – Repackage 280 m³ of TRU Mixed (TRUM) waste or Mixed Low Level Waste (MLLW) during FY2017.

Corrective Action:

Work with RL to secure authorization within projected funding limitations.

Status:

Request submitted informally to RL in December 2016; awaiting authorization.

Issue:

The Washington Department of Ecology issued Findings in Inspection Reports for the LLBG Trenches 31-34 and CWC regarding major risk labeling. The findings direct RL and CHPRC to label the containers with the major risks of the dangerous waste contents. CHPRC utilizes the U.S. Department of Transportation (DOT) Hazard Class labeling system (which includes the use of radiological labels) to comply with the regulatory requirement.

Corrective Action:

Work with RL to obtain agreement from Ecology that CHPRC may utilize the DOT Hazard Class labeling system, as this complies with the regulatory requirement for a “system in use that performs the function in accordance with local, state, or federal regulations.”

Status:

CHPRC and RL met with Ecology inspectors regarding this item, and the parties agreed to elevate the issue to management for resolution. A meeting between RL and Ecology is currently scheduled for March 30, 2017.

Issue:

Potential delayed approval of Master Documented Safety Analysis (MDSA) Revision 12. This delay will impact T Plant’s ability to complete Readiness Assessment activities in preparation for accelerated receipt of sludge.

Corrective Action:

Based upon informal comments received from RL on March 9, 2017, CHPRC is developing comment incorporation and resolution of comments expected to be received formally in early April.

Status:

Draft comments are significant and resolution is under way. Extent of comment resolution results in reanalysis of numerous accidents contained in the MDSA. Anticipate to return updated MDSA to RL by end of April.

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. 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, over packing drums). Streamlining and consolidating existing container management procedures and shipping to PFNW for repackaging as funding and RL authorizations permit.

Issue:

WESF W-130: During cleanout of the grout lines to C Cell, radioactive material collected in the temporary ventilation system, causing a high-dose field in the canyon.

Corrective Action:

Develop and implement a recovery plan to address the high-dose field in the canyon.

Status:

A three phase recovery plan was completed to safely mitigate the high-dose field in the canyon. The grouting sequence was modified for the remainder of grouting to further mitigate the risk of radioactive material leaving the hot cells (re-sequencing of the grouting to eliminate one lift into each hot cell,

elimination of cleanout of the grout lines into the hot cells, gravity feed of the last lift into each hot cell). All recovery plan actions are complete, therefore this will no longer be reported on as a Major Issue moving forward.

Issue:

Mission Support Alliance, LLC (MSA) Cross-Connection Control Program performed a Health Hazard Level Re-evaluation following the guidance listed in Washington Administrative Code (WAC) 246-290-490, and internal MSA Cross-Connection Control procedures. As a result, 225-B (WESF) Health Hazard Level was changed from High to Severe, requiring service connections to have cross-connection installed.

Corrective Action:

The WAC requires corrective action to be accomplished “Within 90 days of the purveyor notifying the consumer ...” or, “In accordance with an alternate schedule acceptable to the purveyor.” MSA has worked with affected facilities and RL to develop corrective actions that minimize impacts to ongoing cleanup milestones.

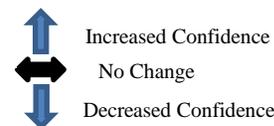
Status:

RL provided direction to MSA to remedy the majority of the issue with a modification at the source by MSA versus modifications at each facility. Description and preliminary schedule for WESF potable water facility modifications required unless RL approves an alternate (no action) approach transmitted on July 6, 2016 (CHPRC-1602928). A meeting was held with RL on January 12, 2017, to discuss the contractual direction necessary to proceed. Awaiting RL direction for potable water system facility modifications.

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.



Risk Title	Unmitigated Risk Impacts	Assessment		Comments														
		Month	Trend															
RL-0013/WBS-013																		
Explanation of major changes to the project monthly spotlight chart: No major changes to the monthly spotlight chart in the month of March .																		
Realized Risks (Risks that are currently impacting project cost/schedule)																		
WSD-W130-17: Changes in the final design are needed after the design is issued	Changes in the final design are needed after the design is issued. Changes are driven by unexpected conditions, additional reviews of the design media, or field conditions. Design changes result in cost impacts and schedule delays. Risk Handling Strategy: Control Probability: Low (10% to 25%) Worst Case Impacts: \$512K, 64 days			<p>Risk Event: Risk was realized when additional reviews of design media and K3N ventilation skid as-built conditions were analyzed during writing of test and operating procedures, as well as during stabilization activities in the canyon.</p> <ol style="list-style-type: none"> Changes in fire suppression system design are necessary to allow leak testing of the full system due to limitations in the existing skid design. K3N skid requires modifications to ensure proper operation at WESF. Hot cell penetration sealing requires more work than planned. Communication between hot pipe trench in WESF and B Plant causes grout to flow into B Plant during trench grouting. Extensive contamination and high dose rates were found at the hot cell cover blocks during grouting preparations, causing a change to the design to prevent grout leaking into the Canyon during grouting of the hot cells. <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Risk recovery action(s)</th> <th>Risk Date</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Seal seams at hot cell cover blocks and provide a controlled vent path for grouting of the hot cells</td> <td>10/17/16</td> <td>Complete</td> <td>100</td> </tr> </tbody> </table> <p>Recovery Action Assessment: Recovery actions are complete and therefore this risk will no longer be reported as “realized” beginning in April. However, due to the residual consequences qualifying this as a key risk, it will continue to be reported on as a “High Risk Threat” in this report.</p>	Risk recovery action(s)	Risk Date	FC Date	%	Seal seams at hot cell cover blocks and provide a controlled vent path for grouting of the hot cells	10/17/16	Complete	100						
Risk recovery action(s)	Risk Date	FC Date	%															
Seal seams at hot cell cover blocks and provide a controlled vent path for grouting of the hot cells	10/17/16	Complete	100															
WSD-125: Multi-Year Pause in Waste Processing Results in Unexpected Container Integrity Issues	A pause in waste processing results in an unexpected container degradation within SWOC (excluding TRU Retrieval activities) and require additional resources to respond. Risk Handling Strategy: Accept Probability: Likely (75% to 90%) Worst Case Impacts: \$5 million, 0 day			<p>Risk Event: In November 2011, degraded containers were discovered in CWC.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Risk recovery action(s)</th> <th>Risk Date</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Perform daily/weekly waste container surveillances to identify container abnormalities.</td> <td rowspan="3" style="text-align: center;">11/01/11</td> <td>Ongoing</td> <td>N/A</td> </tr> <tr> <td>Manage a “watch-list” of waste containers that have shown signs of degradation or are associated with degraded containers.</td> <td>Ongoing</td> <td>N/A</td> </tr> <tr> <td>Process waste packages at a rate funded by RL.</td> <td>Ongoing</td> <td>N/A</td> </tr> </tbody> </table> <p>Recovery Action Assessment: Project continued to perform container surveillances in the month of March to identify container and container cover abnormalities. The project will perform the overpack for Storage box 75DMA16F3, with a subsequent move into 2403WD. The work package is complete but the overpack had to be postponed due to weather. It is rescheduled for 4/12/17. The remaining containers will continue to require surveillance and continued enhanced monitoring.</p>	Risk recovery action(s)	Risk Date	FC Date	%	Perform daily/weekly waste container surveillances to identify container abnormalities.	11/01/11	Ongoing	N/A	Manage a “watch-list” of waste containers that have shown signs of degradation or are associated with degraded containers.	Ongoing	N/A	Process waste packages at a rate funded by RL.	Ongoing	N/A
Risk recovery action(s)	Risk Date	FC Date	%															
Perform daily/weekly waste container surveillances to identify container abnormalities.	11/01/11	Ongoing	N/A															
Manage a “watch-list” of waste containers that have shown signs of degradation or are associated with degraded containers.		Ongoing	N/A															
Process waste packages at a rate funded by RL.		Ongoing	N/A															

Risk Title	Unmitigated Risk Impacts	Assessment		Comments												
		Month	Trend													
RL-0013/WBS-013																
WSD-W130-22: Loss of contamination control due to invasive activities	<p>There is a risk that during grout fill of the hot cells/duct that grout may leak from the cells/duct, through the wall and leak into the operating gallery or service gallery or truckport space. There is a risk that during operations, containment barriers are lost and the operating gallery, service gallery, filter pit area or truck port space is contaminated.</p> <p>Risk Handling Strategy: Accept</p> <p>Probability: Medium (26% to 74%) Worst Case Impacts: \$408K, 48 days</p>	●	↑	<p>Risk Event: During cleanout of the grout lines to C Cell, radioactive material collected in the temporary ventilation system, causing a high dose field in the canyon.</p> <table border="1"> <thead> <tr> <th>Risk recovery action(s)</th> <th>Risk Date</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Develop and implement a recovery plan to address the high dose field in the canyon</td> <td>12/19/16</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Implement BCR to utilize MR for change in baseline assumption and unplanned in –scope work to recover from contamination events experienced.</td> <td>2/20/16</td> <td>Complete</td> <td>100</td> </tr> </tbody> </table> <p>Recovery Action Assessment: A 3 phase recovery plan was executed to safely mitigate the high dose field in the canyon. Recovery actions are complete and therefore this risk will no longer be reported as “realized” beginning in April. However, due to the residual consequences qualifying this as a key risk, it will continue to be reported on as a “High Risk Threat” in this report.</p>	Risk recovery action(s)	Risk Date	FC Date	%	Develop and implement a recovery plan to address the high dose field in the canyon	12/19/16	Complete	100	Implement BCR to utilize MR for change in baseline assumption and unplanned in –scope work to recover from contamination events experienced.	2/20/16	Complete	100
Risk recovery action(s)	Risk Date	FC Date	%													
Develop and implement a recovery plan to address the high dose field in the canyon	12/19/16	Complete	100													
Implement BCR to utilize MR for change in baseline assumption and unplanned in –scope work to recover from contamination events experienced.	2/20/16	Complete	100													
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)																
WSD-097: Major Equipment Failure - T-Plant	<p>T Plant suffers a major equipment failure (crane, primary power supply, etc.), resulting in cost impacts, and schedule delays.</p> <p>Risk Handling Strategy: Control</p> <p>Probability: Medium (26% to 74%) Worst Case Impacts: \$750K, 96 days</p>	●	↔	<p>Risk Trigger Metric: During planned facility operations activities a suspect system component is discovered that requires attention, or an unexpected malfunction results in this risk being realized. This risk will continue throughout the CHPRC (September 30, 2018).</p> <table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Identify and procure spare parts for T Plant Crane</td> <td>Ongoing</td> <td>N/A</td> </tr> </tbody> </table> <p>Mitigation Assessment: The project has put into place mitigating strategies (i.e., aggressive S&M activities) to help reduce this risk. The project is also working toward identifying and procuring spare parts for the T Plant Crane to further reduce the risk. The crane is currently operational, however an adequate spare parts inventory is needed. The project has completed the crane bridge drive bearing repairs discovered during preventive maintenance.</p>	Mitigation action(s)	FC Date	%	Identify and procure spare parts for T Plant Crane	Ongoing	N/A						
Mitigation action(s)	FC Date	%														
Identify and procure spare parts for T Plant Crane	Ongoing	N/A														

Risk Title	Unmitigated Risk Impacts	Assessment		Comments															
		Month	Trend																
RL-0013/WBS-013																			
WSD-019: MLLW & TRU Treatment Impacts	Mixed low-level waste (MLLW) and TRU treatment capacity/capability does not meet Hanford needs or treatment does not occur as scheduled, resulting in cost impacts. Risk Handling Strategy: Accept Probability: Medium (26% to 74%) Worst Case Impacts: \$2.5 million, 0 day			Risk Trigger Metric: Will continue throughout contract (September 30, 2018).															
				<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Mitigation action(s)</th> <th style="text-align: center;">FC Date</th> <th style="text-align: center;">%</th> </tr> </thead> <tbody> <tr> <td>Establish multiple treatment contracts, or obtain additional capability, 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 style="text-align: center;">Ongoing</td> <td style="text-align: center;">N/A</td> </tr> <tr> <td>Continue to work with RL to fund the processing of TRU/M waste at PFNW at a rate that keeps them viable (i.e., keeps the doors open).</td> <td style="text-align: center;">Ongoing</td> <td style="text-align: center;">N/A</td> </tr> <tr> <td>Evaluate the benefit(s) associated with an increase to the PFNW Pu possession limit. Their current limit is 200 grams of total Pu. Increasing the limit may allow additional quantities of TRUM waste to be shipped to PFNW for processing. This evaluation will take place in conjunction with the M-091-52 engineering study.</td> <td style="text-align: center;">09/30/17</td> <td style="text-align: center;">10</td> </tr> <tr> <td>Negotiations with RL are ongoing to seek authorization for additional shipments of M-91 Legacy TRUM to PFNW. This would meet the objectives for the Permafix minimum optimal processing volume as identified in the Optimization Study provided to RL in December 2016.</td> <td style="text-align: center;">Ongoing</td> <td style="text-align: center;">25</td> </tr> </tbody> </table>	Mitigation action(s)	FC Date	%	Establish multiple treatment contracts, or obtain additional capability, 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).	Ongoing	N/A	Continue to work with RL to fund the processing of TRU/M waste at PFNW at a rate that keeps them viable (i.e., keeps the doors open).	Ongoing	N/A	Evaluate the benefit(s) associated with an increase to the PFNW Pu possession limit. Their current limit is 200 grams of total Pu. Increasing the limit may allow additional quantities of TRUM waste to be shipped to PFNW for processing. This evaluation will take place in conjunction with the M-091-52 engineering study.	09/30/17	10	Negotiations with RL are ongoing to seek authorization for additional shipments of M-91 Legacy TRUM to PFNW. This would meet the objectives for the Permafix minimum optimal processing volume as identified in the Optimization Study provided to RL in December 2016.	Ongoing	25
				Mitigation action(s)	FC Date	%													
				Establish multiple treatment contracts, or obtain additional capability, 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).	Ongoing	N/A													
				Continue to work with RL to fund the processing of TRU/M waste at PFNW at a rate that keeps them viable (i.e., keeps the doors open).	Ongoing	N/A													
				Evaluate the benefit(s) associated with an increase to the PFNW Pu possession limit. Their current limit is 200 grams of total Pu. Increasing the limit may allow additional quantities of TRUM waste to be shipped to PFNW for processing. This evaluation will take place in conjunction with the M-091-52 engineering study.	09/30/17	10													
Negotiations with RL are ongoing to seek authorization for additional shipments of M-91 Legacy TRUM to PFNW. This would meet the objectives for the Permafix minimum optimal processing volume as identified in the Optimization Study provided to RL in December 2016.	Ongoing	25																	
Mitigation Assessment: 1) MLLW: Two contracts are in place for offsite commercial waste treatment which provided sufficient capability/capacity to meet current MLLW treatment needs through the end of the CHPRC contract term. However, one of the contracts was recently restricted due to the closure of a Perma-Fix treatment facility in Tennessee (M&EC). Additional capability will now need to be obtained to meet all anticipated MLLW treatment needs. TRU/M: Only PFNW has current capability to process TRU/M waste. This is due solely to the practical limitations imposed by the need to ship the TRU/M waste via road-closure; therefore, additional commercial providers cannot be obtained. 130m3 of Legacy M -91 TRUM waste has been shipped to PFNW during FY2017, which is the extent of the current RL authorization. Additionally, PFP has shipped four oversized TRU waste components to PFNW in FY2017 with approximately another 15 shipments planned. However, to meet the PFNW minimum optimal processing volumes, additional quantities of Legacy M-91 TRUM waste will need to be shipped in FY2017. The project is working with RL to obtain the additional FY2017 authorization. 2) RL's action to authorize and/or fund this action. If the TRU/M waste generated from the PRF Canyon floor cleanout (J-Pan waste) requires treatment, it would significantly impact the projects ability to have sufficient treatment capability/capability at PFNW for the processing of Legacy TRU/M waste to meet M-091-47C and -47D objectives for FY2017 and FY2018.																			
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)																			
Lifecycle Risk Triggers (Risk could be realized at any point of the project)																			

Risk Title	Unmitigated Risk Impacts	Assessment		Comments						
		Month	Trend							
RL-0013/WBS-013										
WSD-137: OPP: Planned Efficiencies	Funding profile for the contract period are achieved through efficiencies. Risk Handling Strategy: Exploit Probability: Likely (75% to 90%) Worst Case Impacts: \$32 million, 0 day	●	↔	<p>Risk Trigger Metric: Will continue throughout project lifecycle (September 30, 2018).</p> <table border="1"> <thead> <tr> <th>Opportunity action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Plan work activities and procurements to be as efficient as possible with minimal resources.</td> <td>Ongoing</td> <td>N/A</td> </tr> </tbody> </table> <p>Opportunity Assessment: The project has realized efficiencies of approximately \$73 million to date. Future efficiencies are being offset due to discrete project overruns, increased regulatory scrutiny, maintenance lessons learned across CHPRC DOE Complex, and heightened compliance postures. Also note that the EAC currently contains work identified as changed scope in which contract changes would be issued.</p>	Opportunity action(s)	FC Date	%	Plan work activities and procurements to be as efficient as possible with minimal resources.	Ongoing	N/A
Opportunity action(s)	FC Date	%								
Plan work activities and procurements to be as efficient as possible with minimal resources.	Ongoing	N/A								
WSD-140: As-Found-Unknown Conditions - T Plant	Unknowns, as found or emergent conditions impact the operability of the T Plant facility. Risk Handling Strategy: Accept Probability: Very Likely (>90%) Worst Case Impacts: \$1,040K, 0 days	●	↔	<p>Risk Trigger Metric: This risk has been triggered due to current condition of 221-T Dock #2.</p> <table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Repairs to 221-T Dock #2 are needed in support of sludge receipt</td> <td>06/05/17</td> <td>0</td> </tr> </tbody> </table> <p>Mitigation Assessment: Deterioration of the steel decking and steel support structure for 221-T Dock #2 has required that the dock be taken out of service. A new loading dock is necessary as one of the Life Safety Code required emergency egress points and to support the receipt of sludge. This dock also provides storage areas for various gas bottles. The risk is being captured for visibility and will remain as part of the key risks until this issue is resolved. Delays due to unexpected resource limitations for final preparation of the FMPs have impacted the start of dock #2 repairs. This updated start date does not impact the schedule acceleration for sludge storage.</p>	Mitigation action(s)	FC Date	%	Repairs to 221-T Dock #2 are needed in support of sludge receipt	06/05/17	0
Mitigation action(s)	FC Date	%								
Repairs to 221-T Dock #2 are needed in support of sludge receipt	06/05/17	0								
FY2017 Risk Triggers (Risk could be realized in FY2017)										
WSD-W130-18: Failure of WESF Hot Cell during Grouting	There is a risk that the capacity of the floor or walls of the hot cells cannot sustain the applied loads from grout and fails. In addition, a failure to the cover blocks and or the canyon floor result in cost impacts, and schedule delays. Risk Handling Strategy: Control Probability: Medium (26% to 74%) Worst Case Impacts: \$768K, 96 days	●	↔	<p>Risk Trigger Metric: Initiation of hot cell grouting.</p> <table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <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>04/07/17</td> <td>77</td> </tr> </tbody> </table> <p>Mitigation Assessment: Structural evaluations and calculations have been completed and identified controls necessary during grouting (limit lifts of grout placement to three feet, compare actual grout volume placed to calculated estimated volume). No alternative course of actions needed at this time.</p>	Mitigation action(s)	FC Date	%	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.	04/07/17	77
Mitigation action(s)	FC Date	%								
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.	04/07/17	77								
WSD-W135-15: Utilization of 2003 Pre-Conceptual Design	A pre-conceptual design for the dry storage of the capsules was completed in July 2003. If this design cannot be utilized, it will be necessary to initiate and complete a new conceptual design including a new analysis of alternatives. Risk Handling Strategy: Accept Probability: Very Likely (>90%) Worst Case Impacts: \$5,100K, 0 days	●	↔	<p>Risk Trigger Metric: The 2003 pre-conceptual design for the dry storage of capsules cannot be utilized.</p> <table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>None identified at this time.</td> <td>N/A</td> <td>N/A</td> </tr> </tbody> </table> <p>Mitigation Assessment: No changes in the month of March. The 2003 pre-conceptual design is based on design criteria that is over 13 years old. Design criteria that impacts the ability to utilize the 2003 pre-conceptual design include: location of the Dry Storage Facility, duration of the storage period, Safety Basis Requirements and Environmental Permitting. Continuing to have discussions with RL can clarify impacts of the Safety Basis Requirements and Environmental permitting. The risk is being captured for visibility and will remain as part of the key risks until this issue is resolved.</p>	Mitigation action(s)	FC Date	%	None identified at this time.	N/A	N/A
Mitigation action(s)	FC Date	%								
None identified at this time.	N/A	N/A								

Risk Title	Unmitigated Risk Impacts	Assessment		Comments		
		Month	Trend			
RL-0013/WBS-013						
WSD-W135-16: Content and Approval of Critical Decision Packages	The content of the Critical Decision packages required by DOE O 413.3B are more extensive than anticipated and require an extensive RL review. Risk Handling Strategy: Accept Probability: Very Likely (>90%) Worst Case Impacts: \$2,000K, 0 days	●	↔	Risk Trigger Metric: The content and review/approval process for the Critical Decision Packages is impacted by DOE O 413.3B.		
				<table border="1" style="width: 100%;"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Prepare joint tailoring strategy with RL on how to meet the DOE O 413.3B requirements</td> <td style="text-align: center;">Complete</td> <td style="text-align: center;">100</td> </tr> </tbody> </table>	Mitigation action(s)	FC Date
Mitigation action(s)	FC Date	%				
Prepare joint tailoring strategy with RL on how to meet the DOE O 413.3B requirements	Complete	100				
WSD-W135-17: Modifications to WESF	The transfer of the capsules to a dry storage will require modifications to the WESF. Risk Handling Strategy: Accept Probability: Very Likely (>90%) Worst Case Impacts: \$7,300K, 0 days	●	↔	Risk Trigger Metric: Modification to the WESF facility are required for transfer of capsules to dry storage.		
				<table border="1" style="width: 100%;"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>None identified at this time.</td> <td style="text-align: center;">N/A</td> <td style="text-align: center;">N/A</td> </tr> </tbody> </table>	Mitigation action(s)	FC Date
Mitigation action(s)	FC Date	%				
None identified at this time.	N/A	N/A				
Unassigned Risks (Pending ownership of identified risks/opportunities)						
No unassigned risks identified in the month of March .						

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	11.1	10.5	9.4	(0.6)	-5.3%	1.1	10.7%
Numbers are rounded to the nearest \$0.1 million							

CM Schedule Performance (-0.6M/-5.3%)

The current month negative schedule variance is primarily attributed to completing RH/Large Box Repack, 013.06.01.08 ahead of schedule in a prior period for Shipment 5 and 6 to PFNW as well as performing work on the 7A Large Shipping container that was scheduled in a prior period. In addition, the W-130 WESF Ventilation and Stabilization recovery actions have been slowed due to high dose fields impacting progress.

CM Cost Performance (+1.1M/+10.7%)

The current month favorable cost variance is primarily attributed to W-130 WESF Ventilation and Stabilization Project (approximately \$.7 million). Recovery work was performed more efficiently than

planned and contractor costs were delayed due to ongoing negotiations and change orders. In addition, costs for the procurement of the 7A Large Shipping container is significantly less than planned.

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	1,140.4	1,139.6	1,065.4	(0.9)	-0.1%	74.2	6.5%	1,345.4	1,292.9	52.5

Numbers are rounded to the nearest \$0.1 million

CTD Schedule Performance (-0.9M/-0.1%)

The contract-to-date schedule variance is within threshold.

CTD Cost Performance (+\$74.2M/+6.5%)

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

Variance at Completion (+\$52.5M/+3.9%)

The Variance at Completion is within threshold.

Contract Performance Report Formats are provided in Appendix A.

FUNDS vs. SPEND FORECAST

(\$M)

WBS 013/RL-0013 Waste and Fuels Management Project	FY2017		Variance
	Projected Funding	Spending Forecast	
Spending Forecast	103.3	93.5	9.8
Incremental Scope Pending Change Management	0.0	3.7	(3.7)
RL-0013 – Total	103.3	97.2	6.1

Numbers are rounded to the nearest \$0.1 million.

Funds/Variance Analysis

The FY2017 projected funding for PBS RL-0013 of \$103.3 million remained unchanged this month. The total fiscal year spend forecast (FYSF) of \$97.2 million remains unchanged and includes scope awaiting authorization such as accelerated TRU Repackaging.

Critical Path Schedule

WESF Ventilation & Stabilization Project, W-130, critical path showed a completion date at March month end for Performance Measure, PM-13-5-16, on April 8, 2017. During cleanout of the grout lines to C Cell, radioactive material collected in the temporary ventilation system, causing a high-dose field in the canyon. A recovery plan has been completed to safely mitigate the high-dose field. The grouting sequence was modified for the remainder of grouting to further mitigate the risk of radioactive material leaving the hot cells (re-sequencing of the grouting to eliminate one lift into each hot cell, elimination of cleanout of the grout lines into the hot cells, gravity feed of the last lift into each hot cell).

MILESTONE STATUS

Tri-Party Agreement milestones represent significant events in project execution. RL Enforceable Agreement milestones were established to provide high-level visibility to critical deliverables and specific status on the accomplishment of these key events. The Performance Measurement Baseline (PMB) Annual Update, implemented in September 2013, and 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
C-026-07K	Tritium Treatment Technology Developments to Ecology and EPA	3/31/17		3/30/17	On Schedule
M-091-03K	Submit Revision of TRUM Waste and MLLW PMP to Ecology	6/30/17		6/30/17	On Schedule
M-092-05	Determine Disposition Path and Establish Cs/Sr Interim Milestones.	6/30/17		6/29/17	On Schedule
M-091-52	Submit change request with target dates for new/modified capabilities to process TRUM waste.	9/30/17		8/29/17	On Schedule
C-026-07L	Tritium Treatment Technology Developments to Ecology and EPA	3/31/18		3/29/18	On Schedule

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

Contract Section	Project	GFS/I	Status
CONTRACT			
J.12/C.2.2, C.2.3	PBS-11, Plutonium Finishing Plant Closure Project PBS-13, Solid and Liquid Waste Treatment and Disposal	Offsite Transportation of Radioactive Material: RL provides equipment and government drivers to transport TRU materials outbound/inbound between the Hanford Site and PFNW locations. RL is the authorized shipper and acts as signatory on the shipping papers, and ensures DOE Manual 460.2-1 is complied with. RL arranges for Commercial Motor Vehicle Safety Alliance (CVSA) level VI vehicle inspections and verifies that the government drivers meet the applicable DOT Federal Motor Carrier	Ongoing

Contract Section	Project	GFS/I	Status
		Safety Regulations (49 CFR 382 and 383). RL also inspects the load securement to ensure compliance with DOT regulations and/or TSD requirements.	
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.	No WIPP shipments are planned within the Contract period of performance.

DOE ACTIONS / DECISIONS

Description	CHPRC Delivery Date	RL Due Date
RL Review and Approve MDSA and Technical Safety Requirement (TSR) Rev. 12	11/29/16 (A)	05/01/17
RL provide contract authorization to accelerate FY2018 contract scope for the repackaging of TRU waste in order to meet PM-13-2-17.	N/A	04/20/17

Section D

Soil and Groundwater Remediation Project (RL-0030)



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

M. A. Wright
Vice President for
Project Technical
Services

March 2017
CHPRC-2017-03, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

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

PROJECT SUMMARY

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

Treatment Facility	Million Gallons Treated		Chrome (kg)		Carbon Tet (kg)		Tech-99 (pCi)		Uranium (kg)		
	CM	FYTD	CM	FYTD	CM	FYTD	CM	FYTD	CM	FYTD	
DX P&T	34.0	189.8	2.9	18.4							
HX P&T	32.5	153.2	2.2	12.8							
KR-4 P&T	13.8	75.0	0.1	0.8							
KW P&T	0.0	0.0	0.0	0.0							
KX P&T	37.2	212.3	2.2	12.1							
200 West P&T	72.7	459.6	5.6	39.7	133	934		.26x10 ¹²	.91x10 ¹²	20.7	25.8
Combined	190.1	1089.9	12.9	83.9	133	934		.26x10¹²	.91x10¹²	20.7	25.8
FY2017 KPG	--	2200	--	160	--	1700		--	N/A	--	45

Well Drilling by Area	FY2017 Planned	Current Month	FY2017 Cumulative
100-KR-4	5	-	1
100-HR-3	6	-	-
200-UP-1	10	2	7
200-ZP-1	5	-	-
M-24 Milestone	5	-	-
300 Area	67	15	15
200-DV-1	5	-	-
Total Wells	103	17	23
Site Wide Boreholes	34	-	-

EMS Objectives and Target Status

Objective #	Target	Actions	Due Date	Status
17-EMS-SGWR-OB1 Monitor and confirm low carbon tetrachloride emissions at the 200 West P&T Facility	T1 – Evaluate treated off gas analytical results from compliance sampling and process sampling each quarter.	Monitor and confirm low carbon tetrachloride emissions at the 200 West P&T Facility.	9/30/17	25%

TARGET ZERO PERFORMANCE

	CM Quantity	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	2	NA
Total Recordable Injuries	0	0	NA
First Aid Cases	6	*53	<ul style="list-style-type: none"> • 3/10/2017 – Employee pinched right thumb between car door handle and gate. The individual was taken to HPMC for evaluation, provided wound care, and returned to work with no restrictions. (24397) • 3/13/2017 – Employee felt discomfort and muffling in right ear after earplug removed and during subsequent wearing of earplugs. The individual was taken to HPMC for evaluation and returned to work with no restrictions. (24403) • 3/16/2017 – Employee hit the front part of their head on a ladder and was momentarily dazed. No physical injury was evident. The individual was taken to HPMC for evaluation and returned to work with no restrictions. (24401) • 3/19/2017 – While standing from a kneeling position, the employee felt a sharp pain in their right leg. The individual was taken to Physician's Immediate Care for evaluation and was released with a restriction. (24402) • 3/22/2017 – Employee hit his head on the ceiling of a vehicle when it drove over a large hole. The employee was wearing their seat belt. The individual was taken to HPMC for evaluation and returned to work with no restrictions. (24408) • 3/29/2017 – As the employee was ascending the stairs, they felt a tearing sensation in the right knee. The pain went away shortly thereafter. The individual was taken to HPMC for evaluation and returned to work with no restrictions. (24414) <p style="text-align: center;">*9 FA cases, PTS in support of RL-0030.</p>
Near-Misses	0	1	NA

KEY ACCOMPLISHMENTS

RL-0030 Accomplishments RL-0030.O1 RL 30 Operations Environmental Integration

- Publicly released and posted the annual Hanford Site Waste Management Units Report on February 28, 2017, completing Tri-Party Agreement commitment C-010-026.
- Met with RL and Pacific Northwest National Laboratory (PNNL) staff and resolved an integration concern regarding PNNL model development activities to examine iodine-129 attenuation and treatment in support of the 200-UP-1 groundwater operable unit. PNNL has been developing a consolidated vadose zone/saturated zone fate and transport model of the same approximate extent as CHPRC's Plateau to River (P2R) Model. The potential for competing model problems, the question

of why PNNL needs a model of this scale to support 200-UP-1 iodine evaluations, and the potential future applications of PNNL's tools and model were discussed. RL charged CHPRC and PNNL to detail the appropriate modeling approach.

- A new release of the Electronic Data Deliverable Processor (EDDPro) v.4.2 has been completed and is now in use by the laboratories and sample data administrators. This release includes enhancements for improved feedback to users and administrators, and will allow administrators to update user information.
- The Groundwater/Vadose Zone Executive Council approved the summary analysis for the modeling approach proposed for modeling being performed for MSA to support the land conveyance near the 300 Area.

River Corridor

- Transmitted the Rev 1 FY2017 Plume Containment and Remediation Utilization Plan to RL on March 1, 2017.

100-KR-4 Operable Unit

- Provided KW P&T Facility rebound status update and discussed restart recommendations with RL on February 22, 2017. Completed collection of the final round of rebound samples on March 17, 2017. Initiated design and physical preparations necessary to restart the system in April 2017.

100-HR-3 Operable Unit

- Submitted updated comment resolution responses on the draft 100-D/H Record of Decision on March 6, 2017. The U.S. Department of Justice is reviewing the responsiveness summary.
- Completed realignment activities at six locations during March 2017.
- Submitted draft Ringold Upper Mud (RUM) Step/Constant Rate Pumping Test report to RL on March 22, 2017.
- Submitted draft Phase 1 Tracer Study Report to RL on March 20, 2017.

300-FF-5 Operable Unit

- Drilled 28 of 67 injection and monitoring wells in support of the Stage B Uranium Sequestration.

Central Plateau

200-UP-1 Operable Unit

- Submitted the Rev 2 200-UP-1 drilling sampling and analysis plan (SAP) to RL for signature on March 14, 2017.
- Submitted the 200-UP-1 Record of Decision (ROD) requirements crosswalk to RL on March 9, 2017.
- Completed construction of SE chromium plume well 699-32-59.

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

- Submitted the Decisional Draft Removal Action Work Plan to RL for review on March 20, 2017.
- Submitted the Draft Central Plateau Tracer Study Work Plan to RL for review on March 22, 2017.

200-EA-1 Operable Unit

- Completed the waste site scoping summary preparation.
- Conducted three scoping summary workshops with RL and Ecology address 16 waste sites (March 6, 9, and 22, 2017).

200-DV-1 Operable Unit

- Completed internal review of Contaminant Attenuation and Transport Characterization for S-and T-Complex.
- Met with Ecology on March 23, 2017, to resolve four remaining comments on the 200-DV-1 Sample and Analysis Plan Addendum 1: Attenuation Process Characterization and Addendum 2: Supplemental Shallow Soil Risk Characterization Sampling to meet a March 31, 2017, delivery date for issuance of the Rev. 0 documents.

Deep Vadose Zone Treatability Test

- Drilling began on March 22, 2017, (C9518) to install the first of three wells to begin activities regarding the Uranium Reactive Ammonia Gas Treatability testing. This well will be used as the injection well for this test followed by the drilling of two monitoring wells. This treatability test is a gas-phased technology that has demonstrated, in the laboratory, that uranium can be sequestered in sediments.

200-ZP-1 Operable Unit

- Met with EPA on March 14, 2017, to obtain their concurrence on the 200-ZP-1 Remedial Decision (RD)/Remedial Action Work Plan (RAWP) annotated outline in support of the RD/RAWP revision.

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

- Operated the 200 West P&T at an average of 1,627 gpm.

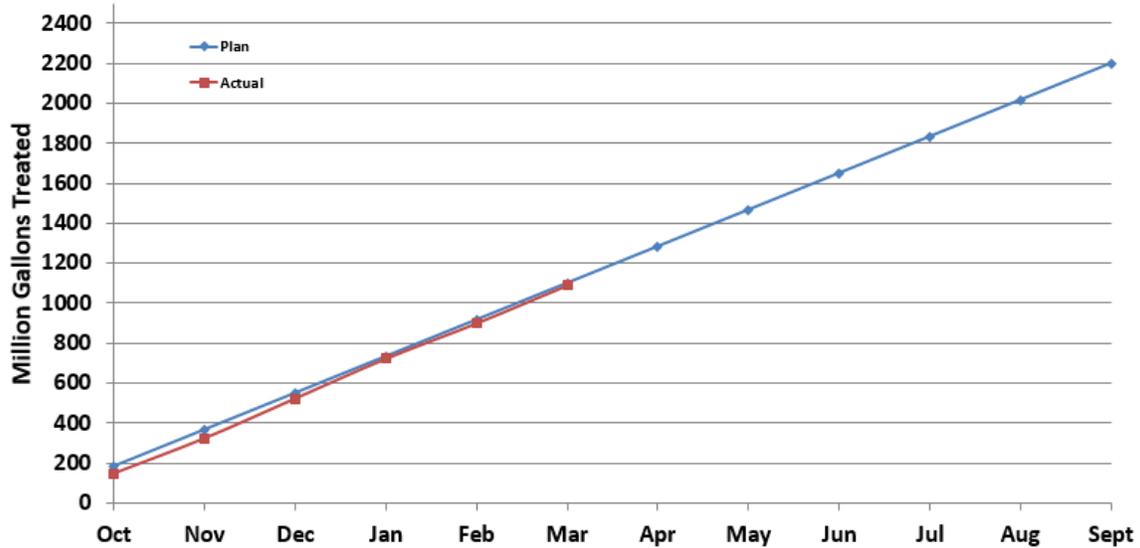
100 Area P&Ts

- Operated the DX P&T at 760 gpm, below the facility capacity of 775 gpm.
- Operated the KR-4 P&T at 309 gpm, below the facility capacity of 330 gpm.
- The KW P&T remains turned off to perform rebound study. Commenced activities to restart the facility. Expect to restart the facility in April.
- Operated the KX P&T at 832 gpm, below the facility capacity of 900 gpm.
- Operated the HX P&T at maximum extraction well capacity. Monthly average at 726 gpm.

Project Technical Services (PTS) Accomplishments

- **Engineering Services**
 - o Performed a post construction electrical design authority inspection for the installation of trailer MO2236 at WSCF.
- **Project Delivery**
 - o Completed cultural review of WSCF restroom trailer and resolved power supply upgrade needs for design.

FY2017 P&T Operations
Pump & Treat Performance - Cumulative
 KW, KX, KR4, DX, HX, 200W

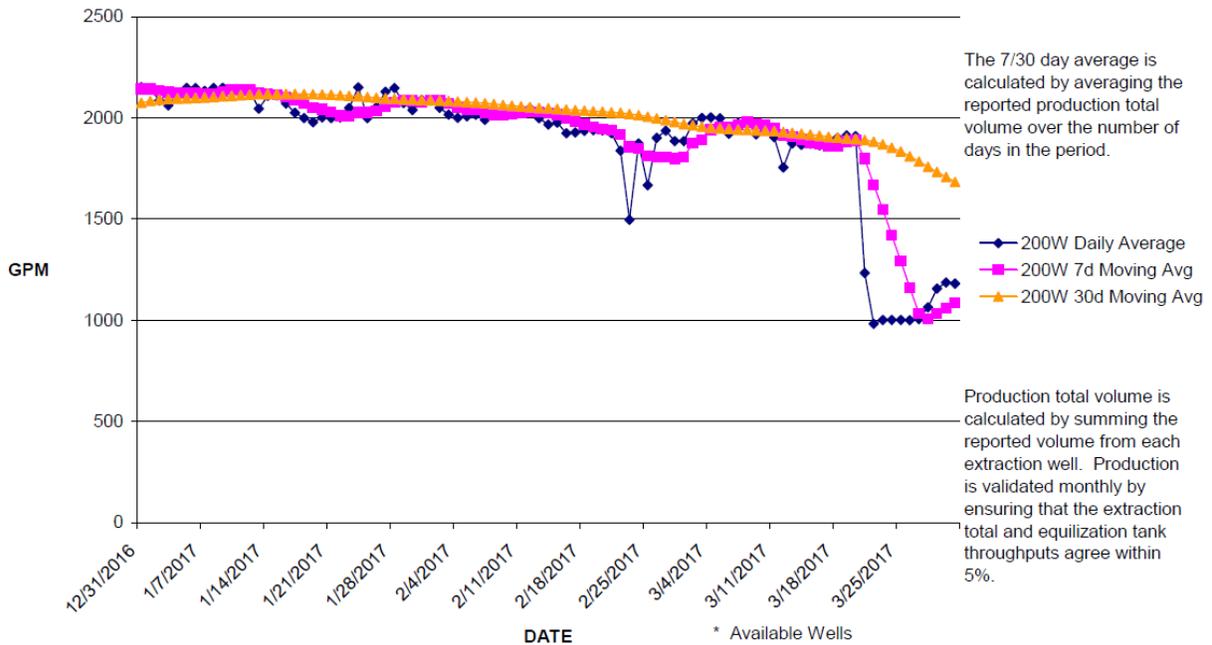


200 West P&T

2W EXTRACTION WELLS AVERAGE DAILY FLOW RATES

Current GPM = 1183 Capacity = 1183 / 2450 = 48% *
 30d Average GPM = 1683 Capacity = 1683 / 2450 = 66% *
 7d Average GPM = 1085

Data validated thru last completed month



MAJOR ISSUES

Issue:

Experiencing regulatory agency delays in the approval of decision documents, including:

- 200-BP-5 Remedial investigation (RI)/200-PO-1 RI Addendum delayed due to Ecology review.
- 200-IS-1 RI/Feasibility Study (FS) Work Plan delayed due to formal dispute.
- 100-N Revised RI delayed due to Ecology review.
- 100-BC-5 RI/FS and Proposed Plan (PP) delayed due to EPA review.

Corrective Action:

Maintain visibility on these delays to senior management. RL/CHPRC to continue working with the regulatory agencies to facilitate completion of these documents. Submit notice of change 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:

- 200-BP-5/200-PO-1 RI: Ecology suspended review of the 200-BP-5 RI report and the 200-PO-1 RI report addendum on October 23, 2015, (15-NWP-189), pending resolution of the Central Plateau modeling approach. Received Ecology letter (16-NWP-220) on December 28, 2016, notifying RL that Ecology is accepting the use of the Central Plateau model for the 200-BP-5 and 200-PO-1 Operable Units (OU). RL sent a letter to Ecology (17-AMRP-0114) on March 20, 2017, requesting comments be provided within 45 days in accordance with the Tri-Party Agreement.
- 200-IS-1 RI/FS Work Plan: Ecology has stopped review of change package C-13-01 due to disagreement regarding treatment, storage and disposal (TSD) determinations and associated criteria.

On October 20, 2016, RL provided the updated Change Package C-13-01 and four other change packages, to better align the waste sites within the 200-IS-1 OU and several other OUs, to Ecology for review/approval. This topic was discussed during the January 4, 2017, Senior Executive Council meeting; RL and Ecology attorneys continue working to reach agreement with an anticipated resolution date of June 30, 2017. Dispute resolution was formally extended to June 30, 2017, via Change Control Form M-15-13-02.

- 100-NR-2 RI: Ecology has not begun review of the revised RI, which was provided on November 23, 2016. Ecology indicated that they would begin the review in March, which did not begin.
- 100-BC-5 RI/FS and PP: EPA's comments on the Draft A RI/FS and PP were due January 31, 2017. EPA has not confirmed a date when the review will be completed.

Issue:

Based on groundwater samples taken during drilling of the first set of three wells, the 200-UP-1 southeast chromium plume extends further to the southeast than previously mapped, and will likely require additional characterization wells (beyond the six wells planned) to define the southern plume boundary. This additional characterization will impact completion of Tri-Party Agreement Milestone M-016-193 to complete the remedial design investigation of the southeast chromium plume by September 30, 2017.

Corrective Action:

Two corrective actions have been identified:

1. Implement actions to define the southeast chromium plume. The two southern-most characterization wells drilled to date will be prioritized and resampled to confirm chromium concentrations. Six existing groundwater monitoring wells to the south of the plume will be sampled to help establish extent of the plume and locate additional characterization wells. Cultural reviews for six potential well locations will be prepared to help define the southern extent of the plume. The results from these additional samples will be used to define the need for additional characterization wells.
2. Meet with EPA and adjust the due date for Tri-Party Agreement Milestone M-016-193.

Status:

Corrective Action #1: Complete.

Corrective Action #2: Complete, Tri-Party Agreement change package M-16-16-05 to move milestone M-016-193 to September 30, 2018, was approved.

Issue:

The significant snow accumulations have delayed archeological field surveys, which will then delay completion of the following Cultural Resource Reviews (CRR):

- 100-HR-3 wells/conveyance lines delayed since December 14, 2016. Archeological surveys completed February 28, 2017. Final CRR projected to be completed by May 23, 2017.
- 200-UP-1 monitoring well delayed since December 20, 2016. Archeological survey completed on March 2, 2017. Final CRR projected to be completed by May 9, 2017.

Corrective Action:

Conduct the archeological field survey as soon as snow conditions allow and then expedite actions to prepare draft CRRs. Closely monitor Mission Support Alliance, LLC (MSA) progress on these tasks.

Status:

Archeological field surveys for 200-UP-1 and 100-HR-3 were completed on March 2, 2017, and February 28, 2017, respectively. The schedule for completion of these CRRs is now mid-May, which impacts the ability to complete 100-HR-3 well drilling and alignment scope this fiscal year. A letter will be sent to RL notifying them of this impact to PM-30-1-17 Maximize plume containment and remediation utilization.

Issue:

A small water leak near the base of fluidized bed reactor (FBR) A was discovered on January 30, 2017. Exact location/cause of the leak cannot be determined without tank entry.

Corrective Action:

Identify leak location and cause and correct.

Status:

Commenced repair process on March 21, 2017. Carbon has been removed, tank drained and cleaned, and the tank internals have been removed. Inspection revealed a 4-inch hole on the bottom of the FBR. Fiberglass repairs to commence on March 30, 2017. The repair process and recovery of FBR-A is expected to complete by April 20, 2017.

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 spotlight chart: No major changes to the risk spotlight chart in the month of March .										
Realized Risks (Risks that are currently impacting project cost/schedule)										
OPPORTUNITY: SGW-007A: Sampling Requirement Reduction	Reduction in field sampling (locations, frequency, or total number of samples collected) has the opportunity to reduce long-term groundwater monitoring cost. Risk Handling Strategy: Exploit Probability: Very Likely (>90%) Worst Case Impacts: \$1 million, 0 day			<p>Opportunity Event: The <i>Optimization Plan to Revise the Groundwater Sampling Plan</i> is final and provides the roadmap to revise the groundwater monitoring SAPs over the next two years.</p> <table border="1"> <thead> <tr> <th>Opportunity action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Obtain Agency approval of the revised SAPs.</td> <td>TBD</td> <td>86</td> </tr> </tbody> </table> <p>Note: 30 of the planned 35 SAP revisions have been completed (86%).</p> <p>Opportunity Assessment: All 10 CERCLA groundwater monitoring SAPs have been revised and transmitted to RL and the regulators. Eight of the SAPs are approved and implemented. Two CERCLA SAPs (200-BP-5 and 200-PO-1) are impacted by the Central Plateau modeling issue. Project is currently addressing Ecology's comments on the 200-BP-5 SAP. Neither SAP has projected completion date at this time.</p> <p>All 25 RCRA monitoring plans have been reviewed. Of these, 13 plans required no changes and nine have had changes completed. The remaining three monitoring plans have completed comment resolution for publication in April.</p> <p>No alternative course of actions are needed at this time.</p>	Opportunity action(s)	FC Date	%	Obtain Agency approval of the revised SAPs.	TBD	86
Opportunity action(s)	FC Date	%								
Obtain Agency approval of the revised SAPs.	TBD	86								
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)										
No critical risks identified in the month of March .										
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)										
No high risks identified in the month of March .										
Unassigned Risks (Pending ownership of identified risks/opportunities)										
No unassigned risks identified in the month of March .										

PROJECT BASELINE PERFORMANCE

Current Month

(\$M)

RL-0030 Soil and Groundwater Remediation	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)
Total	15.2	12.2	12.5	(3.1)	-20.1%	(0.3)	-2.3%

Numbers are rounded to the nearest \$0.1 million.

CM Schedule Performance (-\$3.1M/-20.1%)

The negative schedule variance resulted from the following:

- Delay of the 100-NR-2 Barrier maintenance and expansion activities, which were scheduled to start in FY2016 but were deferred due to funding limitations and pending resolution of cultural clearance items. Some cultural clearance and other planning activities are forecast to complete in FY2017, with fieldwork initiating in FY2018.
- Preparation of the internal draft 200-IS-1 RI/FS Report and Proposed Plan is scheduled during this period. The baseline planned a July 2016 start date for the 200-IS-1 RI/FS Report based on the work plan (WP) being approved with no characterization required. The WP is currently on hold due to scope dispute resolution (TPA MS M-015-112).
- The 100-KR-4 RI/FS Decisional Draft B is ramping up slower than planned due to lack of CHPRC and subcontractor resource availability.

CM Cost Performance (-\$0.3M/-2.3%)

The current month cost variance is within reporting thresholds.

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	1,351.4	1,328.0	1,294.5	(23.4)	-1.7%	33.5	2.5%	1,566.5	1,498.2	68.3

Numbers are rounded to the nearest \$0.1 million.

CTD Schedule Performance (-\$23.4M/-1.7%)

The variance is within reporting thresholds.

CTD Cost Performance (+\$33.5M/+2.5%)

The variance is within reporting thresholds.

Variance at Completion (+\$68.3M/+4.4%)

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	FY2017		Variance
	Projected Funding	Spending Forecast	
Spending Forecast	130.7	107.6	23.0
Incremental Scope Pending Change Management	0.0	16.7	(16.7)
RL-0030 –Total	130.7	124.4	6.3

Numbers are rounded to the nearest \$0.1 million

Funds/Variance Analysis

FY2017 initial budget guidance received from RL reflects expected funding of \$130.7 million for project breakdown structure (PBS) RL-0030. The fiscal-year spending forecast (FYSF) of \$124.4 million includes actions anticipated to achieve funding targets.

Critical Path Schedule

Critical path analysis can be provided upon request.

MILESTONE STATUS

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 performance measurement baseline (PMB) Annual Update, implemented in September 2013, and subsequent approved baseline change requests (BCR) define CHPRC planning with respect to Tri-Party Agreement milestones. A Tentative Agreement for Tri-Party Agreement milestone series M-015, M-016, M-037, M-085 and M-094 was signed on October 26, 2015, and the final approval package was signed on May 25, 2016. The following table is a one-year look ahead of PBS RL-0030 Tri-Party Agreement enforceable milestones, non-enforceable target due dates and commitments.

Number	Title	Due Date	Actual Date	Forecast Date	Status/ Comment
Milestones 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 June 30, 2017.
Milestones on Schedule or at Risk					
M-024-58J	Initiate Discussions of Well Commitments	6/1/17		6/1/17	On schedule
M-024-68-T01	Conclude Discussions of Well Commitments	8/1/17		8/1/17	On schedule
M-015-92A	Submit RFI/CMS & RI/FS Work Plan for 200-EA-1 OU to Ecology	9/30/17		5/11/18	To continue implementation of the collaborative scoping process an extension to the due date is being requested.
M-016-193	Complete the remedial design investigation of the SE chromium plume, including the installation of new wells and evaluation of the GW monitoring data and install monitoring wells needed for remedy performance monitoring as defined in the UP-1 RD/RA WP.	9/30/18		8/30/18	Change Form M-16-16-05 approved to extend the due date by one year.

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.

DOE ACTIONS / DECISIONS

Description	CHPRC Delivery Date	RL Due Date
RL and Regulator Review of Draft Rev 0 100-NR-2 RI Report	11/17/16 (A)	6/30/17
RL Review of Decisional Draft 200-BP-5 Removal Action Work Plan	3/20/17 (A)	4/20/17
RL Transmit Draft A 200-BP-5 Removal Action Work Plan to Regulators for Review	5/18/17	5/28/17
RL Review Draft Central Plateau Tracer Study Sampling and Analysis Instructions	5/24/17	6/20/17
RL Review Decisional Draft 100-HR-3 Remedial Design/Remedial Action Work plan	6/8/17	7/8/17
Concurrent CHPRC/RL Review of LLBG WMA-2 – Trench 94 Engineering Evaluation Report	5/22/17	6/6/17
Concurrent CHPRC/RL Review of SST WMA U Engineering Evaluation Report	6/12/17	6/26/17
Concurrent CHPRC/RL Review of SST WMA T Engineering Evaluation Report	6/28/17	7/13/17

Section E

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



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

March 2017
CHPRC-2017-03, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

Construction of the REDOX roof is underway. Removal of the rock on the roof is over half way complete. Insulation and the roof liner has begun to be removed. The work package to resolve the B Plant pre-filter water intrusion is under development.

EMS Objectives and Target Status

None currently identified.

TARGET ZERO PERFORMANCE

	Current Month	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	0	N/A
Total Recordable Injuries	0	0	N/A
First Aid Cases	1	8	<ul style="list-style-type: none"> 3/14/17 – Employee was bitten/ stung on the neck by a bug. (24399)
Near Misses	0	0	N/A

KEY ACCOMPLISHMENTS

RL-0040 Accomplishments

Operations/Maintenance:

- Design Contractor finished incorporation of the CHPRC 60 percent design comments and started developing the 90 percent design package for the replacement PUREX stack sampling system.
- Continued updating the B Plant pre-filter change-out work package to remove excess water and wet pre-filters.
- Procured additional materials necessary to support the B Plant pre-filter change out and water removal activities.
- Developed the system/methodology for removing and size reducing legacy piping from the V-11-10-1 tank pit.
- Began development of the system/methodology for pumping, transporting and disposing of the excess water from TK V-11-10-1.
- Developed and finalized the obstruction removal work package for TK V-11-10-1.
- Continued development of multiple electronic Bill of Materials (eBOMs) to purchase the necessary materials to support the TK V-11-10-1 pumping activities.

Continued Progress on Canyon Stabilization Documents:

- Completed REDOX sampling analysis plan (SAP) Rev. A; Remedial Action Work Plan (RAWP) Decisional Draft.

- Air Emissions calculations completed for 222B and 276BA.
- Incorporated RL comments into the Plutonium Uranium Extraction Plant (PUREX) Engineering Evaluation/Cost Analysis (EE/CA).
- Started 224B SAP/RAWP.

REDOX Risk Mitigation

- Completed Silo Walk downs to the extent that the Legacy Waste Removal Work Package can be completed and approved.
- Continued Silo Walk downs for sample planning.
- Complete Industrial Hygiene exposure Assessment to allow entry monitoring requirements to be downgraded.
- Completed Disposition and Removal of Lead Contaminated Legacy Waste from Radioactive Material Area in REDOX Yard.
- Completed internal review of Documented Safety Analysis Revision 6 to allow future risk mitigation activities.
- Commenced Fire Hazards Analysis Revision to enable future risk mitigation activities.
- Performed initial review of North Sample Gallery Walk down package, for entry into high contamination areas of REDOX, with subject matter experts and crafts.

REDOX Roof:

- Completed draft of the Facility Modification Package for removal of interferences.
- Performed REDOX Roof interference removal enhance work plan.
- Continued Removal of rock from the REDOX roof. To date over 150,000 pounds of an estimated 250,000 of material has been removed.
- Commenced removal of liner membrane and insulation from the REDOX roof. No contamination discovered.

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 spotlight chart: No major changes to the monthly spotlight chart in the month of March .										
Realized Risks (Risks that are currently impacting project cost/schedule)										
D4-064: Aging Building Systems/Components	Problems with aging building systems/components (e.g., roofing/structures, etc.) result in inoperability or requires unscheduled maintenance/outages, resulting in cost impacts. Risk Handling Strategy: Accept Probability: Likely (75% to 90%) Worst Case Impacts: \$2 million, 0 day			<p>Risk Event: 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). Risk was realized due to increased future maintenance costs.</p> <table border="1" style="width: 100%;"> <thead> <tr> <th>Recovery Actions</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Implement BCR to utilize MR for increased future maintenance.</td> <td>Complete</td> <td>100</td> </tr> </tbody> </table> <p>Recovery Assessment: This risk was realized in February to address the higher than planned maintenance cost being experienced by the project due to aging facilities. Due to the magnitude of the conditions being experienced, a BCR was implemented in March that utilized MR for the increased future maintenance for these facilities. This risk will be reported as a realized risk in April, however, it will continue to be reported on as it remains a key risk to the project due to the high-risk value. A pre-conceptual design has been provided to RL with an estimate for a like replacement of the entire PUREX stack sample system. CHPRC was provided a Not to Exceed (NTE) to complete a detailed design package for the system and to start demolition and installation activities; however, it is expected the NTE amount will be expended early on during construction. The detailed design contract for the replacement system is projected to finish in May 2017. The project has also received change orders to complete roof replacement of the REDOX facility and to also initiate REDOX Silo and North Sample Gallery cleanout.</p>	Recovery Actions	FC Date	%	Implement BCR to utilize MR for increased future maintenance.	Complete	100
Recovery Actions	FC Date	%								
Implement BCR to utilize MR for increased future maintenance.	Complete	100								
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)										
No critical risks identified in the month of March .										
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)										
No high threat value risks identified in the month of March .										
Unassigned Risks (Pending ownership of identified risks/opportunities)										
No unassigned risks identified in the month of March .										

PROJECT BASELINE PERFORMANCE

Current Month

(\$M)

WBS 040/ RL-0040 Nuclear Facility D&D	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)
Total	3.6	3.4	2.5	(0.2)	-5.3%	1.0	28.3%

Numbers are rounded to the nearest \$0.1 million

CM Schedule Performance: (-\$0.2M/-5.3%)

The schedule variance is within the reporting threshold.

CM Cost Performance: (+\$1.0M/+28.3%)

The favorable cost variance in the current month (CM) is due to:

- A point adjustment as a result of implementing the management reserve drawdown BCR. (PRC-17-0020R0) to address the increased minimum safe activities due to the degradation of aging facilities. The number of corrective maintenance activities have increased, which has also increased the duration of the annual surveillances. More CM activities require more work planning support as well as field support. Also, the frequency of regulatory inspections has increased significantly, requiring more labor support. Additionally, the increase in the radiological survey requirements from 60 percent to 90 percent has required more hours to complete.

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	435.9	431.3	400.8	(4.6)	-1.1%	30.5	7.1%	481.3	454.5	26.8

Numbers are rounded to the nearest \$0.1 million

Cost to date (CTD) Schedule Performance: (-\$4.6M/-1.1%)

The schedule variance is within reporting thresholds.

CTD Cost Performance: (+\$30.5M/+7.1%)

The favorable cost variance is due to prior year activity including:

- The majority of the CTD Cost Variance is from legacy work dating back to the American Recovery and Reinvestment Act (ARRA) time period.
- The remaining CTD favorable cost variance base-funded work is due to efficiencies for Surveillance and Maintenance and D4 activities as a result of utilization of existing site equipment and fewer resources and Program Management utilizing fewer resources.

Variance at Completion (+\$26.8M/+5.6%)

The favorable Variance at Completion is due to under runs in the Waste Identification Form (WIF) Development, Cold and Dark, and Demolish 212N, 212P, and 212R Projects during the ARRA Project. Efficiencies were gained by combining these activities into the D4 activities, thus reducing overall resource requirements.

Contract Performance Report Formats are provided in Appendix A.

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

WBS 040/RL-0040 Nuclear Facility D&D	FY2017		Variance
	Projected Funding	Spending Forecast	
Spending Forecast	36.1	26.6	9.5
Incremental Scope Pending Change Management	0.0	6.3	(6.3)
RL-0040 – Total	36.1	32.8	3.3

Numbers are rounded to the nearest \$0.1 million.

Funds/Variance Analysis

Fiscal year (FY) 2017 projected funding for project breakdown structure (PBS) RL-0040 is \$36.1 million. The incremental scope pending includes remaining scope for REDOX roof replacement; silo cleanout of levels 1-3; the north sample gallery cleanout; PUREX stack sampling repair; PUREX Action Memorandums and RAWPS; Data Quality Objectives for PUREX Tunnels; and balance of the demolition of the four B Plant ancillary buildings and REDOX steam lines demobilization.

Critical Path Schedule

Critical path analysis can be provided upon request.

MILESTONE STATUS

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

Number	Title	Due Date	Actual Date	Forecast Date	Status/ Comment
M-016-250b	Submit to Ecology a three-year rolling prioritized schedule to implement waste site removal actions.	3/31/2017		3/31/2017	On schedule
M-085-80A	Submit to Ecology secondary document, a DQO report to access structural integrity of PUREX storage tunnels 1 and 2.	9/30/2017		8/7/2017	On schedule

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.

DOE ACTIONS / DECISIONS

Description	CHPRC Delivery Date	RL Due Date
RL Review of 202S Demo Prep / D&D / Annex Action Memo	11/21/16 (A)	04/10/17
RL Review of 202S Demo Prep / D&D / Annex SAP	03/09/17 (A)	04/06/17
RL Review of 221B Demo Prep & Stabilization of Legacy Vent System Action Memo	06/07/17	07/06/17
RL Review of 202A Demo Prep / Annex / Vent Mods Action Memo	10/09/17	11/06/17

Section F

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



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

March 2017
CHPRC-2017-03, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

T. L. Hobbes
Vice President for 618-10 Burial Ground
and Environmental Restoration
Disposal Facility

W. E. Kirby
Vice President for 324
Building Disposition
Project

M. A. Wright
Vice President for
Project Technical
Services

PROJECT SUMMARY

Support of Truthful Cost or Pricing Data (TCoPD) deliverables for change order definitization of River Corridor Closure Contract (RCCC) scope. Submitted the TCoPD, *100-K Additional Tons FY2016 and FY2017*, for Change Proposal 307 to RL. In addition, the project continued the following progress: 100K waste site remediation; 105K West Fuel Storage Basin deactivation and demolition long-range planning; 618-10 Burial Ground and 316-4 Waste Site remediation; 300-296 design for the 324 Building structural modifications and mockup; and equipment procurements.

EMS Objectives and Target Status

Objective #	Objective	Target	Due Date	Status
17-EMS-KBOPR-OB1-T1	Increase compliance at KBOPR Project.	Develop compliance matrices for 100K CERCLA documents.	9/30/17	80%
17-EMS-KBOPR-OB2-T1	Universal Waste and Recycling Compliance and Spill Prevention.	Monitor and evaluate universal waste.	9/30/17	48%

TARGET ZERO PERFORMANCE

	Current Month	Rolling 12 Months	Comment
Days Away, Restricted or Transferred	0	0	N/A
Total Recordable Injuries	0	*1	*Recordable incident 24238 on November 17, 2016, was recorded under PBS RL-0013; however, the incident occurred at ERDF, which is part of PBS RL-0041.
First Aid Cases	2	24	<ul style="list-style-type: none"> 3/13/2017 – Employee stepped on a nail while walking and the nail punctured the skin. Employee was taken to HPMC for evaluation and received a tetanus shot. Employee was released without restriction. (24398) 3/23/2017 – Employee experienced a lower back strain while exiting a truck after repeatedly climbing a stepladder and was taken to HPMC for evaluation. The employee was released without restriction. (24410)
Near Misses	0	0	N/A

KEY ACCOMPLISHMENTS

RL-0041 Accomplishments

- 100K AB Waste Site Area Remediation:
 - RL and EPA approved the Remaining Sites Verification Package and closure of waste sites 100-K-14 & 50, 126-KE-2 and 1607-K2.

- Collected final verification samples and validated results from waste sites 100-K-25, 27, 35, 79, 98, & 101; and 120-KE-1, 2, 3, 4, 5, 6 & 9.
- 100K AF Waste Site Area Remediation:
 - Conducted final in-process sampling of Waste Site 100-K-103 upon completion of excavation. Sampling identified polycyclic aromatic hydrocarbon (PAH) contamination near the area from which an asbestos wrapped pipe had been previously removed. The project decided to remove an additional foot of material from the area.
 - The new excavation contractor mobilized to 100K and started employee training.
- 105K West Fuel Storage Basin Deactivation
 - RL issued a \$750K Not to Exceed (NTE) with Notice to Proceed (NTP) for the design of sand filter media removal equipment.
 - RL issued a \$750K NTE with NTP for garnet filter equipment procurement and installation, and media removal operation.
 - RL issued a \$750K NTE with NTP for K West Basin below water debris characterization.
 - CHPRC prepared a response to RL regarding their direction provided for found fuel piece removal.
 - Development of the Basis of Estimate (BOE) for the draft 105K West Fuel Storage Basin deactivation and demolition long-range plan continues. When complete, the project will upload the BOE, work breakdown structure dictionary, and project schedule to the CHPRC Long Range Plan (LRP) file (Tri-Party Agreement M-16-178 and Tri-Party Agreement M-16-181). This information to be used for the fiscal year (FY) 2018 through FY2022 (five-year planning process).
- Remaining Closure Operations (RCO):
 - Resource Conservation and Recovery Act of 1976 (RCRA) Closure – CHPRC provided the submittal of Co-Operator Certification for 1324-N and 1324-NA Liquid Waste Disposal Facilities Supplemental Information to RL for their review.
 - CHPRC and RL provided a draft white paper for dangerous waste management unit's 1301-N and 1325-N to Ecology for review. CHPRC is addressing Ecology and RL comments.
 - Revegetation – Completed revegetation of areas 100-N-CTA and 100-N-83 on February 28, 2017. A walkdown of the sites with RL and Ecology was performed March 8, 2017, and completion letters submitted to RL for Tri-Party Agreement M-16-00A and M-16-164.
 - MO226 Demolition – Initiated Cold and Dark process and completed Beryllium, Rad Contamination, and Asbestos characterization.
- 618-10 Burial Ground:
 - Final five drums shipped to Perma-Fix for offsite processing.
 - 20,562 tons of contaminated soil sent to Environmental Restoration Disposal Facility (ERDF) from the 618-10 Trench Mass Excavation.
 - Completed 20 Steel Vertical Pipe Units (VPU) retrieval segments with a total of 24 retrieval segments completed out of 56.
 - Two drums retrieved; drum retrieval declared complete as of March 9, 2017, at 2,201 drums retrieved.
- 316-4 Waste Site:
 - Excavated 113,960 tons of overburden soil; 217,886 tons excavated to date.
 - Shipped 11 empty shielded bull run boxes to the 324 Building in support of the 300-296 Soil Remediation Project.

- 600-63 Waste Site:
 - Continued planning and design activities for engineering design and remaining engineering checklist items.
- 324 Building Min Safe:
 - Issued new procedure: A-05 REC Airlock/C-Cell Access.
 - Revised the Photohelic Alarm procedure for the Radiochemical Engineering Cells (3-IC-008).
 - Established new Task Instructions for performance of annual RCRA Inspections.
 - Provided existing stack Continuous Air Monitoring capabilities to Berthold Germany for consideration while establishing updated stack CAM programming.
 - Issued Vital Safety Systems Annual Assessments for each of the five Vital Safety Systems.
 - Closed the Nonconformance Report for the Outlet Flex smoke generation index. Accepted As-Is.
 - Repaired the EP-901/902 pre-heat coil bypass damper system.
 - Performed 13 Preventive Maintenance package activities, monthly and annual.
- 300-296 Soil Remediation Project:
 - The project leaders presented a 300-296 Project Update to RL executive management during the CHPRC General Project Review on February 28, 2017.
 - The project completed a revision to the Field Execution Schedule at the end of February, which incorporated all of the strategy enhancements to accelerate the schedule and address identified risks and reviewed it with RL on March 9, 2017, to support project-related planning activities over the next several months.
 - The annual update of the 324 Building Safety Basis has been reviewed by RL. Comment resolution was conducted with RL, and text revisions are currently underway.
 - CHPRC conducted a Bidder's Conference on March 1, 2017, for 15 representatives from 11 companies considering the submission of proposals for the three main soil removal systems: Remote Excavation Arm (REA), Lights and Cameras, and Transfer Mechanism.
 - The project team also responded to a set of clarification questions from potential bidders for the three main soil removal systems on March 9, 2017, in accordance with the plan established in the Request for Proposal (RFP), which requires proposal submission by March 16, 2017.
 - Technical Evaluations of the contractor proposals for the three main soil removal systems (REA, Transfer Mechanism, and Cameras and Lighting) were completed the week of March 23, 2017.
 - Ecological and Cultural Clearance for planned mockup infrastructure activities was formally granted on March 16, 2017.
 - Fabrication of 12 prototype waste bins and 2 below-the-hook lifting devices has been completed, and load testing is in progress.
 - A pre-test functionality check of the floor saw was successfully and safely conducted on March 24, 2017, to support the start of planned testing activities during the week of March 27, 2017.
 - The 324 Facility Team operated the Airlock Door on March 2, 2017, to confirm performance as a prerequisite for the planned Airlock Entry in March / early April.
 - The 324 Airlock and Cell Cleanout Team utilized the mockup to conduct training and dry runs during the week of March 6, 2017, to prepare for the initial airlock entry.
 - The 324 Building hot cell procedures are being revised to support the start of activities for the cleanout of REC Airlock and cells, with anticipated approval of March 28, 2017.
 - Project Technical Services (PTS) Support
 - Installation and set up for six trailers (two at 325 Building and four at 324 Building) has been completed. HLAN Services are currently underway and are expected to be completed by the end of April.
 - Preparation for delivery, installation and final set up for three trailers at the Mockup Facility continue to progress.

- ERDF:
 - Receipt of 88,958 tons by CHPRC fiscal year to date (FYTD).
 - Transported six special packaging authorization (SPA) shipments from the 618-10 Burial Ground Complex.
 - Project functions performing deep dives to support the transition of ERDF procedures to CHPRC.

MAJOR ISSUES

Issue:

On November 29, 2016, unexpected debris / contamination was discovered at the 316-4 Waste site while crews were performing overburden removal. Additional contamination was discovered on January 4, 2017, and January 24, 2017.

Corrective Action:

- Evaluate impacts and implement mitigating actions.
- Assess current and future impacts of this discovery to schedule and cost, and incorporate those impacts in Change Proposal TCoPD.

Status:

- Investigation of extent of unforeseen contamination continues.
- A Baseline Change Request was processed and implemented in March to incorporate contamination schedule and cost impacts to the baseline.

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 spotlight chart: No major changes to the monthly spotlight chart in the month of March .															
Realized Risks (Risks that are currently impacting project cost/schedule)															
RCC-316-4-09: 316-4 Discovery of Unexpected Waste/Contamination	Discovery of unexpected waste/contamination, waste/contamination quantities above what is assumed, waste/contamination that is above and beyond COCs and/or waste profile, and/or waste/contamination is found in the assumed clean area of the design. Resulting in greater than planned RAD controls resulting in cost and schedule impacts. Risk Handling Strategy: Accept Probability: Very Low (<10%) Worst Case Impacts: \$240K, 48 day			<p>Risk Event: On Tuesday, November 29, 2016, CHPRC discovered debris (wood, metal, etc.) in the 316-4 overburden removal, and then on Wednesday, November 30, 2016, radiological contaminated soil and contaminated debris (plastic and piping) was encountered that was buried in the top six feet of overburden at the 316-4 waste site. On Wednesday, January 4, 2017 and Tuesday, January 24, 2017, additional contamination was discovered.</p> <table border="1"> <thead> <tr> <th>Risk recovery action(s)</th> <th>Risk Date</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Send backfill stockpile to ERDF</td> <td rowspan="2">11/29/16</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Update TCoPD to align with found conditions</td> <td>04/24/17</td> <td>0</td> </tr> </tbody> </table> <p>Recovery Action Assessment: CHPRC has realized cost and schedule impacts, resulting from this change in conditions. <i>Efforts are underway to quantify schedule and cost impacts.</i> CHPRC has and continues to perform all actions that may mitigate impacts; however, CHPRC reserves its right to an equitable adjustment. CHPRC plans to capture any scope and cost changes due to this discovery in the final TCoPD for the corresponding change proposal (CP 041 304 1600).</p>	Risk recovery action(s)	Risk Date	FC Date	%	Send backfill stockpile to ERDF	11/29/16	Complete	100	Update TCoPD to align with found conditions	04/24/17	0
Risk recovery action(s)	Risk Date	FC Date	%												
Send backfill stockpile to ERDF	11/29/16	Complete	100												
Update TCoPD to align with found conditions		04/24/17	0												
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)															
RCC-300-296-03: Mockup testing and qualification of remote equipment / process identifies major modification requirements.	Issues such as equipment interferences, equipment reliability, etc. arise during mockup or component testing, resulting in negative cost or schedule impacts during future production work. There is the potential for more frequent equipment repairs/full equipment change-outs than planned, which could result in cost and schedule impacts. Risk Handling Strategy: Control Probability: Low (10% to 25%) Worst Case Impacts: \$86K, 80 days			<p>Risk Trigger Metric: Risk could be triggered through the conduct of component testing or testing/training performed at the mockup that produced inadequate or unexpected test results.</p> <table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Conduct Concrete Floor Saw Test (cut rate, embedment cutting) and determine P.O.P.</td> <td>04/27/17</td> <td>5</td> </tr> <tr> <td>Perform Construction Acceptance Test at Mockup Facility</td> <td>11/30/17</td> <td>0</td> </tr> </tbody> </table> <p>Mitigation Assessment: The Mockup will be used to validate equipment performance and to support training personnel for installation, removal, and operation of soil remediation equipment in the 324 Building. Remotely operated equipment (e.g. floor saw and REAs) could experience higher failure rates and/or performance issues from lack of thorough demonstration testing. <i>Vendor proposals for the three main soil removal systems (Remote Excavation Arm, Transfer Mechanism, and Lights and Cameras systems) were received in March. The source selection process is in progress with planned awards in April. Floor saw testing was successfully started in March and the test program is tracking to be completed by the end of April. The results of the floor saw testing will be used to provide inputs to the Floor Saw System RFP that will be issued in Q3 FY17.</i></p>	Mitigation action(s)	FC Date	%	Conduct Concrete Floor Saw Test (cut rate, embedment cutting) and determine P.O.P.	04/27/17	5	Perform Construction Acceptance Test at Mockup Facility	11/30/17	0		
Mitigation action(s)	FC Date	%													
Conduct Concrete Floor Saw Test (cut rate, embedment cutting) and determine P.O.P.	04/27/17	5													
Perform Construction Acceptance Test at Mockup Facility	11/30/17	0													

<p>RCC-300-296-11: Current REC cell seismic analysis is inadequate</p>	<p>Regulatory agencies require different seismic analysis criteria than the UBC 1961 methodology that was originally used, resulting in additional design and more significant structural alterations to 324 Building, which would negatively impact project cost and schedule Risk Handling Strategy: Control Probability: Low (10% to 25%) Worst Case Impacts: \$288K, 48 days</p>			<p>Risk Trigger Metric: This risk would be triggered at the same time it is realized with regulatory agencies requiring different seismic analysis criteria than what was used in the original estimates.</p> <table border="1" data-bbox="873 310 1563 365"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Engage DNFSB early concerning seismic design criteria</td> <td>Ongoing</td> <td>N/A</td> </tr> </tbody> </table> <p>Mitigation Assessment: The original design of the 324 Building was based on the 1961 Uniform Building Code (UBC). Facility structural modifications have been analyzed using the UBC 1961 methodology (Section 7.8, KUR-1782F-CALC-C001, 324 BUILDING REC STRUCTURAL STABILITY EVALUATION); as the most appropriate and cost effective approach given the overall intent to remediate the building following soil removal. A recurring update process, on a bi-monthly basis, was proposed and accepted by the DNFSB representatives. The first update occurred on February 23, 2017, and introduced the DNFSB Field and technical representative to the intended approach of utilizing Jet Grouting to provide structural support during excavation. No immediate concerns were identified by members of the board, however, it is expected that engagement will be more aggressive as design continues maturing. An update on the progress of the design will be provided at the following bi-monthly update expected in late April.</p>	Mitigation action(s)	FC Date	%	Engage DNFSB early concerning seismic design criteria	Ongoing	N/A
Mitigation action(s)	FC Date	%								
Engage DNFSB early concerning seismic design criteria	Ongoing	N/A								
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)										
Lifecycle Risk Triggers (Risk could be realized at any point of the project)										
<p>RCC-618-10-07: Contamination Event at 618-10 Waste Site</p>	<p>During fieldwork activities, a contamination event occurs that requires corrective actions, resulting in schedule and cost impacts. Risk Handling Strategy: Accept Probability: Low (10% to 25%) Worst Case Impacts: \$1,288K, 64 days</p>			<p>Risk Trigger Metric: The risk could be triggered by high winds or operational upsets (i.e. spills or airborne release).</p> <table border="1" data-bbox="873 898 1563 953"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Enhanced radiological controls implemented on project.</td> <td>Ongoing</td> <td>N/A</td> </tr> </tbody> </table> <p>Mitigation Assessment: No changes in the month of March. Much of the 618-10 work is performed in hazardous and radioactive environments. By its nature, the work can be dangerous. Although CHPRC procedures, safety programs, and training programs are designed to minimize the potential loss of control of hazardous/radioactive substances, such an occurrence could be deemed to be significant enough to warrant corrective actions outside the baseline (i.e. a prolonged work shutdown).</p>	Mitigation action(s)	FC Date	%	Enhanced radiological controls implemented on project.	Ongoing	N/A
Mitigation action(s)	FC Date	%								
Enhanced radiological controls implemented on project.	Ongoing	N/A								
<p>RCC-618-10-09: Discovery of Unexpected Waste/Contamination</p>	<p>Discovery of unexpected waste/contamination, waste/contamination quantities above what is assumed, waste/contamination that is above and beyond COCs or waste profile, or waste/contamination is found in the assumed clean area of the design. Resulting in greater than planned RAD controls resulting in cost and schedule impacts. Risk Handling Strategy: Accept Probability: Very Low (<10%) Worst Case Impacts: \$1,280K, 64 days</p>			<p>Risk Trigger Metric: Risk has been triggered by discovery of more drums than planned and Mass Excavation volume higher than originally planned. Drum retrieval was completed in March, however, drums may be discovered in the areas around the VPUs.</p> <table border="1" data-bbox="873 1360 1563 1436"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Closely managing waste inventories and discoveries, and making adjustments as required.</td> <td>Ongoing</td> <td>N/A</td> </tr> </tbody> </table> <p>Mitigation Assessment: The estimate for the remediation of the 618-10 waste site included an assumed amount of additional drums still to be remediated. The project has identified unexpected additional drums that were not planned or estimated. The project will continue to closely monitor and manage waste inventories and any new discoveries.</p>	Mitigation action(s)	FC Date	%	Closely managing waste inventories and discoveries, and making adjustments as required.	Ongoing	N/A
Mitigation action(s)	FC Date	%								
Closely managing waste inventories and discoveries, and making adjustments as required.	Ongoing	N/A								
Unassigned Risks (Pending ownership of identified risks/opportunities)										
<p>No unassigned risks identified in the month of March.</p>										

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	16.0	17.8	11.9	1.8	11.1%	5.9	33.1%

Numbers are rounded to the nearest \$0.1 million

CM Schedule Performance (+\$1.8M/11.1%)

The current month favorable schedule variance is primarily due to a Baseline Change Request (BCR) that was implemented in March for the 618-10 and 316-4 projects. The BCR incorporated revisions to the assumed scope and quantities that were realized after the scope was transferred from Washington Closure Hanford, LLC (WCH) to CHPRC. The implementation of this BCR causes a point adjustment in the current period. The Contract-to-Date variances for the 618-10 and 316-4 are more reflective of actual experienced variances.

CM Cost Performance (+\$5.9M/33.1%)

The current month favorable cost variance is primarily due to a BCR that was implemented in March for the 618-10 and 316-4 projects. The BCR incorporated revisions to the assumed scope and quantities that were realized after the scope was transferred from WCH to CHPRC. The implementation of this BCR causes a point adjustment in the current period. The Contract-to-Date variances for the 618-10 and 316-4 are more reflective of actual experienced variances.

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	408.9	415.8	371.2	6.8	1.7%	44.6	10.7%	547.2	492.9	54.4

Numbers are rounded to the nearest \$0.1 million

CTD Schedule Performance (+\$6.8M/+1.7%)

The schedule variance is within reporting thresholds.

CTD Cost Performance (+\$44.6M/+10.7%)

The favorable cost variance is partially due to low-waste volumes at ERDF that have created efficiencies in labor and materials, as well as drum processing costs being lower than expected at the 618-10 Burial Ground. Additionally, the 618-10 Burial Ground has been experiencing efficiencies in its labor due to the sharing of resources among the project. It is also primarily due to completing Confirmatory Sampling No Action (CSNA) waste sites 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 (+\$54.4M/+9.9%)

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

Contract Performance Report Formats are provided in Appendix A.

FUNDS vs. SPEND FORECAST (\$M)

WBS 041/RL-0041 Nuclear Facility D&D – River Corridor	FY2017		Variance
	Projected Funding	Spending Forecast	
Spending Forecast	139.4	109.1	30.3
Incremental Scope Pending Change Management	0	24.2	(24.2)
RL-0041 - Total	139.4	133.4	6.1

Numbers are rounded to the nearest \$0.1 million.

Funds/Variance Analysis:

FY2017 projected funding for project breakdown structure (PBS) RL-0041 is \$139.4 million. The \$24.2 million of incremental scope reflects 300-296 Project scope not yet authorized via an increase to the existing NTE (Change Order 305) or via a new change order and 105K West Fuel Storage Basin Deactivation scope, which will be implemented into the baseline next month.

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

MILESTONE STATUS

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

Number	Title	Due Date	Actual Date	Status/ Comment
M-016-00A	Complete all response actions for 100 Areas Except GW in M-016-00 and 100 K addressed in M-016-00C	3/31/2017	3/8/2017 (A)	Completed ahead of Schedule
M-016-164	Complete 100-N Interim Response Actions & Close 100-N Ancillary Facilities Area of Contamination	3/31/2017	3/8/2017 (A)	Completed ahead of Schedule

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.

DOE ACTIONS / DECISIONS

None currently identified.

Section G

Fast Flux Test Facility Closure (RL-0042)



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

March 2017
CHPRC-2017-03, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

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

EMS OBJECTIVES AND TARGET STATUS

None currently identified.

TARGET ZERO PERFORMANCE

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

KEY ACCOMPLISHMENTS

RL-0042 Accomplishments

- Issued a request for proposal (RFP) to retain the services of a well installation contractor to install the replacement P16 pump.
- Received the replacement FFTF contractor required to resolve maintenance issues with the 481 Building motor control centers; started resolution of the non-compliance report (NCR) for non-compliant Nationally Recognized Testing Lab (NRTL) labeling.
- Ordered the remaining parts necessary to complete the repairs of the T-58 and T-87 tank heaters.
- Continued development of an engineering change request to replace the 481 Building electrical fire pump control panel (C-670) with an up-to-date control panel that meets current National Fire Protection Association standards.
- Issued a purchase requisition to purchase a new Stationary Operating Engineer (SOE) change trailer for the 400 Area.
- Continued development of a Scope of Work (SOW) and Engineering Change Request (ECR) for installation of a new 400 Area SOE change trailer.

MAJOR ISSUES

None currently identified.

RISK MANAGEMENT STATUS

No key risks currently identified.

PROJECT BASELINE PERFORMANCE

Current Month

(\$M)

RL-0042 FFTF Closure	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)
Total	0.2	0.2	0.2	(0.0)	-3.5%	(0.0)	-5.1%

Numbers are rounded to the nearest \$0.1M

CM Schedule Performance: (-\$0.0M/-3.5%)

The schedule variance is within reporting thresholds.

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

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	23.2	23.1	19.0	(0.0)	-0.1%	4.2	18.0%	26.5	23.3	3.1

Numbers are rounded to the nearest \$0.1 million

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

The schedule variance is within reporting thresholds.

CTD Cost Performance (+\$4.2M/+18.0%)

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

Variance at Completion (+\$3.1M/+11.9%)

The Variance at Completion is within reporting thresholds.

Contract Performance Report Formats are provided in Appendix A.

FUNDS VS. SPEND FORECAST (\$M)

RL-0042 FFTF Closure	FY2017		Variance
	Projected Funding	Spending Forecast	
Spending Forecast	3.9	2.0	1.9
Incremental Scope Pending Change Management	0.0	0.0	0.0
RL-0042 – Total	3.9	2.0	1.9

Numbers are rounded to the nearest \$0.1 million

Funds Analysis

Fiscal year (FY) 2017 projected funding for project breakdown structure (PBS) RL-0042 is \$3.9 million. The EAC of \$2.0 million is in line with the FY2017 BAC of \$2.1 million.

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.

MILESTONE STATUS

None currently identified.

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.

DOE ACTIONS/DECISIONS

None currently identified.

Appendix A

Contract Performance

Reports

Format 1 - Work Breakdown Structure

Format 2 - Organizational Categories

Format 3 - Baseline

Format 4 - Staffing

Format 5 - Explanation and Problem Analysis



March 2017
CHPRC-2017-03, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

CLASSIFICATION (When Filled In)

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

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

1. CONTRACTOR		2. CONTRACT		3. PROGRAM		4. REPORT PERIOD	
a. NAME CH2M HILL Plateau Remediation Company		a. NAME Plateau Remediation Contract		a. NAME Plateau Remediation Contract		a. FROM (YYYYMMDD) 2017 / 02 / 20	
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE		b. TO (YYYYMMDD) 2017 / 03 / 26	
c. TYPE CPAF		d. SHARE RATIO		c. EVMS ACCEPTANCE NO X YES (YYYYMMDD) 2009 / 09 / 18			

5. CONTRACT DATA								
a. QUANTITY 1	b. NEGOTIATED COST 5,582,760	c. ESTIMATED COST OF AUTHORIZED UNPRICED WORK 167,950	d. TARGET PROFIT/FEE 241,315	e. TARGET PRICE 5,824,075	f. ESTIMATED PRICE 5,837,680	g. CONTRACT CEILING 5,824,075	h. ESTIMATED CONTRACT CEILING 5,837,680	i. DATE OF OTB/OTS (YYYYMMDD)

6. ESTIMATED COST AT COMPLETION				7. AUTHORIZED CONTRACTOR REPRESENTATIVE					
MANAGEMENT ESTIMATE AT COMPLETION (1)		CONTRACT BUDGET BASE (2)		VARIANCE (3)		a. NAME (Last, First, Middle Initial) Dickerson, Kala K		b. TITLE Prime Contract Compliance Manager	
a. BEST CASE 5,533,273						c. SIGNATURE		d. DATE SIGNED (YYYYMMDD)	
b. WORST CASE 5,633,067									
c. MOST LIKELY 5,596,365		5,750,710		154,346					

8. PERFORMANCE DATA																		
Control Account.PBS ITEM (1)	CURRENT PERIOD						CUMULATIVE TO DATE						REPROGRAMMING ADJUSTMENTS			AT COMPLETION		
	BUDGETED COST		ACTUAL COST WORK PERFORMED (4)	VARIANCE		BUDGETED COST		ACTUAL COST WORK PERFORMED (9)	VARIANCE		COST VARIANCE (12a)	SCHEDULE VARIANCE (12b)	BUDGET (13)	BUDGETED (14)	ESTIMATED (15)	VARIANCE (16)		
	WORK SCHEDULED (2)	WORK PERFORMED (3)		SCHEDULE (5)	COST (6)	WORK SCHEDULED (7)	WORK PERFORMED (8)		SCHEDULE (10)	COST (11)								
RL-0011 Nuclear Mat Stab & Disp PFP	368	5,119	15,279	4,751	-10,160	979,154	932,853	1,004,124	-46,301	-71,271	0	0	0	980,454	1,063,472	-83,018		
RL-0012 SNF Stabilization & Disp	7,616	6,983	7,419	-634	-436	660,956	663,642	633,554	2,686	30,088	0	0	0	740,046	707,896	32,149		
RL-0013 Solid Waste Stab & Disp	11,090	10,500	9,379	-590	1,121	1,140,437	1,139,566	1,065,402	-872	74,164	0	0	0	1,345,219	1,292,726	52,492		
RL-0030 Soil & Water Rem-Grndwtr/Vadose	15,231	12,174	12,451	-3,057	-278	1,351,417	1,327,968	1,294,471	-23,449	33,498	0	0	0	1,566,411	1,498,063	68,348		
RL-0040 Nuc Fac D&D - Remainder Hanfrd	3,614	3,423	2,456	-191	967	435,913	431,287	400,767	-4,625	30,521	0	0	0	480,821	453,988	26,833		
RL-0041 Nuc Fac D&D - RC Closure Proj	16,016	17,793	11,907	1,778	5,886	408,935	415,772	371,177	6,837	44,594	0	0	0	544,850	490,489	54,361		
RL-0042 Nuc Fac D&D - FTF Proj	210	203	213	-7	-10	23,167	23,133	18,969	-34	4,164	0	0	0	26,455	23,320	3,135		
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														3,319	3,319	0		
e. SUBTOTAL	54,144	56,194	59,104	2,049	-2,910	4,999,980	4,934,221	4,788,464	-65,758	145,758	0	0	0	5,687,574	5,533,273	154,301		
f. MANAGEMENT RESERVE														63,092				
g. TOTAL	54,144	56,194	59,104	2,049	-2,910	4,999,980	4,934,221	4,788,464	-65,758	145,758	0	0	0	5,750,666				
9. RECONCILIATION TO CONTRACT BUDGET BASELINE																		
a. VARIANCE ADJUSTMENT																		
b. TOTAL CONTRACT VARIANCE																		
										-65,758	145,758		5,750,666	5,533,273	217,393			

* In regards to RL-0041, CHPRC has implemented the River Corridor Closure Contract (RCCC) transitioned scope into the Performance Measurement Baseline (PMB) for Earned Value Management (EVM) reporting purposes. When the change orders (CO #304, #305, #306) are definitized, BCRs will be processed to align the PMB with the definitized values.

*CPR Format 1 displays fully burdened dollars which includes indirect G&A that is distributed to each Project

CLASSIFICATION (When Filled In)

**CONTRACT PERFORMANCE REPORT
FORMAT 2 - ORGANIZATIONAL CATEGORIES**

DOLLARS IN Thousands of \$

FORM APPROVED

OMB No. 0704-0188

1. CONTRACTOR		2. CONTRACT		3. PROGRAM		4. REPORT PERIOD	
a. NAME CH2M HILL Plateau Remediation Company		a. NAME Plateau Remediation Contract		a. NAME Plateau Remediation Contract		a. FROM (YYYYMMDD) 2017 / 02 / 20	
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE		b. TO (YYYYMMDD) 2017 / 03 / 26	
c. TYPE CPAF		d. SHARE RATIO		c. EVMS ACCEPTANCE NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> (YYYYMMDD) 2009 / 09 / 18			

WBS.Resp Org Group	CURRENT PERIOD						CUMULATIVE TO DATE					REPROGRAMMING ADJUSTMENTS			AT COMPLETION		
	BUDGETED COST		ACTUAL COST WORK PERFORMED (4)	VARIANCE		BUDGETED COST		ACTUAL COST WORK PERFORMED (9)	VARIANCE		COST VARIANCE (12a)	SCHEDULE VARIANCE (12b)	BUDGET (13)	BUDGETED (14)	ESTIMATED (15)	VARIANCE (16)	
	WORK SCHEDULED (2)	WORK PERFORMED (3)		SCHEDULE (5)	COST (6)	WORK SCHEDULED (7)	WORK PERFORMED (8)		SCHEDULE (10)	COST (11)							
ITEM (1)																	
34 - Env Program & Strategic Plng	1,086	1,095	1,068	9	27	69,707	69,394	64,308	-313	5,086	0	0	0	82,893	80,170	2,723	
35 - Business Services	0	0	0	0	0	472,524	472,524	448,542	0	23,982	0	0	0	472,524	448,542	23,982	
36 - Prime Contract & Proj Integr	176	176	147	0	28	5,943	5,943	3,339	0	2,603	0	0	0	8,414	5,833	2,581	
3B - PFP Closure Project	368	5,119	15,272	4,751	-10,153	891,895	845,594	924,697	-46,301	-79,103	0	0	0	893,195	983,923	-90,728	
3C - Waste & Fuels Management Project	11,061	10,471	9,340	-590	1,131	1,031,971	1,031,100	957,096	-872	74,003	0	0	0	1,236,373	1,183,973	52,400	
3D - Soil & Groundwater Remediation	14,092	11,026	11,355	-3,066	-329	1,181,832	1,158,697	1,124,118	-23,135	34,579	0	0	0	1,382,783	1,311,038	71,744	
3G - K Basin Oper & Plateau Remediation Project	13,805	11,670	10,799	-2,135	871	1,280,467	1,285,159	1,208,708	4,692	76,451	0	0	0	1,470,843	1,388,177	82,666	
3H - 618-10 and ERDF	10,247	13,249	7,113	3,002	6,136	44,073	44,837	36,957	764	7,881	0	0	0	100,012	92,995	7,017	
3J - Building 324 Disposition Project	3,309	3,388	4,010	79	-622	21,567	20,974	20,700	-593	274	0	0	0	37,219	35,303	1,916	
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														3,319	3,319	0	
e. SUBTOTAL (Performance Measurement Baseline)	54,144	56,194	59,104	2,049	-2,910	4,999,980	4,934,221	4,788,464	-65,758	145,758	0	0	0	5,687,574	5,533,273	154,301	
f. MANAGEMENT RESERVE														63,092			
g. TOTAL	54,144	56,194	59,104	2,049	-2,910	4,999,980	4,934,221	4,788,464	-65,758	145,758	0	0	0	5,750,666			

* In regards to RL-0041, CHPRC has implemented the River Corridor Closure Contract (RCCC) transitioned scope into the Performance Measurement Baseline (PMB) for Earned Value Management (EVM) reporting purposes. When the change orders (CO #304, #305, #306) are definitized, BCRs will be processed to align the PMB with the definitized values.

CONTRACT PERFORMANCE REPORT																	Form Approved OMB No. 0704-0188	
FORMAT 3 - BASELINE																	DOLLARS IN THOUSANDS	
1. CONTRACTOR CH2M HILL Plateau Remediation Company Richland, WA				2. CONTRACT a. NAME: Plateau Remediation Contract b. NUMBER: RL14788 c. TYPE: CPAF d. SHARE RATIO:				3. PROGRAM a. NAME: Plateau Remediation Contract b. PHASE c. EVMS ACCEPTANCE NO YES X 9/18/2009				4. REPORT PERIOD a. FROM: 2017/02/20 b. TO: 2017/03/26						
5. CONTRACT DATA																		
a. ORIGINAL NEGOTIATED COST 4,312,366				b. NEGOTIATED CONTRACT CHANGE \$1,270,393		c. CURRENT NEGOTIATED COST (A + B) \$5,582,760		d. ESTIMATED COST AUTH UNPRICED WORK \$167,950		e. CONTRACT BUDGET BASE (C + D) \$5,750,710		f. TOTAL ALLOCATED BUDGET \$5,750,666		g. DIFFERENCE (E - F) \$45				
h. CONTRACT START DATE 6/19/2008				i. DEFINITIZATION DATE 6/19/2008		j. PLANNED COMPL DATE 9/30/2018		k. CONT COMPLETION DATE 9/30/2018				l. EST COMPLETION DATE 9/30/2018						
6. PERFORMANCE DATA																		
ITEM (1)	BCWS CUM TO DATE (2)	BCWS FOR REPORT PERIOD (3)	SIX MONTH FORECAST						BUDGETED COST FOR WORK SCHEDULED (NON - CUMULATIVE)						UNDISTRIB BUDGET (16)	TOTAL BUDGET (17)		
			+1 Apr-17 (4)	+2 May-17 (5)	+3 Jun-17 (6)	+4 Jul-17 (7)	+5 Aug-17 (8)	+6 Sep-17 (9)	FY09-13 (10)	FY14 (11)	FY15 (12)	FY16 (13)	FY17 (14)	FY18 (15)				
a. PM BASELINE (BEGIN OF PERIOD)																		
b. BASELINE CHANGES AUTH DURING REPORT PERIOD																		
BCR-011-17-009R0 - CO #313, Correct Negative BCWS Errors Previously Incorporated																		
BCR-011C-17-008R0 - PFP Cap 2 Demolition Equipment MR Draw - Clamp Buckets																		
BCR-013-17-011R0 - Incorporate CO#314 - Outside Storage Area Closure Plan Revisions																		
BCR-013-17-012R0 - RL-013 TPA Milestone Revisions																		
BCR-013-17-013R0 - Incorporate CO#323 - Sitewide Transportation Document																		
BCR-013-17-014R0 Incorporate CO#322 Integrated Disposal Facility Revised Operational Requirements																		
BCR-013-17-015R0 - Establish WESF MO-029 as a GPP																		
BCR-030-17-011R0, Incorporate CO #294, 100-KR-4 RI-FS Re-Write																		
BCR-030-17-013R0, Incorporate CO #316 - Re-plan DWMUs for Engineering Evals																		
BCR-030-17-014R0, Incorporate CO 318, 200-WA-1 & 200-BC-1 Characterization																		
BCR-040-17-009R0, Incorporate CO #324 Miscellaneous RL-0040 Work Scopes																		
BCR-041-17-011R0 - Incorporate Revised Scope for 300-296 Waste Site Project																		
BCR-041C-17-010R0 - Incorporate Scope Revisions for 618-10 Burial Ground and 316-4 Waste Site																		
BCRA-030-17-015R0, PBS030 WBS Dictionary Update																		
BCRA-PRC-17-019R0, HPIC Updates March 2017																		
BCR-PRC-17-020R0, RL-040 Min Safe Scope MR Draw																		
BCR-PRC-17-018R0, Undistributed Budget Adjustments March 2017																		
c. PM BASELINE (END OF PERIOD)																		
7. MANAGEMENT RESERVE																		
8. TOTAL																		
	4,945,835	48,530	40,870	37,600	42,283	30,818	30,873	45,286	3,391,477	391,653	471,323	504,826	462,816	443,806	5,868	5,671,768		
													0			0		
													126			126		
													100			100		
													0			0		
													200			200		
													500			500		
													0			0		
													809			809		
													0			0		
													350			350		
													3,490			3,490		
													0			0		
													6,863	2,545		9,408		
													0			0		
													0			0		
													3,372			3,372		
															(2,549)	(2,549)		
	4,999,980	54,145	43,540	40,195	43,847	32,170	31,944	46,228	3,391,477	391,653	471,323	504,826	478,626	446,351	3,319	5,687,574		
																63,092		
																5,750,666		

* In regards to RL-0041, CHPRC has implemented the River Corridor Closure Contract (RCCC) transitioned scope into the Performance Measurement Baseline (PMB) for Earned Value Management (EVM) reporting purposes. When the change orders (CO #304, #305, #306) are definitized, BCRs will be processed to align the PMB with the definitized values.

CLASSIFICATION (When Filled In)

CONTRACT PERFORMANCE REPORT FORMAT 4 - STAFFING										FORM APPROVED OMB No. 0704-0188	
1. CONTRACTOR		2. CONTRACT				3. PROGRAM				Dollars in: FTE	4. REPORT PERIOD
a. NAME CH2M HILL Plateau Remediation Company		a. NAME Plateau Remediation Contract				a. NAME Plateau Remediation Contract					a. FROM (YYYYMMDD) 2017 / 02 / 20
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788				b. PHASE					b. TO (YYYYMMDD) 2017 / 03 / 26
		c. TYPE CPAF		d. SHARE RATIO		c. EVMS ACCEPTANCE NO <input type="checkbox"/> X <input checked="" type="checkbox"/> YES (YYYYMMDD) 2009 / 09 / 18					

5. PERFORMANCE DATA															
WBS.Resp Org Group ORGANIZATIONAL CATEGORY (1)	ACTUAL CURRENT PERIOD (2)	ACTUAL END OF CURRENT PERIOD (Cumulative) (3)	FORECAST (Non-Cumulative)										AT COMPLETION (15)		
			SIX MONTH FORECAST BY MONTH (Enter names of months)						ENTER SPECIFIED PERIODS						
			+1 APR 2017 (4)	+2 MAY 2017 (5)	+3 JUN 2017 (6)	+4 JULY 2017 (7)	+5 AUG 2017 (8)	+6 SEPT 2017 (9)	1st Qtr FY18 (10)	FY18 (11)	FY19-LC (12)	ATCOMPLETE (13)			
300 - Office of the President	7	685	6	6	6	6	6	6	6	6	16	47	0	0	786
303 - Internal Audit	5	442	5	5	5	5	5	5	5	5	15	45	0	0	532
304 - General Counsel	4	416	5	5	5	5	5	5	5	5	15	45	0	0	506
31 - Communications	9	966	9	9	9	9	9	9	9	8	27	81	0	0	1126
32 - Safety Health Security & Quality	56	6836	69	69	68	69	68	68	65	65	196	590	0	0	8028
34 - Env Program & Strategic Plng	42	4556	45	47	48	47	47	47	45	45	151	452	0	0	5438
35 - Business Services	68	7285	74	74	74	74	74	74	70	70	192	580	0	0	8495
36 - Prime Contract & Proj Integr	62	4628	67	67	75	75	75	75	71	71	175	527	0	0	5759
38 - Project Technical Services	32	5371	39	39	39	39	39	39	37	37	106	320	0	0	6031
3B - PFP Closure Project	391	47439	372	354	242	175	187	110	99	99	25	0	0	0	49003
3C - Waste & Fuels Management Project	337	47560	323	316	309	311	296	280	280	959	2850	722	0	0	53926
3D - Soil & Groundwater Remediation	307	34318	289	284	281	266	258	256	256	832	2606	834	0	0	40224
3G - K Basin Oper & Plateau Remediation Project	336	45028	383	395	381	386	368	319	319	1099	2797	207	0	0	51364
3H - 618-10 and ERDF	62	376	184	179	178	176	151	144	112	112	185	0	0	0	1687
3J - Building 324 Disposition Project	117	803	75	53	53	50	44	37	37	105	316	0	0	0	1535
g. TOTAL DIRECT	1834	206708	1945	1902	1773	1693	1633	1458	4097	11466	1763	0	0	0	234438

* In regards to RL-0041, CHPRC has implemented the River Corridor Closure Contract (RCCC) transitioned scope into the Performance Measurement Baseline (PMB) for Earned Value Management (EVM) reporting purposes. When the change orders (CO #304, #305, #306) are definitized, BCRs will be processed to align the PMB with the definitized values.

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

CLASSIFICATION (When Filled In)									
CONTRACT PERFORMANCE REPORT FORMAT 5 - EXPLANATIONS AND PROBLEM ANALYSES							FORM APPROVED OMB No. 0704-0188		
1. CONTRACTOR		2. CONTRACT		3. PROGRAM		4. REPORT PERIOD			
a. NAME CH2M HILL Plateau Remediation Company		a. NAME Plateau Remediation Contract		a. NAME Plateau Remediation Contract		a. FROM (YYYY/MM/DD) 2017/02/20			
b. LOCATION (Address and ZIP Code) Richland, WA 99354		b. NUMBER DE-AC06-08RL14788		b. PHASE Base		b. TO (YYYY/MM/DD) 2017/03/26			
		c. TYPE CPAF	d. SHARE RATIO	c. EVMS ACCEPTANCE 2009/09/18 NO YES X					
	BCWS	BCWP	ACWP	SV in \$	SV in %	CV in \$	CV %	SPI	CPI
Current:	54,145	56,194	59,104	2,050	3.8%	(2,910)	-5.2%	1.04	0.95
Cumulative:	4,999,980	4,934,221	4,788,464	(65,758)	-1.3%	145,758	3.0%	0.99	1.03
	BAC	EAC	VAC in \$	VAC in %	TCPI				
At Complete:	5,687,574	5,533,273	154,301	2.7%	1.01				
Explanation of Variance/Description of Problem:									
Current Period Schedule Variance: The current month schedule variance is within reporting threshold.									
Current Period Cost Variance: The current month negative cost variance is primarily due to project breakdown structure (PBS) RL-0011 delay in completion of the PFP Project to achieve slab on grade. The delay is causing needed extensions of both Minimum Safe, Maintenance, and D&D project management resources, without BCWS to support the remaining D&D work scope until the facility becomes ready for demolition. In addition, asbestos abatement, E4 duct removal, and process vacuum removal are all requiring more time and additional resources to complete work. Additional resources (i.e., pipefitters, electricians, insulators, Radiological Control Technicians) have also been hired temporarily to attempt to recover schedule. Additional activities have been identified that require removal of approximately an additional 10,000 feet of asbestos that was not visible on any plant drawings when the baseline was developed, further delaying the demolition ready activities. Due to delays in ready-for-demo activities, resources supporting waste processing activities that were planned to be completed in FY2016 are continuing to charge for support of waste load-out, processing, and shipping. Additional unplanned shipping materials (Waste shipping containers (TL-1800s, SLB2s, IP-1 bags, etc.)) were also required to support waste load-out activities. Unplanned shipments of drums to Perma-fix Northwest also contributed to the unfavorable variance. Continuation of quarterly stipend certification payments is also contributing to this variance. In addition, due to the historical (December 2015) radiological issues resulting in compensatory measures that have been implemented at PFP, additional radiological and industrial hygiene resources have been assigned to support the PFP Project until the slab on grade milestone is met. This is partially offset by PBS RL-0041 implementing a BCR in March for the 618-10 and 316-4 projects. The BCR incorporated revisions to the assumed scope and quantities that were realized after the scope was transferred from WCH to CHPRC. The implementation of this BCR causes a point adjustment in the current period.									
Cumulative Schedule Variance: The variance is within reporting thresholds.									
Cumulative Cost Variance: The variance is within reporting thresholds.									
Impact:									
Current Period Schedule: Delays in PBS RL-0011 continue to impact other PRC Priority work scope.									
Current Period Cost: Delays in critical path work and the lack of labor resources for PBS RL-0011 has delayed demolition of 234-5Z and 291-Z facilities due to available labor resources being redirected to support ready for demolition activities associated with 242-Z, and 236-Z (other project critical path work). In addition the lack of Insulator, Pipefitter, and Electrician resources has delayed mitigation of unplanned quantities asbestos, removal of process piping, and electrical isolations at PFP. Additionally, Unusually severe winter weather has delayed PBS RL-0011 to be ready for demolition and exterior demolition activities due to "R" time (late start, early release, and plant closures for non-essential personnel) and impacts to demolition activities and equipment availability due to freezing conditions.									
Cumulative Schedule: N/A									
Cumulative Cost: N/A									
Corrective Action:									
Current Period Schedule: PBS RL-0011 needs to update staffing analysis to evaluate options to support work priorities and workforce restructuring as well as hire short-term craft personnel to support PFP and other project needs.									
Current Period Cost: PBS RL-0011 will need to identify work arounds (overtime and re-sequencing of work) to recover delays, evaluate potential availability of craft resources currently assigned to other CHPRC Projects and with the MSA and submit request for excusable delay for cost and schedule impacts associated with events outside PRC's ability to manage.									
Cumulative Schedule: N/A									
Cumulative Cost: N/A									

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

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

CHPRC continues to track completion of the contract scope within budget and is currently projecting a Variance at Completion of \$154.3 million, with \$63.1 million of Management Reserve (MR) for a total positive variance of \$217.4 million. For March, the project was 3.8 percent ahead of schedule and 5.2 percent over planned cost. Contract to Date (CTD), the project was 1.3 percent behind schedule and 3.0 percent under planned cost.

There were eight of the 18 BCRs in the period that impacted the PMB; BCR-011C-17-008R0 – *RL-011 CAP 2 Additional Demo Equipment MR Draw – Clamp Buckets*, BCR-013-17-011R0 – *Incorporate CO #314 Outside Storage Area Closure Plan Revisions*, BCR-013-17-013R0 – *Incorporate CO #323, Management of Hanford Sitewide Transportation Safety Document*, BCR-013-17-014R0 – *Incorporate CO #322, Integrated Disposal Facility Revised Operational Requirements*, BCR-030-17-014R0 – *Incorporate CO #318, 200-WA-1 & 200-BC-1 OUs Characterization*, BCR-040-17-009R0 – *Incorporate CO #324 Miscellaneous RL-0040 Work Scope*, BCR-PRC-17-020R0 – *RL-040 Min Safe Scope MR draw*, BCR-PRC-17-018R0 – *Undistributed Budget Adjustments March 2017*.

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 + \$154.3 million, +2.7% and is within reporting thresholds.

Format 1 and 3 Contract Data:

Contract Price Adjustments

CPs - In Process		
	Total Authorized Unpriced Work	\$167,950
Approved Adjustments to Contract Price (not reflected in B.4-1 Table)		
	Total Negotiated Cost Changes	-
	Grand Total Adjustments	\$167,950

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

Undistributed Budget Activity

BCR Number	Title	PBS	Fiscal Year	UB
BCR-PRC-17-018R0	<i>Undistributed Budget Adjustments March 2017</i>	RL-0011 RL-0013 RL-0030 RL-0040 RL-0041	2017-2018	\$-2,549K

The Undistributed Budget decreased by \$2,549K.

Management Reserve Activity

BCR Number	Title	PBS	Fiscal Year	MR
BCR-011C-17-008R0	<i>RL-011 CAP 2 Additional Demo Equipment MR Draw – Clamp Buckets</i>	RL-0011	2017 - 2018	\$-126K
BCR-PRC-17-020R0	<i>RL-040 Min Safe Scope MR draw</i>	RL-0040	2017 - 2018	\$-3,372K

Overall, there was a decrease in Management Reserve (MR) of \$3,498K during March.

Fee Activity

BCR Number	Title	PBS	Fiscal Year	Fee
N/A	N/A	N/A	2017 - 2018	N/A

Overall, there was no change to Fee during March.

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

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: Project Control Staff	Date: 4/18/2017	Approved by:	Date:
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** In regards to RL-0041, CHPRC has implemented the River Corridor Closure Contract (RCCC) transitioned scope into the Performance Measurement Baseline (PMB) for Earned Value Management (EVM) reporting purposes. When the change orders (CO #304, #305, #306) are definitized, BCRs will be processed to align the PMB with the definitized values.*

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

March 2017
CHPRC-2017-03, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

M. N. Jaraysi
Vice President for
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PROGRAM SUMMARY

Project Services and Support functional activities continue to provide support and technical services to all CH2M HILL Plateau Remediation Company (CHPRC) projects as well as central management of cross-cutting services.

EMS Objectives and Target Status

Objective #	Objective	Target	Due Date	Status
17-EMS-ADMIN-OB1-T1	Reduce energy intensity.	Increase facility occupancy rates to greater than 83 percent by compressing occupancy and vacating underutilized facilities. Vacated/unoccupied facilities declared unusable and designated inactive placed in Care Taker system.	9/30/17	20%
17-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.	10/9/17	32%
17-EMS-PTS-OB1-T1	Universal Waste, Recycling Compliance, Spill Prevention, and Satellite Accumulation Area Inspections.	Monitor and evaluate universal waste, other recycling, and satellite accumulation areas for compliance with CHPRC procedures and WAC 173-303 regulations.	9/30/17	48%
17-EMS-PTS-OB2-T1	Monthly Chemical Management Inspection.	Ensure chemical products are accurately tracked, maintained, and excessed/disposed. Perform quarterly assessment on chemical inventory locations.	9/30/17	48%

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	2	8	<ul style="list-style-type: none"> • 3/30/17 - Employee suffered a headache after working in an area that was being painted. (24417) • 3/27/17 – Employee reported ongoing pain in their right forearm. (24418)
Near-Misses	0	0	N/A

KEY ACCOMPLISHMENTS

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

- There were two first aid cases during the month of March in the functional groups.
 - o Occupational Safety and Industrial Hygiene (OS&IH) accomplishments:
 - Continued active participation on the Hanford Site Fall Protection Program Committee that is revising the program to incorporate recent Occupational Safety and Health Administration (OSHA) regulatory changes to 1910 Subpart D Walking/Working Surfaces.
 - Convened CHPRC Hoisting & Rigging Committee to solicit feedback pertaining to several Hanford Site Hoisting & Rigging Committee resolutions.
 - Supported Projects by reviewing their Seasonal Heat Stress Campaign plans.
 - Supported Soil and Groundwater Remediation Project (S&GRP) by completing training documentation necessary to designate Qualified Persons for Confined Space for upcoming field work.
 - Provided review of the 324 Building Disposition Project Health & Safety Plan.
 - o Radiological Control accomplishments:
 - Continued to provide radiological work planning support to Waste and Fuels Project.
 - Provided Radiological Work Planning support to Plutonium Finishing Plant (PFP), 300 Area, and Central Plateau Surveillance and Maintenance Projects.
 - Completed reviews and approved Technical Evaluations (TE) for:
 - Waste Receiving and Processing (WRAP) Source Control.
 - PFP Area Monitoring.
 - Provided support to site-wide radiological control initiative to upgrade the Hanford radiological area entry control system.
 - Provided initial Radiological Work Planning training.
 - Held quarterly, Radiological Control Leadership meeting.

- o Nuclear Operations Support & Compliance accomplishments:
 - Correspondence sent to Department Of Energy Richland Operations Office (RL):
 - Letter, CHPRC-1700805, dated March 6, 2017, *Request for Relief from DOE-RL-2001-26, Hanford Sitewide Transportation Safety Document, to obtain RL Traffic Manager Approval for Special Packaging Authorizations, Load Securements, and Tiedowns.*
 - Letter, CHPRC-1700791, dated March 5, 2017, *Request for Relief from the Shipping Temperature Requirement in DOE-RL-2001-26, Hanford Sitewide Transportation Safety Document.*
 - Letter, CHPRC-1700956, dated March 20, 2017, *Transmittal of the Waste Encapsulation and Storage Facility Management of Cesium and Strontium Capsules (Project W-135) Safety Design Strategy, CHPRC-02236, Revision 1, and the Waste Encapsulation and Storage Facility Management of Cesium and Strontium Capsules (Project W-135) Major Modification Determination, CHPRC-03108, Revision 0, to RL for Review and Approval.*
 - Letter, CHPRC-1701017, dated March 21, 2017, *Transmittal of 2016 Unreviewed Safety Question Summary Report and Discussion of Annual Updates to the Plutonium Finishing Plant Safety Basis Documents.*
 - Correspondence received from RL:
 - Letter, 17-NSD-0007_RL REISSUE, dated March 2, 2017, *Transmittal of the 2016 Annual Update to HNF-14804, Revision 7, B Plant Documented Safety Analysis (DSA), the Unreviewed Safety Question Determination (USQD) Summary, and CP-41843, Revision 1, B-Plant Fire Hazards Analysis.*
 - Letter, 17-NSD-0015_RL, dated March 21, 2017, *Request for Approval of the “One-Time Request for Shipment (OTRS) for Sludge Transport from K West Basin to T Plant,” CHPRC-03111, Revision 0.*
 - Letter, 17-NSD-0017_RL, dated March 27, 2017, *Approval of the Request for Relief from DOE/RL-2001-36, “Hanford Sitewide Transportation Safety Document,” TSD to Obtain the U.S. Department of Energy Richland Operations Office (RL) Traffic Manager Approval for Special Packaging Authorizations, Load Securements, and Tiedowns.*
- o Contractor Assurance Regulatory Reporting (CARR) accomplishments:
 - 264 Condition Reports (CRs) were screened:
 - No significant issues identified.
 - One adverse issue identified.
 - 121 Track Until Fixed issues identified.
 - 78 Trend Only items identified.
 - 58 Opportunity for Improvement (OFI) items identified.
 - Six Screened Out.
 - 274 CRs administratively closed.
 - 402 CRs actions administratively closed.
 - Provided Course #600082, *Responsible Manager Training, Issues Management*, to eight employees.
 - Provided full time support to PFP Issues Management and Occurrence Reporting activities.
 - Transmitted two Final Occurrence Reporting and Processing System (ORPS) reports associated with PFP: EM-RL--CPRC-PFP-2017-0004, *Discovery of Unprotected 480 Volt Electrical Source*; and EM-RL--CPRC-PFP-2017-0005, *Personnel Exposed to Uncontrolled 120 Volt Hazardous Energy Source*.
 - Provided support for the Monthly Sludge Treatment Project (STP) Status conference call and support for the Bi-Monthly Defense Nuclear Facility Safety Board (DNFSB) Resident Inspector Meeting.
 - Provided support for the monthly 300-296 Project status conference call with the DNFSB.

- Provided support for the upcoming DNFSB review of aging electrical infrastructure at Hanford.
- Sixteen documents were provided in response to DNFSB requests for information.
- Published the February 2017 Contractor Assurance System Summary Report.
- Two external Lessons Learned were submitted to OPEXShare in March: 2017-RL-HNF-0006, *Pitfalls of Graded Approach for Startup Readiness Activities* and 2017-RL-HNF-0005, *Non-Approved Modification of MSA Advantage 3100 Respirator Can Put Workers at Risk*. One internal Lessons Learned was submitted to OPEXShare in March: LL-2017-PFP-0002, *Pitfalls of Not Applying Full Rigor for Startup Readiness Activities*.
- Transmitted one Noncompliance Tracking System (NTS) report: EM-RL--CPRC-SWOC-2017-0001, *Unreviewed Safety Question (USQ) for Evaluation of Seismic Event with Fire*.
- o Performance Oversight, Assessment, and Quality Assurance accomplishments:
 - Performed in-field activities for the 10 CFR 835, Subpart M, “Sealed Radioactive Source Control,” surveillance.
 - Completed a surveillance and issued a report for an activity at PFP to determine the effectiveness of two corrective actions taken to address an RL issue regarding work package approval and implementation of the Hazard Review Board process.
 - Independent Assessment Plan Entrance Briefing and begin fieldwork for SHSQ-2017-NSPEB-13328, Nuclear Safety and Performance Evaluation Board (NSPEB) Review of Corrective Actions Taken for SHSQ-2015-NSPEB-13324 (Review of SGRP).
 - Completed plan for SHS&Q-2017-SURV-16458, NQA-1, Requirement 10 – Inspections, PRC-PRO-QA-599.
 - Supported a Corporate Assist Visit to Dounreay, Scotland, to support evaluation of investigation and causal analysis.
 - Attended Audit Exit Meeting and provided support for DOE Audit AU-17-ESQ-CHPRC-004, “Procurement Document Control and Instructions, Procedures, and Drawings.”
 - Participated in Program/Procedure Transition Schedule Meeting.
- o Fire Protection accomplishments:
 - MSA Radio Fire Alarm Reporter (RFAR) Project is on hold. The Fire Alarm Control Units Project is with Project Technical Services (PTS) to take action on the response to RL.
 - Fire Protection continues to provide significant support for PFP, including the following:
 - Technical Safety Requirement (TSR) inspections.
 - Deactivation Analyses.
 - Acceptance Test Procedures for post fire system modifications.
 - Permit renewals and compliance verifications.
 - Coordination with the Hanford Fire Marshall Office (HFMO).
 - Facility Hazards Analysis planned modifications.
 - Electrical isolation and heating issues.
 - Epoxy work.
 - The following TSR activities were completed:
 - Solid Waste Operations complex (SWOC):
 - o 2X-16-07659/S, LLBG three Month Combustible Surveillance.
 - o W1-17-00626/S, Quarterly WRAP Combustible Surveillance.
 - o 2T-17-00543/A, T Plant one Year Fire Hazard Analysis Key Assumption Assessment.
 - PFP:
 - o SR 5.18.4.2 – Monthly inspection of facility and exterior for compliance with fire protection combustible controls.

- o SR 5.19.4.3 – Monthly inspection of facility for energized power cords, energized battery chargers, and spontaneous ignition source material.
 - o SAC 5.20.2 – Bi-weekly inspection of front side ventilation zone 1 areas – performed by the facility Fire Safety Officer.
- Facility Hazards Analysis (FHA):
 - The 105KW FHA has been published.
 - SWOC FHA is in revision for a limited number of issues.
 - PUREX FHA was published.
 - B Plant FHA was sent to HFMO for comments, 191 comments were received. The comments are being evaluated for importance and applicability.
 - The REDOX FHA is being revised.
 - U-Plant FHA is being developed.
 - Building 402 FHA is being revised.
 - Building 324 FHA is being developed.
- SHS&Q Focus Areas:
 - o **Issue:** Beryllium program assessment findings from Department of Energy (DOE-HQ), Office of Safety, Health and Security Independent Oversight Inspection report.
 - o **Status:** Revision 4 is being developed.
 - o **Action:** Beryllium facility assessments and characterization on schedule. Beryllium facility assessments have been completed on 1,476 CHPRC facilities.
 - o **Issue:** Accident & Injury Reduction.
 - o **Status:** Continue investigating recordable, days away, restricted, or transferred, and first aid injuries to determine cause, prevention, reduction, to prevent recurrence.
 - o **Action:** Improving injury trend across the PRC.
 - o **Issue:** PFP support.
 - o **Status:** Supporting PFP with dedicated OS&IH personnel and Radiological Control personnel, from the SHS&Q Central group for Senior Supervisory Watch of high-risk work activities.
 - o **Action:** Providing senior supervisory watch for PFP demolition activities based upon specific hazard activities in coordination with PFP management.
 - o **Issue:** Fire Protection program improvements.
 - o **Status:** CHPRC Fire Protection personnel are actively interfacing with Hanford Fire Department (HFD) and RL regarding Fire Protection program improvements related to fire hazard analyses.
 - o **Action:** Two additional newly graduated Fire Protection Engineers (FPE) will be added to the staff this summer.

Environmental Program and Strategic Planning (EP&SP)

Environmental Protection

- **Compliance Status**
 - o No new items to report.

Environmental Compliance & Quality Assurance (EC&QA)

- **Assessment Program**
 - o No new item to report.

Business Services

- **Acquisition Planning:**
 - o Worked with representatives of the 300-296 project to address temporary staffing needs and methods for acquiring a structural analysis.

- o Worked with Finance and US Bank as part of an on-going evaluation of purchasing card programs. At the conclusion of the evaluation, CHPRC plans to stay with the current purchasing card program provider.
- o Assisted 618-10 with an estimate for backfilling certain areas within the project. Provided average cost information for use in performing an internal project estimate.
- o Performed market survey for interest in providing elevator maintenance services.
- o Coordinated the release of Mine Safety Appliance filter cartridges from the MSA Warehouse. The filter cartridges were purchased by Washington Closure Hanford (WCH), and the property was transferred to CHPRC as part of the RCCC project scope transition. WCH procurement processes are different than CHPRC's, and a special inspection was required to release the cartridges for CHPRC project use.
- o Developed a sources sought document for the purposes of establishing a pre-qualified listing of potential contractors that may perform construction services for pre-requisite activities such as interference removal, cell sealing, core drilling, and structural modifications.
- o Developed and issued a sources sought document for the purposes of conducting a market survey on Multi-Channel Analysis of Surface Waves (MASW) services. MASW is a type of seismic survey that is used to assist with mapping variations in shear wave velocities as a function of depth.
- **Facilities & Property Management (F&PM):**
 - o The FY2017 Physical Property Inventory has begun. By April 4, 2017, we expect to be at approximately 31 percent complete, primarily with computers. Held a kickoff meeting on March 21, 2017, with site property coordinators. Will be training the seven new Property Coordinators on Sunflower and forms and processes on April 5, 2017.
 - o Move planning/execution for RL and CHPRC between Federal Building and 2420 Stevens continues. Balance of President's Office, Communications, General Council, and select Prime Contracts and Project Integration (PC&PI), and Environmental moved in March. PC&PI and Environmental will continue in April 2017. Minor facility upgrades within the Federal Building continue. Expect moves to continue through late July.
 - o Support for new shower trailer to support S&GRP Drilling and Sampling Operations at Waste Sampling and Characterization Facility continues. Currently working with PTS on the design and acquisition phase of the Project.
 - o A new single-wide office trailer is being planned in the 400 Area in support of potable water operations. Working with MSA on placement permits. Cultural Review complete. Trailer electrical service will be installed on-grade in rigid conduit, no trenching required. Completed geophysics ground scan for trailer set. Facilities Modification Package (FMP) has been completed.
 - o A single-wide restroom trailer is being planned as an addition to the 300 Area in support of the 324 Building project. All building permits were approved, and civil and electrical engineering permits completed. Currently moving forward on rental agreement. Completed geophysics ground scan for trailer set, and trailer is currently in the procurement process.
 - o Work continued in March to restore potable water connections to MO061 and MO245 in the 300 Area. Trenching and tie-in work were wrapping up at end of March. Water will be switched to potable water in April.
 - o MO-029 is currently in process of demobilization, all three trailer sections are scheduled to be hauled to ERDF for disposal by April 20, 2017.
 - o Main potable water line tie to MO-246, MO-061 (300 area) has been completed. MO-061 shower bathroom trailer is in service supporting 324 airlock activities. MO-246 now has operational bathrooms.
 - o Performed walkdown with electrical engineering of 300 area trailers using above ground cord as main electrical feed to trailer. Walk down resulted in actions to protect several electrical services.

Once the identified services are protected, a communication will be provided by engineering stating that existing trailers with above ground cord are acceptable.

- **Finance:**
 - o March month-end completed with no cost suspensions.
 - o Submitted the corrective action plan activities for resolution of RL Construction Work in Process depreciation balance updates. Record research of the depreciation balance history is nearing completion.
 - o Submitted the FY2016 Incurred Cost Report.
 - o Submitted the Corrective Action Plan regarding the path forward for resolution of the 2009-2015 Incurred Cost Report Audit Findings.
- **Human Resources (HR):**
 - o Completed annual Rating and Ranking of non-represented employees.
 - o Placement analysis in work for PFP and 618-10 end of assignment work scope over the next several months.
 - o Rolled out Workforce Restructuring Plan and opened Self-Select Program to specific seniority groups/classifications.
 - o Finalized Affirmative Action Plan and published CHPRC commitment to Affirmative Action and diversity.
 - o Received approval from RL for updates to PRO-046, “Compensating Exempt and Salaried Non-Exempt Employees.” Included approval from RL to provide a Facility Stipend Pay Program for Qualified Operations Managers for work scope associated with 618-10 and 324 activities.
 - o Worked in conjunction with MSA Benefits and Payroll to implement a Service Contract Act (SCA) Fringe Benefit Adder calculation approach that will be applicable to current non-bargaining, non-exempt employees going forward. Some employees may receive a future benefit adjustment payment. Select current and former CHPRC non-bargaining, nonexempt employees were also provided with “catch-up” payments in accordance with the SCA.
 - o Submitted the iBenefits Annual Workforce Restructuring Report for CHPRC for FY2016 and FY2017 into the Workforce Restructuring Module in iBenefits.
 - o Submitted the iBenefits Report of Contractor Expenditures for Employee Supplemental Compensation for CHPRC for 2016.
 - o Participated in an internal audit examining how CHPRC handles Personally Identifiable information during the staffing process. Audit was compliant, with one suggested improvement to clarify the process to remove employee Hanford Resources Information System (HRIS) access if transferred to another position.
 - o Facilitated DOE and SHS&Q partnering session focusing on the continuous improvement of the review process, and the credibility of source documents. Progress was made, but additional meetings will be required.
- **Labor Relations (LR):**
 - o The following is the current status of grievances in the Arbitration Process:
 - PRC-015-051 and PRC-016-014 – purchasing items (i.e. pipe spools) from offsite vendors. Status: Union hold on selecting the panel until they can further review.
 - PRC-015-011 – union claiming miss-assignment of work in regard to respirator maintenance. Status: Arbitration scheduled for October 11, 2016, postponed by mutual agreement as parties work to reach settlement in the matter. PRC-016-017 – purchasing items (i.e., pipe spools) from offsite vendors. Status: Union reviewing grievances and parties agreed to toll the deadline for CHPRC to file any Unfair Labor Practices (ULPs) with the National Labor Relation Board (NLRB).
 - PRC-016-036 – discipline. Status: Arbitration Panel selection in process.
 - PRC-016-044, 049, & 050 – termination. Status: Arbitration Panel selection in process.

- o PRC-016-059 – failure to meet CHPRC pre-employment screening. Status: Arbitration Panel selection in process.
- o Labor Relations continues to support Work Force Restructuring activities for affected bargaining unit employees including realignment/placement of resources within CHPRC projects.
- **Procurement:**
 - o Awarded/amended 169 contracts with a total value of \$16.4 million. Additionally, awarded 267 new material Purchase Orders (PO) valued at \$1.1 million to support ongoing project objectives.
 - o At the end of the first 102 months of the CHPRC project, procurement volume has been significant; \$2.51 billion in contract activity has been recorded with approximately 54.76 percent, or \$1.37 billion, in awards to small businesses. This includes 7,689 contract releases, 22,665 POs, and 269,849 P-Card transactions.
 - o Contract 62378 was awarded to Federal Engineers and Constructors, Inc. on February 21, 2017. This is a firm fixed unit price contract for “100K Waste Sites Remediation.” This award is valued at \$1,999,999.
 - o Contract 48768-10 was awarded to Carpenter Drilling, LLC on February 22, 2017. This is a firm fixed price contract for “Installation of Four Wells 100-KR-4, FY17.” This award is valued at \$450,000.
 - o Contract 53687-12 was awarded to Gram Northwest, LLC on February 23, 2017. This is a time and materials contract for “Geologic Support for the Installation of Four Wells in the 200-ZP.” This award is valued at \$132,326.26.
 - o Contract 36883-39 was awarded to Ojeda on March 2, 2017. This is a firm fixed price contract to “Remove MO-029 and Install New 5-Wide Mobile Office Trailer.” This award is valued at \$125,400.
 - o Contract 54177-68 was awarded to Intera Incorporated on March 2, 2017. This is a time and materials contract for “Cumulative Impact Evaluation Approach Document.” This contract is valued at \$112,027.
 - o Contract 62536 was awarded to Container Technologies Industries on March 7, 2017. This is a firm fixed price contract for “Type A 1800-TL Container Procurement.” This award is valued at \$700,920.
 - o Contract 58447-3 was awarded to Tacoma Pump and Drilling Company on March 22, 2017. This is a firm fixed price contract for “Drilling of Four 200-UP-1 Mon Wells, FY 2017.” This award is valued at \$943,440.
 - o Contract 36883-41 was awarded to Ojeda on March 23, 2017. This is a firm fixed price contract for “Coat 1803-K Raw Water Tank Top.” This award is valued at \$128,691.

Prime Contract and Project Integration (PC&PI)

- o A Minor Change to PRC-MP-MS-19361, *CH2M Hill Plateau Remediation Company Project Execution Plan* was approved internally. The changes reflect the CHPRC assumption of the River Corridor Cleanup Contract work scope and the corresponding CHPRC organization structure. A letter has been drafted to formally transmit the document to RL for approval.
- **Prime Contract Compliance (PCC):**
 - o In March, PCC received and processed 17 contract modifications (572, 574, 576-590) from RL.
 - o The Correspondence Review Team received and determined the distribution for 78 incoming letters/documents. The PCC Manager reviewed 38 outgoing correspondence packages.
 - o Issued CHPRC-1700815, “*Notification of Differing Site Condition at the Plutonium Finishing Plant – Below Grade Pits in 234-5Z.*”
 - o Issued CHPRC-1700206.1 – “*CHPRC Weather Delay Impacts to PM-30-4-17, Complete Well Drilling of Six Wells by March 31, 2017.*”

Integrated Services

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CHPRC-2017-03, Rev. 0 · Appendix B



- **Estimating & Program Support**

- o Five CPs/REAs were submitted to RL in March 2017:
 - CP 013 308 1629 - *Management of the Cesium and Strontium Capsules Capital Asset Project Deductive Proposal*, submitted on March 2, 2017.
 - CP 013 322 1639 - *Integrated Disposal Facility Revised Operational Requirements*, submitted on March 2, 2017.
 - CP 013 323 1648 - *Hanford Site Wide Transportation Safety Document*, submitted on March 15, 2017.
 - CP 012 PRC 1646 - *Sludge Retrieval Project (SRP) Acceleration of 105KW and T Plant*, submitted on March 23, 2017.
 - CP 013 PRC 1652 - *Nondestructive Assay (NDA) of Repackaged Remote Handled/Large Box Suspect Transuranic (TRU) Waste*, submitted on March 23, 2017.
- o Eighteen CPs/REAs have been submitted FY2017 to-date, sixteen on or ahead of schedule with two CPs/REAs submitted late.
- o Continued development of five CPs/REAs:
 - CP 030 318 1618 - *200-WA-1 and 200-BC-1 Operable Units Characterization*.
 - CP 041 326 1651 - *105-KW Fuel Storage Basin*.
 - CP 030 PRC 1649 - *200-SW-2 Operable Unit Field Work Characterization Fiscal Year 2017 and 2018*.
 - CP 000 PRC 1650 - *Disclosure Statement Revision to Estimating and Program Support*.
 - REA 000 PRC 1643 - *Hanford Site Safety - Confined Space Gap Training*.
- o Supported eight Truthful Cost or Pricing Data updates for CPs/REAs:
 - CP 030 294 1570 - *100-KR-4 Remedial Investigation/Feasibility Study Decisional Rewrite*, submitted March 1, 2017.
 - CP 041 305 1616 - *300-296 Waste Site Design Change, Initiate Procurements, Initiate Testing, and Initiate Removal of Debris*.
 - CP 041 306 1596 - *618-10 Burial Ground*.
 - CP 041 306 1597 - *River Corridor Closure Contract (RCCC) Remaining Closure Operations*.
 - CP 041 306 1600 - *316-4 Waste Site*.
 - CP 041 306 1610 - *600-63 Waste Site*.
 - CP 041 307 1621 - *100-K Additional Tons FY2016 and FY2017*, submitted March 7, 2017.
 - CP 013 PRC 1635 - *Upgrades to Site Transuranic Waste Program Required to Meet the New Waste Isolation Pilot Plant Waste Acceptance Criteria Revision 8 (WIPP/WAC)*, submitted March 15, 2017.
- o Supported RL's requests for information (RFIs) for eight CPs/REAs:
 - CP 041 304 1592 - *Initiate Transition of River Corridor Contract (RCC) Scope Activities into the Plateau Remediation Contract (PRC) - RCC Transition Implementation*, submitted response March 9, 2017.
 - CP 013 310 1624 - *Solid Waste Operations Complex (SWOC) Hazards Mitigation Activities*.

- CP 040 311 1625 - *Emergency Response for Facility/Waste Site Environmental, Safety, Health, and Quality or Remediation*, submitted response on March 23, 2017.
 - CP 013 315 1633 - *Debris Cleanup in the Vicinity of Waste Encapsulation and Storage Facility (WESF), Canister Storage Building (CSB), and SWOC*, submitted response March 30, 2017.
 - CP 030 316 1637 - *Groundwater Engineering Reports and Groundwater Monitoring Plans for Dangerous Waste Management Units (DWMU)*, submitted response March 16, 2017.
 - CP 041 319 1640 - *Garnet Filter Media Removal*, submitted response March 21, 2017.
 - CP 040 321 1645 - *Resource Conservation and Recovery Act (RCRA) Revision 9 Management & Coordination*, submitted response March 8, 2017.
 - CP 013 325 1626 - *Contractor Requirements Document (CRD) 474.2 Change 3, Nuclear Material Control and Accountability*, submitted response March 8, 2017.
- **Interface Management:**
 - o Interfaces (Technical, Administrative and Regulatory):
 - Attended FY2017 Road Closure Review Progress Meeting with MSA and PNNL to discuss ongoing road closures, identify any road closure violations and to discuss process improvements.
 - Sent Draft FY17 Integrated Safety Analysis Plan (ISAP) document out for final review and comment.
 - Continue to support communications between Washington River Protection Solutions (WRPS) at 222-S and CHPRC at REDOX.
 - o Annual Forecast of Services:
 - CHPRC kicked off FY2018 annual planning; MSA service forecast is included in this activity.
 - Continued flow of communication/requests for MSA resources, as required by emerging project needs. Most recently, PFP service needs and teamster needs across the CHPRC projects have required additional discussions and support.
 - o Inter-Contractor Issue Resolution:
 - Continued communications between MSA Infrastructure Projects (water/sewer upgrades) and CHPRC Surveillance & Maintenance and Remedy Selection Project point of contacts to communicate concerns related to new infrastructure crossing over, under, through Waste Information Data System (WIDS) sites slated for near term remediation. CHPRC Interface Management will continue to facilitate discussions and monitor information exchange.
 - Facilitated discussions between CHPRC Projects and MSA regarding the interpretation of the “*” in the endorsed procedure MSC-RD-FP-7899, *Fire Protection System Testing/Inspection/Maintenance/Deficiencies*.
 - Continued efforts to facilitate installation of a new potable water tie-in with MSA water utilities to support increased work scope in the 324 facilities. Extraneous winter conditions and other MSA execution issues required elevation of the project priority to the company Vice President levels. CHPRC provided information, engineering support and documentation to restart work after a bundle of “cables” was severed during the initial excavation.
 - o Controlling and Service Agreements:
 - Finalized revision of PRC-AIA-MS-02137, Revision 2 between CH2M HILL Plateau Remediation Company and Mission Support Alliance, LLC for Construction/On-Site/Specialized Equipment Needs. Document routed for final signatures.
 - Sent Administrative Interface Agreement (AIA) CHPRC-00236, Rev. 3, AIA for Welding and Materials, Engineering Services and Welding Services between CHPRC, MSA, and WRPS out for internal review.

- Published HNF-49315, Memorandum of Agreement (MOA) on Hanford Atomic Metal Trades Council (HAMTC) Seniority Related Discharges & Replacements.
- Signed Interface & Responsibilities Agreement with the City of Richland for Electrical Utilities in the 300 Area.
- Sent five Service Delivery Documents out for review and comment during the month of March 2017.
- o J.3 Table Maintenance: (No performance level actions occurred within the month of March 2017)
- o J.13 and J.14 Tables Maintenance:
 - Received final review package from MSA for proposed modifications to the J.13 and J.14 Tables with a requested response/concurrence date of April 7, 2017.
- o Internal Operations:
 - Continued working several documents revisions/cancellations related to the RCCC scope transfer to CHPRC. Involved parties include city of Richland, Pacific Northwest National Laboratory (PNNL), and MSA.
 - Investigating a potential change of five mobile trailers at the Environmental Restoration and Disposal Facility (ERDF) from General Purpose Facilities to Project Specific Facilities due to the existing work control and configuration control processes in place at ERDF. Existing project processes do not align with the delegations given to MSA for general maintenance activities.
 - Published revision to the Interface Management procedure, PRC-PRO-MS-10472.
- **Information Management:**
 - o Processed 20,936 Electronic Records into the Integrated Document Management System (IDMS).
 - o Work with MSA is continuing to improve network connectivity and speed in 300 Area for Soil Remediation Project and 600 Area for 618-10 Project. HLAN upgrades were completed for the MO2232 building. Additional HLAN installations to support the project are scheduled during April.
 - o Continued support to internal data validation and tests of DOE Earned Value Cost and Schedule Analysis (EVCSA) tool.

Project Integration

- o During March, Project Integration facilitated and supported the processing of 18 BCRs.
- o In support of the “Integration of the CHPRC Project Controls System Description and the Earned Value Management Interpretation Handbook (EVMSIH), award of support contract expected by end of April, with kickoff of the System Description revision to follow.

Program Integration

- **000 Project EVM Support:**
 - o Developed Management Assessment Plan for PC&PI-2017-MA-18735 Maintenance Tracking Assessment to evaluate the effectiveness and reliability of the current CHPRC methodology for identifying, collecting and reporting operation and maintenance costs for real property assets.
 - o Developed and completed field work on Worksite Assessment of Indirect Accounts Accrual Record Retention.
 - o Supported development of CP 000 PRC 1650 - Disclosure Statement Revision to Estimating and Program Support.
 - o Developed BCRA-000-17-002R0 to update February Baseline Change Request for Basis of Estimate changes related to BCR-000-17-001R0, Incorporate Beryllium Exposure Medical Removal Costs.
- **Risk Management and Reporting:**
 - o Issued the CHPRC February Monthly Performance Report to RL.

- Conducted Internal Project Team reviews for February performance data.
- Conducted February performance monthly project reviews.
- Provided PC&PI input into Contractor Assurance System (CAS) February Report.
- Issued CHPRC February Corporate Program Performance report.
- Supported development of the CHPRC February Monthly Highlights to the Nuclear Business Group.
- Conducted risk meetings to support change proposals identified under Estimating & Program Support section.
- Continued interface meetings with RL related to the FY2017 Estimate to Complete (ETC) Review Comment Record (RCRs). Competing priorities between RL and CHPRC delayed final submittal in March. It is now anticipated to submit final RCR response in April.
- Initiated Risk Management annual update guidance to support the FY2018 ETC/Long Range Plan (LRP) deliverables.
- Completed second quarter risk register reviews with Projects.
- **Strategic Management:**
 - Kicked off the start of the LRP effort as part of the Performance Measurement Baseline (PMB) deliverable for this year. As part of this effort, guidance and a detailed schedule has been developed and coordinated with the FY2018 ETC update.
 - Continued work with various projects on the LRP to support work from FY2018-FY2020, including Canyon Risk Mitigation related activities, KW Deactivation & Demolition, Soil & Groundwater, and Waste and Fuels M-91 and Dry Storage.
 - Updated CHPRC FY2017 Execution Year Priority list per March Field Execution Schedule projected completion dates and posted on CHPRC internal website.
 - Completed an internal draft of a multi-year CHPRC Integrated Priority List (IPL) to incorporate near term and long-term priorities. The IPL includes long-range plan scope and emerging priorities, and incorporates elements of the RL 2020 vision. CHPRC will schedule a meeting in April to review the draft IPL with RL for feedback.
 - A joint venture between Business and Environmental Strategic Planning continued in March to strategize key projects to focus near-term and out-year planning. An initial focus is producing a strategic plan for key projects in the next five years, with overall schedules to support these, as well as a comprehensive assessment of all regulatory documents needed in the next five years to support the project work. The overall goal will be to align both project and regulatory key strategic initiatives to support successful project completions.
 - Coordinating a strategic approach for K West Area closure, including waste sites and D&D of the KW Basin, along with other ancillary buildings. This will include a completion strategy to coordinate with Soil and Ground Water upcoming 100-KR-4 RI/FS update.
 - Continued supporting multiple projects technical requests, including assistance with alternative M-91 TRU processing facilities, soil and groundwater plume source research and potential remedy selections, and alternative disposal analysis from Waste Treatment Plant (WTP) cold run waste. Continued to provide input to key project initiatives, including Building 224B processes, burial ground waste research, Cesium/Strontium Capsules to dry storage project, and the alpha caisson retrieval project.

- o Continued support of ERDF radionuclide disposals and modifications to Waste Management Information System inventory tracking with RL, ERDF Operations Management, and Risk & Modeling Integration. These discussions were in support of the issuance of the annual surveillance and maintenance review required by the ERDF Performance Assessment.
- o Held February Productivity Tracking Log meeting with the projects. Discussed company-level metrics, and Projects briefed their metrics of productivity delays and efficiencies.

PTS

000 Project Services and Support

- **Engineering Services**
 - o Continued company and site-wide committee coordination activities for implementation of a revision to the site-wide electrical safety procedure.
 - o Commenced development of an implementation plan for an Electronic Engineering Package process.
 - o Provided input for the development of design standards for mobile offices.
 - o Issued a SolidWorks simulation software test plan.
- **Training and Procedures**
 - o Teamed with Washington River Protection Solutions, LLC and HAMMER to initiate standardized Industrial Hygienist Technician training across the Hanford site.
 - o Supported DOE audit on quality assurance topics.
- **Operations Program**

ConOps/Work Control/Conduct of Work:

 - o Continued work on the revisions Craft Specific Hazards Analysis/General industrial Hazards Analysis.
 - o Worked with new Required Reading tool to determine efficiencies in assigning to multiple groups.

Emergency Preparedness (EP)

- o Conducting second quarter EP Assessment of all Facilities.
- o Working on multiple work site assessments related to the Triennial Corrective Action Plan and EP program improvement actions.
- o Initiating an EP web portal for drill and Incident Command Post tips/lessons learned.
- o Conducted drills for K Basin Operations and Plateau Remediation, Canister Storage Building, and T-Plant.
- o Supporting CAP development for issues identified during EP exercises at Waste Encapsulation and Storage Facility and Canister Storage Building.

Communications

- Communications supported RL in the following Public Involvement activities:
 - o Doug Shoop provided a RL Agency update on the 324 Building Disposition Project, 618-10 Burial Ground Project, PFP and K Basin at the Hanford Advisory Board meeting on March 1, 2017.
 - o Communications supported the development of a presentation for a Class 2 Permit Modification public meeting for the 300 Area Process Trenches and the 183-H Solar Evaporation Basins that Doug Hildebrand presented on February 28, 2017.
- Communications supported RL in conducting interviews and providing information that generated the following articles in the media:

- Environmental Management (EM) Newsletter, February 28, 2017: “Plutonium Finishing Plant Crews Continue Progress Toward Demolition”
- EM Newsletter, February 28, 2017: “Hanford Approaches End of Waste Burial Ground Work”
- EM Newsletter, February 28, 2017: “Hanford Prepares for Soil Cleanup Near River”
- EM Newsletter, February 28, 2017: “Hanford Workers Reduce Safety Risks Despite Harsh Winter”
- Tri-City Herald: [Lights Go Out at Hanford Plutonium Plant](#)
- Tri-City Herald: Update on electrical isolation of main processing facility and restart of demolition after January 27, 2017, continuous air monitor event
- Tim Newcomb, *Engineering News-Record* magazine, March 23, 2017: Inquired about the status of demolition at PFP for an article to be published late the week of March 27, 2017.
- Tri-City Herald, March 23, 2017: Tough Hanford burial ground work left for last? No problem
- Tri-City Herald, March 24, 2017: CH2M donation helping future scientists learn science
- KNDU: [618-10 waste removal project in finishing stages](#)
- Weapons Complex Monitor: [618-10 burial ground pipe removal progressing quickly](#)
- Communications supported RL in the development of several social media posts, including:
 - 324 Building time lapse video
 - Groundwater awareness week, CHPRC featured S&GRP and their mobile treatment skid
 - ERDF drivers reach more than 100,000 safe miles
 - Electrical isolation and demolition restart
 - Drum retrieval from 618-10 Burial Ground trenches completed
 - Time lapse video of tank removal from 242- Z (Americium Recovery Facility)
 - Preparations to enter 324 Building’s airlock
 - Steam isolation at PFP’s main processing facility
 - 618-10 low-level VPU completion Facebook and Twitter posts

PROJECT BASELINE PERFORMANCE
Current Month
(\$M)

WBS 000 Project Services and Support	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)
Office of the President	0.2	0.2	0.2	0.0	0.0%	(0.1)	-34.2%
Internal Audit	0.1	0.1	0.1	0.0	0.0%	0.0	35.9%
General Counsel	0.1	0.1	0.2	0.0	0.0%	(0.1)	-42.2%
Communications	0.1	0.1	0.1	0.0	0.0%	0.0	-25.8%
Safety, Health, Security and Quality	1.5	1.5	1.3	0.0	0.0%	0.2	13.9%
Environmental Program and Strategic Planning	0.5	0.5	0.6	0.0	0.0%	0.0	-3.7%
Business Services	2.4	2.4	2.4	0.0	0.0%	(0.1)	-2.2%
Prime Contract and Project Integration	2.4	2.4	2.1	0.0	0.0%	0.3	13.1%
Project Technical Services	0.7	0.7	0.7	0.0	-0.2%	0.1	6.8%
Indirect WBS 000 Total	8.2	8.2	7.8	0.0	0.0%	0.4	4.9%

Numbers are rounded to the nearest \$0.1 million.

Indirect WBS 000

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

The variance is within reporting thresholds.

CM Cost Performance: (+\$0.4M/+4.9%)

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	0.9	0.9	0.9	0.0	0.0%	0.0	-0.3%	1.8
Internal Audit	0.6	0.6	0.3	0.0	0.0%	0.3	47.2%	1.2
General Counsel	0.7	0.7	0.6	0.0	0.0%	0.1	11.3%	1.5
Communications	0.5	0.5	0.6	0.0	0.0%	(0.1)	-19.4%	1.1
Safety, Health, Security and Quality	7.4	7.4	6.1	0.0	0.0%	1.3	18.1%	15.7
Environmental Program and Strategic Planning	2.6	2.6	2.0	0.0	0.0%	0.5	21.2%	5.5
Business Services	11.4	11.4	10.8	0.0	0.0%	0.6	5.6%	24.1
Prime Contract and Project Integration	11.6	11.6	9.9	0.0	0.0%	1.7	14.9%	24.5
Project Technical Services	3.6	3.6	3.3	0.0	0.3%	0.3	7.5%	7.5
Indirect WBS 000 Total	39.2	39.2	34.4	0.0	0.0%	4.8	12.2%	83.0

Numbers are rounded to the nearest \$0.1 million.

Indirect WBS 000

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

The variance is within reporting thresholds.

FYTD Cost Performance: (+\$4.8M/+12.2%)

The FYTD positive cost variance is primarily due to continued lower than planned on-demand services for information resource and technology management support, as well as increased project demands that have reduced the overall buyer support charging to the indirect account for procurement support. Also contributing to the positive cost variance is open vacancies in the Safety Health Security & Quality and Business Services organizations. Additionally, the National Beryllium Program has experienced a decrease in activity as the Beryllium Corrective Action Plan has concluded and the Awareness Group meetings are required less frequently.

FY2017 G&A Analysis (\$M)

WBS 000 Project Services and Support	FY 2017					
	FYTD	FYTD	FYTD	FY2017	FY2017	FY2017
	BCWS	Actual	Variance (O)/U	BCWS	Forecast	Variance (O)/U
General & Administrative (G&A)	39.2	34.4	4.8	83.0	81.0	1.9
Office of the President	0.9	0.9	(0.0)	1.8	2.0	(0.2)
Internal Audit	0.6	0.3	0.3	1.2	0.9	0.3
General Counsel	0.7	0.6	0.1	1.5	1.4	0.2
Communications	0.5	0.6	(0.1)	1.1	1.3	(0.2)
Safety, Health, Security and Quality	7.4	6.1	1.3	15.7	14.6	1.1
Env. Program & Strategic Planning	2.6	2.0	0.5	5.5	4.7	0.8
Business Services	11.4	10.8	0.6	24.1	25.1	(1.0)
Prime Contract and Project Integration	11.6	9.9	1.7	24.5	23.4	1.1
Project Technical Services	3.6	3.3	0.3	7.5	7.7	(0.2)

FY2017		
G&A Distribution	(41.0)	(92.1)
G&A Liquidation (Over)/Under	(6.6)	(11.0)

Liquidation Analysis

For March, application of the G&A rate has over-liquidated total to date G&A cost by \$6.6 million. The FY2017 year-end projected over-liquidation of \$11.0 million, reflected in the fiscal year spend forecast, reflects a projected decrease in G&A costs as well as an increase to the G&A base.

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

MAJOR ISSUES

None currently identified.

RISK MANAGEMENT STATUS

No key risks currently identified.

MILESTONE STATUS

None currently identified.

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.

Appendix C
Capital Asset Projects
RL-0011_C1, RL-0011_C2, and RL-0012_C1_1



March 2017
CHPRC-2017-03, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

Appendix C
Capital Asset Project
RL-0011.C1 - PFP D&D
(Removal of 174 Gloveboxes from 234-5Z)



T. E. Bratvold
Vice President for
Plutonium Finishing
Plant Closure
Project

March 2017
CHPRC-2017-03, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

Progress continued to work toward critical decision (CD)-4 closure as teams continued to prep glovebox/hoods for extraction during demolition. It is expected that final preparations will be complete on May 2, 2017. At that time, gloveboxes will be staged until demolition of 234-5Z commences and completion of Capital Assets Project discrete scope will be completed. The total number of gloveboxes removed to date remains at 94 percent complete.

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

<i>Key Metrics</i>	<i>Current Month Plan</i>	<i>Current Month Actuals</i>	<i>Cumulative Plan</i>	<i>Cumulative Actuals</i>
Glovebox/Hood Removed	-	-	174	164
COMPLETE KPP Rooms/Areas Ready for Demo	-	-	60	60 rooms/areas

KEY ACCOMPLISHMENTS

RL-0011_C1 Accomplishments

- Work remaining on this capital asset project is removal of the gloveboxes from the 234-5Z facility. All work associated with glovebox process equipment removal has been completed. Final preparations to support the physical removal of the remaining gloveboxes will be completed by May 2, 2017. As the project nears the ready for demolition milestone for the 234-5Z building (May 2017), more gloveboxes will begin to be removed from the facility.
- Continued preparations for removal of HA-7A, HC-7C, and HC-18M gloveboxes from 234-5Z. It is expected that the HA-7A and HC-18M gloveboxes will be removed from the facility by the end of June 2017.

MAJOR ISSUES

None currently identified.

CORRECTIVE ACTION LOG

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

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

-  Opportunity currently realized, or mitigation efforts are currently working toward, or after risk trigger with no foreseeable impacts.
-  Mitigation efforts are currently working toward risk trigger with the possibility of actions not in place prior to risk occurrence. Recovery actions may be needed.
-  Risk currently realized, or risk mitigation efforts are past risk trigger date with foreseeable impacts. Recovery actions needed.

-  Increased Confidence
-  No Change
-  Decreased Confidence

Risk Title Risk Owner	Unmitigated Risk Impacts	Assessment		Comments		
		Month	Trend			
RL-0011/WBS-011.05.01.01.06 (CAP.1)						
Explanation of major changes to the project monthly spotlight chart: No major changes to the monthly spotlight chart in the month of March .						
Realized Risks (Risks that are currently impacting project cost/schedule)						
No realized risks identified for RL-0011/WBS-011.05.01.01.06 (CAP.1) in the month of March .						
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)						
FY2017 Risk Triggers (Risk could be realized in FY2017)						
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 Plutonium Finishing Plant (PFP) demolition, resulting in cost impacts and schedule delays. Risk Handling Strategy: Accept Probability: Low (10% to 25%) Worst Case Impacts: \$150K, 30 days			Risk Trigger: During pre-demolition/demolition activities in FY2017.		
				<table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>None identified at this time.</td> <td>N/A</td> <td>N/A</td> </tr> </tbody> </table> <p>Mitigation Assessment: Mitigation Assessment: No change in the month of March. The mitigation strategies have been put in place; as a result, the risk strategy is to accept with no further mitigation actions identified at this time. PFP will continue to adhere to the CHPRC ISMS program/ hoisting and rigging program to include detailed analyses of potential hazards and identification of preventive measures to implement prior to starting the work. At this time, no alternative course of actions needed.</p>	Mitigation action(s)	FC Date
Mitigation action(s)	FC Date	%				
None identified at this time.	N/A	N/A				
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)						
No high threat value risks identified for RL-0011/WBS-011.05.01.01.06 (CAP.1) in the month of March .						
Unassigned Risks (Pending ownership of identified risks/opportunities)						
No unassigned risks identified for RL-0011/WBS-011.05.01.01.06 (CAP.1) in the month of March .						

CRITICAL PATH SCHEDULE

The PFP Critical Path Schedule starts with completing the final phase of demolition of the 242-Z facility. This is followed by continuing demolition of the fourth, third, second, and first floors of 236-Z, leading to demolition of the 236-Z Canyon. Once demolition of 236-Z is complete, demolition of the A-Labs portion of the 234-5Z facility begins. This leads to the following sequence for demolition on 234-5Z: RMA Process Lines, RMC Process Lines, and the RADTU & Basement areas. CD-4 closeout will commence once the final glovebox is removed from RADTU in 234-5Z.

SCHEDULE MARGIN/MANAGEMENT RESERVE

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

CRITICAL DECISION MILESTONE STATUS

Number	Title	* Due Date	**Forecast Date	Status/ Comment
CAP.1	Removal of 174 gloveboxes from 234-5Z	11/30/17	10/26/2017	Progress continued to work toward CD-4 closure as teams continued to prep glovebox/hoods for extraction during demolition. It is expected that final preparations for removal will be complete on May 2, 2017. At that time gloveboxes will be staged until demolition of 234-5Z commences and completion of CAP.1 discrete scope will be completed. There was a six-day gain for the month of March. This is due to recognized efficiencies associated with the 242-Z demolition activities allowing the removal of gloveboxes earlier than shown in the month of February. As the PFP Project continues to make progress on the behind schedule critical path work scope being performed, it is expected efficiencies will be recognized, evaluated, and as appropriate implemented to help recover some of the schedule delays. The total number of gloveboxes removed to date is at 94 percent complete.

*Due date reflects CD-4 due date with DOE contingency.

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

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

Nothing to report at this time.

DOE ACTIONS / DECISIONS

Nothing to report at this time.

RL-0011_C1

Contract Performance Reports

Format 1 - Work Breakdown Structure

Format 2 - Organizational Categories

Format 3 - Baseline

Format 4 - Staffing

Format 5 - Explanation and Problem Analysis



March 2017
CHPRC-2017-03, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

CLASSIFICATION (When Filled In)

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

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

1. CONTRACTOR		2. CONTRACT		3. PROGRAM		4. REPORT PERIOD	
a. NAME C12M HILL Plateau Remediation Company		a. NAME Plateau Remediation Contract		a. NAME MPB-RL_0011_C1 - PFP D&D (ARRA/Base)		a. FROM (YYYYMMDD) 2017 / 02 / 20	
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE		b. TO (YYYYMMDD) 2017 / 03 / 26	
		c. TYPE CPAF		d. SHARE RATIO		c. EVMS ACCEPTANCE NO <input checked="" type="checkbox"/> YES (YYYYMMDD) 2009 / 09 / 18	

5. CONTRACT DATA								
a. QUANTITY 1	b. NEGOTIATED COST 317,545	c. ESTIMATED COST OF AUTHORIZED UNPRICED WORK 0	d. TARGET PROFIT/FEE 9,878	e. TARGET PRICE 327,423	f. ESTIMATED PRICE 344,795	g. CONTRACT CEILING 327,423	h. ESTIMATED CONTRACT CEILING 344,795	i. DATE OF OTB/OTS (YYYYMMDD)

6. ESTIMATED COST AT COMPLETION				7. AUTHORIZED CONTRACTOR REPRESENTATIVE					
MANAGEMENT ESTIMATE AT COMPLETION (1)		CONTRACT BUDGET BASE (2)		VARIANCE (3)		a. NAME (Last, First, Middle Initial) Dickerson, Kala K		b. TITLE Prime Contract Compliance Manager	
a. BEST CASE 332,525						c. SIGNATURE		d. DATE SIGNED (YYYYMMDD)	
b. WORST CASE 335,171									
c. MOST LIKELY 334,918		317,545		-17,373					

8. PERFORMANCE DATA																	
CAPN-PBS Control Account.PARS 2 WBS (2)		CURRENT PERIOD				CUMULATIVE TO DATE						REPROGRAMMING ADJUSTMENTS			AT COMPLETION		
ITEM (1)	BUDGETED COST		ACTUAL COST WORK PERFORMED (4)	VARIANCE		BUDGETED COST		ACTUAL COST WORK PERFORMED (9)	VARIANCE		COST VARIANCE (12a)	SCHEDULE VARIANCE (12b)	BUDGET (13)	BUDGETED (14)	ESTIMATED (15)	VARIANCE (16)	
	WORK SCHEDULED (2)	WORK PERFORMED (3)	SCHEDULE (5)	COST (6)	WORK SCHEDULED (7)	WORK PERFORMED (8)	SCHEDULE (10)	COST (11)									
RL-0011 Nuclear Mat Stab & Disp PFP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
RL_0011_C1.02 Maintain Safe & Compliant PFP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
RL_0011_C1.05 Disposition PFP Facility	0	96	122	96	-26	235,514	234,825	259,301	-690	-24,476	0	0	0	235,514	259,737	-24,223	
RL_0011_C1.06 Project Management & Support	0	0	0	0	0	11,990	11,990	12,477	0	-487	0	0	0	11,990	12,477	-487	
RL_0011_C1.90 Usage Based Services Distributions -PBS RL-11	0	0	0	0	0	7,221	7,221	7,731	0	-510	0	0	0	7,221	7,731	-510	
RL_0011_C1.98 Ramp-up and transition	0	0	0	0	0	19,399	19,399	19,253	0	147	0	0	0	19,399	19,253	147	
RL_0011_C1.99 PBS RL-11 UBS, G-n-A, Direct Distrib	0	0	0	0	0	41,028	41,028	33,328	0	7,700	0	0	0	41,028	33,328	7,700	
b. COST OF MONEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
c. GENERAL AND ADMINISTRATIVE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
d. UNDISTRIBUTED BUDGET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
e. SUBTOTAL	0	96	122	96	-26	315,152	314,462	332,088	-690	-17,626	0	0	0	315,152	332,525	-17,373	
f. MANAGEMENT RESERVE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
g. TOTAL	0	96	122	96	-26	315,152	314,462	332,088	-690	-17,626	0	0	0	317,545	332,525	-14,980	
9. RECONCILIATION TO CONTRACT BUDGET BASELINE																	
a. VARIANCE ADJUSTMENT																	
b. TOTAL CONTRACT VARIANCE																	
										-690	-17,626		317,545	332,525	-14,980		

*CPR Format 1 displays fully burdened dollars which includes indirect G&A that is distributed to each Project

CLASSIFICATION (When Filled In)

**CONTRACT PERFORMANCE REPORT
FORMAT 2 - ORGANIZATIONAL CATEGORIES**

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

1. CONTRACTOR		2. CONTRACT		3. PROGRAM		4. REPORT PERIOD	
a. NAME CH2M HILL Plateau Remediation Company		a. NAME Plateau Remediation Contract		a. NAME MPB - RL_0011_C1 - PFP D&D (ARRA/Base)		a. FROM (YYYYMMDD) 2017 / 02 / 20	
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE		b. TO (YYYYMMDD) 2017 / 03 / 26	
c. TYPE CPAF		d. SHARE RATIO		c. EVMS ACCEPTANCE NO <input type="checkbox"/> X YES (YYYYMMDD) 2009 / 09 / 18			

WBS.Resp Org Group ITEM (1)	CURRENT PERIOD						CUMULATIVE TO DATE						REPROGRAMMING ADJUSTMENTS			AT COMPLETION		
	BUDGETED COST		ACTUAL COST WORK PERFORMED (4)	VARIANCE		BUDGETED COST		ACTUAL COST WORK PERFORMED (9)	VARIANCE		COST VARIANCE (12a)	SCHEDULE VARIANCE (12b)	BUDGET (13)	BUDGETED (14)	ESTIMATED (15)	VARIANCE (16)		
	WORK SCHEDULED (2)	WORK PERFORMED (3)		SCHEDULE (5)	COST (6)	WORK SCHEDULED (7)	WORK PERFORMED (8)		SCHEDULE (10)	COST (11)								
35 - Business Services	0	0	0	0	0	60,427	60,427	52,580	0	7,847	0	0	0	60,427	52,580	7,847		
3B - PFP Closure Project	0	96	122	96	-26	254,725	254,035	279,508	-690	-25,472	0	0	0	254,725	279,944	-25,219		
b. COST OF MONEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
c. GENERAL AND ADMINISTRATIVE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
d. UNDISTRIBUTED BUDGET														0	0	0		
e. SUBTOTAL (Performance Measurement Baseline)	0	96	122	96	-26	315,152	314,462	332,088	-690	-17,626	0	0	0	315,152	332,525	-17,373		
f. MANAGEMENT RESERVE														2,393				
g. TOTAL	0	96	122	96	-26	315,152	314,462	332,088	-690	-17,626	0	0	0	317,545				

CLASSIFICATION (When Filled In)

CLASSIFICATION (When Filled In)

**CONTRACT PERFORMANCE REPORT
FORMAT 4 - STAFFING**

Dollars in: FTE

FORM APPROVED

OMB No. 0704-0188

1. CONTRACTOR		2. CONTRACT		3. PROGRAM		4. REPORT PERIOD	
a. NAME CH2M HILL Plateau Remediation Company		a. NAME Plateau Remediation Contract		a. NAME MPB - RL_0011_C1 - PFP D&D (ARRA/Base)		a. FROM (YYYYMMDD) 2017 / 02 / 20	
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE		b. TO (YYYYMMDD) 2017 / 03 / 26	
		c. TYPE CPAF	d. SHARE RATIO	c. EVMS ACCEPTANCE NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> (YYYYMMDD) 2009 / 09 / 18			

5. PERFORMANCE DATA															
WBS.Resp Org Group ORGANIZATIONAL CATEGORY (1)	ACTUAL CURRENT PERIOD (2)	ACTUAL END OF CURRENT PERIOD (Cumulative) (3)	FORECAST (Non-Cumulative)										AT COMPLETION (15)		
			SIX MONTH FORECAST BY MONTH (Enter names of months)						ENTER SPECIFIED PERIODS						
			+1 APR 2017 (4)	+2 MAY 2017 (5)	+3 JUN 2017 (6)	+4 JULY 2017 (7)	+5 AUG 2017 (8)	+6 SEPT 2017 (9)	1st Qtr FY18 (10)	FY18 (11)	FY19-LC (12)	ATCOMPLETE (13)			
35 - Business Services	0	17	0	0	0	0	0	0	0	0	0	0	0	0	17
3B - PFP Closure Project	5	15413	16	6	0	3	11	0	0	0	0	0	0	0	15449
g. TOTAL DIRECT	5	15430	16	6	0	3	11	0	0	0	0	0	0	0	15466

CLASSIFICATION (When Filled In)

CLASSIFICATION (When Filled In)

CONTRACT PERFORMANCE REPORT
 FORMAT 5 - Explanations and Problem Analysis

FORM APPROVED
 OMB No. 0704-0188

1. CONTRACTOR		2. CONTRACT		3. PROGRAM		4. REPORT PERIOD			
a. NAME CH2M HILL Plateau Remediation Company		a. NAME Plateau Remediation Contract		a. NAME MPB - RL_0011_C1 - PFP D&D (ARRA/Base)		a. FROM (YYYYMMDD) 2017/02/20			
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE		b. TO (YYYYMMDD) 2017/03/26			
c. TYPE CPAF		d. SHARE RATIO		c. EVMS ACCEPTANCE No X Yes		(YYYYMMDD) 2009 / 09 / 18			

Direct Projects									
5. Evaluation	Budget	Earned	Actuals	SV in \$	SV in %	CV in \$	CV in %	SPI	CPI
Current:	0	96	122	96	-27%	-26	-27%	-	0.79
Cumulative:	315,152	314,462	332,088	-690	-0.2%	-17,626	-5.6%	1.00	0.95
	BAC	EAC	VAC in \$	VAC in %	TCPI to BAC	TCPI to EAC			
At Complete:	315,152	332,525	-17,373	-5.5%	-	1.58			

Explanation of Variance/Description of Problem:

Current Period:
 Schedule Variance: The current month positive schedule variance is associated with working historical BCWS associated with glovebox preparation and removal activities in 234-5Z. the baeline assumed this scope would be completed by November 2016 but work was re-sequenced to optimize other critical path activities at the PFP Facility (i.e., rf ready for demo, 242-Z Ready for demo and 234-5Z duct level).

Cost Variance: The current month negative cost variance is associated with impacts from rotating the HC-7C glovebox requiring more extensive preparations fo removal than originally assumed.

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

Impact:
 Impact: The RL-011.C1 project baseline completion date is February 16, 2016. The current schedule now reflects a completion date of October 26, 2017. There was a 6 day gain for the month of March. This is due to recognized efficiencies associated with 242-Z demolition activities allowing removal of the final gloveboxes to occur earlier than the February reporting indicated.

The current RL-11 performance schedule indicates that the PFP project will achieve slab-on-grade by August 24, 2017. The PFP project gained 6 on the schedule from the February month end forecast completion date of the Tri-Party Agreement milestone for the PFP Project to reach Slab on Grade. This is as a result of recognized efficiencies associated with the 242-Z demolition activities allowing removal of te final gloveboxes to occur earlier than the February reporting indicated. Efficiencies have previously been identified in readying the 234-5Z facility for demolition wherein NDA and characterization data supports leaving more piping and ducting in place for demolition. In addition, efficiencies were recognized in 236-Z (PRF) wherein work was performed on filter boxes in parallel with the gallery gloveboxes allowing acceleration of the start of 236-Z demolition. This is turn accelerated when additional field team resources were reallocated from 236-Z to 234-5Z to get the facility ready for demolition. This is partially offset by delay in readying the 234-5Z facility for demolition as a result of lack of RCT resources. 234-5Z contains the gloveboxes requiring removal to meet the end state of the KPP and TPA milestone. The project expects to increase progress in the 234-5Z facility as all resources have been reassigned to complete the demo preparations in this facility. The PFP Project is currently on track to meet the re-negotiated TPA milestone M-083-00A due date of 9/30/17 for achieving slab-on-grade.

Cost Impact: The historical negative cost variance of ~\$17.6M and 5.6%, and CPI of .95 reflect impacts of the safety pauses, stop works, contamination events, and increased complexity of the HA-9A/HC-9B size reduction efforts. This variance is not considered recoverable. The cost variance is partially offset by recognized efficiencies in cleaning up the RMA/RMC control rooms after completion of the size reduction efforts of the 9A/9B gloveboxes. The EAC increased by \$94K the month of March which is insignificant.

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

Corrective Action:
 No Corrective Actions Required

- No Corrective Actions Required**
- Schedule Margin Analysis: There is no schedule margin associated with the RL-011.C1 capital asset account.
 - IMS Data dictionary Changes: None in the month of March.
 - Forecast Schedule with No Baseline: None in the month of March.
 - UB Balance: None in the month of March.
 - Negative ACWP: None in the month of March.
 - EAC Analysis: Best Case = \$332,525; Most Likely = \$334,918; Worst Case = \$335,171
 - Negative CV > VAC: Scope to perform size reduction efforts on the high gram glovebox removal efforts was estimated to be completed in a much shorter time frame with much fewer resources than originally planned causing the large Cost Variance. The EAC is reflective of the current approach to perform the remaining work scope.
 - MR Transactions: None in the month of March.
 - Freeze Period Changes: None in the month of March.
 - Retroactive Changes: None in the month of March.
 - EVT Changes: None in the month of March.

Prepared by: _____ Date: _____ Approved by: _____ Date: _____

Appendix C

Capital Asset Project

RL-0011.C2 - Demolition of PFP Facilities



T. E. Bratvold
Vice President for
Plutonium Finishing
Plant Closure
Project

March 2017
CHPRC-2017-03, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

Progress continued to work toward critical decision (CD)-4 closure as teams continued to ready the Plutonium Finishing Plant (PFP) facilities for demolition. Demolition on the Plutonium Reclamation Facility (PRF) began on November 8, 2016. Completion of all demolition activities will occur in August 2017.

The following are key metrics associated with this CAP.

<i>Key Metrics</i>	<i>Current Month Plan</i>	<i>Current Month Actuals</i>	<i>Cumulative Plan</i>	<i>Cumulative Actuals</i>
Complete Cold and Dark/Demo Ready activities for 234-5Z	-	-	1	-
COMPLETE Cold and Dark/Demo Ready activities for 236-Z	-	-	1	1
COMPLETE Cold and Dark/Demo Ready activities for 242-Z	-	-	1	1
Complete Cold and Dark/Demo Ready activities for 291-Z	-	-	1	-
Complete Cold and Dark/Demo Ready activities for PFP Ancillary Facilities	-	-	15	3
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	-	-	15	3
Turnover Facility to Long Term Surveillance & Maintenance	-	-	-	-

KEY ACCOMPLISHMENTS

RL-0011_C2 Accomplishments

- Demolition activities on the 242-Z facility are at 95 percent complete. Waste loadout activities are all that remain to finish this scope.
- Continued demolition activities on 236-Z Facility.

MAJOR ISSUES

- None currently identified.

CORRECTIVE ACTION LOG

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

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

- Opportunity currently realized, or mitigation efforts are currently working toward, or after risk trigger with no foreseeable impacts.
- Mitigation efforts are currently working toward risk trigger with the possibility of actions not in place prior to risk occurrence. Recovery actions may be needed.
- Risk currently realized, or risk mitigation efforts are past risk trigger date with foreseeable impacts. Recovery actions needed.

- ↑ Increased Confidence
- ↔ No Change
- ↓ Decreased Confidence

Risk Title Risk Owner	Unmitigated Risk Impacts	Assessment		Comments								
		Month	Trend									
RL-0011/WBS-011.05.C3 (CAP.2)												
Explanation of major changes to the project monthly spotlight chart: No major changes to the monthly spotlight chart in the month of March .												
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 Risk Handling Strategy: Accept Probability: Medium (26% to 74%) Worst Case Impacts: \$1 million, 66 day	●	↑	<p>Risk Event: This risk was realized when additional demolition equipment (telescoping fogger) was identified to be needed to mitigate the spread of contamination during demolition efforts. Excessive water puddling has caused issues in the drain systems and allowed water to enter into PFP facilities, raising the risk of losing contamination control. The fogger has the potential to become contaminated, so leasing is not an option and no other projects have one to loan.</p> <table border="1" style="width: 100%;"> <thead> <tr> <th>Risk Recovery Actions</th> <th>Risk Date</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Receipt of telescoping fogger</td> <td>11/30/2016</td> <td>Complete</td> <td>100</td> </tr> </tbody> </table> <p>Recovery Action Assessment: The telescoping fogger was received on 03/06/17 and QA approved ready for field use on 03/08/17. All recovery actions for this risk have been completed. It will no longer be reported on in April. The risk remains open and will continue to be managed and tracked until it no longer poses a threat.</p>	Risk Recovery Actions	Risk Date	FC Date	%	Receipt of telescoping fogger	11/30/2016	Complete	100
Risk Recovery Actions	Risk Date	FC Date	%									
Receipt of telescoping fogger	11/30/2016	Complete	100									
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)												
FY2017 Risk Triggers (Risk could be realized in FY2017)												
PFP-DEMO-05: Inclement Weather	Inclement weather, including moderate winds, low or high temperatures and thunderstorms will impact the demolition of PFP. Risk Handling Strategy: Accept Probability: Medium (26% to 74%) Worst Case Impacts: \$0K, 32 days *Cost increase will result in cost per day impacts from crews, and hotel load.	●	↔	<p>Risk Trigger: This risk was realized during the months of December, January, and February due to winter weather limiting demolition activities and causing site closures/early releases.</p> <table border="1" style="width: 100%;"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Obtain weather conditions for the area and adjust daily work scope/schedule accordingly</td> <td>Ongoing</td> <td>N/A</td> </tr> </tbody> </table> <p>Mitigation Assessment: Winter weather continues to impact PFP demolition activities. The project incurred a site closure day on February 9, 2017. There were also delays or early releases on February 8 and 15, 2017. The PFP project was also impacted due to increased snow removal, frozen water lines, and weather/temperature restrictions (freezing temperatures) on demolition activities. No impacts were realized in March and therefore this risk was removed as a realized risk. The risk remains critical due to upcoming high-wind and high-heat weather having the ability to impact the planned demolition. The PFP project will continue to adjust daily work scope to plan for projected weather impacts.</p>	Mitigation action(s)	FC Date	%	Obtain weather conditions for the area and adjust daily work scope/schedule accordingly	Ongoing	N/A		
Mitigation action(s)	FC Date	%										
Obtain weather conditions for the area and adjust daily work scope/schedule accordingly	Ongoing	N/A										
PFP-DEMO-21: Glovebox/Equipment Removal/Demolition Material Handling Event	A material handling event (e.g., dropped piece of process equipment) occurs during the PFP demolition resulting in cost impacts and schedule delays. Risk Handling Strategy: Accept Probability: Low (10% to 25%) Worst Case Impacts: \$150K, 30 days	●	↑	<p>Risk Trigger: During pre-demolition/demolition activities in FY2017.</p> <table border="1" style="width: 100%;"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>None identified at this time.</td> <td>N/A</td> <td>N/A</td> </tr> </tbody> </table> <p>Mitigation Assessment: No changes in the month of March. The mitigation strategies have been put in place; as a result, the risk strategy is to accept with no further mitigation actions identified at this time. PFP will continue to adhere to the CHPRC ISMS program/ hoisting and rigging program to include detailed analyses of potential hazards and identification of preventive measures to implement prior to starting the work. At this time, no alternative course of actions needed.</p>	Mitigation action(s)	FC Date	%	None identified at this time.	N/A	N/A		
Mitigation action(s)	FC Date	%										
None identified at this time.	N/A	N/A										

Risk Title Risk Owner	Unmitigated Risk Impacts	Assessment		Comments									
		Month	Trend										
RL-0011/WBS-011.05.C3 (CAP.2)													
PFP-DEMO-07: Removal/Extraction of Equipment Takes Longer Than Planned	Controlled demolition of equipment, gloveboxes, and portions of the crosscutting process support systems (i.e. ventilation) result in cost impacts, and schedule delays. Risk Handling Strategy: Control Probability: Likely (75% to 90%) Worst Case Impacts: \$1.5 million, 60 days	●	↔	<p>Risk Trigger: During pre-demolition/demolition activities in FY2017. Dates tracked in the FES.</p> <table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Identify and pre-rig equipment with lifting slings.</td> <td>06/30/17</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>06/30/17</td> <td>10</td> </tr> </tbody> </table> <p>Mitigation Assessment: No changes in the month of March. An effort will soon be taken to develop a removal path for several of the gloveboxes for Criticality Incredibility. If the opportunity presents itself additional gloveboxes currently slated for removal during demolition (e.g. HC-227S, HC227T) will be removed during pre-demolition as risk mitigation strategy. At this time, no alternative course of actions needed.</p>	Mitigation action(s)	FC Date	%	Identify and pre-rig equipment with lifting slings.	06/30/17	50	Initiate discussions early in the demo planning of the equipment being left in place for removal during demolish.	06/30/17	10
Mitigation action(s)	FC Date	%											
Identify and pre-rig equipment with lifting slings.	06/30/17	50											
Initiate discussions early in the demo planning of the equipment being left in place for removal during demolish.	06/30/17	10											
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)													
PFP-DEMO-12: PFP/PRF Demolition Contamination Levels	Contamination levels on the canyon walls, floors, ventilation ducts, and the remaining areas of PFP will be higher than expected, thus requiring more stringent controls than expected or larger than expected waste volumes. Resulting in cost impacts, and schedule delays. Risk Handling Strategy: Accept Probability: Medium (26% to 74%) Worst Case Impacts: \$1.5 million, 22 days	●	↔	<p>Risk Trigger: During pre-demolition/demolition activities in FY2017. Dates tracked in the FES.</p> <table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>None identified at this time.</td> <td>N/A</td> <td>N/A</td> </tr> </tbody> </table> <p>Mitigation Assessment: At the end of January 2017, contamination was discovered outside the HCA/ARA/RA Zone established for demolition of the Plutonium Reclamation Facility (PRF) after a Continuous Air Monitor (CAM) alarm sounded just outside the HCA/ARA/RA during relocation of the debris pile. This resulted in evaluation of employees from the zone and could have resulted in contamination of Plutonium Finishing Plant (PFP) personnel. As a result of this event and to incorporate lessons learned, future demolition work packages will be written to ensure the suppression misting instructions are stated clearly with no subjective verbiage. In addition, in-process monitoring of the pile/bucket will be incorporated during movement of the debris pile.</p>	Mitigation action(s)	FC Date	%	None identified at this time.	N/A	N/A			
Mitigation action(s)	FC Date	%											
None identified at this time.	N/A	N/A											
Unassigned Risks (Pending ownership of identified risks/opportunities)													
To ensure success of the project, ownership needs to be established to further identify and address potential impacts to project cost and schedule. There are cases when risks are identified but are outside the control and management of the contractor. However, CHPRC risk management process identifies all risks that could impact overall project success.													
PFP-DEMO-18: Level of Readiness Effort	<p>PFP Demolition activities and hazard categorization provide for a Readiness Assessment (RA); 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.</p> <p>CHPRC Comment: The rework required between the first submittal on May 26, 2015, through the resubmittal on August 27, 2015, and subsequent approval on October 8, 2015, has increased cost of demolition and impacted schedule. The additional cost is due to a technical difference in the readiness scoring by RL that is not consistent with historical scoring. The addition of a readiness team and performance of an exercise versus a drill have impacted the project. The additional requirements may represent realization of previously identified risk PRC-010, Requirements Change. Accordingly, CHPRC is entitled to an adjustment to cost and fee to implement the direction. In December, a notice of change was sent to RL for the potential change. The letter was re-submitted based on RL feedback. The notification was rescinded in CHPRC-1505557.1 - Rescind Notification of Change Based on Additional Requirements for Startup of Plutonium Finishing Plant Project Demolition. Therefore this risk will be closed and removed from the stoplight report starting next month.</p>												

CRITICAL PATH SCHEDULE

The PFP Critical Path Schedule starts with completing the final phase of demolition of the 242-Z facility. This is followed by continuing demolition of the fourth, third, second, and first floors of 236-Z, leading to demolition of the 236-Z Canyon. Once demolition of 236-Z is complete, demolition of the A-Labs portion of the 234-5Z facility begins. This leads to the following sequence for demolition on 234-5Z: RMA Process Lines, RMC Process Lines, and the RADTU & Basement areas. Once the 234-5Z has been demolished, the Tri-Party Agreement Milestone – M-083-00A - *PFP Facility Transition and Selection Disposition Activities* will have been met.

SCHEDULE MARGIN/MANAGEMENT RESERVE

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

CRITICAL DECISION MILESTONE STATUS

Number	Title	* Due Date	**Forecast Date	Status/ Comment
RL-011.C2	Completion Demolition of all PFP Facilities.	8/31/18	1/19/18	Progress continued to work toward CD-4 closure as teams continued to ready the PFP facilities for demolition. The PRF facility initiated demolition on November 1, 2016, and completion of demolition activities will occur in August 2017. There was a gain of 6 days March. This is due to recognized efficiencies on demolition-ready activities and demolition of the 242-Z Facility. As the PFP Project continues to make progress on the behind schedule critical path work scope being performed, it is expected that efficiencies will be recognized, evaluated, and as appropriate, implemented to help recover some of the schedule delays.

*Due date reflects CD-4 due date with DOE contingency.

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

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None to report at this time.

DOE ACTIONS / DECISIONS

None to report at this time.

RL-0011_C2

Contract Performance Reports

Format 1 - Work Breakdown Structure

Format 2 - Organizational Categories

Format 3 - Baseline

Format 4 - Staffing

Format 5 - Explanation and Problem Analysis



March 2017
CHPRC-2017-03, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

CLASSIFICATION (When Filled In)

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

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

1. CONTRACTOR		2. CONTRACT		3. PROGRAM		4. REPORT PERIOD	
a. NAME CH2M HILL Plateau Remediation Company		a. NAME Plateau Remediation Contract		a. NAME RL_0011_C2 PFP Demolition Capital Asset Project		a. FROM (YYYYMMDD) 2017 / 02 / 20	
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE		b. TO (YYYYMMDD) 2017 / 03 / 26	
c. TYPE CPAF		d. SHARE RATIO		c. EVMS ACCEPTANCE NO X YES (YYYYMMDD) 2009 / 09 / 18			

5. CONTRACT DATA								
a. QUANTITY 1	b. NEGOTIATED COST 51,683	c. ESTIMATED COST OF AUTHORIZED UNPRICED WORK 0	d. TARGET PROFIT/FEE 5,000	e. TARGET PRICE 56,683	f. ESTIMATED PRICE 50,690	g. CONTRACT CEILING 56,683	h. ESTIMATED CONTRACT CEILING 50,690	i. DATE OF OTB/OTS (YYYYMMDD)

6. ESTIMATED COST AT COMPLETION				7. AUTHORIZED CONTRACTOR REPRESENTATIVE			
MANAGEMENT ESTIMATE AT COMPLETION (1)		CONTRACT BUDGET BASE (2)		VARIANCE (3)		a. NAME (Last, First, Middle Initial) Dickerson, Kala K	
b. WORST CASE 59,456		51,683		5,994		b. TITLE Prime Contract Compliance Manager	
c. MOST LIKELY 45,690						c. SIGNATURE	
a. BEST CASE 42,718						d. DATE SIGNED (YYYYMMDD)	

8. PERFORMANCE DATA																
CAPN.PBS Control Account.PARS 2 WBS (2) ITEM (1)	CURRENT PERIOD					CUMULATIVE TO DATE					REPROGRAMMING ADJUSTMENTS			AT COMPLETION		
	BUDGETED COST		ACTUAL COST WORK PERFORMED	VARIANCE		BUDGETED COST		ACTUAL COST WORK PERFORMED	VARIANCE		COST VARIANCE	SCHEDULE VARIANCE	BUDGET	BUDGETED	ESTIMATED	VARIANCE
	WORK SCHEDULED (2)	WORK PERFORMED (3)	(4)	SCHEDULE (5)	COST (6)	WORK SCHEDULED (7)	WORK PERFORMED (8)	(9)	SCHEDULE (10)	COST (11)	(12a)	(12b)	(13)	(14)	(15)	(16)
RL-0011 Nuclear Mat Stab & Disp PFP																
RL_0011_C2.05 Disposition PFP Facility	114	1,633	2,451	1,519	-818	48,006	14,574	20,277	-33,432	-5,703	0	0	0	48,712	42,718	5,994
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	114	1,633	2,451	1,519	-818	48,006	14,574	20,277	-33,432	-5,703	0	0	0	48,712	42,718	5,994
f. MANAGEMENT RESERVE														2,971		
g. TOTAL	114	1,633	2,451	1,519	-818	48,006	14,574	20,277	-33,432	-5,703	0	0	0	51,683		

9. RECONCILIATION TO CONTRACT BUDGET BASELINE																
a. VARIANCE ADJUSTMENT																
b. TOTAL CONTRACT VARIANCE																
										-33,432	-5,703			51,683	42,718	8,965

CLASSIFICATION (When Filled In)

CLASSIFICATION (When Filled In)

**CONTRACT PERFORMANCE REPORT
FORMAT 2 - ORGANIZATIONAL CATEGORIES**

DOLLARS IN Thousands of \$

FORM APPROVED
OMB No. 0704-0188

1. CONTRACTOR		2. CONTRACT		3. PROGRAM		4. REPORT PERIOD	
a. NAME CH2M HILL Plateau Remediation Company		a. NAME Plateau Remediation Contract		a. NAME RL 0011 C2 PFP Demolition Capital Asset Project		a. FROM (YYYYMMDD) 2017 / 02 / 20	
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE		b. TO (YYYYMMDD) 2017 / 03 / 26	
c. TYPE CPAF		d. SHARE RATIO		c. EVMS ACCEPTANCE NO <input type="checkbox"/> X YES (YYYYMMDD) 2009 / 09 / 18			

WBS.Resp Org Group	CURRENT PERIOD						CUMULATIVE TO DATE					REPROGRAMMING ADJUSTMENTS			AT COMPLETION		
	BUDGETED COST		ACTUAL COST WORK PERFORMED (4)	VARIANCE		BUDGETED COST		ACTUAL COST WORK PERFORMED (9)	VARIANCE		COST VARIANCE (12a)	SCHEDULE VARIANCE (12b)	BUDGET (13)	BUDGETED (14)	ESTIMATED (15)	VARIANCE (16)	
	WORK SCHEDULED (2)	WORK PERFORMED (3)		SCHEDULE (5)	COST (6)	WORK SCHEDULED (7)	WORK PERFORMED (8)		SCHEDULE (10)	COST (11)							
3B - PFP Closure Project	114	1,633	2,451	1,519	-818	48,006	14,574	20,277	-33,432	-5,703	0	0	0	48,712	42,718	5,994	
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)	114	1,633	2,451	1,519	-818	48,006	14,574	20,277	-33,432	-5,703	0	0	0	48,712	42,718	5,994	
f. MANAGEMENT RESERVE														2,971			
g. TOTAL	114	1,633	2,451	1,519	-818	48,006	14,574	20,277	-33,432	-5,703	0	0	0	51,683			

CLASSIFICATION (When Filled In)

CLASSIFICATION (When Filled In)

**CONTRACT PERFORMANCE REPORT
FORMAT 4 - STAFFING**

Dollars in: FTE

FORM APPROVED
OMB No. 0704-0188
4. REPORT PERIOD
a. FROM (YYYYMMDD)
2017 / 02 / 20
b. TO (YYYYMMDD)
2017 / 03 / 26

1. CONTRACTOR		2. CONTRACT		3. PROGRAM	
a. NAME CH2M HILL Plateau Remediation Company		a. NAME Plateau Remediation Contract		a. NAME RL_0011_C2 PFP Demolition Capital Asset Project	
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE	
		c. TYPE CPAF	d. SHARE RATIO	c. EVMS ACCEPTANCE <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES (YYYYMMDD) 2009 / 09 / 18	

5. PERFORMANCE DATA

WBS.Resp Org Group ORGANIZATIONAL CATEGORY (1)	ACTUAL CURRENT PERIOD (2)	ACTUAL END OF CURRENT PERIOD (Cumulative) (3)	FORECAST (Non-Cumulative)										AT COMPLETION (15)	
			SIX MONTH FORECAST BY MONTH (Enter names of months)						ENTER SPECIFIED PERIODS					
			+1 APR 2017 (4)	+2 MAY 2017 (5)	+3 JUN 2017 (6)	+4 JULY 2017 (7)	+5 AUG 2017 (8)	+6 SEPT 2017 (9)	1st Qtr FY18 (10)	FY18 (11)	FY19-LC (12)	ATCOMPLETE (13)		
3B - PFP Closure Project	47	294	49	49	134	119	122	57	58	5	5	0	0	886
g. TOTAL DIRECT	47	294	49	49	134	119	122	57	58	5	5	0	0	886

CLASSIFICATION (When Filled In)

CLASSIFICATION (When Filled In)

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

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

1. CONTRACTOR		2. CONTRACT		3. PROGRAM		4. REPORT PERIOD	
a. NAME CH2M HILL Plateau Remediation Company		a. NAME Plateau Remediation Contract		a. NAME RL_0011_C2 PFP Demolition Capital Asset Project		a. FROM (YYYYMMDD) 2017/02/20	
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE		b. TO (YYYYMMDD) 2017/03/26	
c. TYPE CPAF		d. SHARE RATIO		c. EVMS ACCEPTANCE No X Yes (YYYYMMDD) 2009 / 09 / 18			

Direct Projects										
5. Evaluation	Budget	Earned	Actuals	SV in \$	SV in %	CV in \$	CV in %	SPI	CPI	
Current:		114.0	1,632.9	2,451.4	1,518.9	1332.8%	-818.5	-50.1%	14.33	0.67
Cumulative:		48,006.4	14,574.4	20,277.3	-33,432.0	-69.6%	-5,702.9	-39.1%	0.30	0.72
	BAC	EAC	VAC in \$	VAC in %	TCPI to BAC	TCPI to EAC				
At Complete:	48,711.9	42,718.3	5,993.5	12.3%	1.20	1.52				

Explanation of Variance/Description of Problem:

Current Month:

Schedule Variance: The current month positive schedule variance is due to performance of behind schedule demolition work scope associated with the demolition of 236-ZA and 242-Z. This scope was to be performed in the 3rd quarter of 2016 in the PMB baseline schedule, however, delays in getting 236-Z ready for demolition negatively impacted the start of both 236-Z and 242-Z demolition. Demolition of 236-Z is currently scheduled to complete on June 26 2017. 242-Z has been physically demolished with waste load out activities remaining to complete this historical work scope. These activities are scheduled to complete on March 29, 2017. This is partially offset by delay of the demobilization and installation of the cover cap following all demolition activities. This work has been significantly impacted due to delays in getting 236-Z, 242-Z, 291-Z and 234-5Z ready for demolition and cannot occur until all buildings are demolished. Demobilization and the cover cap are targeted to complete on October 18, 2017.

Cost Variance: The current month cost variance is due to increased overtime to recover from a minor contamination event during the demolition of 242-Z. The recovery actions and final waste load out of the facility are expected to complete on March 29, 2017. In addition, cross cutting work scope (apportioned) impacts from equipment failures, and the recovery from the minor 242-Z contamination event are also contributing to this variance.

Cumulative to Date:

Schedule Variance: The cumulative schedule variance is due to delay of demolition of ancillary buildings and 236-Z caused by resources being redirected to support higher priority critical path work associated with decommissioning of 234-5Z, 242-Z, and 236-Z, as well as ready for demo activities associated with impacts from 236-Z Canyon Crane failure, contamination impacts from an unplanned criticality alarm failure, contamination recovery in the duct level of 234-5Z (two week delay in July 2016) and increased characterization efforts. The contract to date negative schedule variance is due to work scope associated with the demolition of 236-Z, 242-Z, 291-Z, and 234-5Z not being performed as originally scheduled. The demolition of these facilities has been delayed due to resources being redirected to support ready for demolition activities (project critical path work). As a result of delays in the ready for demolition activities, the C2 CD-4 has been delayed. However, the TPA milestone M-083-00A has been re-negotiated to a due date of 9/30/2017 and is expected to be achieved. This is partially offset by the completion of demolition of the 2729-Z, and 2727-Z facilities, removal of gloveboxes, the completion of demolition activities for the 5th floor, 6th floor, 60% of the 4th floor, and South Canyon Airlock of 236-Z, demolition of 242-ZA, and progress on the demolition of the 242-Z facility.

Cost Variance: The cumulative negative cost variance is associated with MSA subcontracted resources arriving to support PFP demolition that had a planned as P/Q shift support with a baseline start date of February 2016. Because the project is behind schedule in initiating demolition activities, and because the decision was made not to execute demolition activities for the PRF/242-Z facilities on P/Q shift, these resources currently have limited work to support which contributes to inability to take performance until the ready for demolition work scope is completed. To ensure that the project is able to continue demolition activities as identified in the current schedule, these costs will continue to be realized resulting in a potential unrecoverable cost variance. Additionally, Readiness Assessment activities lagged due to a delay in the start of 236-Z Demolition and increased requirements to show readiness resulting in increased costs due to additional time and effort required from subcontracted and direct labor resources. In addition, the apportioned project management activities (i.e. project oversight and planning) and support activities are ongoing, while a delay in the discrete field work is resulting in minimal apportioned BCWP. Finally, demolition mobilization activities took longer than originally assumed because of recommendations made during the readiness assessment and purchasing unplanned PBS fixative to support 236-Z demolition. In addition, significant winter weather impacts have been recognized on the Hanford Site. Site closures, freezing temperatures and significant snowfall that required clearing of the demolition zone rather than performing physical demolition on the facilities while a constant staff provides demolition support services is the contributing factor, as a result of the weather impacts and an unexpected contamination event in the PRF demolition zone. This is partially offset by recognized efficiencies associated with the demolition of the 2727-Z and 2729-Z facilities.

Impact:

Schedule Impact: Work efforts in getting 234-5Z ready for Cold & Dark resulted in a gain of 6 days for the month of March. This is a result of recognized efficiencies on the demolition of the 242-Z facility. As the PFP Project continues to make progress on the behind schedule critical path work scope being performed, it is expected efficiencies will be recognized, evaluated, and implemented to recover schedule delays. The baseline completion date is not considered recoverable. The TPA Milestone TPA-083-00A, complete PFP facility transition and selected disposition activities of September 30, 2017 and is expected to be achieved.

Cost Impact: Stop Works, Safety Pauses, multiple contamination events, the PRF Crane failure, and associated recovery actions have negatively impacted the field work to ready 234-5Z, 236-Z, 242-Z, and 291-Z for demolition. In addition, readiness activities took longer than originally assumed as a result of increased requirements required by the Readiness Assessment team to demonstrate readiness for demolition of the PRF facility and efforts to mobilize took longer than originally assumed as a result of implemented recommendations from the readiness assessment team. Finally, subcontracted MSA resources specializing in facility demolition continue to charge the project until ready for demo status is achieved. In addition an unexpected contamination event that occurred during demolition of the PRF facility, and 242-Z has contributed to the cost impacts on this project. Recovery actions have been reviewed and have been put in place to recover this impact.

The positive VAC is reflective of working one shift during demolition of 236-Z and 242-Z facilities rather than two as planned in the PMB. In addition, the duration for demolition of 234-5Z has been adjusted as it has been determined that due to the time of year demolition will occur, the number of days to demolish the facility will be less than originally planned. This reduces the amount of demolition and supervision labor resources needed, resulting in the reduction of EAC to BCWS values. The projected net EAC impact of \$566K since February is the result of procurement of two fuel tanks and pumps for fueling efficiency and two buckets for the front end loaders. A BCR drawing down on Management Reserve for the two front end loader buckets was processed during February to add the scope to the baseline. This will help to ensure that the TPA Milestone M-083-00A to reach slab on grade condition by 9/30/17 is met.

Corrective Action:

Cost: MSA subcontracted resources (e.g., Heavy Equipment Operators, Crane Operators, Mechanics, etc.) will be loaned out to other CHPRC and other Hanford contractors when the PFP project can support the needs of others and this offset unnecessary costs to the PFP Project. Action Ruben Trevino due 6/30/17

Schedule: Since weather impacts cannot be prevented and the mechanical failures were expected after reintroducing the equipment into service after sitting idle for an extended period of time, the only recovery is to work overtime when appropriate to attempt to recover schedule. Action: Ruben Trevino due 5/31/2017

Initiate demolition of the 234-5Z facility efficiently on P/Q shift. Action Ruben Trevino 5/30/2017

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

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

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

1. Schedule Margin Analysis: In the EAC there is currently no remaining schedule margin in this capital asset account. Schedule margin was lost in March 2016 as a result of impacts from stop works associated with PremAire breathing air issues related to size reduction of the HA-9A glovebox and impacts from a safety pause associated with a PremAire Breathing Air radiological event resulting in increased survey requirements for PPE and a requirement for removing additional asbestos in the 234-5Z facility prior to demolition activities commencing.
2. IMS Data dictionary Changes: No change in the month of March
3. Forecast Schedule with No Baseline: No change in the month of March
4. UB Balance: No change in the month of March
5. Negative ACWP: No change in the month of March
6. EAC Analysis: Best Case = \$42,718; Most Likely = \$45,690; Worst Case = \$59,456
7. Negative CV > VAC: No change in the month of March
8. MR Transactions: BCR-011C-17-008R0 - PFP CAP 2 "Demolition Equipment MR Draw - Clamp Buckets" utilizes Management Reserve (MR) to provide budget associated with procurement of additional equipment to support demolition activities. Realization of risk PFP-DEMO-23 "Demolition Equipment Reliability and/or Modification," reflects the change in baseline assumptions. MR is justified for the unplanned in-scope work to procure two additional front end loader clamp buckets to recover from a contamination event and to mitigate future risks associated with contamination of equipment.
9. Freeze Period Changes: BCR-011C-17-008R0 - PFP CAP 2 "Demolition Equipment MR Draw - Clamp Buckets" impacted the freeze period, however as identified in Project Control system descriptions, emerging risks are excluded from the freeze period restriction.
10. Retroactive Changes: No change in the month of March
11. EVT Changes: No change in the month of March

Prepared by:

Date:

Approved by:

Date:

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



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

March 2017
CHPRC-2017-03, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

M. A. Wright
Vice President for
Project Technical
Services

PROJECT SUMMARY

Based upon discussions between RL and CHPRC Senior Management, the Sludge Treatment Project (STP) Team has modified the Field Execution Schedule (FES) to implement acceleration opportunities that could facilitate the transfer of all sludge to T Plant in fiscal year (FY) 2018. On March 27, 2017, CHPRC formally submitted letter CHPRC-1701045R1 - *Contract Number DE-AC06-08RL14788 – Change Proposal CP 012 PRC 1646, Revision 0, Sludge Removal Project Acceleration of 105KW and T Plant* for RL approval. In order to meet the accelerated schedule, support from CHPRC and RL is required for the following assumptions:

- Significant overtime/weekend work is required to reduce schedule duration.
- Approval of the integrated 105K West Documented Safety Analysis (DSA) must not impact project critical path. This integrated DSA/ technical safety requirement (TSR) includes as-built information from installation activities and therefore a subsequent “as-built” DSA/TSR submittal is not required.
- Sludge Removal Project (SRP) CD-4 approval must occur concurrently with commencing sludge retrieval operations.
- Approval of T Plant safety documentation must be completed within 120 days of submittal.
- To demonstrate the current forecast date of Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) M-016-175, *Begin sludge removal from 105-KW Fuel Storage Basin*, the milestone has been disconnected from the risk analysis schedule margin. The current, non-risk adjusted forecast date to begin sludge removal is January 19, 2018.

Installation of process hardware completed in March 2017, with K Basin Preoperational Acceptance Testing (KPAT) scheduled to begin in mid-April 2017.

Project breakdown structure (PBS) RL-0012 scope is over 85 percent complete and performance to date is positive with a cumulative Schedule Performance Index (SPI) of 1.00 and a cumulative Cost Performance Index (CPI) of 1.05.

KEY ACCOMPLISHMENTS

RL-0012 C1 1 Accomplishments

KW Basin Sludge Retrieval Capital Assest Project

- KW Annex Construction (Project Technical Services (PTS))
 - Completed re-route and installation of northwest exterior downspout.
 - Completed installation of 105 KW rail protection around exterior nitrogen storage system.
 - Completed testing, adjusting, and balancing of the heating, ventilation, and air conditioning (HVAC) system.
 - Completed gathering HVAC equipment vibration baseline data to support completion of the Testing and Balancing (TAB) report.
 - Completed mechanical and electrical installation of supplemental cooling system.
 - Completed handrail modification around Mezzanine floor penetration for hoses.
 - Completed repair on Sludge Transport & Storage Container (STSC) cable plug, reinstalled cask lid, and removed trailer from loading bay and staged East of Annex.
 - Removed the front north plate from the sand filter-shielding box to support future KPAT activities.

- KW Basin In Basin Construction (PTS)
 - Completed vestibule pass-through door modification.
 - Completed painting of handrails/toe boards at northeast Corner and above the Engineered Containers.
 - Completed energizing Basin and Room 20A panels to support Pre-KPAT Checkouts.
 - Completed annual inspection and installed new tags on both Hydrolance Deployment Beam assemblies.
- Resolution of remaining DSA and TSR comments continues. A review with the Safety Basis Review Team (SBRT) of draft documents with all comments incorporated is scheduled the week of April 10, 2017. The DSA/TSR must be approved and implemented prior to integrated KPAT activities that transfer 105K West Basin water into the 105K West Annex.
- The Maintenance and Storage Facility (MASF) Pre-operational Acceptance Test (MPAT) Report was approved by the STP, Joint Test Group on January 31, 2017, however, comment incorporation and issuance has been given a lower priority than development and approval of KPAT Specifications/Procedures. The MPAT Test Report is forecast to complete in April 2017.
- KPAT specification development, review, and approval efforts continued. There will be a total of 14 specifications and one procedure required. All specifications and the test procedure that executed testing steps are forecast to be approved in mid-April as additional reviews were required.
- Engineered Container Retrieval and Transfer System (ECRTS) Procurement: STSC Vessels and Installation of STSC Instrumentation/Appurtenances continued through the fiscal month. The project is on track to complete the first 12 STSC Assemblies by September 30, 2017. American Boiler Works (ABW) will also complete fabrication of the final 11 STSC Shells by September 30, 2017. Once the final 11 STSC shells are fabricated, they will be transported to HiLine for installation of associated instrumentation and appurtenances.
- Progress continues in development of the Operations and Maintenance Procedures supporting sludge removal and packaging operations. Nuclear Chemical Operator (NCO), Subject Matter Expert (SME) qualifications completed in March.
- Readiness documentation development continued as planned.

MAJOR ISSUES

Sludge Removal Project

Issue:

Iron contamination was discovered in STSCs that had previously been accepted by Mission Support Alliance (MSA) Acquisition Verification Services (AVS) final inspections.

Corrective Action:

A causal analysis and corrective action plan were completed to ensure all STSCs are tested, cleaned as necessary, and declared free of iron contamination.

Status: Issue Closed

1. STSC 410-413 were cleaned, retested, and accepted by CHPRC - Complete.
2. STSC 402-403 remain at HiLine (with instrumentation/appurtenances installed) and will be tested, cleaned, and retested by HiLine personnel, due to the difficulty and expense of returning these vessels to Arlington, WA, with instrumentation and appurtenance installed. This work will complete prior to the end of April.

3. STSC 404-409 have been shipped back to Arlington, WA, for testing, cleaning, and retesting, as appropriate. STSC 405 and 406 were completed February 23, 2017, and STSC 404, and 407-409 will be completed in April.
4. STSC 414-424 will be tested for free-iron, cleaned, and retested, as appropriate – forecasted delivery by September 2017.

Sludge Removal Project

Issue:

The schedule for resolving RL Safety Basis Review Team (SBRT) comments on the 105K West Basin/Annex DSA/TSR is slipping, putting the activity in jeopardy of negatively impacting the KPAT Integrated Test and SRP critical path.

Corrective Action:

Continue working closely with the RL SBRT to resolve comments as expeditiously as possible. Expedite comment incorporation, CHPRC internal approval of the update DSA/TSR Package, and RL approval of that package.

Status:

CHPRC is forecasting a completion date for having all RL SBRT comments incorporated and the document ready to be retransmitted to RL by April 13, 2017. Additional time has been required due to unresolved comments.

CORRECTIVE ACTION LOG

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

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change

- Opportunity currently realized, or mitigation efforts are currently working toward, or after risk trigger with no foreseeable impacts.
- Mitigation efforts are currently working toward risk trigger with the possibility of actions not in place prior to risk occurrence. Recovery actions may be needed.
- Risk currently realized, or risk mitigation efforts are past risk trigger date with foreseeable impacts. Recovery actions needed.

- ↑ Increased Confidence
- ↔ No Change
- ↓ Decreased Confidence

Risk Title	Unmitigated Risk Impacts	Assessment		Comments																								
		Month	Trend																									
RL-0012/WBS-012 (CAP)																												
Explanation of major changes to the project monthly spotlight chart: No major changes to the monthly spotlight chart in the month of March .																												
Realized Risks (Risks that are currently impacting project cost/schedule)																												
STP-072: Delayed STSC/ECRTS Procurement & Delivery	Material delivery and fabrication issues at ECRTS vendor facilities delay the delivery of the components to the Sludge Treatment Plant (STP) resulting in cost impacts and schedule delays. Additionally, discovery of additional components requiring fabrication results in deliveries that challenge project baseline schedules. Risk Handling Strategy: Control Probability: Very Likely (>90%) Worst Case Impacts: \$3,000K 120 days	●	↑	<p>Risk Event: Event 1: In order to establish a reliable Sludge Transportation System Cask configuration capable of meeting the project’s needs, several ports must be reconfigured to ensure reliable leak-tight integrity. This discovery was outside of baseline material procurement plans.</p> <table border="1"> <thead> <tr> <th>Risk recovery action(s)</th> <th>Risk Date</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Event 1 - Finalize Field FES activities dates consistent with change orders</td> <td>12/7/16</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Complete Procurement/Fabrication</td> <td>12/7/16</td> <td>03/31/17</td> <td>90</td> </tr> <tr> <td>Deliver equipment to 100K Area</td> <td>12/7/16</td> <td>03/31/17</td> <td>90</td> </tr> <tr> <td>Replace STS Cask Seals</td> <td>12/7/16</td> <td>07/31/17</td> <td>0</td> </tr> <tr> <td>Conduct post repair leak test.</td> <td>12/7/17</td> <td>07/31/17</td> <td>0</td> </tr> </tbody> </table> <p>Recovery Action Assessment: Event 1: New seals and bolts delivered on 3/31/17. Cask seal repair planned prior to 7/3/17. Proof test on new seal will likely be delayed until fabrication and qualification of Cask Leak Test Tool is qualified by Nondestructive examination (NDE) Contractor.</p>	Risk recovery action(s)	Risk Date	FC Date	%	Event 1 - Finalize Field FES activities dates consistent with change orders	12/7/16	Complete	100	Complete Procurement/Fabrication	12/7/16	03/31/17	90	Deliver equipment to 100K Area	12/7/16	03/31/17	90	Replace STS Cask Seals	12/7/16	07/31/17	0	Conduct post repair leak test.	12/7/17	07/31/17	0
Risk recovery action(s)	Risk Date	FC Date	%																									
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Replace STS Cask Seals	12/7/16	07/31/17	0																									
Conduct post repair leak test.	12/7/17	07/31/17	0																									
STP-067A Safety Classification of SSCs - DSA/TSR	RL approval of the Documented Safety Analysis (DSA)/Technical Safety Requirements (TSR) takes longer than the assumptions planned for in the baseline. Risk Handling Strategy: Control Probability: Very Likely (>90%) Worst Case Impacts: \$3,000K 120 days	●	↑	<p>Risk Event: CHPRC sent the DSA and TSR to RL for review and approval on October 20, 2016 in letter CHPRC-1604692. RL rejected this submittal via correspondence 1700081A/17-NSD-0006. The Original project baseline included 120 calendar days for RL to approve the safety basis document; however, it has now been 151 days (as of 3/19/17) with formal approval still not imminent.</p> <table border="1"> <thead> <tr> <th>Risk recovery action(s)</th> <th>Risk Date</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Solicit Senior RL & CHPRC involvement in resolving deficiencies.</td> <td>1/28/17</td> <td>As Needed</td> <td>N/A</td> </tr> <tr> <td>Conduct interface meetings between RL Safety Basis Review Team (SBRT) & CHPRC Nuclear Safety personnel to negotiate a product that is acceptable to RL.</td> <td>1/28/17</td> <td>4/13/17</td> <td>55</td> </tr> <tr> <td>CHPRC to appoint an independent facilitator to assist in resolution of RL comments.</td> <td>1/28/17</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Prepare a change order to obtain Management Reserve for realized risk.</td> <td>1/28/17</td> <td>Complete</td> <td>100</td> </tr> </tbody> </table> <p>Recovery Action Assessment: RL & CHPRC Senior Management have met multiple times in an attempt to resolve differences on the DSA/TSR Submittal. All DSA/TSR comments have been dispositioned as of 2/17/17. Obtaining RL concurrence on comment resolution continues to slip and is now forecasted to complete 4/13/17. CHPRC and RL agreed to commission an independent facilitator (who arrived 3/9/17) to assist in resolving RL comments against the DSA/TSR Submittal. Efforts continue to produce a product acceptable to the SBRT.</p>	Risk recovery action(s)	Risk Date	FC Date	%	Solicit Senior RL & CHPRC involvement in resolving deficiencies.	1/28/17	As Needed	N/A	Conduct interface meetings between RL Safety Basis Review Team (SBRT) & CHPRC Nuclear Safety personnel to negotiate a product that is acceptable to RL.	1/28/17	4/13/17	55	CHPRC to appoint an independent facilitator to assist in resolution of RL comments.	1/28/17	Complete	100	Prepare a change order to obtain Management Reserve for realized risk.	1/28/17	Complete	100				
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Prepare a change order to obtain Management Reserve for realized risk.	1/28/17	Complete	100																									

Risk Title	Unmitigated Risk Impacts	Assessment		Comments															
		Month	Trend																
RL-0012/WBS-012 (CAP)																			
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)																			
No critical risks identified in the month of March .																			
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)																			
FY2017 Risk Triggers (Risk could be realized in FY2017)																			
STP-103: K Basin Pre-Operational Acceptance Testing (KPAT) & ECRTS Startup	The ECRTS equipment does not operate as expected, requiring increased engineering, startup, operations, and construction. Firm Fixed Price contractor support; as well as equipment replacement, procurement, and retesting. Realization of this risk would also require additional training, procedure revision, and design modifications as a result of construction testing and/or Lines of Inquiry for Readiness Review resulting in cost impacts and schedule delays. Risk Handling Strategy: Control Probability: Medium (26% to 74%) Worst Case Impacts: \$4.5 million, 90 days			Risk Trigger: 1) The ECRTS equipment does not operate as expected. 2) Unexpected attrition of critical testing personnel.															
		<table border="1"> <thead> <tr> <th>Mitigation action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Develop and refine procedures based upon feedback from testing and operations personnel.</td> <td>4/13/17</td> <td>75</td> </tr> <tr> <td>Develop streamline strategy (work packages and procedures) to perform in-basin/annex integrated testing and troubleshooting.</td> <td>3/30/17</td> <td>35</td> </tr> <tr> <td>Utilize Overtime to offset schedule impacts.</td> <td>As Needed</td> <td>N/A</td> </tr> <tr> <td>Closely monitor employee satisfaction and consider employee incentive to retain key test personnel.</td> <td>As Needed</td> <td>N/A</td> </tr> </tbody> </table>			Mitigation action(s)	FC Date	%	Develop and refine procedures based upon feedback from testing and operations personnel.	4/13/17	75	Develop streamline strategy (work packages and procedures) to perform in-basin/annex integrated testing and troubleshooting.	3/30/17	35	Utilize Overtime to offset schedule impacts.	As Needed	N/A	Closely monitor employee satisfaction and consider employee incentive to retain key test personnel.	As Needed	N/A
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Utilize Overtime to offset schedule impacts.	As Needed	N/A																	
Closely monitor employee satisfaction and consider employee incentive to retain key test personnel.	As Needed	N/A																	
Mitigation Assessment: Forecasted mitigation dates slipped two weeks as scope was found to be more extensive and difficult to complete than planned. Dates are driving the STP critical path.																			
Unassigned Risks (Pending ownership of identified threats/opportunities)																			
No unassigned risks identified in the month of March .																			

CRITICAL PATH SCHEDULE

The critical path flows through preparation for and performance of the KPAT. Following a successful Operational Readiness Review, RL will provide Authorization to Commence Retrieval Operations in parallel with the DOE HQ review/approval of CD-4. Completing retrieval operations, including the filling of STSCs with sludge and transferring them to T Plant, to complete Tri-Party Agreement Milestone M-016-176, *Complete Sludge Removal from 105-KW Fuels Storage Basin*, is outside the current contract period in FY2019, however the Project is implementing acceleration strategies to complete all sludge retrievals by September 30, 2018.

SCHEDULE MARGIN/MANAGEMENT RESERVE

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

CRITICAL DECISION MILESTONE STATUS

Number	Title	*Due Date	**Forecast Date	Status/ Comment
15-D-401	CD-4, Project Completion	11/30/2019	7/23/2018	The forecast date includes schedule margin from the Project's risk analysis. Project schedule margin is 123 days. The current forecast date before schedule margin and allowance for CD 4 is 1/19/2018.

*Due date reflects CD-4 due date with DOE contingency.

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

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.

DOE ACTIONS / DECISIONS

Description	CHPRC Delivery Date	RL Due Date
RL Review & Comment on Emergency Planning Hazard Assessment (EPHA)	4/27/17	5/04/17
RL Issue SER for Integrated KW Basin DSA/TSR	4/29/17	5/05/17
RL Concur on Integrated DSA/TSR Comment Resolution	2/17/17 (A)	4/13/17
RL Prepare Integrated DSA/TSR SER	4/14/17	4/25/17
RL SRB Review of Integrated DSA/TSR	4/28/17	4/28/17
RL Approve / Comment Plan of Action (POA) - K-Basins	4/04/17	5/03/17
RL Final Approval of POA - K-Basins	5/16/17	5/22/17
RL Review and Approve MDSA and TSR Rev. 12	12/01/16 (A)	3/30/17
RL Approve Revised MDSA TSR Rev. 12/Receive SER (includes ESS approval)	4/25/17	5/01/17
RL Approval of EALs	6/06/17	7/05/17
RL Approve OTRS	4/07/17	5/31/17

RL-0012_C1_1

Contract Performance Reports

Format 1 - Work Breakdown Structure

Format 2 - Organizational Categories

Format 3 - Baseline

Format 4 - Staffing

Format 5 - Explanation and Problem Analysis



March 2017
CHPRC-2017-03, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

CLASSIFICATION (When Filled In)

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

DOLLARS IN Thousands of \$

FORM APPROVED
OMB No. 0704-0188

1. CONTRACTOR		2. CONTRACT		3. PROGRAM		4. REPORT PERIOD	
a. NAME CH2M HILL Plateau Remediation Company		a. NAME Plateau Remediation Contract		a. NAME 15_D_401 KW Basin Sludge Removal Project		a. FROM (YYYYMMDD) 2017 / 02 / 20	
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE		b. TO (YYYYMMDD) 2017 / 03 / 26	
		c. TYPE CPAF		d. SHARE RATIO		c. EVMS ACCEPTANCE NO <input type="checkbox"/> X YES (YYYYMMDD) 2019 / 09 / 18	

5. CONTRACT DATA								
a. QUANTITY 1	b. NEGOTIATED COST 295,873	c. ESTIMATED COST OF AUTHORIZED UNPRICED WORK 0	d. TARGET PROFIT/FEE 7,950	e. TARGET PRICE 303,823	f. ESTIMATED PRICE 297,228	g. CONTRACT CEILING 303,823	h. ESTIMATED CONTRACT CEILING 297,228	i. DATE OF OTB/OTS (YYYYMMDD)

6. ESTIMATED COST AT COMPLETION				7. AUTHORIZED CONTRACTOR REPRESENTATIVE					
MANAGEMENT ESTIMATE AT COMPLETION (1)		CONTRACT BUDGET BASE (2)		VARIANCE (3)		a. NAME (Last, First, Middle Initial) Dickerson, Kala K		b. TITLE Prime Contract Compliance Manager	
a. BEST CASE 283,212						c. SIGNATURE		d. DATE SIGNED (YYYYMMDD)	
b. WORST CASE 292,151									
c. MOST LIKELY 289,278		295,873		6,595					

8. PERFORMANCE DATA																
CAPN.PBS Control Account.PARS 2 WBS (2)		CURRENT PERIOD					CUMULATIVE TO DATE					REPROGRAMMING ADJUSTMENTS			AT COMPLETION	
ITEM (1)	BUDGETED COST		ACTUAL COST WORK PERFORMED (4)	VARIANCE		BUDGETED COST		ACTUAL COST WORK PERFORMED (9)	VARIANCE		COST VARIANCE (12a)	SCHEDULE VARIANCE (12b)	BUDGET (13)	BUDGETED (14)	ESTIMATED (15)	VARIANCE (16)
	WORK SCHEDULED (2)	WORK PERFORMED (3)	SCHEDULE (5)	COST (6)	WORK SCHEDULED (7)	WORK PERFORMED (8)	SCHEDULE (10)	COST (11)								
RL-0012 SNF Stabilization & Disp																
RL_0012_C1_1.16 Sludge Treatment Project	0	0	0	0	0	156,861	156,861	156,760	0	101	0	0	0	156,861	156,760	101
RL_0012_C1_1.17 D-401 KW Basin Sludge Removal Project	4,208	3,683	4,057	-526	-374	103,947	106,556	97,943	2,609	8,613	0	0	0	132,775	126,452	6,323
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	4,208	3,683	4,057	-526	-374	260,808	263,417	254,703	2,609	8,715	0	0	0	289,636	283,212	6,425
f. MANAGEMENT RESERVE														6,067		
g. TOTAL	4,208	3,683	4,057	-526	-374	260,808	263,417	254,703	2,609	8,715	0	0	0	295,703		

9. RECONCILIATION TO CONTRACT BUDGET BASELINE																
a. VARIANCE ADJUSTMENT																
b. TOTAL CONTRACT VARIANCE																
										2,609	8,715			295,703	283,212	12,491

CLASSIFICATION (When Filled In)

CLASSIFICATION (When Filled In)

**CONTRACT PERFORMANCE REPORT
FORMAT 2 - ORGANIZATIONAL CATEGORIES**

DOLLARS IN Thousands of \$

FORM APPROVED
OMB No. 0704-0188

1. CONTRACTOR		2. CONTRACT		3. PROGRAM		4. REPORT PERIOD	
a. NAME CH2M HILL Plateau Remediation Company		a. NAME Plateau Remediation Contract		a. NAME 15_D_401 KW Basin Sludge Removal Project		a. FROM (YYYYMMDD) 2017 / 02 / 20	
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE		b. TO (YYYYMMDD) 2017 / 03 / 26	
c. TYPE CPAF		d. SHARE RATIO		c. EVMS ACCEPTANCE NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> (YYYYMMDD) 2019 / 09 / 18			

WBS.Resp Org Group	CURRENT PERIOD						CUMULATIVE TO DATE						REPROGRAMMING ADJUSTMENTS			AT COMPLETION		
	BUDGETED COST		ACTUAL COST WORK PERFORMED (4)	VARIANCE		BUDGETED COST		ACTUAL COST WORK PERFORMED (8)	VARIANCE		COST VARIANCE (12a)	SCHEDULE VARIANCE (12b)	BUDGET (13)	BUDGETED (14)	ESTIMATED (15)	VARIANCE (16)		
	WORK SCHEDULED (2)	WORK PERFORMED (3)		SCHEDULE (5)	COST (6)	WORK SCHEDULED (7)	WORK PERFORMED (8)		SCHEDULE (10)	COST (11)								
3G - K Basin Oper & Plateau Remediation Project	4,208	3,683	4,057	-526	-374	260,808	263,417	254,703	2,609	8,715	0	0	0	289,636	283,212	6,425		
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																		
e. SUBTOTAL (Performance Measurement Baseline)	4,208	3,683	4,057	-526	-374	260,808	263,417	254,703	2,609	8,715	0	0	0	289,636	283,212	6,425		
f. MANAGEMENT RESERVE														6,067				
g. TOTAL	4,208	3,683	4,057	-526	-374	260,808	263,417	254,703	2,609	8,715	0	0	0	295,703				

CLASSIFICATION (When Filled In)

CLASSIFICATION (When Filled In)

**CONTRACT PERFORMANCE REPORT
FORMAT 4 - STAFFING**

Dollars in: FTE

FORM APPROVED
OMB No. 0704-0188

1. CONTRACTOR		2. CONTRACT		3. PROGRAM		4. REPORT PERIOD	
a. NAME CH2M HILL Plateau Remediation Company		a. NAME Plateau Remediation Contract		a. NAME 15_D_401 KW Basin Sludge Removal Project		a. FROM (YYYYMMDD) 2017 / 02 / 20	
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE		b. TO (YYYYMMDD) 2017 / 03 / 26	
		c. TYPE CPAF		d. SHARE RATIO		c. EVMS ACCEPTANCE NO <input type="checkbox"/> X YES (YYYYMMDD) 2019 / 09 / 18	

5. PERFORMANCE DATA														
WBS.Resp Org Group ORGANIZATIONAL CATEGORY (1)	ACTUAL CURRENT PERIOD (2)	ACTUAL END OF CURRENT PERIOD (Cumulative) (3)	FORECAST (Non-Cumulative)											AT COMPLETION (15)
			SIX MONTH FORECAST BY MONTH (Enter names of months)						ENTER SPECIFIED PERIODS					
			+1 APR 2017 (4)	+2 MAY 2017 (5)	+3 JUN 2017 (6)	+4 JULY 2017 (7)	+5 AUG 2017 (8)	+6 SEPT 2017 (9)	1st Qtr FY18 (10)	FY18 (11)	FY19-LC (12)	ATCOMPLETE (13)		
3G - K Basin Oper & Plateau Remediation Project	83	6694	94	90	88	91	91	84	165	94	0	0	0	7491
g. TOTAL DIRECT	83	6694	94	90	88	91	91	84	165	94	0	0	0	7491

CLASSIFICATION (When Filled In)

