

Monthly Performance Report

June 2020

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

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

CH2MHILL
Plateau Remediation Company

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

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APPROVED

By Julia Raymer at 2:44 pm, Jul 23, 2020

Release Approval

Date

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CH2MHILL
Plateau Remediation Company
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L. Ty Blackford
President and
Chief Executive Officer

Monthly Performance Report

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June 2020
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EXECUTIVE SUMMARY

CH2M HILL Plateau Remediation Company (CHPRC) has advanced cleanup throughout the Hanford Site during June. On March 24, 2020, the U.S. Department of Energy (DOE), Richland Operations Office (RL) issued CHPRC a partial stop work order (PSWO) due to the coronavirus (COVID-19). A safe and orderly ramp down of all operation activities was implemented that ensured the continuation of non-portable essential mission-critical activities and maximized the use of teleworking for portable work. Following completion of the ramp down, operations, surveillance and maintenance activities necessary to maintain safety and environmental compliance continued. CHPRC implemented plans to mitigate work delays and disruption and address impacts to programmatic work. In compliance with state and federal government COVID-19 guidance, and as required by the PSWO, CHPRC has taken and continues to take reasonable actions to protect and provide support to the workforce. With RL approval, CHPRC began a partial, phased return to normal work locations for low-risk non-portable operation activities that had been halted in response to the RL PSWO.

Major accomplishments included the following:

- **Plutonium Finishing Plant (PFP) Closure Project:** Crews maintained essential mission-critical operations in compliance with the RL PSWO and began a partial, phased return to work for low-risk activities. Work performed included a survey of PFP radiological boundaries, reapplying soil fixative to the PFP demolition site and performing equipment maintenance.
- **Waste and Fuels Management Project (W&FMP):** The W&FMP continued to perform essential mission-critical operations in compliance with the RL PSWO. The Management of Cesium and Strontium Capsule Project W-135, *Waste and Encapsulation and Storage Facility (WESF) Modifications*, continued to work on DOE Order 413.3B, *Program and Project Management for the Acquisition of Capital Assets*, Critical Decision (CD)-2, *Approve Performance Baseline*, and CD-3, *Approve Start of Construction*. The project continued efforts on preparation of procurement documentation to support the procurement of a construction contract to modify WESF to support transfer of the capsules to dry storage. Fabrication of capsule storage system transfer and ancillary equipment for future installation in WESF was initiated.
- **Soil and Groundwater Remediation Project (S&GRP):** The S&GRP team continued essential mission-critical operations in compliance with the RL PSWO and began a partial, phased return to work for low-risk activities beginning May 26, 2020. Operation crews quickly responded to multiple field obstacles encountered in June, including lightning strikes, wild fire damage and power outages, allowing continued progress toward the goal of 2.2 billion gallons of groundwater treated for fiscal year (FY) 2020. The project supported completion of *Hanford Federal Facility Agreement and Consent Order* Milestone M-024-58M, *Initiate Discussion of Well Commitments*, on May 27, 2020.
- **K Basins Operations (KBO):** At KBO, essential mission-critical operations continued in compliance with the RL PSWO. During June, several preventive maintenance activities were performed with a limited workforce onsite. The Readiness Self Assessment Review Board for the Garnet Filter Media Retrieval System prepared affidavits of readiness for presentation to the readiness review team and RL.



CHPRC workers replace a filter that removes radioactive cesium from water inside the 105KW Reactor fuel storage basin.

- **River Risk Management Project:** The project continued essential mission-critical operations in compliance with the RL PSWO, with portable work continuing using temporary alternate work locations as appropriate. Preparations to implement social distancing for the project subcontractors' staff and Radiological Control organization continued. Engineering continued to support engineered equipment procurements and completed the initial design of the airlock power supply cart. A contract was established to perform radiological testing of the acrylamide grouting that will be used for soil stabilization during B Cell excavation activities. A team was established to finalize the contamination area/high contamination area training evolution that will convene when the project enters Phase 1 resumption. Equipment procurement continued for the cell dams, universal cutting tool, waste boxes, modified airlock rail system and the B Cell 10-ton crane. The Environmental Restoration Disposal Facility received one long-length waste item from the tank farms and disposed of three others using an expanded essential mission-critical operations crew.
- **Central Plateau Risk Management (CPRM) Project:** The project continued essential mission-critical operations in compliance with the RL PSWO and began a partial, phased return to work for low-risk activities. On the Central Plateau, crews completed the monthly As Low As Reasonably Achievable Current Technology surveys at the canyon facilities and operated the Central Radiological Count Facility. In the 400 Area, crews completed the monthly water plan, and septic and aqueous makeup inspections. Finally, CPRM completed work area configurations to complete social distancing requirements in MO-294 and MO-6114.
- **West Area Remediation Project (WARP):** The WARP team continued planning activities for hazard material removal and electrical and mechanical isolation work packages related to the planned demolition of the 234-5Z-BA, 234-5Z-BE and 216-ZP-1 structures. Crews also performed tumbleweed removal and general site cleanup activities to ensure safe and compliant site conditions.

The President's Zero Accident Council (PZAC) meeting for June was hosted by Environmental Program & Strategic Planning via Virtual Meeting. The three main ideas were:

- A new perspective on health.
- Back to work – new rules and changes.
- Bird nesting season.

Five *Thinking Target Zero* (TTZ) bulletins were published to convey important occupational, safety, health and environmental messages:

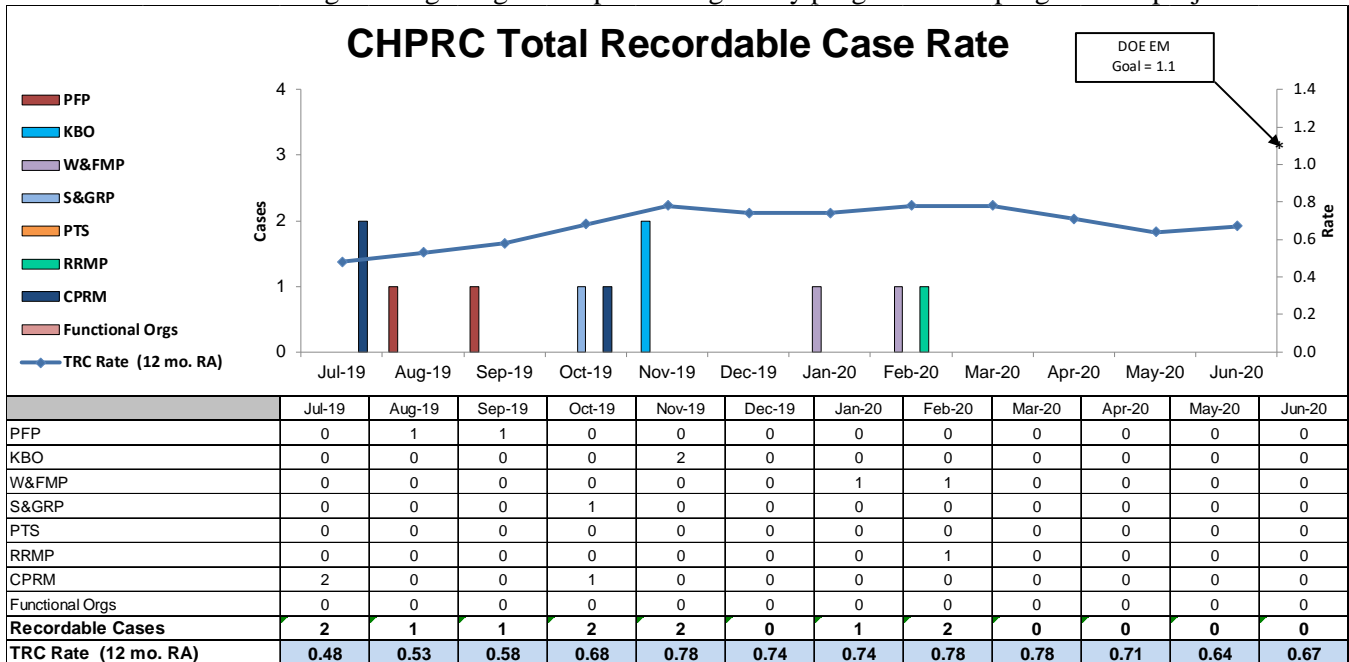
- Outdoor activities.
- Cultural sensitivity.
- Summer water safety.
- Summer hydration.
- VPP safety 24/7.

Weekly Safety Tailgate briefing packages communicated relevant topics and safety information to the workforce:

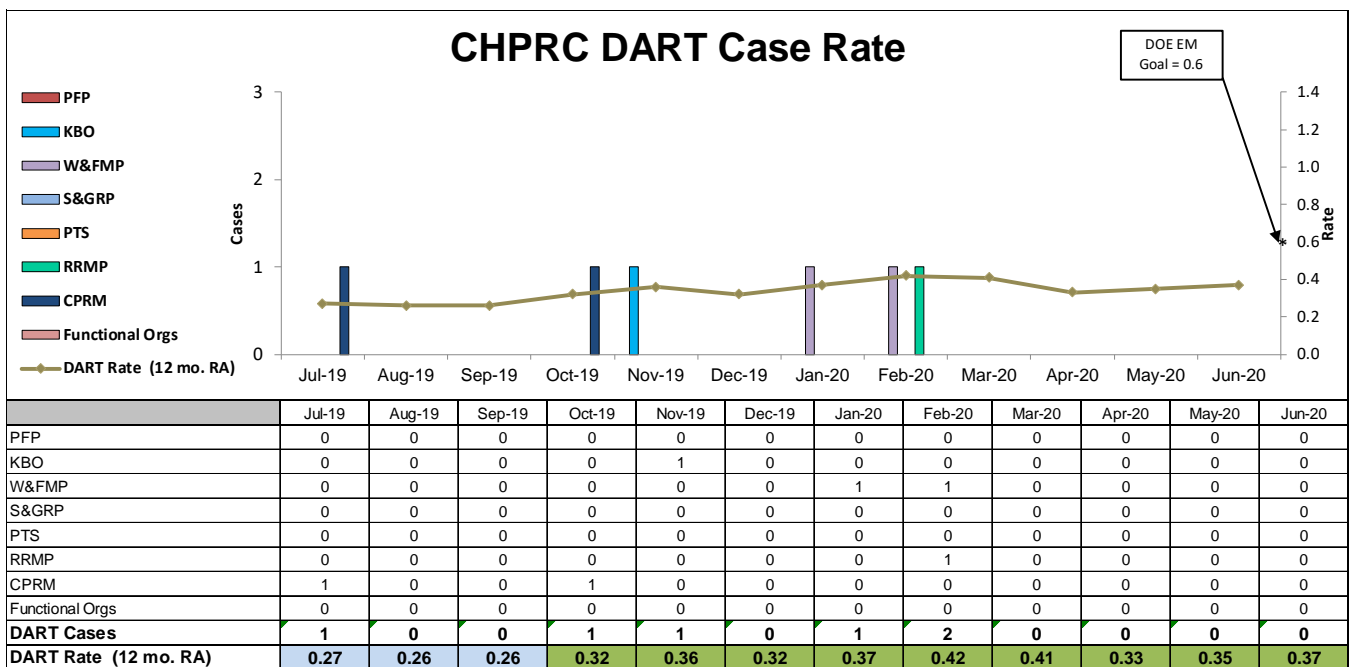
- Four Lessons Learned:
 - G-2020-OR-UCORTNS-0603: Utilizing Conduct of Operations Standing Orders to Communicate Critical COVID-19 Info.
 - OPEX Safety Bulletin/Alert (13568): Unknown Danger Lurking in the Water.
 - OPEXSHARE: CDC-NIOSH-5-2013 Preventing Heat-related Illness or Death of Outdoor Workers.
 - OPEXSHARE: INL-2019-0035 Safe and Effective Response to Largest Wildland Fire at Idaho National Laboratory (INL).
- Injuries.
- Weekly ethics moments.
- Vehicle events.
- National safety month.
- Summer safety 2020.
- Traffic safety feedback.
- Spotlight on mental health.
- Face covering reminder.
- HPMC digital health fair.
- Spotlight on ergonomics.
- Spotlight on lifting correctly.
- COVID-19 coordinators.
- Conduct of work share.
- Independence Day remember safety 24/7.
- Fourth of July 2020-style.
- Spotlight on workplace driving safety.
- HAMMER training.
- HAMMER temporary measures.

TARGET ZERO PERFORMANCE

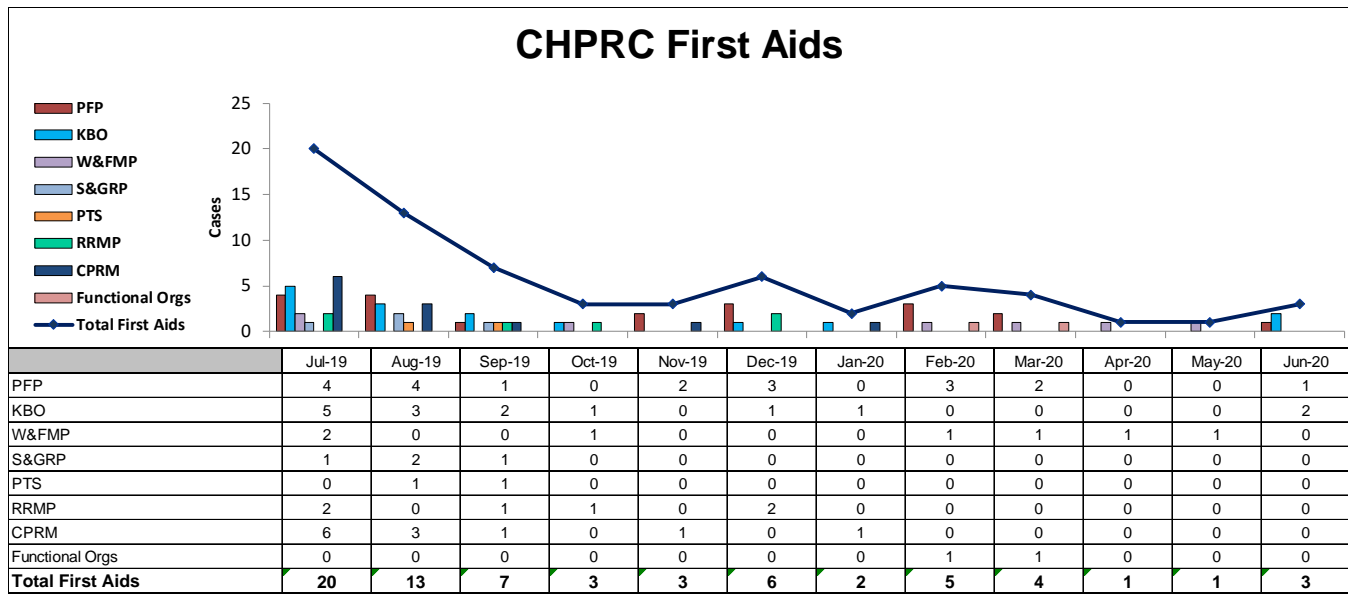
CHPRC continued focusing on integrating and implementing safety programs in all program and project areas.



Total Recordable Injury Case (TRC) Rate: The 12-month rolling average TRC rate of 0.67 is based on a total of 11 Recordable injuries. June had no reported OSHA Recordable cases. The TRC rate has increased due to a decrease in working hours during essential mission-critical operations.



Days Away, Restricted or Transferred (DART) Workdays Case Rate: The 12-month rolling average DART rate of 0.37 is based upon a total of six Days Away cases. June had no reported DART cases. The DART rate has increased due to a decrease in working hours during essential mission-critical operations.



First Aid Case Summary: CHPRC reported three first aid cases in June. The contributors were two cuts/lacerations/punctures and one strain/sprain/pain injury.

KEY ACCOMPLISHMENTS

Projects

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

Project Services and Support

- Refer to Appendix B of this report for overhead support (reported quarterly). For specific project support, refer to Sections A through G and Appendix C of this report.

MAJOR ISSUES

Projects

- Refer to Sections A through G and Appendix C of this report for the project-specific major issues.

Project Services and Support

Issue

Due to COVID-19, a national emergency was declared on March 13, 2020. On March 17, 2020, CHPRC senior management issued a companywide stop work on all fieldwork not associated with technical safety requirements, environmental compliance or emergency response. On March 18, 2020, CHPRC submitted letter CHPRC-2001123 to RL identifying that COVID-19 may impact CHPRC's ability to meet contractual requirements. On March 24, 2020, RL issued letter 20-PRO-0139, a PSWO for non-portable work. On June 16, 2020, CHPRC received Contract Modification 742, extending the PSWO through July 22, 2020, unless the contracting officer directs an earlier date. The PSWO noted that CHPRC would have 30 days following termination of the PSWO to assert its rights for an equitable adjustment. On May 22, 2020, the RL contracting officer approved CHPRC's request for submission of the Request for Equitable Adjustment (REA) 90 days after the end of the PSWO. CHPRC anticipates that in addition to schedule impacts, the PSWO will result in FY2020 and FY2021 cost impacts under the following clauses:

- Plateau Remediation Contract (PRC) Section Contract Clause I.115 Federal Acquisition Regulation (FAR) 52.249-14, “Excusable Delays” (April 1984).
- PRC Contract Clause I.102 FAR 52.243-2, “Changes – Cost Reimbursement” (August 1987) – Alternate II (April 1984), Alternate III (April 1984), and Alternate IV (April 1984).
- PRC Contract Clause I.89 FAR 52.236-2, “Differing Site Conditions” (April 1984).

Corrective Action

CHPRC will timely notify the RL contracting officer of events, incidents or circumstances causing grounds to submit an REA. Following receipt of RL’s PSWO direction, a PSWO implementation plan and restart plan were developed. To support workforce stability as directed by RL, CHPRC employees were provided attendance code “COV” to be used for charging hours not worked but in a paid status for time not spent on portable work or for those where performance of meaningful productive work is not practical. In addition, CHPRC provided similar guidance to our subcontractors that will be critical to ramp up and execute to full performance capacity at the conclusion of the PSWO. This guidance also notified our subcontractors that justifiable absence time could be reimbursable by CHPRC.

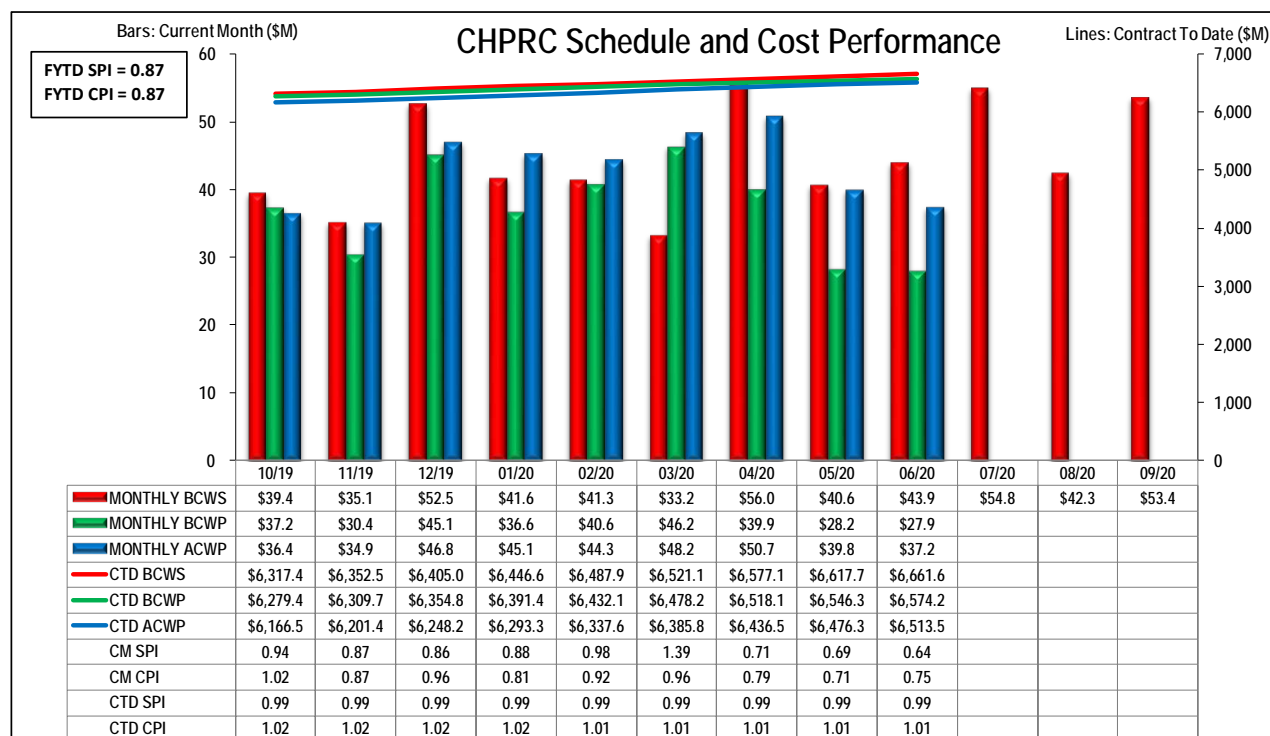
Status

The situation at the Hanford Site continues to evolve. CHPRC has implemented plans to mitigate work delays and disruption and cost-effectively address unanticipated impacts to programmatic work. CHPRC has established separate financial account(s) to collect costs associated with COVID-19. CHPRC remains in constant contact with RL to ensure related information requests and deliverables meet RL needs, and CHPRC stays abreast of potential changes in the essential mission-critical operations posture so the changes can be anticipated and addressed in a timely manner should changes occur. Development of social distancing and staffing re-mobilization plans, new and revised CHPRC policies and procedures to address COVID-19 and new training for returning workers was developed. Development of deliverables in response to COVID-19 and the PSWO were and continue to be coordinated with other Hanford Site contractors to ensure a collaborative, consistent approach for both work ramp down and resumption activities planned and proposed to RL. Additionally, CHPRC continues to communicate to RL that the ramp down and resumption activities will have both cost and schedule impacts on the work planned for FY2020 and FY2021. Major updates and communications in June include the following:

- On June 16, 2020, CHPRC received Contract Modification 742, extending the PSWO through July 22, 2020, unless the contracting officer directs an earlier date.

In compliance with state and federal government COVID-19 guidance, and as required by or in consequence of the PSWO, CHPRC has taken and continues to take reasonable actions to protect and provide support to the workforce.

EARNED VALUE MANAGEMENT



	SM						SM						SM		
	Current Period						Contract to Date						Contract Period		
	Budgeted Cost		Actual Cost	Variance			Budgeted Cost		Actual Cost	Variance			BAC	EAC	Variance
	BCWS	BCWP	ACWP	Schedule	Cost	BCWS	BCWP	ACWP	Schedule	Cost					
RL-0011 - Nuclear Materials Stab & Disp PFP	-	0.0	1.8	0.0	(1.8)	1,143.6	1,129.9	1,240.8	(13.7)	(111.0)	1,143.6	1,254.5	(110.9)		
RL-0012 - SNF Stabilization & Disposition	-	-	-	-	-	759.6	759.6	729.8	(0.0)	29.8	759.6	729.8	29.8		
RL-0013 - Solid Waste Stab & Disposition	16.5	10.6	11.4	(5.8)	(0.7)	1,618.0	1,602.4	1,520.9	(15.6)	81.5	1,675.3	1,597.1	78.2		
RL-0030 - Soil & Water Rem-Grndwtr/Vadose	10.4	7.0	7.1	(3.4)	(0.2)	1,723.1	1,703.3	1,655.0	(19.8)	48.3	1,755.1	1,706.6	48.5		
RL-0040 - Nuc Fac D&D - Remainder	6.8	3.3	6.3	(3.5)	(2.9)	611.1	594.3	588.8	(16.7)	5.5	638.1	651.0	(12.9)		
RL-0041 - Nuc Fac D&D - RC Closure Project	9.9	6.7	10.4	(3.2)	(3.7)	775.2	753.7	752.1	(21.5)	1.6	808.2	809.7	(1.4)		
RL-0042 - Nuc Fac D&D - FFTF Project	0.3	0.2	0.2	(0.1)	0.0	31.1	31.0	26.1	(0.1)	4.9	32.3	27.6	4.8		
(Values are rounded to the nearest \$0.1M) Total	43.9	27.9	37.2	(16.0)	(9.3)	6,661.6	6,574.2	6,513.5	(87.4)	60.7	6,812.2	6,776.2	36.0		

Performance Summary

CHPRC continues to track completion of the contract within budget. Currently, a variance at completion of the contract of \$36.0 million is projected, with an additional \$48.2 million of management reserve (MR) for a total positive variance of \$84.2 million. For June, the project was 36.5 percent behind schedule and 33.3 percent over planned cost. Contract to date, the project was 1.3 percent behind schedule and 0.9 percent under planned cost.

The current month negative schedule and cost variances were the result of the PSWO issued to CHPRC by RL on March 24, 2020. The PSWO covered non-portable work activities not associated with the continuation of essential mission-critical operations that could not be performed in a safe and compliant manner consistent with the Centers for Disease Control COVID-19 guidelines and the Washington State phased reopening by county. Non-portable work activities are work that cannot be performed in a remote manner (e.g., telework from home). Discrete scope across the projects was demobilized and placed in a safe configuration in late March. CHPRC and

subcontractor labor assigned to work that could not be performed in a remote manner charged to segregated accounts for unproductive time caused by the PSWO. The cost for the standby of subcontractor equipment remaining onsite during this period was also segregated. As the method of earning performance for discrete scope is based on physical progress in the field, no performance was taken on many accounts, causing the negative schedule and cost variances.

FUNDING ANALYSIS

FY2020 Funds vs. Fiscal Year Spend Forecast (\$M)

PBS	Project	FY2020		Variance
		Projected Funding	Spending Forecast	
RL-0011	Nuclear Materials Stabilization and Disposition	34.4	39.8	(5.4)
RL-0012	Spent Nuclear Fuel Stabilization and Disposition	0.6	(0.1)	0.6
RL-0013	Waste and Fuels Management Project	202.7	193.1	9.6
RL-0013	Management of Cesium and Strontium Capsules	14.3	1.3	13.0
RL-0030	Soil, Groundwater and Vadose Zone Remediation	126.0	108.1	17.8
RL-0040	Nuclear Facility D&D, Remainder of Hanford	93.3	89.9	3.3
RL-0041	Nuclear Facility D&D, River Corridor	150.9	146.3	4.5
RL-0042	Fast Flux Test Facility Closure	4.8	3.7	1.1
Total Fiscal Year Spending Forecast		626.8	582.3	44.5

Funds/Variance Analysis

FY2020 overall projected funding of \$626.8 million remains unchanged from last month. The spending forecast of \$582.3 million reflects an overall reduction of \$14.6 million from last month, driven primarily by incorporation of Contract Modification 745, which revised the available fee for FY2020, reducing the forecast by \$9 million. Additionally, the project forecasts reduced \$5.6 million, primarily in RL-0013 for subcontracts pushing into FY2021.

BASELINE CHANGE REQUESTS

In June, CHPRC approved and implemented one baseline change request (BCR) into the performance measurement baseline (PMB). This BCR did not impacted the PMB budget. The change request is identified in the following table:

Change Request#	Title	PBS	Summary of Change
BCRA-PRC-20-019R0	HPIC Updates June FY2020	RL-0011 RL-0013 RL-0030 RL-0040 RL-0041 RL-0042	This administrative BCR documented Hanford Programs Integrated Control (HPIC) module changes made in the June 2020 performance period prior to archive. These changes include new work packages, cost account charge number requests and control account manager changes as documented in the HPIC forms. This BCR did not change the PMB value.

The allocated (distributed) budget did not change in June.

Undistributed Budget (UB) Activity

BCR Number	Title	PBS	Fiscal Year	UB
N/A	N/A	N/A	2020	N/A

There was no change to UB in June.

Management Reserve (MR) Activity

BCR Number	Title	PBS	Fiscal Year	MR
N/A	N/A	N/A	2020	N/A

There was no change to the MR in June.

Fee Activity

BCR Number	Title	PBS	Fiscal Year	Fee
N/A	N/A	N/A	2020	N/A

There was no change to the Fee in June.

The PMB values of change requests are summarized by FY in the following tables. For a list of change requests that have impacted the PMB budget by FY, see the Format 3 Report in Appendix A.

June 2020 Summary of Changes (\$M)

	FY2009-2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2014-2018	FY2019	FY2020	Total
May 2020 MR Totals										
RL-0011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	5.5
RL-0012	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	5.4
RL-0013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.4	8.4
RL-0030	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	3.6
RL-0040	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.3	11.3
RL-0041	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.6	13.6
RL-0042	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48.2	48.2
June 2020 MR Changes/Utilization										
RL-0011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RL-0012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RL-0013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RL-0030	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RL-0040	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RL-0041	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RL-0042	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
June 2020 MR Totals										
RL-0011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	5.5
RL-0012	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	5.4
RL-0013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.4	8.4
RL-0030	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	3.6
RL-0040	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.3	11.3
RL-0041	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.6	13.6
RL-0042	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48.2	48.2

Changes to/Utilization of Management Reserve in June 2020 (\$M)

	FY 2009-2013	FY2014	FY2015	FY2016	FY2017	FY2018	FYs 2014-2018	FY2019	FY2020	Contract Period Total	Total PMB
May 2020 Estimate											
PMB	3,391.5	391.7	471.3	504.8	485.0	470.6	2,323.5	563.1	534.2	6,812.2	6,812.2
MR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48.2	48.2	48.2
Fee	155.5	14.3	14.5	27.8	10.6	18.9	86.1	36.5	27.0	305.1	305.1
Total	3,547.0	406.0	485.8	532.6	495.6	489.5	2,409.6	599.5	609.4	7,165.5	7,165.5
June 2020 Change											
PMB											
Change to PMB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MR											
Change to MR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fee											
Change to Fee	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Change	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
June 2020 Estimate											
PMB	3,391.5	391.7	471.3	504.8	485.0	470.6	2,323.5	563.1	534.2	6,812.2	6,812.2
MR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48.2	48.2	48.2
Fee	155.5	14.3	14.5	27.8	10.6	18.9	86.1	36.5	27.0	305.1	305.1
Total	3,547.0	406.0	485.8	532.6	495.6	489.5	2,409.6	599.5	609.4	7,165.5	7,165.5

SELF-PERFORMED WORK

Business structure information documents ongoing compliance with the requirements of the contract Section H.20 clause "Self-Performed Work."

Contract-to-Date Actual Awards & Mods (\$M) 10/1/2008 - 6/30/2020					
Reporting Category					
	\$ Value	%	Goal %		
SB	\$1,754.22	56.90%	49.3%	PRC clause H.20b small business requirement ≥ 17% of CHPRC Contract Price performed by SB.	
SDB	\$333.04	10.80%	8.2%		
SWOB	\$310.15	10.06%	7.5%	CHPRC Contract Value:	\$7,157.68
HUB	\$104.42	3.39%	2.2%	SB actual:	\$1,754.22
VOSB	\$270.04	8.76%	3.5%	SB Performed %:	24.51%
SDVO	\$176.53	5.73%	1.3%	PRC clause H.20a max self performed requirement ≤ 65% of Contract Price Self Performed	
NAB	\$110.99	3.60%	N/A		
Large	\$825.37	26.77%	N/A	CHPRC Contract Value:	\$7,157.68
GOVT	\$5.91	0.19%	N/A	CHPRC Self Performed:	\$4,368.31
GOVT CONT	\$483.23	15.67%	N/A	CHPRC Self Performed %:	61.03%
EDUCATION	\$0.17	0.01%	N/A		
NONPROFIT_	\$4.48	0.15%	N/A		
FOREIGN	\$9.56	0.31%	N/A		
Total	\$3,082.94	100.00%	N/A		

Notes:

1. Since the contract award in October 2008, CHPRC has subcontracted more than \$3.0 billion in goods and services, with more than 56 percent going to small businesses. All subcontracting goals have been exceeded.
2. Approximately 90 percent of the total dollars arise from service and staffing contracts and contract amendments, with 6.9 percent of the remaining expenditures arising from PCard purchases and 3.9 percent from the balance in purchase orders for materials and equipment.
3. Data are summarized by business category (e.g., 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
J.12/C.2.2, C.2.3	<p>PBS-11, <i>Plutonium Finishing Plant Closure Project</i></p> <p>PBS-13, <i>Solid and Liquid Waste Treatment and Disposal</i></p>	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 locations. RL is the authorized shipper and acts as signatory on the shipping papers and ensures compliance with DOE Manual 460.2-1, <i>Radioactive Material Transportation Practices Manual for Use with DOE O 460.2A</i> . RL arranges for Commercial Motor Vehicle Safety Alliance Level VI Vehicle Inspections and verifies that the government drivers meet the applicable U.S. 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 requirements.	Ongoing.
J.12/C.2.3.6	PBS-13, <i>Transuranic Waste Certification</i>	Waste Isolation Pilot Plan (WIPP) in Carlsbad, New Mexico: 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-Headquarters on a complex-wide priority. Cost for shipment of TRU waste offsite is borne by the Carlsbad Field Office.	No WIPP shipments are planned within the remaining contract period of performance.

DOE ACTIONS/DECISIONS

Refer to Sections A through G and Appendix C of this report for the project-specific DOE actions/decisions.

Section A

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

CH2MHILL
Plateau Remediation Company
a Jacobs company



J. L. Casper
Vice President for
Plutonium Finishing Plant
Closure Project

June 2020
CHPRC-2020-06, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

In June, the Plutonium Finishing Plant (PFP) Closure Project team continued essential mission-critical operations in compliance with the U.S. Department of Energy (DOE), Richland Operations Office (RL) partial stop work order (PSWO) issued as a part of the Hanford Site response to the novel coronavirus (COVID-19). Essential mission-critical operations consisted of a survey of PFP radiological boundaries, applying soil fixative to the PFP demolition area and performing equipment maintenance.

Key Metrics

<i>Key Performance Indicators</i>	<i>Current Month</i>	<i>Contract to Date</i>
COMPLETE Glovebox/Hood Removed or Dispositioned in Place	0	232 gloveboxes/hoods
COMPLETE KPP Rooms/Areas Ready for Demo	0	72 rooms/areas
COMPLETE Asbestos/Asbestos Containing Material Removed	0	35,827
COMPLETE Process Vacuum Piping Dispositioned	0	7,231 feet
COMPLETE Process Transfer Line Dispositioned	0	1,525 feet
COMPLETE Pencil Tank Units Removed (Shipped)	0	196 pencil tank units
COMPLETE Buildings Ready for Demo	0	68 structures
Buildings Demolished or Removed	0	67 structures
Non-Radioactive Waste Shipped	0	89.8 m ³
Transuranic/Transuranic Mixed (TRU/TRU-M) Shipped	0 m ³	5,016 m ³
Low-level Waste (LLW)/Mixed (M)LLW Shipped	0 m ³	23,276 m ³

EMS Objectives and Target Status

Objective #	Objective	Target	Due Date	Status
20-EMS-PFP-OBJI-P1	Complete <i>Comprehensive Environmental Response, Compensation, and Liability Act of 1980</i> removal action at the PFP Complex.	Performs actions for final PFP turnover to surveillance and maintenance (S&M).	7/30/2020	25%

TARGET ZERO PERFORMANCE

(Reported on a calendar month basis)

	Current Month	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	0	N/A
Total Recordable Injuries	0	2	N/A
First Aid Cases	1	20	6/10/2020: Employee pinched their right thumb between a bus door opening/closing mechanism and a bolt securing the bracket, resulting in a small laceration. The employee notified their supervisor, was taken to HPM Corporation for evaluation, and returned to work without restriction. (25522).
Near Misses	0	0	N/A

KEY ACCOMPLISHMENTS

RL-0011 Accomplishments:

- Due to COVID-19, a national emergency was declared on March 13, 2020. On March 24, 2020, RL issued CH2M HILL Plateau Remediation Company (CHPRC) a PSWO as a part of the Hanford Site response to COVID-19. The PFP Complex was transitioned to essential mission-critical operations and maintained in that configuration. Essential mission-critical operations consisted of the completion of required S&M activities to protect government property and maintain safety and environmental compliance. These efforts included surveying PFP radiological boundaries, applying fixative to the PFP demolition area and performing equipment maintenance.

MAJOR ISSUES

Issue

The project's fiscal year (FY) 2020 forecast reflects spending approximately \$5.4 million more than the entire allotted carryover balance. Additional funding is required in FY2020.

Corrective Action




Resolve funding shortfall. Personnel assigned to the PFP Project were shifted to support the West Area Remediation Project (WARP) in RL-0040 when they returned to work in June to conserve the limited personal protective equipment (PPE) inventory following the return to normal operations until site PPE inventory and resupply can support completing the RL-0011C.2 project. A secondary benefit of shifting labor resources to WARP activities will reduce the near-term PFP Project spending rate until this issue is resolved.




Status





CHPRC is working with RL to address this issue, with resolution expected in July. RL will reallocate an additional \$9.2 million (\$500 million from RL-0012, and \$8.7 million from RL-0030), increasing FY2020 funding from \$34.4 million to \$43.6 million, which is sufficient for the current spending forecast of \$39.8 million.



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-0011													
Explanation of major changes to the project monthly spotlight chart: No major changes to the spotlight chart in June.													
Realized Risks (Risks that are currently impacting project cost/schedule)													
PFP-P5-007: Delay of PRF Debris Load Out	The loadout of Plutonium Reclamation Facility (PRF) debris is delayed. Risk Handling Strategy: Accept Probability: Medium (26% to 74%) Worst Case Impacts: \$0, 32 days			Risk Event: The project has not executed debris loadout at the productivity rate that was planned. The project has experienced accumulation of water during PRF rubble loadout and more soil per loadout entry than expected. <table><tr><th>Risk Recovery Action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>Communicate PRF loadout options with RL.</td><td>Ongoing</td><td>N/A</td></tr><tr><td>Encourage additional worker involvement.</td><td>Ongoing</td><td>N/A</td></tr></table> Recovery Action Assessment: No major changes in June. Crews are loading out more soil associated with debris collection than expected. Additional loadout may be needed that will push project completion. A change recommended by craft personnel in the demolition approach has shown early signs of improved performance.	Risk Recovery Action(s)	FC Date	%	Communicate PRF loadout options with RL.	Ongoing	N/A	Encourage additional worker involvement.	Ongoing	N/A
Risk Recovery Action(s)	FC Date	%											
Communicate PRF loadout options with RL.	Ongoing	N/A											
Encourage additional worker involvement.	Ongoing	N/A											
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed.)													
No critical risks identified in June.													
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)													
No high threat risks identified in June.													
FY2020 Key Risks													
PFP-P4-002: Weather Impacts During 236-Z Demolition	Inclement weather, including moderate winds, low or high temperatures, and above average snowfall or thunderstorms will result in in-scope unplanned work and schedule impacts to the project. Risk Handling Strategy: Control Probability: Low (10% to 25%) Worst Case Impacts: \$0, 30 days			Risk Trigger: High winds and cold weather may impact the project in the winter and spring seasons. Average winds above 15 mph shut down demolition activities, and average winds above 30 mph require additional surveys. Cold weather prevents the foggers from operating and, therefore, shuts down fieldwork activities. <table><tr><th>Mitigation Action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>None identified at this time.</td><td>N/A</td><td>N/A</td></tr></table> Mitigation Assessment: No major changes in June. There were no weather events that impacted the project in June.	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											

	Unmitigated Risk Impacts	Assessment		Comments															
		Month	Trend																
RL-0011																			
PFP-P-004: Stop Work From Concerned Workers	<p>Concerned workers can implement a stop work to address off-normal or safety issues. The work cannot be restarted until the implementation of corrective actions is completed, resulting in schedule impacts to the project.</p> <p>Risk Handling Strategy: Control</p> <p>Probability: Medium (26% to 74%)</p> <p>Worst Case Impacts: \$0, 16 days</p>			<p>Risk Trigger: During PFP demolition activities, an increase in stop works could result in delays.</p> <table border="1"><thead><tr><th>Mitigation Action(s)</th><th>FC Date</th><th>%</th></tr></thead><tbody><tr><td>Update communications as positions change.</td><td>Ongoing</td><td>N/A</td></tr><tr><td>Provide new maps with entry/exit instructions when boundaries are revised.</td><td>Ongoing</td><td>N/A</td></tr><tr><td>Encourage additional worker involvement.</td><td>Ongoing</td><td>N/A</td></tr><tr><td>Increase frequency of post-job reviews.</td><td>Ongoing</td><td>N/A</td></tr></tbody></table> <p>Mitigation Assessment: No major changes in June. Increased communication and worker involvement to avoid confusion and concern to minimize stop works have continued; stop works may impact the project schedule going forward.</p>	Mitigation Action(s)	FC Date	%	Update communications as positions change.	Ongoing	N/A	Provide new maps with entry/exit instructions when boundaries are revised.	Ongoing	N/A	Encourage additional worker involvement.	Ongoing	N/A	Increase frequency of post-job reviews.	Ongoing	N/A
Mitigation Action(s)	FC Date	%																	
Update communications as positions change.	Ongoing	N/A																	
Provide new maps with entry/exit instructions when boundaries are revised.	Ongoing	N/A																	
Encourage additional worker involvement.	Ongoing	N/A																	
Increase frequency of post-job reviews.	Ongoing	N/A																	
Unassigned Risks (Pending ownership of identified threats/opportunities)																			
No unassigned risks identified in June .																			

PROJECT BASELINE PERFORMANCE

Current Month (CM)

(\$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	0.0	0.0	1.8	0.0	0.0%	(1.8)	-10,962.0%

Numbers are rounded to the nearest \$0.1 million.

CM Schedule Variance: (+0.0M/+0.0%)

The CM schedule variance is within threshold.

CM Cost Variance: (-\$1.8M/-10,962.0%)

The CM negative cost variance is the result of the PSWO issued to CHPRC by RL on March 24, 2020. The PSWO covered non-portable work activities not associated with the continuation of essential mission-critical operations that could not be performed in a safe and compliant manner consistent with the Centers for Disease Control and Prevention (CDC) COVID-19 guidelines and the “Stay Home, Stay Healthy” order issued by the governor of Washington State. Non-portable work activities are work that cannot be performed in a remote manner (e.g., telework from home). The project was demobilized and placed in a safe configuration in late March. CHPRC and subcontractor labor assigned to work that could not be performed in a remote manner were charged to control account 011.97.01.04 to collect and segregate unproductive time caused by the PSWO. As the method of earning performance is based on physical progress in the field, no performance was taken, causing the negative cost variance.

Contract to Date (CTD) (\$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)	Estimate to Complete (ETC)	Variance at Completion (VAC)
Total	1,143.6	1,129.9	1,240.80	(13.7)	-1.2%	(111.0)	-9.8%	1,143.6	1,254.5	13.7	(110.9)

Numbers are rounded to the nearest \$0.1 million.

CTD Schedule Variance: (-\$13.7M/-1.2%)

The CTD schedule variance is within threshold.

CTD Cost Variance: (-\$111.0M/-9.8%)

The negative CTD cost variance is primarily a result of unplanned costs to support implementation of PFP schedule efficiency initiatives (i.e., foaming, Perma-Fix Northwest [PFNW] size reduction support, PremAire Breathing System); increased training costs of additional PFP radiation control technicians (RCTs) and deactivation and decommissioning (D&D) workers; additional resources to recover schedule from asbestos-removal activities and support the unplanned asbestos removal (about 10,000 feet); unplanned shipping materials (e.g., waste shipping containers TL-1800s, SLB2s, IP-1 bags, etc.) required for TRU waste disposition loadout activities; and unplanned work to reconfigure the high-density polyethylene (HDPE) water loop to support the new radiological boundaries.

Contributors to the negative cost variance include resumption actions associated with the December 2017 contamination event encompassing fixative applications, performing radiological surveys, revising radiological postings, implementing infrastructure modifications, and performing stabilization activities. Reassignment of CHPRC personnel to support the radiological control area (RCA) and programmatic assessments also contributed to the variance.

After resumption activities were completed, a deliberate and in-series approach resulted in slower progress on demolition, size reduction and waste loadout. Process improvements for planning and training activities to replenish D&D and RCT staffing support have additionally increased costs.

The PSWO issued to CHPRC by RL on March 24, 2020, covered non-portable work activities not associated with the continuation of essential mission-critical operations that could not be performed in a safe and compliant manner consistent with CDC COVID-19 guidelines and the “Stay Home, Stay Healthy” order issued by the governor of Washington State. The project was demobilized and placed in a safe configuration in late March 2020. CHPRC and subcontractor labor assigned to work that could not be performed in a remote manner were charged to control account 011.97.01.04 to collect and segregate unproductive time caused by the PSWO.

The negative cost variance was partially offset by the use of fewer breathing air suits (three per day versus five) and fewer hoses than originally planned for 242-Z Building entries. These reductions were the result of fewer fieldwork team members required to perform hands-on work in 242-Z Building due to the confined space.

In addition, recognized efficiencies contributed to the negative variance offset, including crews completing process vacuum removal in the 291-Z Building with reduced effort; characterization results indicating lower levels of holdup, allowing for accelerated piping removal; isolations performed more

efficiently by disconnecting the main electrical power from outside the 291-Z Building versus individual isolations from within; hazardous material removal, stabilization and decontamination was more resourceful than anticipated (i.e., powerful fans used with vertical fixative flow up the stack); and additional efficiencies associated with 242-Z, 291-Z and 234-5ZA Building demolition.

Variance at Completion (VAC): (-\$110.9M/-9.7%)

The unfavorable VAC reflects extended hotel load and field resource costs due to delays in demolition-ready and demolition activities, as well as resumption actions associated with the December 2017 contamination event encompassing fixative applications, performing radiological surveys and revising radiological postings, infrastructure modifications and stabilization activities. Reassignment of CHPRC personnel to support the RCA and programmatic assessments also contributed to the variance. Impacts attributable to COVID-19 concerns have pushed project completion, increasing the expected total project cost.

Overtime used to ready the 234-5Z Building for demolition by September 2017 and unplanned work on the HDPE water loop also contributed to the unfavorable variance, which was partially offset by recognized efficiencies due to characterization data in 234-5Z, allowing piping and ducting to be left in place for demolition.

Contract Performance Report Formats are provided in Appendix A.

FUNDS vs. SPEND FORECAST (\$M)

RL-0011 Nuclear Matl Stab & Disp PFP	FY2020		Variance
	Projected Funding	Spending Forecast	
Spending Forecast	34.4	39.8	(5.4)
Numbers are rounded to the nearest \$0.1 million.			

Funds/Variance Analysis

The FY2020 projected funding of \$34.4 million remains the same as last month, however RL is in the process of reallocating an additional \$9.2 million (\$500 million from RL-0012, and \$8.7 million from RL-0030). This will increase the projected funding in RL-0011 to \$43.6 million, and with a spending forecast of \$39.8 million, would leave a positive variance of \$3.8 million.

Critical Path Analysis

The PFP critical path schedule begins with the completion of PRF loadout, which is anticipated by December 8, 2020, meeting the requirements for the *Hanford Federal Facility Agreement and Consent Order* (Tri-Party Agreement) Milestone M-083-00A, "Plutonium Finishing Plant (PFP) Facility Transition and Selected Disposition Activities." Demolition completion will be followed by site stabilization and demobilization, turnover to S&M and project closeout activities, completing by March 10, 2021.

MILESTONE STATUS

The following table is a one-year look ahead to project breakdown structure (PBS) RL-0011 Tri-Party Agreement enforceable milestones, nonenforceable- target due dates and commitments.

Number	Title	Due Date	Actual Date	Forecast Date	Status/Comment
M-083-00A	“Plutonium Finishing Plant (PFP) Facility Transition and Selected Disposition Activities”	9/30/2017		12/8/2020	Work resumption is currently anticipated for late September due to a phased resumption approach and to conserve personal protective equipment following COVID-19 impacts. The forecasted completion date pushed about three weeks based on estimated completion of 236-Z loadout.

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

Contract Section	Project	GFS/I	Status
J.12/C.2.2, C.2.3	PBS RL-0011, PFP Closure Project	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, acts as signatory on the shipping papers and ensures compliance with DOE Manual 460.2-1A, <i>Radioactive Material Transportation Practices Manual for Use with DOE O 460.2A</i> . RL arranges for Commercial Motor Vehicle Safety Alliance Level VI vehicle inspections and verifies that the government drivers meet applicable U.S. 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 requirements.	Ongoing

DOE ACTIONS/DECISIONS

DOE activities supporting the approval of ancillary facility status change forms are complete to date.

Section C

Solid Waste Stabilization and Disposition (RL-0013)

CH2MHILL
Plateau Remediation Company
a Jacobs company



K. R. Shupe
Vice President for
Waste and Fuels Management Project

T. L. Hobbes
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River Risk Management Project

M. A. Wright
Vice President for
Project Technical Services

June 2020
CHPRC-2020-06, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

In the June reporting period (May 25 – June 21, 2020), the Waste and Fuels Management Project (W&FMP) and the River Risk Management Project continued essential mission-critical operations in compliance with the U.S. Department of Energy (DOE), Richland Operations Office (RL) partial stop work order (PSWO) issued as a part of the Hanford Site response to the novel coronavirus (COVID-19).

The following items were accomplished in June:

- The management of cesium and strontium capsule (MCSC) Project W-135, *Waste and Encapsulation and Storage Facility (WESF) Modifications*, continued to work on DOE Order 413.3B, *Program and Project Management for the Acquisition of Capital Assets*, Critical Decision (CD)-2 and CD-3 deliverables. The project is preparing procurement documentation to support construction modifications of WESF to support transfer of the capsules to dry storage.
- The Environmental Restoration Disposal Facility (ERDF) received one long-length waste item for permanent disposal from the tank farms and disposed of three using an expanded essential mission critical operations crew.

EMS Objectives and Target Status

Objective #	Objective	Target	Due Date	Status
20-EMS-WFMP-OBJ1-P1	Complete installation of the maintenance and storage facility (MASF) integrated testing mockup and demobilization.	Erect mockup structure and demobilization.	9/30/2020	0%
20-EMS-WFMP-OBJ2-P1	Receive three garnet filter shipments at T Plant.	T Plant Complex to receive three garnet filter shipments.	9/30/2020	0%
20-EMS-WFMP-OBJ3-P1	Repackage 400 m ³ of transuranic (TRU)/TRU mixed (TRUM) waste in preparation for certification/shipment to the Waste Isolation Pilot Plant (WIPP) in Carlsbad, New Mexico.	Complete repackaging 400 m ³ of legacy TRU/TRUM waste.	9/30/2020	76%
20-EMS-RRMP-OBJ1-P1	Track maintenance/recycling activities at ERDF (e.g., used oil recycling, tires, batteries and product drums, etc.)	On a quarterly basis, track the maintenance recycling activities of the ERDF subcontractor and CH2M HILL Plateau Remediation Company (CHPRC) transportation organization.	9/30/2020	25%

TARGET ZERO PERFORMANCE

(Reported on a calendar month basis.)

	CM Quantity	Rolling 12 Month	Comment
Days Away, Restricted or Transferred (DART)	0	2*	* 1 DART, Project Technical Services (PTS) in support of RL-0013. * 1 DART, Mission Support Alliance, LLC in support of RL-0013.
Total Recordable Injuries	0	0	N/A
First Aid Cases	0	10	N/A
Near Misses	0	0	N/A

KEY ACCOMPLISHMENTS

Waste and Fuels Management Project

13.01 Project Management

- On May 26, 2020, CHPRC distributed the Solid Waste Operations Complex (SWOC) Part B Permit building emergency plans for Low-Level Burial Grounds 31-34-94, the Center Waste Center (CWC), Waste Receiving and Processing (WRAP) and T Plant to the Washington State Department of Ecology (Ecology) for final review.
- On June 16, 2020, CHPRC provided consolidated CHPRC and RL comments on the draft WESF Permit Conditions to Ecology.

13.02 Capsule Storage and Disposition

- Completed 29 preventative maintenance (PM) packages.

13.03 Canister Storage Building (CSB)

- Completed 18 PM packages.

13.06 TRU Repackaging

- Completed repackaging of 14.4 m³ of TRU/TRUM waste for a total of 435.8m³ fiscal year to date (FYTD).

13.07 Waste Receiving and Processing

- Completed 214 surveillances and 8 PM packages.

13.08 T Plant

- Completed 315 surveillances and 18 PM packages.

13.09 Central Waste Center and Low-Level Burial Grounds

- Completed 242 surveillances and 8 PM packages.

13.16 Offsite Spent Nuclear Fuel Disposition

- Maintained coordination of offsite spent nuclear fuel disposition.

13.21 Mixed-Waste Disposal Trenches

- Completed 117 surveillances.

13.24 Management of Cesium (Cs) and Strontium (Sr) Capsules Project

- The MCSC Project W-135, *Waste and Encapsulation and Storage Facility (WESF) Modifications*, continued to work on DOE Order 413.3B, *Program and Project Management for the Acquisition of Capital Assets*, CD-2 and CD-3 deliverables.
- The project is preparing procurement documentation to support construction modifications of WESF to support transfer of the capsules to dry storage.
- With the support of PTS, the following progress was made on MCSC subproject construction activities:
 - Mobilized field crews to the G Cell mockup at MASF June 15, 2020. Completed briefings, checklists and walk downs; commenced steel erection activities.
 - Prepared mobilization of construction personnel to the field to commence on June 22, 2020, for the Capsule Storage Area (CSA) project. Completed briefings and checklists, conducted site walk down and generated punch list items.

River Risk Management Project**13.10 Environmental Restoration Disposal Facility**

- Received 321 tons of waste for disposal.
- Received 30,226 tons of waste for disposal FYTD. Any corrections in previous months are reflected in this total.
- Received one long-length waste item from Washington River Protection Solutions, LLC and disposed of three long-length items.
- Performed annual maintenance on 20 Blue-Dot roll-on/roll-off containers and placed them into service.

13.12 Integrated Disposal Facility

- Due to RL placing the Hanford Site in an essential mission-critical operations posture in response to COVID-19, there were no care and custody activities performed.
- Work continued on preparing process, procedures and permits in support of Integrated Disposal Facility (IDF) operational readiness.

MAJOR ISSUES

Issue

Retrieved and repackaged containers in storage are showing increased degradation, requiring additional mitigation activities.

Corrective Action

TRU disposition activities would prepare the contents of these containers in a configuration suitable for eventual disposal at WIPP. The configuration would also mitigate or 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 long-term storage (i.e., protecting boxes with tarps or protective shoring; over-packing drums). Streamlined and consolidated container management procedures. RL authorized the FY2020 TRU commercial repackaging, allowing shipments to Perma-Fix Northwest for repackaging to continue throughout the year.

RISK MANAGEMENT STATUS

Unassigned Risk
Risk Passed
New Risk
Change



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



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



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



Increased Confidence



No Change



Decreased Confidence

Risk Title	Unmitigated Risk Impacts	Assessment		Comments									
		Month	Trend										
RL-0013/WBS-013													
Explanation of major changes to the project monthly spotlight chart: Risk WSD-CSA-018, <i>CSA Design Errors and Omissions</i> , was added to the spotlight chart as a realized risk. Risk WSD-CSS-006, <i>Fabrication of the Equipment from the Contractor</i> , was realized in the month of June.													
Realized Risks (Risks that are currently impacting project cost/schedule)													
13-RCRA-REV9-001: RL-13 - Additional Dangerous Waste Management Units (DWMUs)	Unplanned DWMUs are added to the scope, requiring additional document support, impacting the project in both cost and schedule. Risk Handling Strategy: Control Probability: Likely (75% to 90%) Worst Case Impacts: \$0, 48 days			Risk Event: Ecology provided technical comments on the permit addendum, expanding the number of DWMUs. <table border="1"><thead><tr><th>Risk Recovery Action(s)</th><th>FC Date</th><th>%</th></tr></thead><tbody><tr><td>Conduct weekly meetings with Ecology and RL.</td><td>Ongoing</td><td>N/A</td></tr></tbody></table> Recovery Action Assessment: No significant changes in June. Impacts associated with realization of this risk are ongoing; as such, this risk will continue to be reported for visibility until it no longer poses a threat to the project. The project does not expect to resolve this realized risk within the current contract period.	Risk Recovery Action(s)	FC Date	%	Conduct weekly meetings with Ecology and RL.	Ongoing	N/A			
Risk Recovery Action(s)	FC Date	%											
Conduct weekly meetings with Ecology and RL.	Ongoing	N/A											
13-RCRA-REV9-003: RL-13 - Ecology Delays	Scope supported by Ecology is impacted by delays in Ecology review time that do not align with the permit management schedule. This issue requires that the project take recovery actions that result in schedule impacts. Risk Handling Strategy: Control Probability: Very likely (>90%) Worst Case Impacts: \$0, 96 days			Risk Event: Ecology's review time is impacting the permit management schedule. <table border="1"><thead><tr><th>Risk Recovery Action(s)</th><th>FC Date</th><th>%</th></tr></thead><tbody><tr><td>Conduct routine meetings with Ecology and the contractor to promote communication efforts.</td><td>Ongoing</td><td>N/A</td></tr></tbody></table> Recovery Action Assessment: No significant changes in June. Select staff are prepared to respond to comments when they are received. Impacts associated with realization of this risk are ongoing; as such, this risk will continue to be reported for visibility until it no longer poses a threat to the project. The project does not expect to resolve this realized risk within the current contract period.	Risk Recovery Action(s)	FC Date	%	Conduct routine meetings with Ecology and the contractor to promote communication efforts.	Ongoing	N/A			
Risk Recovery Action(s)	FC Date	%											
Conduct routine meetings with Ecology and the contractor to promote communication efforts.	Ongoing	N/A											
WSD-138: Regulatory Document (Closure Plan with Ecology) Results in Significant Comments from the Regulator	Significant comments from the regulator on closure plans submitted for approval results in non-approval of the permit or rework, causing schedule impacts to the project. Risk Handling Strategy: Control Probability: Very likely (>90%) Worst Case Impacts: \$0, 96 days			Risk Event: Eight closure plans were formally resubmitted to Ecology in August and November 2018. In January 2019, Ecology provided additional comments, changing the closure strategy for several units. <table border="1"><thead><tr><th>Risk Recovery Action(s)</th><th>FC Date</th><th>%</th></tr></thead><tbody><tr><td>Use a standardized approach to quickly evaluate and categorize comments for resolution.</td><td>Ongoing</td><td>N/A</td></tr><tr><td>Conduct routine meetings to address agency comments and to remain current on the influences from agencies.</td><td>Ongoing</td><td>N/A</td></tr></tbody></table> Recovery Action Assessment: No significant changes in June. RL informed Ecology that additional document revisions would not be completed at this time. The impacts associated with the realization of this risk are ongoing; as such, this risk will continue to be reported for visibility until it no longer poses a threat to the project. The project does not expect to resolve this realized risk within the current contract period.	Risk Recovery Action(s)	FC Date	%	Use a standardized approach to quickly evaluate and categorize comments for resolution.	Ongoing	N/A	Conduct routine meetings to address agency comments and to remain current on the influences from agencies.	Ongoing	N/A
Risk Recovery Action(s)	FC Date	%											
Use a standardized approach to quickly evaluate and categorize comments for resolution.	Ongoing	N/A											
Conduct routine meetings to address agency comments and to remain current on the influences from agencies.	Ongoing	N/A											

Risk Title	Unmitigated Risk Impacts	Assessment		Comments												
		Month	Trend													
RL-0013/WBS-013																
WSD-CSA-018: CSA Design Errors and Omissions	CSA construction is impacted by errors and omissions in the issued design documents. Impacts could be to safety, quality, schedule and/or cost. Risk Handling Strategy: Accept Probability: Likely (75% to 90%) Worst Case Impacts: \$650K, 24 days			Risk Event: The new CSA fire protection raw water line requires installation of a new Reduced-Pressure Backflow-Prevention Assembly (RPBA) at WESF. The RPBA was omitted from the original design. The omission was identified by the Hanford Fire Department during a supplemental review of the design in connection with a water system tie-in permit. <table border="1"><thead><tr><th>Risk Recovery Action(s)</th><th>FC Date</th><th>%</th></tr></thead><tbody><tr><td>Revise design to include an RPBA facility.</td><td>8/28/20</td><td>10</td></tr><tr><td>Construct new RPBA facility.</td><td>12/24/20</td><td>0</td></tr></tbody></table> Recovery Action Assessment: The design will be revised to address the omission (i.e., to include an RPBA facility) and then the CSA contractor will construct the new facility. This risk is forecast to remain realized through calendar year 2020.	Risk Recovery Action(s)	FC Date	%	Revise design to include an RPBA facility.	8/28/20	10	Construct new RPBA facility.	12/24/20	0			
Risk Recovery Action(s)	FC Date	%														
Revise design to include an RPBA facility.	8/28/20	10														
Construct new RPBA facility.	12/24/20	0														
WSD-CSS-006: Fabrication of the Equipment from the Contractor	Fabrication of critical items for the long-term storage of the Cs and Sr capsules does not go exactly as planned, resulting in design changes and rework. Risk Handling Strategy: Control Probability: Medium (26% to 74%) Worst Case Impacts: \$5M, 144 days			Risk Event: Fabrication of required equipment and items does not go according to schedule, requiring redesign or additional components that will impact the project's cost and schedule baseline. <table border="1"><thead><tr><th>Risk Recovery Action(s)</th><th>FC Date</th><th>%</th></tr></thead><tbody><tr><td>Look for more efficient ways to perform Automated Weld System (AWS) gantry seismic design.</td><td>7/30/20</td><td>50</td></tr></tbody></table> Recovery Action Assessment: A design change for the AWS was proposed and accepted by CHPRC, which would minimize crane movements of the AWS and simplify operation. Implementation of this change requires seismic considerations in the design, which was not recognized by the fabricator/designer, resulting in cost and schedule delays. Mitigation is for contractor to look for more efficient ways to perform the design and re-propose.	Risk Recovery Action(s)	FC Date	%	Look for more efficient ways to perform Automated Weld System (AWS) gantry seismic design.	7/30/20	50						
Risk Recovery Action(s)	FC Date	%														
Look for more efficient ways to perform Automated Weld System (AWS) gantry seismic design.	7/30/20	50														
WSD-W135-36: MASF Mockup Construction Subcontractor Performance	The MASF mockup construction contractor fails to perform per the proposal or fails to meet CHPRC expectations, leading to schedule delays. Risk Handling Strategy: Control Probability: Medium (26% to 74%) Worst Case Impacts: \$350K, 64 days			Risk Event: The MASF mockup construction contractor does not manage their subcontractors effectively and submits fabrication drawings that cannot be approved. Workmanship in the field is not adequate and results in nonconformance report (NCR) conditions that require rework. <table border="1"><thead><tr><th>Risk Recovery Action(s)</th><th>FC Date</th><th>%</th></tr></thead><tbody><tr><td>Set clear expectations for the quality of shop drawings.</td><td>Complete</td><td>100%</td></tr><tr><td>Work with construction contractor to expedite approval of the shop drawings for fabrication.</td><td>Complete</td><td>100%</td></tr><tr><td>Provide additional oversight of apprentice employees.</td><td>Ongoing</td><td>75%</td></tr></tbody></table> Recovery Action Assessment: No significant changes in June. Mockup construction contractor submitted fabrication drawings that were low quality and could not be approved. Multiple rounds of submittal review, comment, resubmit and review were necessary prior to authorization of shop fabrication of the structural steel, causing schedule delay. All shop drawings are now approved. Work in the field was performed using incorrect means and methods by apprentice employees without direct oversight, causing NCR conditions, which required rework, resulting in schedule delay. The contractor has implemented restrictions on performing work with certain tools and additional oversight of apprentice employees.	Risk Recovery Action(s)	FC Date	%	Set clear expectations for the quality of shop drawings.	Complete	100%	Work with construction contractor to expedite approval of the shop drawings for fabrication.	Complete	100%	Provide additional oversight of apprentice employees.	Ongoing	75%
Risk Recovery Action(s)	FC Date	%														
Set clear expectations for the quality of shop drawings.	Complete	100%														
Work with construction contractor to expedite approval of the shop drawings for fabrication.	Complete	100%														
Provide additional oversight of apprentice employees.	Ongoing	75%														

Risk Title	Unmitigated Risk Impacts	Assessment		Comments												
		Month	Trend													
RL-0013/WBS-013																
WSD-W135-37: MASF Differing Conditions	MASF mockup construction is impacted by a discovery that the actual configuration/as-found condition of MASF differs from assumed conditions. Risk Handling Strategy: Control Probability: Likely (75% to 90%) Worst Case Impacts: \$100K, 48 days			Risk Event: Extensive walk downs, drawing reviews and interviews with MASF personnel were performed prior to and during the design effort for the MASF mockup to ensure that the design for the mockup structure could be constructed accurately to replicate WESF conditions. During construction, differing as-found conditions were discovered (e.g., lead-based paint and uneven floor surface affecting levelness of the mockup structure). <table border="1"><thead><tr><th>Risk Recovery Action(s)</th><th>FC Date</th><th>%</th></tr></thead><tbody><tr><td>Incorporated lead abatement controls into a work package.</td><td>Complete</td><td>100%</td></tr><tr><td>Perform engineering evaluation of floor levelness and incorporate shims into drawings as required.</td><td>Complete</td><td>100%</td></tr><tr><td>Install shims as required.</td><td>Complete</td><td>100%</td></tr></tbody></table> Recovery Action Assessment: All risk recovery actions have been completed, and this risk is no longer being realized. As such, it will be removed from the stoplight chart prior to July reporting.	Risk Recovery Action(s)	FC Date	%	Incorporated lead abatement controls into a work package.	Complete	100%	Perform engineering evaluation of floor levelness and incorporate shims into drawings as required.	Complete	100%	Install shims as required.	Complete	100%
Risk Recovery Action(s)	FC Date	%														
Incorporated lead abatement controls into a work package.	Complete	100%														
Perform engineering evaluation of floor levelness and incorporate shims into drawings as required.	Complete	100%														
Install shims as required.	Complete	100%														
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)																
WSD-097: Major Equipment Failure – T Plant	T Plant suffers a major equipment failure (e.g., crane, primary power supply, etc.), resulting in cost impacts and schedule delays. Risk Handling Strategy: Control Probability: Medium (26% to 74%) Worst Case Impacts: \$3M, 96 days			Risk Trigger Metric: During planned facility operation activities, a suspected system component is discovered that requires attention or an unexpected malfunction results in this risk being realized. This risk will continue throughout the CHPRC contract. <table border="1"><thead><tr><th>Mitigation Action(s)</th><th>FC Date</th><th>%</th></tr></thead><tbody><tr><td>Implement aggressive corrective action/PM program.</td><td>Ongoing</td><td>N/A</td></tr></tbody></table> Mitigation Assessment: No significant changes in June. The project has commenced mitigating strategies (i.e., aggressive surveillance and maintenance activities) to help reduce this risk. The canyon crane is currently operational, and spare parts have been procured for the most critical spares.	Mitigation Action(s)	FC Date	%	Implement aggressive corrective action/PM program.	Ongoing	N/A						
Mitigation Action(s)	FC Date	%														
Implement aggressive corrective action/PM program.	Ongoing	N/A														
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)																
No high threat value risks identified in June.																
FY2020 Key Risks																
WSD-086: W&FM Industrial Accident or Contamination	An industrial accident or contamination event requires corrective actions. Risk Handling Strategy: Control Probability: Medium (26% to 74%) Worst Case Impacts: \$3M, 0 days			Risk Trigger Metric: An industrial accident or contamination event requires corrective actions, resulting in cost impacts. <table border="1"><thead><tr><th>Mitigation Action(s)</th><th>FC Date</th><th>%</th></tr></thead><tbody><tr><td>Adhere to CHPRC procedures, safety programs and training programs that are designed to minimize the potential of worker injury.</td><td>Ongoing</td><td>N/A</td></tr></tbody></table> Mitigation Assessment: No significant changes in June. This risk was identified as a key project risk for FY2020. The project continued to follow CHPRC procedures and safety programs to minimize any industrial accidents or contamination events.	Mitigation Action(s)	FC Date	%	Adhere to CHPRC procedures, safety programs and training programs that are designed to minimize the potential of worker injury.	Ongoing	N/A						
Mitigation Action(s)	FC Date	%														
Adhere to CHPRC procedures, safety programs and training programs that are designed to minimize the potential of worker injury.	Ongoing	N/A														
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 the SWOC (excluding TRU retrieval activities) and requires additional resources to respond. Risk Handling Strategy: Control Probability: Medium (26% to 74%) Worst Case Impacts: \$5M, 0 days			Risk Trigger Metric: Degraded containers are discovered in CWC. <table border="1"><thead><tr><th>Mitigation Action(s)</th><th>FC Date</th><th>%</th></tr></thead><tbody><tr><td>Perform daily/weekly waste container surveillances to identify container abnormalities.</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> Mitigation Assessment: No significant changes in June. This risk was identified as a key project risk for FY2020. Surveillances continue to be performed for the project to identify container and container cover abnormalities. The remaining containers require surveillance and enhanced monitoring.	Mitigation Action(s)	FC Date	%	Perform daily/weekly waste container surveillances to identify container abnormalities.	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
Mitigation Action(s)	FC Date	%														
Perform daily/weekly waste container surveillances to identify container abnormalities.	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-136: CWC/Waste Receiving and Processing (WRAP) Components Fail	CWC facilities and components may reach their end of life. These items will need to be replaced and/or repaired outside of planned funding profiles, resulting in cost impacts. Risk Handling Strategy: Control Probability: Medium (26% to 74%) Worst Case Impacts: \$4.1M, 0 days	<div></div>	<div></div>	Risk Trigger Metric: Maintenance activities at CWC increase due to aging facilities. <table><tr><th>Mitigation Action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>Conduct floor repairs as necessary.</td><td>Ongoing</td><td>N/A</td></tr><tr><td>Conducting doorframe replacements and electrical equipment repairs as necessary.</td><td>Ongoing</td><td>N/A</td></tr><tr><td>Draft statement of work (SOW) for WRAP roof replacement.</td><td>7/18/20</td><td>90</td></tr></table> Mitigation Assessment: No significant changes in June . This risk was identified as a key project risk for FY2020. The WRAP roof was analyzed for structural integrity following water intrusion. There was insufficient basis for the roof s integrity, which will lead to an eventual roof replacement. A SOW for the roof replacement design will be drafted this year. The delay in the forecasted completion date of mitigation actions is due to the response to COVID-19. The master documented safety analysis container stacking requirements are complete. Maintenance work at CWC will be scheduled based on facility work priorities. The one-month delay in the forecast completion date for drafting the SOW for the WRAP roof replacement was due to the RL-directed PSWO.	Mitigation Action(s)	FC Date	%	Conduct floor repairs as necessary.	Ongoing	N/A	Conducting doorframe replacements and electrical equipment repairs as necessary.	Ongoing	N/A	Draft statement of work (SOW) for WRAP roof replacement.	7/18/20	90
Mitigation Action(s)	FC Date	%														
Conduct floor repairs as necessary.	Ongoing	N/A														
Conducting doorframe replacements and electrical equipment repairs as necessary.	Ongoing	N/A														
Draft statement of work (SOW) for WRAP roof replacement.	7/18/20	90														
WSD-140: As-Found-Unknown Conditions - W&FMP Facilities	Unknowns, as found or emergent conditions, impact the operability of one or more W&FMP facilities, requiring recovery actions that result in in-scope unplanned work. Risk Handling Strategy: Accept Probability: Medium (26% to 74%) Worst Case Impacts: \$2M, 0 days	<div></div>	<div></div>	Risk Trigger Metric: Unknowns, as found or emergent conditions impact the operability of one or more W&FMP facilities, requiring recovery actions that result in in-scope unplanned work. <table><tr><th>Mitigation Action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>None identified at this time.</td><td>N/A</td><td>N/A</td></tr></table> Mitigation Assessment: No significant changes in June . This risk was identified as a key project risk for FY2020. This risk is an accepted risk, as the project cannot mitigate for unknown conditions.	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														
WSD-144: Changes to Ecology Strategy	Ecology issues a permit that significantly differs from planned scope, resulting in both cost and schedule impacts to the project. Risk Handling Strategy: Control Probability: Likely (75% to 90%) Worst Case Impacts: \$10M, 192 days	<div></div>	<div></div>	Risk Trigger Metric: Ecology issues a permit that does not align with CHPRC’s plans. RL does not appeal the permit, causing CHPRC to incorporate all permit requirements. <table><tr><th>Mitigation Action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>Continuous communication and routine meetings to address agency comments.</td><td>Ongoing</td><td>N/A</td></tr><tr><td>Periodic meetings with RL to discuss the impacts of Ecology decisions.</td><td>Ongoing</td><td>N/A</td></tr></table> Mitigation Assessment: No significant changes in June . This risk was identified as a key project risk for FY2020. W&FMP personnel continue to meet routinely with Ecology to resolve comments on permit addenda and preclude issuance of a draft permit different in scope than anticipated.	Mitigation Action(s)	FC Date	%	Continuous communication and routine meetings to address agency comments.	Ongoing	N/A	Periodic meetings with RL to discuss the impacts of Ecology decisions.	Ongoing	N/A			
Mitigation Action(s)	FC Date	%														
Continuous communication and routine meetings to address agency comments.	Ongoing	N/A														
Periodic meetings with RL to discuss the impacts of Ecology decisions.	Ongoing	N/A														
WSD-CSA-013: Cask Storage Area (CSA) Site Location Found to Have Extensive Contamination	The CSA location is found to have contaminated soil or volumes of unfavorable (e.g., loose) soils. Risk Handling Strategy: Accept Probability: Medium (26% to 74%) Worst Case Impacts: \$20K, 32 days	<div></div>	<div></div>	Risk Trigger Metric: Significant volumes of contaminated or otherwise unsuitable soils are discovered during CSA construction that cause delays and costs, resulting in the required excavation of additional soil and potentially causing the contamination of leased equipment. <table><tr><th>Mitigation Action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>None identified at this time.</td><td>N/A</td><td>N/A</td></tr></table> Mitigation Assessment: No significant changes in June . This risk has been identified as a key project risk for FY2020. This risk has been accepted, as the project has taken great precautions to plan the location of the CSA away from any potential contamination. In the unlikely event that contamination is detected within the CSA site location, project costs and a schedule delay will be accepted and shipping the contaminated soil to ERDF for disposal will proceed.	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-W135-31: Canyon Crane Non-Functional/ Not Serviceable	<p>The WESF crane was put back into limited usage for the W-130 Project; however, the crane is found to be unserviceable or fails during the W-135 Project construction and or operational activities to move Cs/Sr capsules to dry storage.</p> <p>Risk Handling Strategy: Control</p> <p>Probability: Medium (26% to 74%)</p> <p>Worst Case Impacts: \$300K, 96 days</p>	<div><div></div></div>	<div><div></div></div>	<p>Risk Trigger Metric: The canyon crane fails during use or cannot be returned to service after maintenance.</p> <table><tr><th>Mitigation Action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>Perform preventative/corrective maintenance procedures on the crane to facilitate reliability.</td><td>08/31/20</td><td>10</td></tr><tr><td>Procure critical spares.</td><td>9/30/21</td><td>0</td></tr></table> <p>Mitigation Assessment: No significant changes in June. This risk has been identified as a key risk for FY2020. Facility personnel will complete crane PMs in FY2020. Critical spares will be evaluated and procured prior to the end of FY2021.</p>	Mitigation Action(s)	FC Date	%	Perform preventative/corrective maintenance procedures on the crane to facilitate reliability.	08/31/20	10	Procure critical spares.	9/30/21	0			
Mitigation Action(s)	FC Date	%														
Perform preventative/corrective maintenance procedures on the crane to facilitate reliability.	08/31/20	10														
Procure critical spares.	9/30/21	0														
WSD-IDF-11: Discovery of Unplanned Site Conditions	<p>Unexpected site conditions are encountered during soil excavation activities, resulting in recovery actions.</p> <p>Risk Handling Strategy: Accept</p> <p>Probability: Low (10% to 24%)</p> <p>Worst Case Impacts: \$240K, 16 days</p>	<div><div></div></div>	<div><div></div></div>	<p>Risk Trigger Metric: During excavation (i.e., underground trenching for sewer, electrical and potable water), the project encounters unplanned contamination, debris, legacy waste (drums) or utilities.</p> <table><tr><th>Mitigation Action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>Review of historical as-built drawings.</td><td>Complete</td><td>100</td></tr><tr><td>Site walk downs as needed.</td><td>Ongoing</td><td>N/A</td></tr><tr><td>Radiological surveying, as needed.</td><td>Ongoing</td><td>N/A</td></tr></table> <p>Mitigation Assessment: No significant changes in June. This risk has been identified as a key project risk for FY2020. Detailed reviews of existing drawings, site walk downs and continuous site radiological surveys throughout excavation efforts are being executed as best practices, and included in the baseline; therefore, this risk is accepted with residual probability and consequences.</p>	Mitigation Action(s)	FC Date	%	Review of historical as-built drawings.	Complete	100	Site walk downs as needed.	Ongoing	N/A	Radiological surveying, as needed.	Ongoing	N/A
Mitigation Action(s)	FC Date	%														
Review of historical as-built drawings.	Complete	100														
Site walk downs as needed.	Ongoing	N/A														
Radiological surveying, as needed.	Ongoing	N/A														
Unassigned Risks (Pending ownership of identified risks/opportunities)																
No unassigned risks identified in June.																

PROJECT BASELINE PERFORMANCE

Current Month (CM)

(\$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	16.5	10.6	11.4	(5.8)	-35.3%	(0.7)	-6.8%

Numbers are rounded to the nearest \$0.1 million.

CM Schedule Performance (-\$5.8M/-35.3%)

The CM negative schedule variance was the result of the PSWO issued to CHPRC by RL on March 24, 2020. The PSWO covered non-portable work activities not associated with essential mission-critical operations that could not be performed in a safe and compliant manner consistent with the Center for Disease Control and Prevention (CDC) COVID-19 guidelines and the “Stay Home, Stay Healthy” order issued by the governor of Washington State. Non-portable work activities is work that cannot be performed in a remote manner (e.g., telework from home). In addition, current month negative schedule variance is due to MCSC project’s delay in awarding capsule storage system scope to the fabrication subcontractor. Furthermore, the material receipt completion for the MCSC project Universal Capsule Sleeves were delayed due to COVID-19 impacts to stainless steel production in France.

CM Cost Performance (-\$0.7M/-6.8%)

The CM negative cost variance resulted from a PSWO issued by RL to CHPRC on March 24, 2020. The PSWO covered non-portable work activities not associated with continuation of essential mission-critical

operations that could not be performed in a safe and compliant manner consistent with the CDC COVID-19 guidelines and the “Stay Home, Stay Healthy” order issued by the governor of Washington State. Non-portable work activities is work that cannot be performed in a remote manner (e.g., telework from home). The costs for direct labor assigned to non-portable work activities were incurred without the performance of planned work, so no earned value was associated with those costs and were the major driver of the negative cost variance.

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)	Estimate to Complete (ETC)	Variance at Completion (VAC)
Total	1,618.0	1,602.4	1,520.9	(15.6)	-1.0%	81.5	5.1%	1,675.3	1,597.1	76.2	78.2

Numbers are rounded to the nearest \$0.1 million.

CTD Schedule Performance (-\$15.6M/-1.0%)

The CTD schedule variance is within threshold.

CTD Cost Performance (+\$81.5M/+5.1%)

The CTD favorable cost variance is a result of realizing the following efficiencies:

- Organizational flattening and streamlining.
- Right-sizing capabilities for planned scope.
- Optimizing resources with reorganization and consolidation of engineering capabilities across W&FMP.
- Combined administrative/records functions across WESF and CSB.
- Removing waste from building(s) and reducing the need for inspections/surveillances.
- Reducing the size and number of radioactive areas/radioactive material and associated surveillances/routines and records.
- Tagging out unneeded equipment and reducing the frequency and number of PM activities.
- Increasing shared resources across all of SWOC.
- Reducing dedicated resources for the Corrective Action System and using project-wide support.
- Optimizing maintenance scheduling and execution and reducing operations fieldwork supervision.
- Increasing emphasis on managing planned absence coverage within existing resources.
- Simplifying and optimizing acquisition and procurement management within W&FMP.
- Eliminating the separate waste forecast system by integrating forecasting as part of the baseline process and the Solid Waste Inventory Tracking System.

Variance at Completion (+\$78.2M/+4.7%)

The CTD VAC is within threshold.

Contract Performance Report Formats are provided in Appendix A.

FUNDS vs. SPEND FORECAST (\$M)

RL-0013 Solid Waste Stabilization and Disposition	FY2020		Variance
	Projected Funding	Spending Forecast	
Waste Stabilization and Disposition	202.7	193.1	9.6
Management of Cesium and Strontium Capsules (Line Item)	14.3	1.3	13.0
RL-0013 – Total	217.0	194.4	22.6

Numbers are rounded to the nearest \$0.1 million.

Funds/Variance Analysis

The current FY2020 projected funding level of \$217.0 million has not changed from the prior month. Line item funding reflects FY2019 carryover and FY2020 new funding targets. The spending forecast of \$194.4 million reflects a decrease of approximately \$6.3 million from June, primarily for W&FMP scope that pushed into FY2021. ERDF reduced forecast due to non-labor costs being less than expected with waste generation being slow due to the Hanford Site being in an essential mission-critical operations posture in response to COVID-19.

Critical Path Analysis

Critical path analysis will be provided upon request.

MILESTONE STATUS

The following table is a one-year look ahead of project breakdown structure (PBS) RL-0013, *Hanford Federal Facility Agreement and Consent Order*-enforceable milestones, nonenforceable target due dates and commitments.

Number	Title	Due Date	Actual Date	Forecast Date	Status/Comment
M-091-53	Submit Milestone Change Request to Replace Target Dates for Capabilities to Process TRUM Waste	9/30/2018			Ecology has not agreed to the change form
M-091-03N	TPA M-091-03N Submit Revision of TRUM Waste and Mixed Low-level Waste to Ecology	9/30/2020		9/30/2020	On schedule
M-091-44T	Submit Change Request to Establish Schedule for Achieving Offsite Shipment of All TRUM Waste	9/30/2020		9/30/2020	On schedule
M-091-49A	Submit a Change Request to Establish a Schedule for Achieving the Retrieval of Retrievably Stored Waste	9/30/2020		9/30/2020	On schedule
M-091-52-T01C	Remove twenty (20) Additional Mixed Waste Containers from Outside Storage Area A and/or Outside Storage Area B	11/30/2020	4/2/2020(A)		Complete

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

Contract Section	Project	GFS/I	Status
J.12/C.2.2, C.2.3	PBS RL-0011, <i>Plutonium Finishing Plant Closure Project</i> PBS RL-0013, <i>Solid and Liquid Waste Treatment and Disposal</i>	Offsite transportation of radioactive material: RL provides equipment and government drivers to transport TRU materials outbound/inbound between the Hanford Site and northwest locations. RL is the authorized shipper, acts as signatory on the shipping papers and ensures compliance with DOE Manual 460.2-1, <i>Radioactive Material Transportation Practices Manual for Use with DOE O 460.2A</i> . RL arranges for Commercial Motor Vehicle Safety Alliance Level VI vehicle inspections and verifies that the government drivers meet the applicable U.S. 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 treatment, storage and disposal requirements.	Ongoing
J.12/C.2.3.6	PBS RL-0013, <i>Transuranic Waste Certification</i>	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-Headquarters on a complex-wide priority. Cost for shipment of TRU waste offsite is borne by the Carlsbad Field Office.	No WIPP shipments are planned within the remaining contract period of performance.

DOE ACTIONS/DECISIONS

Description	CHPRC Delivery Date	Expected RL Due Date
RL review WESF safety design strategy Revision 3	4/7/2020(A)	7/3/2020(A)
CSA – RL review/approve Preliminary Documented Safety Analysis (first FY)	5/16/2019(A)	9/28/2020
RL approve IDF final hazard categorization	6/23/2020	9/24/2020
RL review of Project W-135, WESF modifications, CD-2 and CD-3 documentation	7/20/2020	11/20/2020

Section D

Soil and Groundwater Remediation Project (RL-0030)

CH2MHILL
Plateau Remediation Company
a Jacobs company



W. F. Barrett
Vice President and
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Remediation Project

M. A. Wright
Vice President for
Project Technical
Services

June 2020
CHPRC-2020-06, 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

In June, the Soil and Groundwater Remediation Project (S&GRP) continued essential mission-critical operations in compliance with the U.S. Department of Energy (DOE), Richland Operations Office (RL) partial stop work order (PSWO) issued as a part of the Hanford Site response to the novel coronavirus (COVID-19). Progress continued on the *Comprehensive Environmental Response, Compensation, and Liability Act of 1980* (CERCLA) remedial process documentation for the River Corridor and Central Plateau. The project team continued to operate groundwater pump and treat (P&T) facilities in a safe and compliant manner. Groundwater treatment and well drilling (including development) that was completed include 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	31.3	276.8	1.6	16.0						
HX P&T	31.1	206.6	4.4	29.1						
KR-4 P&T	12.8	112.5	0.2	1.3						
KW P&T	11.7	113.3	0.4	9.1						
KX P&T	31.6	324.4	1.7	18.4						
200 West P&T	69.4	826.2	0.4	4.4	150.0	1,464.0	5.90x10 ¹⁰	1.02 x10 ¹²	0.9	52.0
Combined	187.9	1,859.8	8.7	78.3	150.0	1,464.0	5.90x10 ¹⁰	1.02 x10 ¹²	0.9	52.0
FY2020 Gold Metric	--	2,200.0	--	80.0	--	1,800.0	--	N/A	--	90.0

Current month (CM) Fiscal year (FY) to date (TD)

Well Drilling Completion by Area*	FY2020 Planned	Current Calendar Month	FY2020 Cumulative
100-KR-4	3	0	3
100-HR-3	9	0	0
200-DV-1	2	0	0
200-ZP-1	7	0	0
M-24 Milestone	3	0	0
Total FY2020 Wells	24	0	3
Site Wide Boreholes	0	0	0
	FY2019 Carryover	Current Calendar Month	Cumulative
200-BP-5	2	0	2
200-ZP-1	1	0	1
Total FY2019 Carryover Wells	3	0	3

*Well drilling "completion" indicates achieving all drilling activities (drill, construct, develop and complete).

EMS Objectives and Target Status

Objective Action Plan #	Objective	Due Date	Status
20-SGRP-OBJ-1-P1	With the suspension of biological treatment, carbon tetrachloride concentrations will be monitored in the air emissions for measuring granulated activated carbon loading and meeting regulatory limits.	7/30/2020	75%
20-SGRP-OBJ-2-P1	The number and types of spills at the S&GRP will be tracked, the workforce will be briefed on spill prevention, and if needed, a plan for reducing spills will be created.	9/30/2020	39%
20-SGRP-OBJ-3-P1	S&GRP operates six P&T facilities that remove contaminants from groundwater at the Hanford Site. The goal is to treat and remediate a total of 2.2 billion gallons of groundwater.	9/30/2020	83%
20-SGRP-OBJ-4-P1	Utilization of the new Centralized Groundwater CERCLA Waste Storage Area will lead to simplification of waste management and reduction in greenhouse gas emissions from operations vehicles.	9/30/2020	62%

TARGET ZERO PERFORMANCE

(Reported on a calendar month basis)

	CM Quantity	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	0	N/A
Total Recordable Injuries	0	1	N/A
First Aid Cases	0	4	N/A
Near-Misses	0	0	N/A

KEY ACCOMPLISHMENTS

Environmental Integration

- DOE/RL 2018-69, *The Cumulative Impact Evaluation Technical Approach Document*, Draft Revision 0, was submitted to RL. This revision incorporates responses to comments received from a Peer Review Group, the Washington State Department of Ecology (Ecology), and the U.S. Environmental Protection Agency (EPA), which engaged the U.S. Geological Survey experts for their input that was incorporated into the EPA response. The Draft Revision 0 will be used to support regulator discussions during July 2020 to hear any questions regarding how comments were addressed.

100-NR-2 Operable Unit (OU)

- Prepared comment responses to 48 additional Ecology comments on DOE/RL-2012-15, *Remedial Investigation/Feasibility Study for the 100-NR-1 and 100-NR-2 Operable Units*, Draft B. All but five comment responses were accepted by Ecology and closed. The remaining five comments are being reviewed and dispositions resubmitted.

100-HR-3 OU

- Provided RL with a white paper on June 22, 2020, that summarized results of an evaluation of current practices and regulatory requirements for the disposal of purgewater at the modular storage units (MSUs). The white paper addressed Ecology concerns that the MSUs are not declared onsite in the Record of Decision (ROD). Recommendations included submittal of a ROD non-significant change and a change to the Purgewater Removal Action Memorandum. A meeting between RL and CH2M HILL Plateau Remediation Company (CHPRC) is scheduled for July 9, 2020, on this subject.

100-KR-4 OU

- Provided DOE/RL-2019-77, *KW Soil Flushing Treatability Test Report*, Decisional Draft, to RL and EPA for concurrent review on June 1, 2020.
- Provided DOE/RL-97-01, *Interim Action Waste Management Plan for the 100-KR-4 Operable Unit*, Revision 7, Draft A, to EPA for review and comment on June 23, 2020.

Central Plateau**200-BP-5/PO-1 OUs**

- Supported the public review process for DOE/RL-2018-58, *Proposed Plan the Interim Action Remediation of the 200-BP-5 and 200-PO-1 Operable Units*, Revision 0, which began on May 4, 2020, and continues through July 8, 2020. This included supporting the public review meeting that was held on June 18, 2020.

200-UP-1 OU

- Provided RL with updated responses to EPA comments on the DOE/RL-2015-14, *200-UP-1 Performance Monitoring Plan*, Revision 1, Draft A, on May 28, 2020. RL forwarded the responses to EPA on June 8, 2020, and EPA concurred with the dispositions on June 11, 2020.

200-ZP-1 OU

- Briefed RL on June 11, 2020, on the 200-ZP-1 groundwater modeling scenarios planned to support the 200-ZP-1 Optimization Study with comparison of:
 - Continued operations at FY2019 rates
 - Pumping at 3,070 gallons per minute (gpm) (projected optimization study rate)
 - Pumping at 3,070 gpm moving all injection to the west versus current baseline
 - Moving injection into the center of the wellfield to flush higher concentration areas

200-DV-1 OU

- Transmitted DOE/RL-2019-42, *Sampling and Analysis Plan for Perched Water Extraction and Monitoring Wells in the 200-DV-1 Operable Unit*, Draft A, to RL on June 8, 2020, and RL transmitted to Ecology and EPA on June 17, 2020.

200-CP-1 OU

- Completed preparation of the draft data quality objectives (DQO) for the waste sites and buildings/structures on June 9, 2020. The draft DQO table was provided to RL for a final check before using the results to develop the characterization approach in the sampling analysis plan (SAP).
- Initiated development of the sampling strategy to address the data needs identified from the DQO on June 15, 2020. In addition to soil sampling, the strategy includes sampling structures outside the Plutonium Uranium Extraction Plant canyon, well installation based on the annual groundwater reports to identify continuing groundwater sources, and the use of a Visual Sampling Plan for large, undefined areas.

Central Plateau Resource Conservation and Recovery Act of 1976 Closure Plans

- Supported RL during the June 18, 2020, RL/Ecology meeting during which a path forward for revision to the 216-A-29 closure plan was determined and initiated preparation of the revisions.

200-WA-1 OU

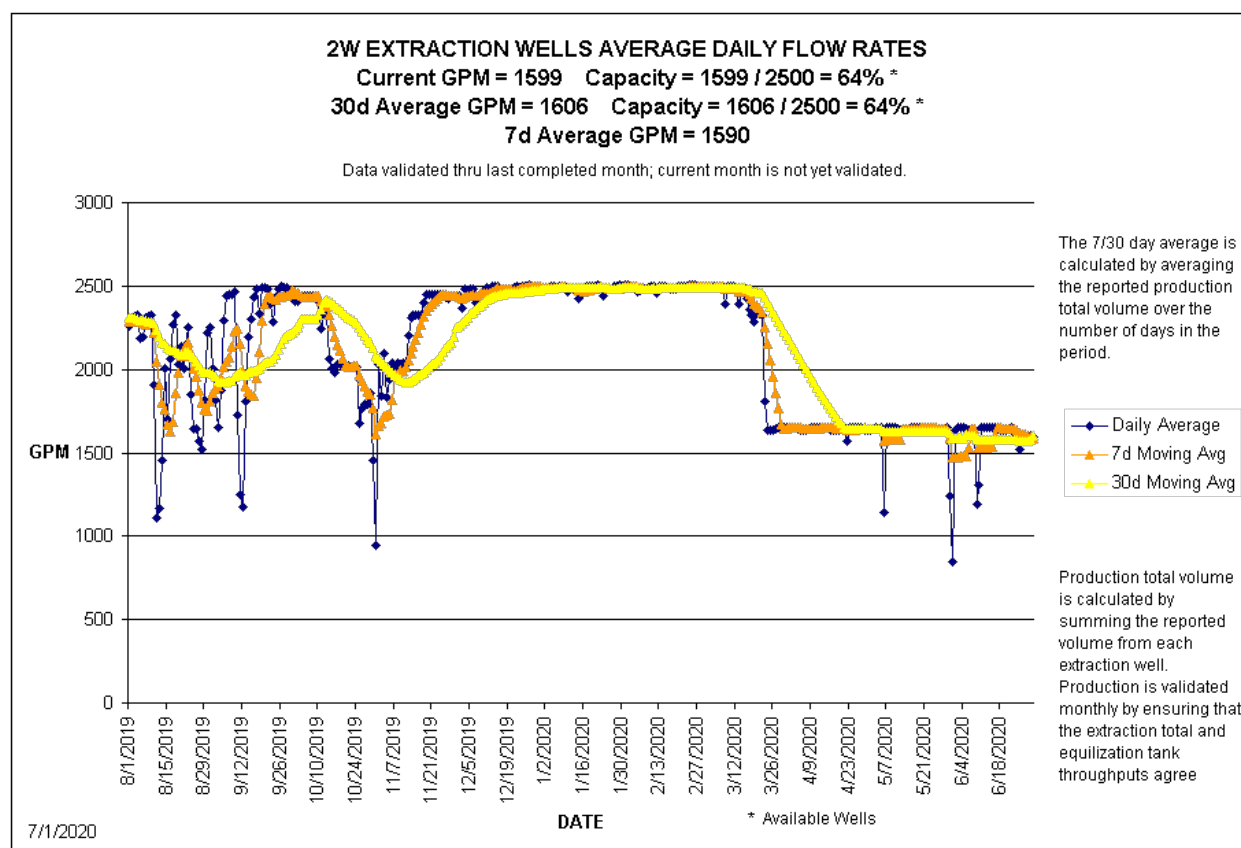
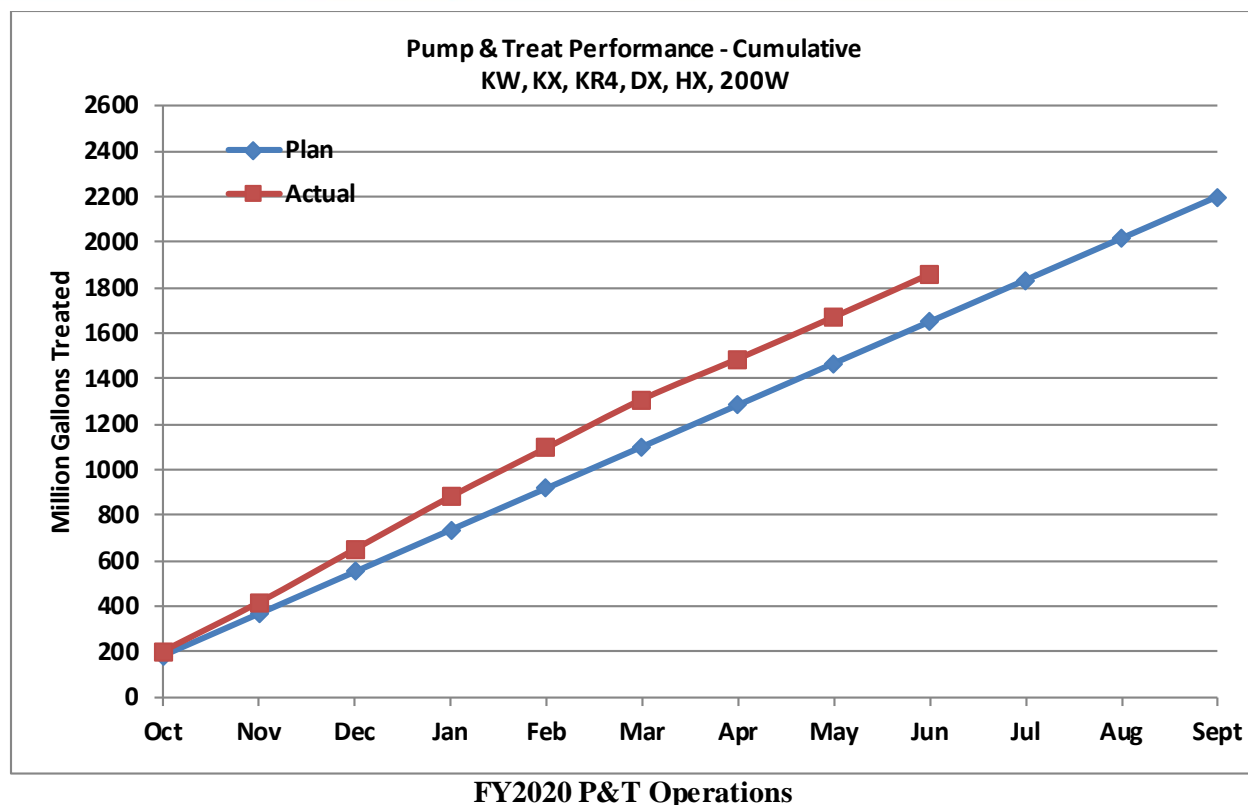
Submitted the *Representative and Analogous Waste Site Approach to Accelerate Central Plateau Inner Area Cleanup Decisions* to the *Hanford Federal Facility Agreement and Consent Order* (Tri-Party Agreement) Interagency Management Integration Team (IAMIT) on June 18, 2020. IAMIT agreement 2020-006 was approved on June 23, 2020.

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

- Operated the 200 West P&T at an average of 1,606 gpm.

100 Area P&Ts

- Operated the DX P&T at 725 gpm, below the facility capacity of 775 gpm.
- Operated the KR-4 P&T at 295 gpm, below the facility capacity of 330 gpm.
- Operated the KW P&T at 270 gpm, below the facility capacity of 330 gpm.
- Operated the KX P&T at 731 gpm, below the facility capacity of 900 gpm.
- Operated the HX P&T at 720 gpm, below the facility capacity of 900 gpm.



MAJOR ISSUES

Issue

Progress to complete the 100-BC Area ROD is being hindered by concerns from the Yakama Nation (YN) and indications they may issue a notice of intent to sue if the ROD is issued with the current plan for groundwater cleanup. Monitored natural attenuation is the preferred remedy for groundwater, and the YN does not agree with this remedy. YN also asserts that the Cr(VI) 10 µg/L surface water cleanup level is applicable throughout the aquifer per Washington State code. YN has also expressed concerns about uncertainties in modeling and risk assessment and the extent of characterization for the lower aquifer. This issue puts achievement of the RL FY2020 Key Performance Goal, *Obtain 100-BC-Area Record of Decision*, at risk. This issue also has the potential to impact all groundwater OUs with existing Cr(VI) cleanup levels by causing them to change to the lower surface water cleanup level.

Corrective Action

No corrective action has been identified.

Status

CHPRC legal and Environmental Protection & Strategic Planning groups issued a white paper on March 30, 2020, outlining the history and regulation that supports RL's position that the Cr(VI) groundwater cleanup level indicated in the 100-BC-5 proposed plan applies to most of the aquifer, and the surface water cleanup level only applies at the groundwater river interface. An additional white paper by CHPRC was issued on May 7, 2020, that evaluated the CERCLA and *Model Toxics Control Act* requirements for groundwater protection. The white paper recommended maintaining the current cleanup levels of 10 ug/L and 48 ug/L for surface water and groundwater protection, respectively. These white papers were used to brief senior RL management and facilitate discussions with EPA and Ecology as the agencies work together with their respective technical and legal organizations to address these concerns. A letter is expected from Ecology indicating Ecology's official position.

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: The following updates were made to the monthly spotlight chart: 1. Risk <i>SGW-BP5-02: BP5 – IX Skid Uncertainty</i> , was removed from spotlight chart to reflect the revised posture. The scope associated with this risk has been deferred to FY2022 as a result of the funding limitations.										
Realized Risks (Risks that are currently impacting project cost/schedule)										
SGW-216B-02: 216-B-63 Closure Plan Atypical Comments	Atypical 216-B-63 comments result in multiple rounds of comment resolution that require additional effort and duration. Risk Handling Strategy: Accept Probability: Likely (75% to 90%) Worst Case Impacts: \$174.0K, 80 days			Risk Event: RL’s 216-B-63 Closure Plan comments provided in June 2019 requested removal of the pipeline for consistency with the 241-CX Tank System Closure Plan and because they were being addressed in the 200-IS-1 OU. CHPRC was coordinating with both RL and Ecology to resolve these comments while the review was ongoing. Efforts to resolve the pipeline comment were nearing completion between RL and Ecology in July 2019 when additional Ecology comments and research requests were provided from the new Ecology lead. The issue has grown to include a more global conveyance discussion (based on a December 2019 meeting), and new comments have been received that requested additional historic information (based on a January 2020 meeting). CHPRC continues with efforts to support RL in resolving the original pipeline comments and the new comments. Ecology has expressed the desire to incorporate the resolutions into the two other closure plans currently in process (216-S-10 and 216-B-3), as well as other closure plans already certified or frozen. RL or CHPRC have not acted on this request. The issues will be revisited once resolution is reached within this 216-B-63 Closure Plan. <table><tr><th>Recovery Action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>CHPRC includes resources to support timely comment resolution, weekly meetings and, if necessary, development of white papers to provide further clarification to stakeholders. CHPRC considers these handling actions standard business practices to support performance objectives.</td><td>Ongoing</td><td>N/A</td></tr></table> Recovery Assessment: No significant changes in June. Ecology concurrence on language for the 216-B-63 Closure Plan was received on April 20, 2020. Similar comments on other closure plans will be addressed in the same approach as decided in the 216-B-63 Closure Plan. Once resolution on the 216-B-63, 216-S-10 and 216-A-29 Closure Plans is achieved, CHPRC will pursue certification.	Recovery Action(s)	FC Date	%	CHPRC includes resources to support timely comment resolution, weekly meetings and, if necessary, development of white papers to provide further clarification to stakeholders. CHPRC considers these handling actions standard business practices to support performance objectives.	Ongoing	N/A
Recovery Action(s)	FC Date	%								
CHPRC includes resources to support timely comment resolution, weekly meetings and, if necessary, development of white papers to provide further clarification to stakeholders. CHPRC considers these handling actions standard business practices to support performance objectives.	Ongoing	N/A								
SGW-216S-01: 216-S-10 Closure Plan Atypical Comments	Atypical 216-S-10 comments result in multiple rounds of comment resolution that require additional effort and duration. Risk Handling Strategy: Accept Probability: Likely (75% to 90%) Worst Case Impacts: \$174.0K, 80 days			Risk Event: RL and Ecology comments were originally received in April 2019. Since that date, additional Ecology comments were received in August, November and December 2019 as part of Ecology’s “confirm comment capture” task. Additional comments were received via the 216-B-63 Closure Plan review. <table><tr><th>Recovery Action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>CHPRC includes resources to support timely comment resolution, weekly meetings and, if necessary, development of white papers to provide further clarification to stakeholders. CHPRC considers these handling actions standard business practices to support performance objectives.</td><td>Ongoing</td><td>N/A</td></tr></table> Recovery Assessment: No significant changes in June. CHPRC has initiated comment resolution based on the approach agreed to by RL and Ecology for completing the 216-B-63 Closure Plan comments. Round three of comment resolution continues and is scheduled to complete on June 25, 2020.	Recovery Action(s)	FC Date	%	CHPRC includes resources to support timely comment resolution, weekly meetings and, if necessary, development of white papers to provide further clarification to stakeholders. CHPRC considers these handling actions standard business practices to support performance objectives.	Ongoing	N/A
Recovery Action(s)	FC Date	%								
CHPRC includes resources to support timely comment resolution, weekly meetings and, if necessary, development of white papers to provide further clarification to stakeholders. CHPRC considers these handling actions standard business practices to support performance objectives.	Ongoing	N/A								

Risk Title	Unmitigated Risk Impacts	Assessment		Comments									
		Month	Trend										
RL-0030/WBS-030													
SGW-216A-01: 216-A-29 Closure Plan Atypical Comments	Atypical 216-A-29 comments result in multiple rounds of comment resolution that require additional effort and duration. Risk Handling Strategy: Accept Probability: Likely (75% to 90%) Worst Case Impacts: \$174.0K, 80 days	<div></div>	<div></div>	Risk Event: This closure plan was “frozen” by Ecology in April 2019, with the remaining activity of certification and transmittal to occur concurrently with the in-process 216-B-63, 216-B-3 and 216-S-10 Closure Plans. During the 216-B-63 Closure Plan comment resolution meeting held in December 2019, Ecology expressed a desire to update the 216-A-29 Closure Plan upon resolution of the conveyance discussions. During the January 2020 conveyance follow-up meeting with Ecology, new comments were provided regarding a request for additional historical information and an informal statement that the other certified or frozen closure plans may also need to be revised accordingly. <table><tr><th>Recovery Action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>CHPRC includes resources to support timely comment resolution, weekly meetings and, if necessary, development of white papers to provide further clarification to stakeholders. CHPRC considers these handling actions standard business practices to support performance objectives.</td><td>Ongoing</td><td>N/A</td></tr></table> Recovery Assessment: No significant changes in June . The resolution of comments for the 216-B-63 Closure Plan and the description for conveyances in 216-B-3 will likely cause the need for revision of the currently frozen 216-A-29 Closure Plan. These revisions are needed to provide consistency between the 216-B-63, 216-B-3, 216-A-29 and 216-S-10 Closure Plans, as all four closure plans will be certified in one package.	Recovery Action(s)	FC Date	%	CHPRC includes resources to support timely comment resolution, weekly meetings and, if necessary, development of white papers to provide further clarification to stakeholders. CHPRC considers these handling actions standard business practices to support performance objectives.	Ongoing	N/A			
Recovery Action(s)	FC Date	%											
CHPRC includes resources to support timely comment resolution, weekly meetings and, if necessary, development of white papers to provide further clarification to stakeholders. CHPRC considers these handling actions standard business practices to support performance objectives.	Ongoing	N/A											
SGW-KR4-05: FS (Feasibility Study) – Greater Than Expected Comments from RL or Regulators	Atypical RL or regulator review comments result in multiple rounds of comment resolution and/or are global in nature, requiring additional time for comment incorporation and/or rework. Risk Handling Strategy: Control Probability: Likely (75% to 90%) Worst Case Impacts: \$120.0K, 48 days	<div></div>	<div></div>	Risk Event: Early collaborative reviews of the decisional draft FS by EPA has resulted in a change of approach in the alternatives evolution that created rework of the FS during preparation of the Draft A version. <table><tr><th>Recovery Action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>Develop a standardized approach to quickly evaluate and categorize comments for resolution.</td><td>Ongoing</td><td>N/A</td></tr><tr><td>Conduct routine meetings to address agency comments and to remain current on the influences from agencies.</td><td>Ongoing</td><td>N/A</td></tr></table> Recovery Assessment: No significant changes in June . Continue collaborating with EPA to help reduce the number of comments during their review.	Recovery Action(s)	FC Date	%	Develop a standardized approach to quickly evaluate and categorize comments for resolution.	Ongoing	N/A	Conduct routine meetings to address agency comments and to remain current on the influences from agencies.	Ongoing	N/A
Recovery Action(s)	FC Date	%											
Develop a standardized approach to quickly evaluate and categorize comments for resolution.	Ongoing	N/A											
Conduct routine meetings to address agency comments and to remain current on the influences from agencies.	Ongoing	N/A											
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)													
No Critical Risks identified in June .													
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)													
No High Risks identified in June .													
FY2020 Key Risks													
SGW-009: Key Environmental Modeling Hardware Failure	Computer hardware components for environmental modeling fail, requiring immediate replacement and resulting in cost and schedule impacts to CHPRC and other Hanford Site contractor’s projects. Risk Handling Strategy: Control Probability: Low (10% to 25%) Worst Case Impacts: \$350K, 25 days	<div></div>	<div></div>	Risk Event: A primary node of the Gaia Environmental modeling super computer server fails. This failure results in delays to Composite Analysis and Cumulative Impact Evaluation work activities and requires the purchase and validation of new components. <table><tr><th>Mitigation Action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>Implement the use of a virtual server for modelling activities.</td><td>TBD</td><td>0</td></tr></table> Mitigation Assessment: CHPRC is touching base with Mission Support Alliance, LLC (MSA) regularly and anticipates that they can move into more meaningful discussions to establish a path forward when the Hanford Site gets into Phase II of work resumption. CHPRC was able to work with MSA to complete the install of an additional computing node, which helps, but is still not the end vision of a virtual front-end. Once a viable mitigation action is agreed upon between stakeholders, this risk will be removed from the spotlight chart.	Mitigation Action(s)	FC Date	%	Implement the use of a virtual server for modelling activities.	TBD	0			
Mitigation Action(s)	FC Date	%											
Implement the use of a virtual server for modelling activities.	TBD	0											

Risk Title	Unmitigated Risk Impacts	Assessment		Comments						
		Month	Trend							
RL-0030/WBS-030										
SGW-171: Increase in Routine Sampling & Analysis Requirements	<p>Sampling and characterization requirements increase above planning assumptions due to changes from DQO/SAP sessions and/or other requested changes to analyses, resulting in cost impacts.</p> <p>Risk Handling Strategy: Accept</p> <p>Probability: Medium (26% to 74%)</p> <p>Worst Case Impacts: \$448K, 0 days</p>			<p>Risk Event: During review of the completed SAPs for multiple well locations, it is determined that an increase in the number of samples or complexity of sample type is above the baseline planning.</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 significant changes in June. Although a Sampling Change Board has been formed to review and validate the sampling requirements for optimization, some of the SAPs were not completed during development of the FY2020 baseline budget. For that reason, budgets may not reflect required sampling, and in-scope unplanned work may not be mitigated.</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 June.										

PROJECT BASELINE PERFORMANCE

Current Month (CM)

(\$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	10.4	7.0	7.1	(3.4)	-33.1%	(0.2)	-2.7%

Numbers are rounded to the nearest \$0.1 million.

CM Schedule Performance (-\$3.4M/-33.1%)

The CM negative schedule variance was the result of the PSWO issued to CHPRC by RL on March 24, 2020. The PSWO covered non-portable work activities not associated with essential mission-critical operations that could not be performed in a safe and compliant manner consistent with the Centers for Disease Control and Prevention COVID-19 guidelines and the “Stay Home, Stay Healthy” order issued by the governor of Washington State. Non-portable work activities are activities that cannot be performed in a remote manner (e.g., telework from home). As drilling, sampling and other S&GRP fieldwork is not considered essential mission-critical operations, those activities were demobilized and placed in a safe configuration in late March, resulting in a negative schedule variance.

CM Cost Performance (-\$0.2M/-2.7%)

The CM negative schedule variance is within reporting thresholds.

Contract-to-Date (CTD) (\$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)	Estimate to Complete (ETC)	Variance at Completion (VAC)
Total	1,723.1	1,703.3	1,655.0	(19.8)	-1.2%	48.3	2.8%	1,755.1	1,706.6	51.6	48.5

Numbers are rounded to the nearest \$0.1 million.

CTD Schedule Performance (-\$19.8M/-1.2%)

The CTD negative schedule variance is within reporting thresholds.

CTD Cost Performance (+\$48.3M/+2.8%)

The CTD positive cost variance is within reporting thresholds.

Variance at Completion (+\$48.5M/+2.8%)

The variance at completion is within reporting thresholds.

Contract Performance Report Formats are provided in Appendix A.

FUNDS vs. SPEND FORECAST (\$M)

RL-0030 Soil and Groundwater Remediation	FY2020		Variance
	Projected Funding	Spending Forecast	
Spending Forecast	126.0	108.1	17.8

Numbers are rounded to the nearest \$0.1 million.

Funds/Variance Analysis

Projected FY2020 funding in June remained at \$126 million. The spending forecast of \$108.1 million reflects an overall decrease of \$8.6 million, due to a \$5 million reduction in fee and work delays caused by the PSWO.

Critical Path Analysis

Critical path analysis will be provided upon request.

MILESTONE STATUS

The following table is a one-year look ahead of project breakdown structure RL-0030, Tri-Party Agreement-enforceable milestones, nonenforceable target due dates and commitments for CHPRC.

Number	Title	Due Date	Actual Date	Forecast Date	Status/ Comment
M-015-93C	Initiate Characterization Fieldwork for 200-SW-2 Operable Unit Landfills	9/30/2018		To be determined (TBD)	In dispute resolution
M-015-98	Complete Remedial Investigation of U Plant Related Waste Sites located in 200-WA-1	6/30/2019		TBD	In dispute resolution
M-085-70	Submit to Ecology a Remedial Investigation/Feasibility Study Work Package for 200-CB-1	9/30/2019		2/20/2023	In dispute resolution
M-015-99	Complete Remedial Investigation of Plutonium Finishing Plant (PFP) Related Waste Sites Located in 200-WA-1	12/31/2019		TBD	In dispute resolution
M-024-58M	Initiate Discussions of Well Commitments	6/1/2020	5/27/2020		Completed
M-024-71-T01	Conclude Discussions of Well Commitments Initiated under M-024-58	8/1/2020		7/30/2020	On schedule
M-085-80	Submit Remedial Investigation/Feasibility Study Work Plan for 200-CP-1 to Ecology	9/30/2020		9/20/2020	On Schedule
M-015-112	Submit Draft B 200-IS-1 RFI/CMS/RI/FS Work Plan to Ecology with Schedule Dates	11/30/2020		3/7/2023	At risk
M-024-71	Complete the Construction of All Wells Listed for CY20 and Before	12/31/2020		10/26/2021	On schedule
M-024-58N	Initiate Discussions of Well Commitments	6/1/2021		6/1/2021	On schedule

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.

DOE ACTIONS/DECISIONS*

Description	CHPRC Delivery Date	Expected RL Due Date
RL review 200-ZP-1 operations and maintenance (O&M) plan, Decisional Draft Revision 6	5/20/2020(A)	7/2/2020
RL review of the 100 Area P&T annual report draft	5/28/2020(A)	6/25/2020
RL review of KW soil flushing treatability test report decisional draft	6/1/2020(A)	6/30/2020
RL review 200 Area P&T report draft	6/10/2020(A)	7/8/2020
RL review 100-D/H waste site closeout Package B	6/17/2020(A)	7/9/2020
RL review 100-NR-2 technical impracticability (TI) applicable or relevant and appropriate requirement (ARAR) waiver request decisional draft	7/1/2020	7/30/2020
RL transmit 200-ZP-1 O&M plan Draft A to EPA for review	7/3/2020	7/17/2020
RL transmit 200-UP-1 remedial design (RD)/remedial action work plan (RAWP), Draft Revision 1 to regulators for check review	7/14/2020	7/20/2020
RL transmit 200-UP-1 performance monitoring plan Revision 1 to EPA for approval	7/14/2020	7/20/2020
RL transmit 100-HR-3 RD/RAWP Draft Revision 0 to regulators for review	7/20/2020	7/20/2020
RL transmit 200-BP-5 Waste Management Area C drilling SAP Draft A to regulators for review	7/22/2020	7/25/2020
RL certify and submit 216-S-10 pond and ditch addendum to Ecology	7/27/2020	8/9/2020
RL review of 100-KE Soil Flushing Draft Explanation of Significant Difference (ESD)	7/31/2020	8/29/2020
RL review of KW rebound study parent SAP, Decisional Draft	8/6/2020	9/4/2020
RL review of 100-D-H waste site closeout Package C	8/11/2020	8/24/2020
RL transmit 200-EA-1 RI/FS, Draft 0 to regulators	8/11/2020	8/24/2020
RL and Ecology concurrent review of the west groundwater monitoring plan draft	8/31/2020	9/14/2020
RL transmit 100-KE soil flushing draft ESD to EPA	9/16/2020	9/30/2020
RL transmit 100-HR-3 RD/RAWP Revision 0 to Ecology	9/18/2020	9/27/2020
RL approve 100-HR-3 RD/RAWP Revision 0	9/18/2020	9/27/2020
RL transmit I-129 TI ARAR waiver request Draft A to regulators for review	10/1/2020	10/15/2020
RL review 200-BP-5/200-PO-1 interim action RD/RAWP decisional draft	10/1/2020	10/30/2020

*This table identifies key DOE actions/decisions only.

Section E

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



T. E. Bratvold
Vice President for
Central Plateau Risk
Management Project

June 2020
CHPRC-2020-06, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

J. L. Casper
Vice President for
Plutonium Finishing Plant
Closure Project

PROJECT SUMMARY

In June, the Central Plateau Risk Management (CPRM) Project and the West Area Remediation Project (WARP) continued essential mission-critical operations in compliance with the U.S. Department of Energy (DOE), Richland Operations Office (RL) partial stop work order (PSWO) issued as a part of the Hanford Site response to the novel coronavirus (COVID-19). Essential mission-critical operations performed by the CPRM Project during the reporting period included the monthly As Low As Reasonably Achievable Current Technology (ALARACT) surveys at the canyon facilities and operation of the Central Radiological Count Facility. CPRM completed work area configurations to complete social distancing in MO-294 and MO-6114. WARP worked on setting up work areas to implement social distancing and progressed planning for the sampling and characterization, hazard material removal and demolition related to the demolition of the 234-5Z-BA, 234-5Z-BE and 216-ZP-1 structures.

EMS Objectives and Target Status

Objective #	Objective	Target	Due Date	Status
20-EMS-CPRM-OBJ1-P1	Improve compliance, Environmental Management System (EMS) awareness and employee involvement.	Present or facilitate a discussion of EMS topics to personnel on a minimum of four different occasions in fiscal year (FY) 2020 and recruit personnel (other than environmental) to participate in at least two-compliance review/programmatic walk downs.	9/30/2020	30%

TARGET ZERO PERFORMANCE

(Reported on a calendar month basis.)

	Current Month	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	2	N/A
Total Recordable Injuries	0	1	N/A
First Aid Cases	0	12	N/A
Near Misses	0	0	N/A

KEY ACCOMPLISHMENTS

CPRM Surveillance and Maintenance

- Completed the monthly ALARACT surveys at the canyon facilities.

Reduction-Oxidation (REDOX) Canyon Risk Mitigation

- Completed field survey and ground scans to support temporary exhaust balance of system tie-in locations.

Aging Structures Stabilization

- Received required procurements for the ventilation system of the 216-Z-2 crib and 241-Z-361 tank.
- Received required procurements for the conveyance system of 216-Z-2 and 216-Z-9 cribs and the 241-Z-361 tank.
- Approved offsite mockup plan and training matrix submittals.

West Area Remediation Project

- Planning progressed on hazardous material removal and electrical and mechanical isolation work packages related to the planned demolition of the 234-5Z-BA, 234-5Z-BE and 216-ZP-1 structures.
- Crews performed tumbleweed removal and general site cleanup activities to ensure safe and compliant site conditions.

MAJOR ISSUES

Issue

Management directed a work stand down at REDOX on October 2, 2019, to address a variety of issues, including step-off pad (SOP) upgrades, temporary lighting and lack of ventilation throughout the facility. This management-directed work stand down was intended to obtain feedback from REDOX personnel on recommendations to improve the infrastructure at REDOX to support future work scope and minimize the risk of potential issues the project has experienced previously.

Corrective Action

On October 3, 2019, CPRM and REDOX management held a meeting with REDOX personnel to identify all issues and concerns that workers experience while performing risk mitigation activities at REDOX. From this meeting, a list of actions was developed and assigned to functional managers. A phased approach was established and categorized into two sections to address the issues identified and captured as actions. Phase I consisted of improving infrastructure that would better facilitate entries into radiologically posted areas at REDOX and reviewing all governing documentation (i.e., work packages, radiological work permits, etc.) for adequacy. Phase II addressed the working conditions on the interior of REDOX in radiologically posted areas, including ways to improve ventilation and temporary power needs in the areas where risk mitigation activities were being performed. The list of actions is updated weekly and posted in a location that is easily accessible to all REDOX personnel.

Status

With engagement from REDOX personnel, REDOX management identified a path of improving the infrastructure at REDOX that includes moving the radiation zone SOP outside the facility. Procurement and activities are complete to improve the SOP. REDOX management and personnel have completed work package reviews and procedure reviews to address the future work scope. The development of a work package to install temporary power and lighting within REDOX is expected to finish in July to ensure that Phase II activities can begin after the completion of Phase I. The one-month delay in the forecasted completion date for the work package is due to the response to COVID-19.

Issue

In February, electricians entered the 224B Facility and noticed exposed electrical wiring hanging out of the back of a standalone metal equipment rack in the gallery control room. The lead electrician recognized the potential hazard and ordered the room cleared. The initial investigation determined this to be a legacy condition found in the older buildings scheduled for demolition. When the legacy buildings were closed, the common practice was to decommission the building's electrical equipment by air gapping or equipment isolation. However, records of these actions are not part of the current work record, and techniques/requirements have evolved over time.

Corrective Action

Determine how to bring the building to electrical neutrality before going to a cold and dark state and review recent events at the 224B Facility to determine if a common cause or a negative trend exists. In addition, all annual surveillance and maintenance (S&M) rounds on aged facilities are stopped until configuration control is established.

Status

Electrical investigations are on hold until the site wide PSWO is lifted.

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: Risk ZSS-008, <i>Greater Than Expected Comments from Regulators</i> , was removed from the spotlight chart, as it is no longer considered to be a threat to the project.										
Realized Risks (Risks that are currently impacting project cost/schedule)										
224B-007: Cold & Dark Latent Condition	<p>During cold and dark activities, an unexpected condition (e.g., higher-than-expected radiological readings; inaccuracies in historical drawings and documentation; and discovery of unidentified electrical, mechanical or sewer/water utilities/configuration) results in unplanned work resulting in cost and schedule impacts to the project.</p> <p>Risk Handling Strategy: Control</p> <p>Probability: Medium (26% to 74%) Worst Case Impacts: \$100K, 24 days</p>	<div><div></div></div>	<div><div></div></div>	<p>Risk Event: The risk event was due to exposed electrical wires discovered during an electrical safe condition being performed, thus posing a potential electrical risk. This was identified for all CPRM legacy facilities that are currently being electrically investigated for potential electrical risk.</p> <table><tr><th>Risk Recovery Action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>Complete electrical isolations.</td><td>August 2020</td><td>10</td></tr></table> <p>Recovery Action Assessment: No major changes in June. Electrical isolations to complete cold and dark of the 224B Facility are on hold pending lifting of the PSWO. A lockout/tagout (LOTO) was placed on the 224B Facility and had an electrical investigation completed. It was determined the facility will operate on a LOTO status until the facility is electrically cold and dark. Based on the exposed electrical discovery at the 224B Facility, CPRM has performed an extended condition verification across other potential aging facilities that may have the same potential risk factor.</p>	Risk Recovery Action(s)	FC Date	%	Complete electrical isolations.	August 2020	10
Risk Recovery Action(s)	FC Date	%								
Complete electrical isolations.	August 2020	10								
224B-008: Impacted by OHC (Other Hanford Contractors) or Other CH2MHill Plateau Remediation Company (CHPRC) Projects	<p>Delays by OHC or other CHPRC projects impact the schedule and technical approach due to inconsistencies with CHPRC execution, resulting in recovery actions.</p> <p>Risk Handling Strategy: Control</p> <p>Probability: Low (10% to 25%) Worst Case Impacts: \$30K, 12 days</p>	<div><div></div></div>	<div><div></div></div>	<p>Risk Event: MSA Electrical Utilities (EU) impacted the 224B Facility electrical deactivation. The need for unforeseen electrical isolations due to an asbestos event at 2101M removed the EU planner from completing the work package to support the 224B Facility.</p> <table><tr><th>Risk Recovery Action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>Mitigate OHC delays.</td><td>Ongoing</td><td>N/A</td></tr></table> <p>Recovery Action Assessment: No major changes in June. Insulators were loaned to MSA in June to support asbestos abatement in 2101M.</p>	Risk Recovery Action(s)	FC Date	%	Mitigate OHC delays.	Ongoing	N/A
Risk Recovery Action(s)	FC Date	%								
Mitigate OHC delays.	Ongoing	N/A								
REDOX-07: Building Accessibility due to Water Intrusion	<p>Extensive leaks are experienced in the galleries due to the current state of the annex areas and silo roof, resulting in schedule delays to the project.</p> <p>Risk Handling Strategy: Control</p> <p>Probability: Likely (75% to 90%) Worst Case Impacts: \$45K, 32 days</p>	<div><div></div></div>	<div><div></div></div>	<p>Risk Event: Leaking roofs have allowed water to accumulate in limited access areas of the facility. Due to electrical concerns, REDOX personnel have been unable to access the west end of the North Sample Gallery.</p> <table><tr><th>Risk Recovery Action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>Develop plans to remove annexes.</td><td>FY2021</td><td>10</td></tr></table> <p>Recovery Action Assessment: The new leak discovered in August FY2019 is under S&M. Plans to prepare the annexes for demolition are expected to begin in FY2021 with demolition to follow in FY2022. As a result of upcoming demolition plans, the project will not procure a contractor to patch the annex roof. Due to the current status of the project in the contract period of performance, this risk is no longer being realized and will be removed from the spotlight chart prior to July reporting.</p>	Risk Recovery Action(s)	FC Date	%	Develop plans to remove annexes.	FY2021	10
Risk Recovery Action(s)	FC Date	%								
Develop plans to remove annexes.	FY2021	10								

Risk Title	Unmitigated Risk Impacts	Assessment		Comments												
		Month	Trend													
RL-0040/WBS-040																
REDOX-09: Concerned Citizen	<p>Delays caused by public concern (i.e., stakeholders, other Hanford Site workers and concerned citizens) impact the project schedule and technical approach, resulting in recovery actions and causing unplanned, in-scope work.</p> <p>Risk Handling Strategy: Control</p> <p>Probability: Likely (75% to 90%)</p> <p>Worst Case Impacts: \$0, 16 days</p>			<p>Risk Event: A concerned citizen called a stop work, which caused delays and unplanned work necessary to address the required action.</p> <table><tr><th>Risk Recovery Action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>Procure and install the SOP trailer.</td><td>August 2020</td><td>90</td></tr><tr><td>Create and implement a phased approach to address identified concerns.</td><td>October 2020</td><td>50</td></tr><tr><td>Upgrade temporary power/lighting and localized ventilation.</td><td>October 2020</td><td>10</td></tr></table> <p>Recovery Action Assessment: Final electrical connections for the SOP trailer are expected to complete in August 2020. The forecast finish date slipped one month due to the PSWO. This risk was realized in October 2019. A detailed corrective action list was created with REDOX personnel input. A phased approach schedule was developed and implemented to address infrastructure upgrades necessary to support future work demands. Action items have been assigned to the appropriate responsible manager, and REDOX management is interfacing with personnel for weekly updates on corrective actions.</p>	Risk Recovery Action(s)	FC Date	%	Procure and install the SOP trailer.	August 2020	90	Create and implement a phased approach to address identified concerns.	October 2020	50	Upgrade temporary power/lighting and localized ventilation.	October 2020	10
Risk Recovery Action(s)	FC Date	%														
Procure and install the SOP trailer.	August 2020	90														
Create and implement a phased approach to address identified concerns.	October 2020	50														
Upgrade temporary power/lighting and localized ventilation.	October 2020	10														
REDOX-16: Facility Integrity	<p>Problems with aging building systems and components (such as roofing and overall structure) result in inoperability or require unscheduled maintenance or outages that impact planned decontamination and decommissioning activities, resulting in schedule delays and cost impacts.</p> <p>Risk Handling Strategy: Transfer</p> <p>Probability: Medium (26% to 74%)</p> <p>Worst Case Impacts: \$0, 0 days</p>			<p>Risk Event: A leaking roof results in unsafe working conditions for personnel.</p> <table><tr><th>Risk Recovery Action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>Perform cold and dark activities to shut off building power.</td><td>December 2020</td><td>40</td></tr><tr><td>Repair minor roof defects.</td><td>Ongoing</td><td>N/A</td></tr></table> <p>Recovery Action Assessment: No major changes in June. Integrity failures could lead to water issues within radiologically contaminated areas, causing a hazard to personnel. Going cold and dark will minimize the risk for electrical shock due to water. Electrical cold and dark activities have slowed, with electrical engineers and electricians unable to access specific locations of REDOX to continue building the electrical isolation index. Project workers continue to make minor repairs to leaking parts of the roof to significantly reduce water intrusion.</p>	Risk Recovery Action(s)	FC Date	%	Perform cold and dark activities to shut off building power.	December 2020	40	Repair minor roof defects.	Ongoing	N/A			
Risk Recovery Action(s)	FC Date	%														
Perform cold and dark activities to shut off building power.	December 2020	40														
Repair minor roof defects.	Ongoing	N/A														
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed)																
REDOX-05: Collapse of Sand Filter	<p>Due to the close proximity of equipment in operation (e.g., cranes, forklifts used for waste loadout, and steam lines and steam line stanchion removal activities), building age and structural integrity, a collapse of a REDOX ventilation system sand filter is experienced, resulting in cost and schedule impacts to the project.</p> <p>Risk Handling Strategy: Control</p> <p>Probability: Very low (<10%)</p> <p>Worst Case Impacts: \$260K, 48 days</p>			<p>Risk Triggers: Due to the close proximity of equipment in operation (e.g., cranes, forklifts used for waste loadout and steam line stanchion removal activities), building age and structural integrity, a collapse of a REDOX ventilation system sand filter is experienced.</p> <table><tr><th>Mitigation Action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>Establish sand filter access boundary.</td><td>October 2020</td><td>50</td></tr><tr><td>Implement a communication plan between OHCs and other CHPRC projects.</td><td>Ongoing</td><td>N/A</td></tr></table> <p>Mitigation Assessment: No major changes in June. Current work scope has not yet impacted this potential risk. Based on the contractor schedule, new temporary exhausters for REDOX are not expected to arrive until October 2020. Based on this information, the current plan would move any excavation work near the sand filters to October 2020.</p>	Mitigation Action(s)	FC Date	%	Establish sand filter access boundary.	October 2020	50	Implement a communication plan between OHCs and other CHPRC projects.	Ongoing	N/A			
Mitigation Action(s)	FC Date	%														
Establish sand filter access boundary.	October 2020	50														
Implement a communication plan between OHCs and other CHPRC projects.	Ongoing	N/A														
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)																
No high threat value risks identified in June.																
FY2020 Key Risks																
BOS-003: Facility Integrity	<p>Problems with aging buildings, systems or components (e.g., roofing and structures, etc.) result in inoperability or recovery actions, causing unplanned in-scope work (e.g., unscheduled maintenance and outages).</p> <p>Risk Handling Strategy: Control</p> <p>Probability: Likely (75% to 90%)</p> <p>Worst Case Impacts: \$1M, 0 days</p>			<p>Risk Triggers: The project experiences problems with aging building systems and components (e.g., cribs, roofing and structures, etc.) during routine S&M activities. Scheduled maintenance activities must then be performed in addition to unplanned recovery actions.</p> <table><tr><th>Mitigation Action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>Perform lifecycle evaluations of critical structures, systems, and components.</td><td>8/1/2020</td><td>85</td></tr></table> <p>Mitigation Assessment: No major changes in June. This risk was identified as a key project risk for FY2020. A subcontract to perform structural analysis of 231-Z was awarded in late April. The contract work began in June 2020. Routine S&M activities continue to be performed to mitigate risk.</p>	Mitigation Action(s)	FC Date	%	Perform lifecycle evaluations of critical structures, systems, and components.	8/1/2020	85						
Mitigation Action(s)	FC Date	%														
Perform lifecycle evaluations of critical structures, systems, and components.	8/1/2020	85														

Risk Title	Unmitigated Risk Impacts	Assessment		Comments						
		Month	Trend							
RL-0040/WBS-040										
REDOX-VS-001: Changes to Stack & Stack Monitoring Requirements Affect the Project Schedule	<p>Additional stack and stack monitoring requirements are issued by the regulators, resulting in cost impacts and schedule delays to the project.</p> <p>Risk Handling Strategy: Control</p> <p>Probability: Medium (26% to 74%)</p> <p>Worst Case Impacts: \$1.5M, 96 days</p>			<p>Risk Triggers: Regulators issue additional stack and stack monitoring requirements that mandate significant changes to the current plan. The supplemental ventilation unit is currently identified in the air-monitoring plan (AMP), as well as the associated monitoring requirements for the existing stack.</p> <table border="1"><thead><tr><th>Mitigation Action(s)</th><th>FC Date</th><th>%</th></tr></thead><tbody><tr><td>Negotiate changes to the AMP with regulators.</td><td>September 2020</td><td>15</td></tr></tbody></table> <p>Mitigation Assessment: No major changes in June. CHPRC continues to meet with representatives of RL, the U.S. Environmental Protection Agency (EPA) and the Washington State Department of Health (DOH) to discuss the ventilation improvements proposed for REDOX to gain endorsement on the proposed changes to the system and stack monitoring. Revision to the AMP was submitted to RL, EPA and DOH on May 25, 2020, for their review.</p>	Mitigation Action(s)	FC Date	%	Negotiate changes to the AMP with regulators.	September 2020	15
Mitigation Action(s)	FC Date	%								
Negotiate changes to the AMP with regulators.	September 2020	15								
Unassigned Risks (Pending ownership of identified risks/opportunities)										
No unassigned risks identified in June .										

PROJECT BASELINE PERFORMANCE

Current Month (CM)

(\$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	6.8	3.3	6.3	(3.5)	-51.1%	(2.9)	-87.9%

Numbers are rounded to the nearest \$0.1 million.

CM Schedule Performance: (-\$3.5M/-51.1%)

The CM unfavorable schedule variance was the result of the PSWO issued to CHPRC by RL on March 24, 2020. The PSWO covered non-portable work activities not associated with essential mission-critical operations that could not be performed in a safe and compliant manner consistent with the Centers for Disease Control and Prevention (CDC) COVID-19 guidelines and the “Stay Home, Stay Healthy” order issued by the governor of Washington State. Non-portable work activities is work that cannot be performed in a remote manner (e.g., telework from home). Labor resources were planned at B Plant, REDOX, Plutonium Uranium Extraction Plant (PUREX) and the Plutonium Finishing Plant south waste site were associated with essential mission critical operations. As the planned work involves fieldwork, it was demobilized and placed in a safe configuration. Fieldwork activities will restart as authorized in a phased, organized manner consistent with the CHPRC resumption of work plan.

The cost for the standby of subcontractor equipment remaining on site during this period was charged to control account 040.97.01.04. As the method of earning performance for this account is based on physical progress in the field, no performance was taken, causing the negative schedule variance.

CM Cost Performance: (-\$2.9M/-87.9%)

The CM unfavorable cost variance was the result of the PSWO issued to CHPRC by RL on March 24, 2020. The PSWO covered non-portable work activities not associated with essential mission-critical operations that could not be performed in a safe and compliant manner consistent with the CDC COVID-19 guidelines and the “Stay Home, Stay Healthy” order issued by the governor of Washington State. Non-portable work activities is work that cannot be performed in a remote manner (e.g., telework from home). CHPRC and subcontractor labor assigned to work that could not be performed in a remote manner was charged to the control account 040.97.01.04 to collect and segregate unproductive time caused by the PSWO. The cost for the standby of subcontractor equipment remaining on site during this period was charged to this account. As the method of earning performance for this account is based on physical progress in the field, no performance was taken, causing the negative cost variance.

Contract-To-Date (CTD) (\$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)	Estimate to Complete (ETC)	Variance at Completion (VAC)
Total	611.1	594.3	588.8	(16.7)	-2.7%	5.5	0.9%	638.1	651.0	62.2	(12.9)

Numbers are rounded to the nearest \$0.1 million.

CTD Schedule Performance: (-\$16.7M/-2.7%)

The CTD schedule variance is within reporting thresholds.

CTD Cost Performance: (+\$5.5M/+0.9%)

The CTD cost variance is within reporting thresholds.

Variance at Completion (-\$12.9M/-2.0%)

The VAC is within reporting thresholds.

Contract performance report formats are provided in Appendix A.

FUNDS vs. SPEND FORECAST (\$M)

RL-0040 Nuclear Facility D&D	FY2020		Variance
	Projected Funding	Spending Forecast	
Spending Forecast	93.3	89.9	3.3
Numbers are rounded to the nearest \$0.1 million.			

Funds/Variance Analysis

The FY2020 projected funding of \$93.3 million remains unchanged from last month. The FY spending forecast of \$89.9 million includes actions anticipated to achieve funding targets. The spending forecast of \$89.9 million reflects an overall decrease of \$0.1 million. This change includes an increase for the trailers to allow for social distancing, which was offset by a \$2 million reduction in fee implemented by Contract Modification 7354, which revised available fee for FY2020.

Critical Path Analysis

Critical path analysis can be provided upon request.

MILESTONE STATUS

The following table is a one-year look ahead of project breakdown structure RL-0040, *Hanford Federal Facility Agreement and Consent Order*-enforceable milestones, nonenforceable target due dates and commitments.

Number	Title	Due Date	Actual Date	Forecast Date	Status/Comment
M-016-256	Complete Removal of All Waste Sites for FY2019 as updated or modified in M-16-17-01	9/30/2019		TBD	In dispute resolution. In negotiations with RL to adjust the schedule.
M-016-250E	Submit to Ecology a 3-Year Rolling Prioritized Schedule to Implement Waste Site Removal Actions	9/30/2020		9/30/2020	On schedule.
M-085-100	Submit Removal Action Work Plan for 224T to EPA	9/30/2020		7/23/2020	On schedule.

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.

DOE ACTIONS/DECISIONS

Description	CHPRC Delivery Date	Expected RL Due Date
RL and Ecology review PUREX North Closure Plan (DOE/RL-2015-72)	07/18/2019(A)	07/06/2020
RL review and clearance 224T sampling and analysis plan (SAP) (DOE/RL-2019-37)	11/19/2019(A)	07/16/2020
RL obtain Regulator approval of Tier 2 PUREX SAP (DOE/RL-2016-46)	02/07/2020(A)	07/06/2020
RL review and clearance 224T removal action work plan (RAWP) (DOE/RL-2019-36)	02/14/2020(A)	07/16/2020
RL review PUREX RAWP (DOE/RL-2020-04)	05/20/2020(A)	08/10/2020
Regulator review PUREX Action Memorandum (DOE/RL-2016-53)	05/06/2020(A)	08/12/2020
RL obtain Regulator review of REDOX RAWP, Rev. 1 Draft (DOE/RL-2017-06)	06/29/2020	07/30/2020
RL obtain Regulator review of REDOX Air Monitoring Plan, Rev. 1, Draft (DOE/RL-2018-46)	06/29/2020	07/30/2020
RL obtain Regulator review of REDOX SAP, Rev. 1 Draft (DOE/RL-2017-05)	06/29/2020	07/30/2020

Section F

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

CH2MHILL
Plateau Remediation Company
a Jacobs company



R. M. Geimer
Vice President for
K Basin Operations

T. L. Hobbes
Vice President for
River Risk Management Project

M. A. Wright
Vice President for
Project Technical Services

June 2020
CHPRC-2020-06, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

K Basin Operations (KBO)

During June, the KBO Project continued essential mission-critical operations in compliance with the U.S. Department of Energy (DOE), Richland Operations Office (RL) partial stop work order (PSWO) issued as a part of the Hanford Site response to the novel coronavirus (COVID-19). Essential mission-critical operations included daily operations of the 400 Area and 100K Area water plants, 105K West Irradiated Fuel Storage Basin and the performance of preventative maintenance (PM) activities. As a part of the phased return to normal work locations, pre-mobilization activities were initiated with the 100K Area soil remediation subcontractor. The readiness self-assessment (RSA) Review Board for Garnet Filter Media Retrieval System (GFMRS) progressed on preparing affidavits of readiness for presentation to the CH2M HILL Plateau Remediation Company (CHPRC) readiness review team and DOE RL.

River Risk Management Project (RRMP)

The project continued essential mission-critical operations in compliance with RL's PSWO issued as a part of the Hanford Site response to COVID-19, as well as continued use of temporary alternate work locations for portable work as appropriate. Preparations continued to implement social distancing for subcontractors' staff and Radiological Control organization. A contract was established with Pacific Northwest National Laboratory (PNNL) to perform radiological testing of the acrylamide grouting that will be used for soil stabilization during B Cell excavation activities. A team was established to finalize the contamination area/high contamination area training evolution that will convene when the project enters Phase 1 of the COVID-19 Resumption to Work Plan. Equipment procurement continued for the cell dams, universal cutting tool, waste boxes, modified airlock rail system and the B Cell 10-ton crane.

EMS Objectives and Target Status

Objective #	Objective	Target	Due Date	Status
20-EMS-KBO-OBJ1-P1	Evaluation of upcoming work activities at the 100K Area, which involves water discharge to the ground at the 100K Area.	Evaluate the upcoming work by the Hanford Fire Department to ensure decontamination and decommissioning (D&D) and soil remediation activities at the 100K Area follow requirements set by DOE/RL-97-67, <i>Pollution Prevention and Best Management Practices Plan for State Waste Discharge Permits ST 4508, ST 4509, and ST 4510</i> , Revision 3, and 100K-STD-OP-52370, <i>Discharges to Ground</i> .	9/30/2020	75%
20-EMS-KBO-OBJ2-P1	Improve compliance/pollution and spill prevention.	Evaluate the status of spill prevention, use of secondary containment, universal waste and other recycling compliance, and waste reduction opportunities for compliance with CHPRC procedures.	9/30/2020	72%

TARGET ZERO PERFORMANCE

(Reported on a calendar month basis.)

	Current Month	Rolling 12 Months	Comment
Days Away, Restricted or Transferred	0	2	N/A
Total Recordable Injuries	0	1	N/A
First Aid Cases	2	12	<p>6/23/2020: While relocating mobile scaffolding, a left index finger was pinched between the scaffold and concrete block. The employee was taken to HPM Corporation (HPMC) for evaluation and returned to work without restriction. (25524)</p> <p>6/30/2020: While donning personal protective equipment (PPE), an employee felt a slight discomfort in back. When the employee turned to do a visual check for objects behind a vehicle, they felt more than a slight discomfort. The employee was taken to HPMC for evaluation and returned to work without restriction. (25526)</p>
Near Misses	0	0	N/A

KEY ACCOMPLISHMENTS

100K Basin Operations

- 100K Closure Project:
 - o 100K West Basin Deactivation
 - North Load Out Pit functional requirements document PRC-KC-00066, *Functional Requirements Document for the 105KW North Load Out Pit Retrieval System*, was drafted and circulated for comment and final review.
 - The RSA Review Board for GFM operations in the 105K West Basin progressed on preparing affidavits of readiness for presentation to the CHPRC readiness review team and RL).
 - The vertical pipe casing (VPC) team completed revisions to the draft of PRC-KC-00047, *Construction Aid For VPC Installation Into 105KW Basin*, and posted the document for review.
 - o 100K Soil Remediation
 - The Soil Remediation Team initiated pre-mobilization activities with the soil remediation subcontractor. Remediation work is forecasted to restart in early July.
- KBO Project General
 - KBO established a COVID-19 Working Group Charter, per procedure PRC-CHRT-SH-54524, *COVID-19 Working Group Charter*. The Working Group met a number of times to address frequently asked questions associated with new requirements for worker protection from COVID-19.

RRMP, 324 Building Disposition Project

- Equipment procurements continued for the following:
 - o Cell dams for the 324 Building.
 - o Universal cutting tool.
 - o Water delivery system for the airlock.
 - o Concrete box for soil waste bins.
 - o Modified airlock rail.
 - o Waste bins and waste containers for the 324 Building.
 - o Self-leveling lifting device (ready for delivery).
 - o B Cell 10-ton crane.
- Miscellaneous:
 - o Essential operations.
 - o Social distancing planning.
 - o Resumption planning.
 - o Temporary alternative work location as appropriate.
- Engineering:
 - o Ongoing support to engineered equipment procurements.
 - o Contract awarded for acrylamide radiological testing at PNNL.

Project Technical Services

- Provided current training status to 324 Building Demolition Project senior management and learner group managers to ensure they are aware of any training lapses that have occurred in preparation of work resumption following COVID-19 mitigation actions.
- Teamed with facility subject matter experts (SMEs) to develop and publish new procedure 324-MP-WM-54516, *324 Project Waste Management Program Plan*, which establishes requirements, roles and responsibilities as they apply to waste management in the 324 Project.

MAJOR ISSUES

Issue

Task Cask Assembly-1 (TCA-1) is currently staged outside of the 105K West Facility and is awaiting disposition. TCA-1 was previously used to support transfer operations between 105K East and 105K West and is internally contaminated. Based on historical data, the cask contains residual amounts of basin water and sludge material. TCA-1 requires further characterization to verify the source material, radiation levels and location of contamination in order to determine a disposal pathway.

Corrective Action

Characterization of the TCA-1 will require removal of the lid to obtain visual and radiological surveys. Due to anticipated levels of contamination and radiation, this work is presumed to pose a high radiological risk that requires mitigation through use of containments, temporary shielding and ventilation, and mockup training to complete the task. Engineering assessments along with advanced worker involvement will be necessary to plan the disposition of the TCA. Radiological engineering modeling indicates that if a dose rate measurement taken 10 inches above the bottom of the inner vessel exceeds 6 rem/hour, then the sludge heel will have to be removed and processed separately, most likely being directed to the north loadout pit VPC (if not grouted yet) or pumped into a separate approved container for disposition. If this condition does not exist, then the residual water and material can be solidified and the TCA transferred to Environmental Restoration Disposal Facility for grouting and disposal.

Status

Results from a nondestructive assay (NDA) performed on a shielded ion exchange module staged west of 105K West in December through January were evaluated as a test case to determine if the NDA of TCA-1 is feasible for identifying specific radionuclide peaks in a shielded container. While the NDA of the ion exchange module was not deemed successful due to the complex configuration of the shielded module, actinide peaks were identified through the heavy shielding, indicating it will be a viable method for determining if residual solids/sludge contained within TCA-1 need to be removed versus solidified without performing intrusive characterization. Setup of the area and completion of the NDA will be scheduled once non-essential mission-critical operations fieldwork resumes. Results of the NDA will be used to support fiscal year (FY) 2021 planning activities for dispositioning the TCA-1 contents.

Issue

On November 14, 2019, an individual at the 324 Building Disposition Project was discovered with radiological contamination on the skin after exiting the airlock. The individual was decontaminated and cleared. However, due to the event, CHPRC management suspended radiological work beyond essential mission-critical operation activities, pending identification and implementation of revised strategies and controls to reduce the potential of future contaminations.

Corrective Action




A team of SMEs from across CHPRC and Jacobs will review the strategies and controls in place and identify recommendations for improving radiological practices and controls in the building by taking a holistic look at the full spectrum of operations.


Status


The review team has provided recommendations, and the project is in the process of evaluating and implementing the recommendations.


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: The following changes have been made to the spotlight chart in June: Risk 100K-SFGF-02, 105KW SF & GF - Subcontractor Design Changes During Fab/Construction, was removed from the spotlight chart. The design is complete and CAT testing has been conducted. This risk no longer poses a threat to the project.																												
Realized Risks (Risks that are currently impacting project cost/schedule)																												
RCC-300-296-07, 300-296 Failure of a Radiochemical Engineering Cells (REC) Cranes (B Cell, A Cell, A/D & Airlock, and/or CHA Cranes)	Major crane repair must be performed during operations. This in-scope, unplanned work results in cost and schedule impacts to the project. Risk Handling Strategy: Accept Probability: Likely (75% to 90%) Worst Case Impacts: \$3,000K, 208 days			Risk Event: In August 2019, the REC A/D Crane failed during operations. <table border="1"><thead><tr><th>Recovery Action(s)</th><th>FC Date</th><th>%</th></tr></thead><tbody><tr><td>Award contract – B Cell 10-ton crane – 324 Building.</td><td>6/20/19</td><td>100</td></tr><tr><td>Vendor submit factory acceptance test/final data package – B Cell 10-ton crane.</td><td>4/2/20</td><td>100</td></tr><tr><td>Vendor delivery to Acquisition Verification Service (AVS) – B Cell 10-ton crane.</td><td>6/23/20</td><td>0</td></tr><tr><td>Perform remote decon/survey A Cell and A/D Cranes.</td><td>3/24/21</td><td>0</td></tr><tr><td>Perform follow up A Cell and A/D Crane investigation.</td><td>7/14/21</td><td>0</td></tr><tr><td>Procure/fabricate A/D Crane parts.</td><td>8/2/21</td><td>0</td></tr><tr><td>Perform A/D Crane repair.</td><td>9/14/21</td><td>0</td></tr></tbody></table> Recovery Assessment: It is anticipated that decontamination of the A/D Crane will be necessary prior to performing repairs. Procurement and fabrication of decontamination equipment has been initiated to decrease further impacts to the project. Procurement of spare parts has been delayed due to additional verification of components and measurements that cannot be acquired at this time due to COVID-19 and RL’s PSWO impacts. To assist with mitigating crane failure, the May forecasted completion date for vendor delivery of the B Cell 10-ton Crane to AVS of May 25, 2020 was not completed. The fabrication of the crane is complete; however, AVS is not accepting receipt inspections during the PSWO. The current forecast date for delivery of the crane to AVS is now June 23, 2020.	Recovery Action(s)	FC Date	%	Award contract – B Cell 10-ton crane – 324 Building.	6/20/19	100	Vendor submit factory acceptance test/final data package – B Cell 10-ton crane.	4/2/20	100	Vendor delivery to Acquisition Verification Service (AVS) – B Cell 10-ton crane.	6/23/20	0	Perform remote decon/survey A Cell and A/D Cranes.	3/24/21	0	Perform follow up A Cell and A/D Crane investigation.	7/14/21	0	Procure/fabricate A/D Crane parts.	8/2/21	0	Perform A/D Crane repair.	9/14/21	0
Recovery Action(s)	FC Date	%																										
Award contract – B Cell 10-ton crane – 324 Building.	6/20/19	100																										
Vendor submit factory acceptance test/final data package – B Cell 10-ton crane.	4/2/20	100																										
Vendor delivery to Acquisition Verification Service (AVS) – B Cell 10-ton crane.	6/23/20	0																										
Perform remote decon/survey A Cell and A/D Cranes.	3/24/21	0																										
Perform follow up A Cell and A/D Crane investigation.	7/14/21	0																										
Procure/fabricate A/D Crane parts.	8/2/21	0																										
Perform A/D Crane repair.	9/14/21	0																										
RCC-300-296-36, Contamination Experienced During Radiochemical Engineering Cells Operations	During REC cell cleanout (e.g., soil/debris removal, waste handling and facility modifications), the cask handling area (CHA), truck lock or other support area becomes contaminated or the background dose is elevated to a level that operations cannot continue as currently planned. Significant cost and schedule impacts are incurred. Risk Handling Strategy: Control Probability: Very likely (>90%) Worst Case Impacts: \$225K, 70 days			Risk Event: On November 14, 2019, low-level contamination was detected on an individual after exiting a radiological step-off pad (SOP). <table border="1"><thead><tr><th>Recovery Action(s)</th><th>FC Date</th><th>%</th></tr></thead><tbody><tr><td>Perform CHA floor scabbling and apply epoxy floorcoating.</td><td>7/17/19</td><td>100</td></tr><tr><td>Perform project resumption activities – Contaminated Area/CHA.</td><td>9/17/20</td><td>25</td></tr><tr><td>Return to Room 18 work - resumption actions.</td><td>10/20/20</td><td>10</td></tr><tr><td>Return to airlock work - resumption actions.</td><td>11/10/20</td><td>10</td></tr></tbody></table> Recovery Assessment: The forecast dates for the return to Room 18 and airlock work slipped 18 and 19 days, respectively, in June due to the impacts of the RL-directed PSWO. Resuming work scope in radiologically controlled areas within the building is pending resolution of recovery actions performed under three distinct group sets: general controlled area, Room 18 and the airlock. Upon successful completion of resumption actions and training, each group set will resume fieldwork scope.	Recovery Action(s)	FC Date	%	Perform CHA floor scabbling and apply epoxy floorcoating.	7/17/19	100	Perform project resumption activities – Contaminated Area/CHA.	9/17/20	25	Return to Room 18 work - resumption actions.	10/20/20	10	Return to airlock work - resumption actions.	11/10/20	10									
Recovery Action(s)	FC Date	%																										
Perform CHA floor scabbling and apply epoxy floorcoating.	7/17/19	100																										
Perform project resumption activities – Contaminated Area/CHA.	9/17/20	25																										
Return to Room 18 work - resumption actions.	10/20/20	10																										
Return to airlock work - resumption actions.	11/10/20	10																										
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed.)																												
No critical risks are identified in June.																												

Risk Title	Unmitigated Risk Impacts	Assessment		Comments						
		Month	Trend							
RL-0041/WBS-041										
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)										
RCC-300-296-31, 300-296 Elevated Contamination Encountered While Performing Structural Modifications	<p>To validate the assumptions supporting the 324 Building structural modification design, pilot holes will be drilled into the soil beneath B Cell to collect necessary data. If data shows contamination levels are much higher or deeper or the material encountered is different from anticipated, then an alternative approach will require the development and/or fabrication of equipment for contamination mitigation and control. These impacts will limit progress on fieldwork activities.</p> <p>Risk Handling Strategy: Accept</p> <p>Probability: Likely (75% to 90%)</p> <p>Worst Case Impacts: \$3,318K, 256 days</p>			<p>Risk Event: Unexpected contamination found while performing structural modification activities.</p> <table><tr><th>Mitigation Action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>This risk is accepted with no planned mitigation actions identified at this time.</td><td>N/A</td><td>N/A</td></tr></table> <p>Mitigation Assessment: No significant changes in June. As low as reasonably achievable (ALARA) review evaluations for process improvements were completed in May. Increased PPE and additional control measures were successfully implemented. However, these controls have greatly reduced production rates than planned. The residual impacts of this risk are currently accepted with no further mitigation actions identified.</p>	Mitigation Action(s)	FC Date	%	This risk is accepted with no planned mitigation actions identified at this time.	N/A	N/A
Mitigation Action(s)	FC Date	%								
This risk is accepted with no planned mitigation actions identified at this time.	N/A	N/A								
FY2020 Key Risks										
RCC-300-296-01, 300-296 Latent Conditions Impact Facility Modification	<p>Latent conditions, poor visibility in REC cells or drawing omissions, inconsistencies or errors impact facility modifications (e.g., mechanical, electrical industrial hygiene/radiological control hazards), resulting in unplanned work and subsequently, cost and schedule impacts.</p> <p>Risk Handling Strategy: Control</p> <p>Probability: Medium (26% to 74%)</p> <p>Worst Case Impacts: \$294.5K, 128 days</p>			<p>Risk Trigger Metric: Based on a similar event experienced on March 28, 2019, unexpected beta-gamma contamination was detected while performing clearance surveys at the 324 Building SOP. Sampling determined it to be beta contamination (suspected strontium-90) without a corresponding gamma component, resulting in project impacts.</p> <table><tr><th>Mitigation Action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>Perform radiological surveying and analysis of facility drawings to reduce unexpected conditions while preparing for remote soil excavation activities.</td><td>Ongoing</td><td>N/A</td></tr></table> <p>Mitigation Assessment: No significant changes in June. Follow-up contamination surveys were performed throughout the front side areas of the 324 Building using strontium controls (developed for Room 18) with no contamination detected. Based on the historical discovery of an elevated latent contamination level (CHPRC-1801178), this risk will be monitored continuously as routine PM activities are in place to reduce the likelihood of occurrence.</p>	Mitigation Action(s)	FC Date	%	Perform radiological surveying and analysis of facility drawings to reduce unexpected conditions while preparing for remote soil excavation activities.	Ongoing	N/A
Mitigation Action(s)	FC Date	%								
Perform radiological surveying and analysis of facility drawings to reduce unexpected conditions while preparing for remote soil excavation activities.	Ongoing	N/A								
RCC-300-296-08, 300-296 Failure of Cell Shield Door	<p>Failure of shield door(s) or crane shield door(s) shuts down cleanout of REC cells/airlock, penetration sealing in the airlock and equipment installation and other activities for remote soil removal. It may not be possible to repair a shield door due to radiation dose rate and location, resulting in cost and schedule delays.</p> <p>Risk Handling Strategy: Accept</p> <p>Probability: Likely (75% to 90%)</p> <p>Worst Case Impacts: \$460K, 96 days</p>			<p>Risk Trigger Metric: Cell shield door fails, resulting in a shutdown of cleanout activities until repairs can be completed, similar to the event that occurred in September 2019.</p> <table><tr><th>Mitigation Action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>Perform B Cell and D Cell door pin isolations.</td><td>1/4/21</td><td>0</td></tr></table> <p>Mitigation Assessment: The performance of B Cell and D Cell door pin isolations were added as a mitigating action in June. To maintain REC shield door operability, engineering evaluations were conducted, resulting in the implementation of monthly performance measures and the procurement of spare parts. These mitigation efforts will reduce the likelihood of cost and schedule consequences, as applicable.</p>	Mitigation Action(s)	FC Date	%	Perform B Cell and D Cell door pin isolations.	1/4/21	0
Mitigation Action(s)	FC Date	%								
Perform B Cell and D Cell door pin isolations.	1/4/21	0								

Risk Title	Unmitigated Risk Impacts	Assessment		Comments												
		Month	Trend													
RL-0041/WBS-041																
RCC-300-296-15, 300-296 Cell Sealing, Micropile Installation, Interference Removal, Core Drilling and Soil Stabilization Takes Longer Than Planned	<p>Unexpected field conditions are encountered during interference removal, sealing of cell penetrations and/or core drilling work scope. The unexpected field conditions subsequently cause in-scope unplanned work and result in schedule impacts to the project.</p> <p>Risk Handling Strategy: Control</p> <p>Probability: Medium (26% to 74%) Worst Case Impacts: \$3,317.6K, 96 days</p>	<div></div>	<div></div>	<p>Risk Trigger Metric: The project experiences unexpected field conditions outside its control, impacting cell sealing, micropile installation, interference removal, core drilling and soil stabilization, making it more difficult than planned.</p> <table><tr><th>Mitigation Action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>Mobilize and train a second soil stabilization crew.</td><td>12/19/19</td><td>100</td></tr><tr><td>Perform pilot-hole drilling to aid as a mitigation action for micropile installation.</td><td>Ongoing</td><td>N/A</td></tr><tr><td>Perform Bond Zone load testing.</td><td>10/6/20</td><td>0</td></tr></table> <p>Mitigation Assessment: The forecast completion date for performance of Bond Zone load testing was delayed 19 days in June due to the impacts of the RL-directed PSWO. Mitigation efforts have reduced the probability of risk occurrence from likely to medium. However, due to the uniqueness involved with the work scope, there is potential for unexpected delays and additional pilot-hole drilling efforts. Mobilizing and training of a second soil stabilization crew was completed on December 19, 2019.</p>	Mitigation Action(s)	FC Date	%	Mobilize and train a second soil stabilization crew.	12/19/19	100	Perform pilot-hole drilling to aid as a mitigation action for micropile installation.	Ongoing	N/A	Perform Bond Zone load testing.	10/6/20	0
Mitigation Action(s)	FC Date	%														
Mobilize and train a second soil stabilization crew.	12/19/19	100														
Perform pilot-hole drilling to aid as a mitigation action for micropile installation.	Ongoing	N/A														
Perform Bond Zone load testing.	10/6/20	0														
RCC-300-296-06, 300-296 Remote Equipment Failure During Operations	<p>Failures of the following procured equipment: the floor saw, master slave manipulators (MSMs) used in REC cells, Remote Excavator Arms (REA), through supports, cell dams, transfer mechanism and cameras and lights.</p> <p>Risk Handling Strategy: Control</p> <p>Probability: Low (10% to 25%) Worst Case Impacts: \$1,336K, 90 days</p>	<div></div>	<div></div>	<p>Risk Trigger Metric: Failure of remote equipment will result in schedule delays due to equipment replacement and repairs because of radiation damage to other equipment installed in the REC cells. These factors may shorten the operational life of equipment and result in replacing damaged equipment or components.</p> <table><tr><th>Mitigation Action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>Procure MSM manipulators and storage carts.</td><td>12/30/19</td><td>100</td></tr><tr><td>Procure spare upper REA.</td><td>11/23/20</td><td>27</td></tr><tr><td>Procure universal cutting tool.</td><td>12/15/20</td><td>36</td></tr></table> <p>Mitigation Assessment: In June, a new mitigation action to procure a spare upper REA was added and due to the RL-directed PSWO, the forecast completion date to procure a universal cutting tool was delayed 13 days. Potential impacts continue to be monitored and assessed for mitigation as project evolutions continue. The estimate to complete is updated monthly to reflect potential impacts of risk being realized.</p>	Mitigation Action(s)	FC Date	%	Procure MSM manipulators and storage carts.	12/30/19	100	Procure spare upper REA.	11/23/20	27	Procure universal cutting tool.	12/15/20	36
Mitigation Action(s)	FC Date	%														
Procure MSM manipulators and storage carts.	12/30/19	100														
Procure spare upper REA.	11/23/20	27														
Procure universal cutting tool.	12/15/20	36														
RCC-300-296-33, Increased Rad Exposure to Workers	<p>High dose in the airlock causes excessive radiation exposure to personnel, resulting in in-scope unplanned work impacts of cost and/or schedule.</p> <p>Risk Handling Strategy: Control</p> <p>Probability: Low (10% to 25%) Worst Case Impacts: \$240K, 36 days</p>	<div></div>	<div></div>	<p>Risk Trigger Metric: During REC entries, background and present dose could cause workers to reach allowable dose limits sooner than anticipated, resulting in cost and schedule impacts.</p> <table><tr><th>Mitigation Action(s)</th><th>FC Date</th><th>%</th></tr><tr><td>Continue the use of increased shielding and ALARA controls.</td><td>Ongoing</td><td>N/A</td></tr><tr><td>Procurement of specialized containers - GC/44 inch bins.</td><td>8/10/20</td><td>30</td></tr></table> <p>Mitigation Assessment: The forecast completion date for the procurement of specialized containers - GC/44 inch bins was delayed 14 days in June due to the impacts of the RL directed PSWO. Mitigation efforts have reduced the probability of risk occurrence to low. Procurement of specialized waste containers, shield lids and decontamination efforts has significantly minimized dose potential; however, the uniqueness of the work scope provides the potential for unexpected delays and/or cost impacts.</p>	Mitigation Action(s)	FC Date	%	Continue the use of increased shielding and ALARA controls.	Ongoing	N/A	Procurement of specialized containers - GC/44 inch bins.	8/10/20	30			
Mitigation Action(s)	FC Date	%														
Continue the use of increased shielding and ALARA controls.	Ongoing	N/A														
Procurement of specialized containers - GC/44 inch bins.	8/10/20	30														

Risk Title	Unmitigated Risk Impacts	Assessment		Comments												
		Month	Trend													
RL-0041/WBS-041																
100K-SR-05, Unexpected Site Conditions	<p>Unexpected site conditions are encountered during soil excavation activities, resulting in recovery actions, causing unplanned and project in-scope work and schedule delays.</p> <p>Risk Handling Strategy: Control</p> <p>Probability: Medium (26% to 74%) Worst Case Impacts: \$760K, 32 days</p>			<p>Risk Trigger Metric: During soil excavation activities, different site conditions including underground utilities (i.e., wiring, fiber cable, pipes, asbestos, etc.), unknown construction material and greater-than-expected quantities of contamination could be encountered, resulting in increased volume of remediated soil. In addition, the overburden soil planned for backfill contains contaminates, resulting in the need to create a new clean-fill pit.</p> <table border="1"><thead><tr><th>Mitigation Action(s)</th><th>FC Date</th><th>%</th></tr></thead><tbody><tr><td>Data collection (includes review of the Waste Information Data System information, review of historical drawings, identify contaminants of concern, civil survey, etc.).</td><td>Ongoing</td><td>N/A</td></tr><tr><td>Ground penetrating radar.</td><td>Ongoing</td><td>N/A</td></tr><tr><td>Develop/issue an approved excavation permit before remediation begins.</td><td></td><td>N/A</td></tr></tbody></table> <p>Mitigation Assessment: No significant change in June. The mitigation actions identified above are standard business practices when performing excavation activities on the Hanford Site. These steps are designed to minimize the probability of encountering unknown utilities, structures or contamination.</p>	Mitigation Action(s)	FC Date	%	Data collection (includes review of the Waste Information Data System information, review of historical drawings, identify contaminants of concern, civil survey, etc.).	Ongoing	N/A	Ground penetrating radar.	Ongoing	N/A	Develop/issue an approved excavation permit before remediation begins.		N/A
Mitigation Action(s)	FC Date	%														
Data collection (includes review of the Waste Information Data System information, review of historical drawings, identify contaminants of concern, civil survey, etc.).	Ongoing	N/A														
Ground penetrating radar.	Ongoing	N/A														
Develop/issue an approved excavation permit before remediation begins.		N/A														
Unassigned Risks (Pending ownership of identified risks/opportunities)																
No unassigned risks identified in June .																

PROJECT BASELINE PERFORMANCE

Current Month (CM)

(\$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	9.9	6.7	10.4	(3.2)	-32.4%	(3.7)	-54.7%

Numbers rounded to the nearest \$0.1 million.

CM Schedule Performance (-\$3.2M/-32.4%)

The unfavorable schedule variance for the 324 Building Disposition Project and KBO Project is the result of the PSWO issued to CHPRC by RL on March 24, 2020. The PSWO covered non-portable work activities not associated with essential mission-critical operations that could not be performed in a safe and compliant manner consistent with the Centers for Disease Control and Prevention (CDC) COVID-19 guidelines and the “Stay Home, Stay Healthy” order issued by the governor of Washington State. Non-portable work activities consist of work that cannot be performed in a remote manner (e.g., telework from home). Most RL-0041 fieldwork is not considered essential mission-critical operations. Therefore, activities were demobilized and placed in a safe configuration. CHPRC and subcontractor labor assigned to work that could not be performed in a remote manner were charged to work breakdown structure (WBS) 041.97.01.04 to collect and segregate unproductive time caused by the PSWO. The majority of Earned Value Management is based on physical progress in the field. As a result, minimal performance was taken, causing the unfavorable schedule variance.

CM Cost Performance (-\$3.7M/-54.7%)

The unfavorable cost variance for the 324 Building Disposition Project and KBO Project are the result of the PSWO issued to CHPRC by RL on March 24, 2020. The PSWO covered non-portable work activities not associated with essential mission-critical operations that could not be performed in a safe and

compliant manner consistent with CDC COVID-19 guidelines and the “Stay Home, Stay Healthy” order issued by the governor of Washington State. Non-portable work activities consist of work that cannot be performed in a remote manner (e.g., telework from home). Performance of work supporting the continuation of essential mission-critical operations and activities able to be performed in a remote manner continued to be reported to WBS 041.97.01.04. CHPRC and subcontractor labor assigned to the work scope that could not be performed in a remote manner were charged to WBS 041.97.01.04 to collect and segregate unproductive time caused by the PSWO. As a result, costs were incurred while minimal performance was taken, causing the unfavorable cost variance.

Contract-to-Date (CTD) (\$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)	Estimate to Complete (ETC)	Variance at Completion (VAC)
Total	775.2	753.7	752.1	(21.5)	-2.8%	1.6	0.2%	808.2	809.7	57.6	-1.4

Numbers are rounded to the nearest \$0.1 million.

CTD Schedule Performance (-\$21.5/-2.8%)

The CTD schedule variance is within reporting thresholds.

CTD Cost Performance (+\$1.6M/+0.2%)

The CTD cost variance is within reporting thresholds.

Variance at Completion (-\$1.4K/-0.2%)

The variance at completion is within reporting thresholds.

Contract Performance Report Formats are provided in Appendix A.

FUNDS vs. SPEND FORECAST (\$M)

RL-0041 Nuclear Facility D&D – River Corridor	FY2020		Variance
	Projected Funding	Spending Forecast	
RL-0041 Spending Forecast	150.9	146.3	4.5

Numbers are rounded to the nearest \$0.1 million.

Funds/Variance Analysis

There was no change in the FY2020 expected funding of \$150.9 million from May. The spending forecast decreased \$.6 million from May, which was primarily due to planned subcontracted work being delayed to FY2021 due the impacts of COVID-19 and the RL-directed PSWO. In addition, the 324 Bulding Disposition Project made a change in the forecast due to a reduction in a subcontractor burn rate (based on their proposal) and associated fee. Also, forecast material costs were reduced since no fieldwork is being performed.

Critical Path Analysis

Critical path analysis can be provided upon request.

MILESTONE STATUS

The following table is a one-year look ahead of project breakdown structure RL-0041 *Hanford Federal Facility Agreement and Consent Order*-enforceable milestones, nonenforceable target due dates and commitments.

Number	Title	Due Date	Actual Date	Forecast Date	Status/ Comment
M-016-178	Initiate Deactivation of the 105KW Fuel Storage Basin	12/31/2019	12/12/2019(A)		Complete
M-093-28	Submit Change Package for Proposed Interim Milestones for 105KE/KW Reactor ISS	12/31/2019	12/19/2019(A)		Complete

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None currently identified.

DOE ACTIONS/DECISIONS

Description	CHPRC Delivery Date	Expected RL Due Date
RL approve 324 Building Emergency Planning Hazards Assessment, Revision 2	3/12/2020(A)	6/11/2020(A)

Section G

Fast Flux Test Facility Closure (RL-0042)



T. E. Bratvold
Vice President for
Central Plateau Risk
Management Project

June 2020
CHPRC-2020-06, 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 (S&M) condition by the Central Plateau Risk Management (CPRM) Project. During the reporting period, the FFTF continued to maintain essential mission-critical operations in compliance with the U.S. Department of Energy (DOE), Richland Operations Office (RL) partial stop work order (PSWO) issued as a part of the Hanford Site response to the coronavirus (COVID-19).

EMS OBJECTIVES AND TARGET STATUS

None currently identified.

TARGET ZERO PERFORMANCE

(Reported on a calendar month basis.)

	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

During the PSWO due to COVID-19, CPRM crews completed monthly water plant and septic inspections in the 400 Area. Personnel performed a flow test on the argon supply system to assess the efficiency and reliability of the current system. This test will be used to support future argon system work.

MAJOR ISSUES

Issue

Initiated development of an engineering change request to replace the aging diesel engine fire pump P-28. However, work was stopped after determining that this replacement would require a long-term outage of the diesel backup to the fire water system.

Corrective Action

An alternative option is replacing the diesel fire pump P-61 in the 481-A Building. However, this work would require additional efforts to restore power to the building and install additional valves to connect the P-61 replacement to the area-wide water.

Status

Development of functional requirements for an engineering evaluation has been completed and the project has received direction to proceed from RL. A change to fiscal year (FY) 2020 planning was implemented in April to support budget requirements to address this task. A Request for Proposal (RFP) is being prepared to solicit prospective engineering firms for evaluation performance. A statement of work has been developed and the requisition necessary to issue the RFP has been approved.

RISK MANAGEMENT STATUS

None currently identified.

PROJECT BASELINE PERFORMANCE**Current Month (CM)****(\$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	0.3	0.2	0.2	(0.1)	-29.5%	0.0	19.4%

Numbers are rounded to the nearest \$0.1 million.

CM Schedule Performance: (-\$0.1M/-29.5%)

The CM schedule variance is within reporting thresholds.

CM Cost Performance: (+\$0.0M/+19.4%)

The CM cost variance is within reporting thresholds.

Contract-to-Date (CTD)**(\$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)	Estimate to Complete (ETC)	Variance at Completion (VAC)
Total	31.1	31.0	26.1	(0.1)	-0.4%	4.9	15.8%	32.3	27.6	1.5	4.8

Numbers are rounded to the nearest \$0.1 million.

CTD Schedule Performance: (-\$0.1M/-0.4%)

The CTD schedule variance is within reporting thresholds.

CTD Cost Performance: (+\$4.9M/+15.8%)

The CTD favorable cost variance is due to reduction in S&M requirements at FFTF because the facility was deactivated. In addition, the efficient use of resources supporting deactivation activities within the project scope of work contributed to this favorable cost variance.

Variance at Completion: (+\$4.8M/+14.7%)

The VAC reflects efficient use of resources supporting deactivation activities.

Contract Performance Report Formats are provided in Appendix A.

FUNDS VS. SPEND FORECAST (\$M)

RL-0042 FFTF Closure	FY2020		Variance
	Projected Funding	Spending Forecast	
Spending Forecast	4.8	3.7	1.1
Numbers are rounded to the nearest \$0.1 million.			

Funds Analysis

FY2020 projected funding of \$4.8 million includes support for electrical component failures and configuration challenges, interest by regulators requiring additional inspections and a recent failure of the water system/water piping. The spending forecast of \$3.7 million aligns with the RL Integrated Priority List. The \$100K reduction in the spending forecast from May reflects work delays associated with the RL-directed PSWO.

Critical Path Analysis

Critical path analysis is not applicable to this project. The contract scope is the performance of interim S&M 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

CH2MHILL
Plateau Remediation Company

a Jacobs company



June 2020
CHPRC-2020-06, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

CLASSIFICATION (When Filled In)

CONTRACT PERFORMANCE REPORT FORMAT 1 - WORK BREAKDOWN STRUCTURE															FORM APPROVED OMB No. 0704-0188				
															DOLLARS IN Thousands of \$				
1. CONTRACTOR					2. CONTRACT					3. PROGRAM					4. REPORT PERIOD				
a. NAME CH2M HILL Plateau Remediation Company					a. NAME Plateau Remediation Contract					a. NAME Plateau Remediation Contract					a. FROM (YYYYMMDD)				
b. LOCATION (Address and ZIP Code) Richland, WA					b. NUMBER RL14788					b. PHASE					2020 / 05 / 25				
					c. TYPE CPAF					d. SHARE RATIO					b. TO (YYYYMMDD)				
										c. EVMS ACCEPTANCE NO X YES (YYYYMMDD) 2009 / 09 / 18					2020 / 06 / 21				
5. CONTRACT DATA																			
a. QUANTITY 1	b. NEGOTIATED COST 6,852,614	c. ESTIMATED COST OF AUTHORIZED UNPRICED WORK 7,802	d. TARGET PROFIT/FEE 305,070	e. TARGET PRICE 7,157,684	f. ESTIMATED PRICE 7,129,480	g. CONTRACT CEILING 7,157,684	h. ESTIMATED CONTRACT CEILING 7,129,480	i. DATE OF OTB/OTS (YYYYMMDD)											
6. ESTIMATED COST AT COMPLETION																			
		MANAGEMENT ESTIMATE AT COMPLETION (1)		CONTRACT BUDGET BASE (2)		VARIANCE (3)		7. AUTHORIZED CONTRACTOR REPRESENTATIVE											
								a. NAME (Last, First, Middle Initial) Underwood, Teresa					b. TITLE Prime Contract Compliance Manager						
a. BEST CASE		6,776,214						c. SIGNATURE					d. DATE SIGNED (YYYYMMDD)						
b. WORST CASE		6,855,444																	
c. MOST LIKELY		6,824,410		6,860,416		36,005													
8. PERFORMANCE DATA																			
CAPN.PBS ITEM (1)		CURRENT PERIOD					CUMULATIVE TO DATE					REPROGRAMMING ADJUSTMENTS			AT COMPLETION				
		BUDGETED COST		ACTUAL	VARIANCE		BUDGETED COST		ACTUAL	VARIANCE					BUDGETED (14)	ESTIMATED (15)	VARIANCE (16)		
		WORK SCHEDULED (2)	WORK PERFORMED (3)	COST WORK PERFORMED (4)	SCHEDULE (5)	COST (6)	WORK SCHEDULED (7)	WORK PERFORMED (8)	COST WORK PERFORMED (9)	SCHEDULE (10)	COST (11)	COST VARIANCE (12a)	SCHEDULE VARIANCE (12b)	BUDGET (13)					
RL-0011 Nuclear Mat Stab & Disp PFP		0	17	1,842	17	-1,825	1,143,564	1,129,875	1,240,845	-13,689	-110,971	0	0	0	1,143,564	1,254,497	-110,933		
RL-0012 SNF Stabilization & Disp		0	0	0	0	0	759,593	759,593	729,813	0	29,780	0	0	0	759,593	729,813	29,780		
RL-0013 Solid Waste Stab & Disp		16,465	10,645	11,371	-5,820	-726	1,617,966	1,602,411	1,520,881	-15,555	81,530	0	0	0	1,675,271	1,597,093	78,178		
RL-0030 Soil & Water Rem-Grndwtr/Vadose		10,385	6,951	7,141	-3,434	-190	1,723,127	1,703,282	1,654,969	-19,845	48,313	0	0	0	1,755,126	1,706,611	48,515		
RL-0040 Nuc Fac D&D - Remainder Hanfrd		6,811	3,333	6,262	-3,478	-2,930	611,095	594,349	588,809	-16,747	5,540	0	0	0	638,075	650,961	-12,886		
RL-0041 Nuc Fac D&D - RC Closure Proj		9,932	6,715	10,386	-3,217	-3,670	775,189	753,715	752,098	-21,475	1,616	0	0	0	808,243	809,684	-1,440		
RL-0042 Nuc Fac D&D - FFTF Proj		323	227	183	-95	44	31,079	30,966	26,059	-113	4,906	0	0	0	32,315	27,555	4,760		
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		43,915	27,888	37,185	-16,028	-9,297	6,661,613	6,574,189	6,513,475	-87,424	60,715	0	0	0	6,812,187	6,776,214	35,974		
f. MANAGEMENT RESERVE														48,197					
g. TOTAL		43,915	27,888	37,185	-16,028	-9,297	6,661,613	6,574,189	6,513,475	-87,424	60,715	0	0	0	6,860,384				
9. RECONCILIATION TO CONTRACT BUDGET BASELINE																			
a. VARIANCE ADJUSTMENT																			
b. TOTAL CONTRACT VARIANCE														-87,424	60,715		6,860,384	6,776,214	84,170

*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)							
b. LOCATION (Address and ZIP Code) Richland, WA				b. NUMBER RL14788				b. PHASE				2020 / 05 / 25							
c. TYPE CPAF				d. SHARE RATIO				c. EVMS ACCEPTANCE NO <input type="checkbox"/> X <input checked="" type="checkbox"/> YES (YYYYMMDD) 2009 / 09 / 18				b. TO (YYYYMMDD) 2020 / 06 / 21							
5. PERFORMANCE DATA																			
WBS.Resp Org Group ITEM (1)		CURRENT PERIOD					CUMULATIVE TO DATE					REPROGRAMMING			AT COMPLETION				
		BUDGETED COST		ACTUAL COST WORK PERFORMED (4)	VARIANCE		BUDGETED COST		ACTUAL COST WORK PERFORMED (9)	VARIANCE		ADJUSTMENTS			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)	COST VARIANCE (12a)	SCHEDULE VARIANCE (12b)	BUDGET (13)					
34 - Env Program & Strategic Png		779	872	791	93	81	110,285	107,872	100,809	-2,412	7,063	0	0	0	0	112,820	104,241	8,579	
35 - Business Services		0	0	0	0	0	476,879	476,879	453,595	0	23,284	0	0	0	0	476,879	453,595	23,284	
36 - Prime Contract & Proj Integr		0	0	14,028	0	-14,028	1,111	1,111	54,404	0	-53,293	0	0	0	0	1,111	58,124	-57,013	
37 - Resource Mgmt & Strategic Intg		102	102	80	0	23	9,545	9,545	6,337	0	3,208	0	0	0	0	9,926	6,822	3,104	
38 - Project Technical Services		0	0	0	0	0	118,497	118,497	99,132	0	19,364	0	0	0	0	118,497	99,132	19,364	
3B - PFP Closure Project		2,539	998	2,355	-1,541	-1,356	1,060,724	1,043,770	1,157,548	-16,953	-113,778	0	0	0	0	1,076,214	1,205,494	-129,280	
3C - Waste & Fuels Management Project		13,195	7,896	5,286	-5,299	2,609	1,413,247	1,401,470	1,310,954	-11,777	90,516	0	0	0	0	1,456,833	1,370,034	86,799	
3D - Soil & Groundwater Remediation		9,581	6,053	4,445	-3,527	1,609	1,510,903	1,493,470	1,438,208	-17,433	55,263	0	0	0	0	1,540,272	1,486,168	54,104	
3G - K Basin Oper & Plateau Remediation Project		4,738	3,453	2,446	-1,284	1,008	1,031,803	1,023,990	987,406	-7,813	36,584	0	0	0	0	1,048,010	1,013,231	34,780	
3H - River Risk Management Project		8,413	5,960	4,781	-2,453	1,179	381,163	363,723	380,145	-17,440	-16,421	0	0	0	0	411,539	425,251	-13,712	
3K - Central Plateau Risk Reduction		4,568	2,553	2,975	-2,016	-422	547,458	533,862	524,937	-13,596	8,925	0	0	0	0	560,088	554,122	5,966	
b. COST OF MONEY		0	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	0	
d. UNDISTRIBUTED BUDGET																	0	0	0
e. SUBTOTAL (Performance Measurement Baseline)		43,915	27,888	37,185	-16,028	-9,297	6,661,613	6,574,189	6,513,475	-87,424	60,715	0	0	0	0	6,812,187	6,776,214	35,974	
f. MANAGEMENT RESERVE																	48,197		
g. TOTAL		43,915	27,888	37,185	-16,028	-9,297	6,661,613	6,574,189	6,513,475	-87,424	60,715	0	0	0	0	6,860,384			

CONTRACT PERFORMANCE REPORT FORMAT 3 - BASELINE														DOLLARS IN THOUSANDS		Form Approved OMB No. 0704-0188				
1. CONTRACTOR CH2M HILL Plateau Remediation Company			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: 2020/05/25 b. TO: 2020/06/21									
5. CONTRACT DATA																				
a. ORIGINAL NEGOTIATED COST \$4,312,366			b. NEGOTIATED CONTRACT CHANGE \$2,540,247		c. CURRENT NEGOTIATED COST (A + B) \$6,852,614		d. ESTIMATED COST AUTH UNPRICED WORK \$7,802		e. CONTRACT BUDGET BASE (C + D) \$6,860,416		f. TOTAL ALLOCATED BUDGET \$6,860,384		g. DIFFERENCE (E - F) \$32							
h. CONTRACT START DATE 6/19/2008			i. DEFINITIZATION DATE 6/19/2008		j. PLANNED COMPL DATE 9/30/2020		k. CONT COMPLETION DATE 9/30/2020				l. EST COMPLETION DATE 9/30/2020									
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 (18)	TOTAL BUDGET (19)
			+1 Jul-20 (4)	+2 Aug-20 (5)	+3 Sep-20 (6)	+4 Oct-20 (7)	+5 Nov-20 (8)	+6 Dec-20 (9)	FY09-13 (10)	FY14 (11)	FY15 (12)	FY16 (13)	FY17 (14)	FY18 (15)	FY19 (16)	FY20 (17)				
a. PM BASELINE (BEGIN OF PERIOD)	6,617,698	40,612	54,794	42,347	53,433	0	0	0	3,391,477	391,653	471,323	504,826	485,028	470,649	563,065	534,167	0	6,812,187		
b. BASELINE CHANGES AUTH DURING REPORT PERIOD																				
BCRA-PRC-20-019R0, HPIC Updates June FY2020																				
c. PM BASELINE (END OF PERIOD)	6,661,613	43,915	54,794	42,347	53,433	0	0	0	3,391,477	391,653	471,323	504,826	485,028	470,649	563,065	534,167	0	6,812,187		
7. MANAGEMENT RESERVE																		48,197		
8. TOTAL																		6,860,384		

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 Plateau Remediation Contract			a. FROM (YYYYMMDD)						
b. LOCATION (Address and ZIP Code) Richland, WA			b. NUMBER RL14788			b. PHASE			2020 / 05 / 25						
			c. TYPE CPAF			d. SHARE RATIO			b. TO (YYYYMMDD)						
						c. EVMS ACCEPTANCE NO <input checked="" type="checkbox"/> YES (YYYYMMDD) 2009 / 09 / 18			2020 / 06 / 21						
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 JUL 2020 (4)	+2 AUG 2020 (5)	+3 SEP 2020 (6)	+4 OCT 2020 (7)	+5 NOV 2020 (8)	+6 DEC 2020 (9)	JAN 2021 (10)	FEB 2021 (11)	MAR 2021 (12)	APR 2021 (13)	ATCOMPLETE (14)		
300 - Office of the President	16	2,302	13	15	16	-	-	-	-	-	-	-	-	-	2,346
303 - Internal Audit	4	633	4	3	3	-	-	-	-	-	-	-	-	-	643
304 - General Counsel	3	580	3	3	3	-	-	-	-	-	-	-	-	-	589
32 - Safety Health Security & Quality	54	8,991	63	63	63	-	-	-	-	-	-	-	-	-	9,179
34 - Env Program & Strategic Plng	31	6,143	42	43	41	-	-	-	-	-	-	-	-	-	6,270
35 - Business Services	49	8,546	58	59	65	-	-	-	-	-	-	-	-	-	8,730
36 - Prime Contract & Proj Integr	857	7,653	39	38	38	-	-	-	-	-	-	-	-	-	7,769
37 - Resource Mgmt & Strategic Intg	39	3,677	43	45	47	-	-	-	-	-	-	-	-	-	3,813
38 - Project Technical Services	33	9,102	40	40	40	-	-	-	-	-	-	-	-	-	9,223
3B - PFP Closure Project	95	54,970	192	191	193	149	137	141	150	108	95	89	281	56,696	
3C - Waste & Fuels Management Project	214	61,181	424	416	412	12	5	2	22	11	10	0	4	62,499	
3D - Soil & Groundwater Remediation	152	44,618	278	270	272	61	36	25	35	11	1	1	47	45,654	
3G - K Basin Oper & Plateau Remediation Project	102	35,870	216	216	208	63	55	44	58	41	42	2	1	36,816	
3H - River Risk Management Project	102	10,522	234	228	229	29	28	26	25	24	19	11	139	11,515	
3K - Central Plateau Risk Reduction	107	21,675	261	261	259	51	8	11	5	6	0	-	-	22,535	
g. TOTAL DIRECT	1,857	276,463	1,910	1,892	1,891	366	268	249	295	202	167	103	471	284,276	

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 CH2MHILL Plateau Remediation Company		a. NAME Plateau Remediation Contract			a. NAME Plateau Remediation Contract			a. FROM (YYYY/MM/DD) 2020/05/25	
b. LOCATION (Address and ZIP Code) Richland, WA 99354		b. NUMBER DE-AC06-08RL14788			b. PHASE Base			b. TO (YYYY/MM/DD) 2020/06/21	
		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:	43,915	27,888	37,185	(16,028)	-36.5%	(9,297)	-33.3%	0.64	0.75
Cumulative:	6,661,613	6,574,189	6,513,475	(87,424)	-1.3%	60,715	0.9%	0.99	1.01
	BAC	EAC	VAC in \$	VAC in %	TCPI				
At Complete:	6,812,187	6,776,214	35,974	0.5%	0.91				
Explanation of Variance/Description of Problem:									
Current Period Schedule and Cost Variance: The current month (CM) negative schedule and cost variances were the result of the PSWO issued to CHPRC by RL on March 24, 2020. The PSWO covered non-portable work activities not associated with continuation of essential mission-critical operations that could not be performed in a safe and compliant manner consistent with the Centers for Disease Control and Prevention COVID-19 guidelines and the "Stay Home, Stay Healthy" order issued by the governor of Washington State. Non-portable work activities is work that cannot be performed in a remote manner (e.g., telework from home). A large amount of discrete scope across the projects was demobilized and placed in safe configuration in late March. CHPRC and subcontractor labor assigned to work that could not be performed in a remote manner charged to segregated accounts for unproductive time caused by the PSWO. The cost for the standby of subcontractor equipment remaining on site during this period was also charged to these segregated accounts. As the method of earning performance for discrete scope is based on physical progress in the field, no performance was taken on many accounts, causing the negative schedule and cost variances.									
Cumulative Schedule Variance: The variance is within reporting thresholds.									
Cumulative Cost Variance: The variance is within reporting thresholds.									
Impact:									
Current Period Schedule: The current month schedule variance is not expected to impact the overall contract schedule.									
Current Period Cost: Cost impacts are being estimated and will be incorporated in the project estimate to complete (ETC).									
Cumulative Schedule: N/A									
Cumulative Cost: N/A									
Corrective Action:									
Current Period Schedule: No corrective actions have been identified.									
Current Period Cost: No corrective actions necessary.									
Cumulative Schedule: N/A									
Cumulative Cost: N/A									
Monthly Summary (to include technical causes of VARs, Impacts, and Corrective Action(s):									
CHPRC continues to track completion of the contract within budget. Currently, a variance at completion of \$36.0 million is projected, with an additional \$48.2 million of management reserve (MR) for a total positive variance of \$84.2 million. For June, the project was 36.5 percent behind schedule and 33.3 percent over planned cost. Contract to date the project was 1.3 percent behind schedule and 0.9 percent under planned cost.									
There was no difference between the Contract Budget Base and the Total Allocated Budget on Format 3 for the month of June. The \$32K delta is a result of rounding over time for implementation of multiple change order definitions.									
One BCR was implemented in the current period: BCRA-PRC-20-019R0, HPIC Updates June FY2020									
Contractually Required Cost, Schedule, EAC variance, Management Reserve Use									
Variance in Performance BAC and EAC: The VAC between the BAC and EAC this month is a +\$36.0 million, +0.5% and is within reporting thresholds.									

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

Format 1 and 3 Contract Data:

Contract Price Adjustments

CPS - In Process		
	Total Authorized Unpriced Work	\$7,802
Approved Adjustments to Contract Price (not reflected in B.4-1 Table)		
	Total Negotiated Cost Changes	-
	Grand Total Adjustments	7,802

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

Undistributed Budget Activity

BCR Number	Title	PBS	Fiscal Year	UB
N/A	N/A	N/A	2020	\$0

There was no change to UB in May.

Management Reserve Activity

BCR Number	Title	PBS	Fiscal Year	MR
N/A	N/A	N/A	2020	\$0

Fee Activity

BCR Number	Title	PBS	Fiscal Year	Fee
N/A	N/A	N/A	2020	\$0

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 ETC 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:
7/20/2020

Approved by:

Date:

Appendix B

Project Services and Support (WBS 000)



M. T. Hughey
Vice President for
Safety, Health, Security
and Quality

M. A. Wright
Vice President for
Project Technical
Services

June 2020
CHPRC-2020-06, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

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

D. J. Henderson
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Prime Contract and
Project Integration

M. W. Wells
Vice President for
Business Services
Chief Financial Officer

D. A. Gray
Vice President for
Resource Management
and Strategic Integration

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 crosscutting services. This section is reported quarterly.

EMS Objectives and Target Status

Objective #	Objective	Target	Due Date	Status
20-EMS-ADMIN-OBJ1-P1	Reduce energy intensity.	Increase facility occupancy rates to greater than 86 percent by compressing occupancy and vacating underutilized facilities. Occupancy compression to be maintained through disposition of buildings or square footage reduction.	9/30/2020	40%
20-EMS-PTS-OBJ1-P1	Spill prevention/waste minimization/pollution prevention.	Document quarterly surveillances on a work site assessment (WSA).	9/30/2020	50%
20-EMS-PTS-OBJ2-P1	Evaluate upcoming Project Technical Services (PTS) work activities that will involve water discharge to the ground in the 200 East Area, specifically when water is used for dust suppression during PTS project activity.	Document discussion summary in email to PTS project manager. Report quarterly.	9/30/2020	50%
20-EMS-PTS-OBJ3-P1	Monthly Chemical Management Inspection/pollution and spill prevention.	Ensure chemical products are accurately tracked, maintained and excessed/disposed. Perform quarterly assessments on chemical inventory locations.	9/30/2020	75%

TARGET ZERO PERFORMANCE

	Current Quarter	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	0	N/A
Total Recordable Injuries	0	0	N/A
First Aid Cases	0	4	N/A
Near-Misses	0	0	N/A

KEY ACCOMPLISHMENTS

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

- There have been no injuries reported during this quarter in the functional groups.
 - o Occupational Safety and Industrial Hygiene (OS&IH) accomplishments:
 - Generated and published PRC-MD-SH-54505, *COVID-19 Briefing and Implementation of Social Distancing Guidelines*.
 - Updated and reissued Course No. 6C1900, *CHPRC COVID-19 Briefing*, and associated gap training.
 - Updated the CHPRC General Hazard Analysis (GHA) to include employee health check requirements.
 - Contributed to the development of the Hanford Site Contractor Return-to-Work COVID-19 Implementation Planning Matrix.
 - Developed Injury/Illness Event Report COVID-19 Addendum to support case management decisions.
 - Supported Communications in the development of coronavirus (COVID-19) specific frequently asked questions (FAQs).
 - Completed review of SHS&Q-2020-WSA-23893, *Review of the CHPRC Bloodborne Pathogen Control Plan and Implementation*.
 - Completed quarterly review of SHS&Q-2020-WSA-23888, *CAIRS Injury and Illness Documentation*.
 - Completed heat stress technical evaluation for the use of face coverings.
 - Provided CHPRC COVID-19 briefing to CHPRC Volpentest HAMMER Federal Training Center (HAMMER) worker-trainers to support the restart of HAMMER training.
 - Participated in Unified Dose Assessment Center training session for Radiological Control (RadCon) and Industrial Hygiene points of contact.

- Performed field oversight at Environmental Restoration Disposal Facility (ERDF) to evaluate the use of face coverings.
- Completed SHSQ-2020-WSA-24041, *Personal Protective Equipment –Evaluation of usage within the projects.*
- Completed SHS&Q-2020-WSA-24048, *Automated External Defibrillators.*
- o RadCon accomplishments:
 - Conducted monthly Richland Operations Office (RL) ‘Stoplight’ meeting to discuss RadCon performance.
 - Conducted monthly RadCon manager’s (RCM) presentations to RL.
 - Continued work with improving, troubleshooting and testing of Sentinel software and personnel access issues.
 - Continued progress noted in Radiological Control First Line Manager (RCFLM) and RCM forum meetings.
 - Continued to work with Mission Support Alliance, LLC (MSA) to resolve Survey Simple software issues.
 - Continued to provide program and project support to contamination control issues at the 324 Building Demolition Project, including participation in development and commencement of advanced doffing training for radiological workers. Advanced training was evaluated and determined to be need at Central Plateau Risk Management (CPRM).
 - Continued evaluation for a new sealed source control database in development.
 - Continued evaluation of Smear, Air, Lapel Tool revision.
 - Continued with new alpha/beta continuous air monitor testing and evaluation at the Waste and Fuels Management Project.
 - Continued Sentinel Radiological Work Permit Preparer’s course training of personnel.
 - Hired and commenced initial qualifications for a radiological program health physicist.
 - Continued procedure and software changes to support the approval of the Hanford Forum verification survey technical position document.
 - Commenced review/approval on Technical Evaluations for Soil and Groundwater Remediation Project (S&GRP) Contaminated Media, B Plant.
 - Approved Technical Evaluations for the 203A Plutonium Uranium Extraction (PUREX) acid pump house, SWOC HTDs, 600 BCCA.
 - Completed an evaluation of missed bioassay appointments versus organizational no-show charges from 2017 to present.
 - Continued to work with Plutonium Finishing Plant (PFP) and Resource Management & Strategic Integration (RM&SI) to establish a radiological resource redeployment strategy.
 - Continued reoccurring monthly interface meetings with the Radiation Protection program manager, Environmental Safety and Health directors, RadCon managers and the Radiological Protection director.
 - Continued to support the Radiological Protection director reoccurring rotating meeting to attend project radiological control technician (RCT) morning meetings to facilitate direct communications.
 - Developed and implemented social distancing survey protocol as well as personal protective equipment (PPE) minimization and alternatives guidelines.
 - Continued evaluation on the use of the Centers for Disease Control (CDC) ultraviolet lights to disinfect radiological instrumentation.

- Based on sustained improved performance, discontinued the utilization of Radiological Oversight & Assistance and subsequent procedures.
- Conducted National Registry of Radiation Protection Technologists exam preparation course for radiological staff professional development.
- Briefed the U.S. Department of Energy (DOE) Headquarters letter, EXEC-2020-1631, “Temporary Suspension and Exercise of Enforcement Discretion for Certain Safety Requirements and Requirements During Pendency of the COVID-19 Crisis” to address training extensions.
- Commenced revisions to statement of work documents for radiological instruments, dosimetry and radiological records services.
- Developed a cost savings and benefit summary to support upgrades to Sentinel Sample Manager Software.
- Developed and implemented training and bioassay extensions within dosimetry and Sentinel.
- Commenced revision to PRC-1307-CDMP-0127, *Radiological Engineering Methods Technical Basis Document*.
- Revised PRC-1209-CDMP-0118, *CHPRC Disposable Radiological PPE Selection Criteria*, to define gloves, standard gloves and clarify term “surgeons gloves.”
- Commenced creation of the technical basis for CHPRC radiological protocol for entering buildings not routinely occupied.
- Completed assessments SHS&Q-2020-WSA-24754, *Radiological Instrumentation Program* and SHS&Q-2020-WSA-24056, *Radiation Protection Program Subpart K, Design and Control and Safety Management Program (SMP) Lines of Inquiry (LOI) 7-3-1 and 7-3-2*.
- Performed a technical review of the 324 Building soil and debris removal dose estimates.
- Conducted Company Technical Authority / Project Point of Contact meetings for all radiological functional areas.
- Coordinated with other Hanford contractors (OHCs) on a plan to ensure radiological instrumentation is available to support a phased return-to-work resumption plan.
- Approved revision to PRC-1205-TED-0110, *Alternate whole body surveys at the 105KW Basin Contaminated Area (CA) and the 105KW Annex CA*.
- Issued interoffice memorandum CHPRC-2002041, *Extended Dosimeter Wear Periods in 2020 Due to COVID-19*.
- Approved PRC-0906-PIR-0017, *Radiological Source Certifications*, Revision 1.
- o Nuclear Operations Support & Compliance accomplishments:
 - Correspondence transmitted to RL:
 - Letter, CHPRC-2001324, *Submittal of the 2020 Annual Update of the Reduction-Oxidation Facility Safety Basis and the Unreviewed Safety Question Determinations Summary*, dated April 6, 2020.
 - Letter, CHPRC-2001331, *Submittal of the 2020 Annual Unreviewed Safety Question Determinations Summary for the Plutonium Finishing Plant*, dated April 6, 2020.
 - Letter, CHPRC-2001110, *Transmittal of the Management of Cesium and Strontium Capsules Project (W-135) Safety Design Strategy, CHPRC-02236, Revision 3, to RL for Review and Approval*, dated April 6, 2020.
 - Letter, CHPRC-2001423, *Submittal of the 2020 Annual Update of the Plutonium-Uranium Extraction Facility Safety Basis and the Unreviewed Safety Question Determination Summary*, dated April 13, 2020.

- Letter, CHPRC-1804279.2, *Transmittal of the Final Hazard Categorization for Trench 94 in Burial Ground 218-E-12B*, CHPRC-02902 Revision 0, dated April 20, 2020.
- Letter, CHPRC-2001600, *Annual Review of the 'Package-Specific Safety Document for Steel Drums,' CHPRC-01039, Revision 3*, dated April 29, 2020.
- Letter, CHPRC-2001962, *Transmittal of the 2019 through 2020 Annual Unreviewed Safety Question Determinations Summary for CHPRC Transportation Safety*, dated June 8, 2020.
- Letter, CHPRC-2002017, *Transmittal of the 2020 Annual Update of the Waste Encapsulation and Storage Facility Safety Basis and the Unreviewed Safety Question Determinations Summary*, dated June 10, 2020.
- Letter, CHPRC-2002075, *Documentation of the Final Hazard Categorization of the 231-Z Facility*, dated June 16, 2020.
- Letter, CHPRC-2002269, *Transmittal of the 2020 Annual Update of the B Plant Documented Safety Analysis*, HNF-14804, Revision 9; and the *Unreviewed Safety Question Determinations Summary*, dated June 30, 2020.
- Correspondence received from RL:
 - Letter, 20-NSD-0017_RL, *Approval of the 2019 Annual Update to HNF-11724, "CH2M HILL Plateau Remediation Company Safety Management Programs,"* Revision 16, dated April 17, 2020.
 - Surveillance DOE-ASMT-2020-3988, Nuclear Safety 2020 Annual Update of REDOX Safety Basis (No Changes Requiring SER Revision).
 - Surveillance DOE-ASMT-2020-4257, Nuclear Safety 2020 Annual Update of PUREX Safety Basis (No Changes Requiring SER Revision).
 - Letter, 20-NSD-2020_RL, *Transmittal of Comments on the 2020 Annual Update to the Tank 241-Z-361 Documented Safety Analysis*, HNF-20503, Revision 4; the *Technical Safety Requirements for the Tank 241-Z-361 Facility*, HNF-20504, Revision 5, April 24, 2020.
 - Letter, 20-NSD-0021_RL, *Approval of the One-Time Request for Shipment for Sludge Transport from K West Basin to T Plant*, CHPRC-03111, Revision 4, May 11, 2020.
 - Letter, 20-NSD-0022_RL, *Transmittal of the "Final Hazard Categorization for Trench 94 in Burial Ground 218-E-12B"*.
 - Surveillance DOE-ASMT-2020-4142, Solid Waste Operations Complex Master Documented Safety Analysis Review.
 - Surveillance DOE-ASMT-2020-4403, EA-31, Safety Basis Training and Qualification.
 - Surveillance DOE-ASMT-2020-3669, Functional Area Performance Evaluation of Nuclear Safety (FY20 Q2).
 - Surveillance DOE-ASMT-2020-3675, Functional Area Performance Evaluation of Transportation (FY20 Q2).
 - Operational Awareness (OA) DOE-ASMT-2020-4819, *Hazards Analysis Meeting Observation to Support Incorporation of D&D activities into the 105KW Facility DSA and TSR*, Revision 3.
 - OA DOE-ASMT-2020-4539, *Review Comment Record for Waste Handling Facility*.
 - OA DOE-ASMT-2020-4644, *Review of "draft" HNF-63250, Revision 0, F-SPA*.
 - OA DOE-ASMT-2020-4604, *Review of Hanford Sitewide Transportation Safety Document (TSD), Revision 3*.

- o Contractor Assurance Regulatory Reporting accomplishments:
 - Screened 179 Condition Reports (CRs)
 - No significant issues were identified.
 - Two adverse issues were identified.
 - 114 Track Until Fixed issues were identified.
 - 42 Trend Only items were identified.
 - 142 Opportunities for Improvement (OFI) items were identified.
 - Seven Screened Out.
 - Closed 315 CRs administratively.
 - Closed 496 CR actions administratively.
 - Provided Course No. 600082, *CHPRC Responsible Manager Training, Issues Management*, to CHPRC personnel.
 - Provided full-time support to PFP Issues Management and Occurrence Reporting activities.
 - Provided Occurrence Reporting support to the River Risk Management Project (RRMP).
 - Supported Apparent Cause Evaluation and submitted the final report for Occurrence Reporting & Processing System (ORPS) report EM-RL--CPRC-324FAC-2020-0001, *The Door On a 240VAC Disconnect Was Found Ajar*.
 - Provided support for the bi-monthly Defense Nuclear Facilities Safety Board (DNFSB) Resident Inspector Meeting.
 - Provided 46 documents in response to DNFSB requests for information.
 - Provided support to the DNFSB Hanford Site Resident Inspectors.
 - Coordinated review and comment resolution of the Weekly Hanford Site Resident Inspector Report.
 - Provided support and coordination for an upcoming Emergency Preparedness and Radiological Program Review by the DNFSB (teleconference).
 - Submitted three internal Lessons Learned Reports in OPEXShare: 2020-CPRM-0001, *Unexpected Exposed Electrical Components at 224-B Building*; 2020-KBO-0001 *Inadequate Review of Work Control Document Leads to Improper Use of PPE*; 2020-CPRM-0002, *Importance of Comprehensive Hazards Analysis, Placement of Air Samplers and Prompt Notifications*.
 - Published the monthly Contractor Assurance System Summary Report.
 - Initiated development of computer-based training (CBT) for Course No. 080983, *DOE Enforcement Program (PAAA/WSH) Overview Training*.
 - Provided leadership and technical support to the development of the CHPRC Integrated Contractor Assurance System (iCAS), including assessments, issues management, nonconformance reporting.
- o Performance Oversight, Assessment, and Quality Assurance accomplishments:
 - Issued final report for the 10 CFR 835, Subpart M, *Sealed Radioactive Source Control*, assessment. The assessment resulted in one Finding and four OFIs.
 - Completed revision and issued procedure PRC-PRO-QA-9662, *Independent Assessment Process*.
 - Initiated/continued development of assessment plans for 10 CFR 835, Subpart E, *Monitoring of Individuals and Areas*, and Subpart L, *Contamination Control*.
 - Developed a training matrix for 10 CFR 835 *Triennial Assessors*.
 - Completed a periodic review and modified CBT Course No. 604010, *Assessment Fundamentals* storyboard.

- Initiated the development of the process for Quarterly Independent Assessments of the Central Plateau Remediation Contract Projects.
- Completed and distributed SHS&Q-2020-SURV-24800, *PRC-MP-QA-599 Section 8.0, Inspection and Acceptance Testing*.
- Completed surveillance SHS&Q-2020-SURV-24802, *PRC-MP-QA-599, Section 13, Commercial Grade Dedication Items & Services*.
- Completed surveillance SHS&Q-2020-SURV-26068, *PRC-MP-QA-599 Section 8.0, Follow-on IEP-24800*.
- Completed surveillance SHS&Q-2020-SURV-26117, *Follow-up Surveillance – PRC-MP-QA-599, Section 13, Commercial Grade Dedication (CGD) Items & Services (includes OCRWM)*.
- Provided specific mentoring and feedback to assessors and responsible managers that conducted management assessments. Feedback was provided to help improve the quality, including clarity and readability, of future reports. Provided specific assessment mentoring to K Basin Operations, CPRM, S&GRP, RRMP, Waste & Fuels Management Project (W&FMP), Prime Contract & Project Integration (PC&PI), Business Services, RM&SI, and SHS&Q organizations.
- Updated the second quarter fiscal year (FY) 2020 Performance Objectives, Measures, and Commitments status.
- Completed SHS&Q-2020-Audit-24760, *Annual Audit of the OCRWM Quality Assurance Program*.
- Completed the annual review/revision to PRC-MP-QA-599, *Quality Assurance*. Submitted the annual revision to RL.
- Completed surveillance SHS&Q-2020-SURV-24799, *Quality Improvement*.
- Initiated surveillance SHS&Q-2020-SURV-24798 *Nonconformance Reporting*.
- Initiated FY2021 assessment planning.
- Provided on-going support of iCAS assessment and nonconforming items modules.
- Provided on-going project support via Document Management and Control System submittals, procedures review, procurement documents, etc.
- o Fire Protection (FP) accomplishments:
 - Obtained RL concurrence for use of Facility Fire Protection Assessments (FFPA) as a “graded” approach fire hazards analyses (FHA) for 105 K East.
 - Issued final FHA updates and revisions for the 402 Building, Fast Flux Test Facility, and 224B into Hanford Fire Marshal Organization for final approval concurrence.
 - Developed a transitional FFPA for the Reduction and Oxidation (REDOX) Wind Tunnel Project and submitted the FFPA to RL for concurrence.
 - Supported bid package technical review for Building 2403WC fire sprinkler replacement and 2402WC fire alarm system replacement.
 - Initiated quarterly technical safety requirement surveillance of several T Plant and Central Waste Complex locations.
 - Completed quarterly 324 Building combustible material surveillance.
 - Completed a REDOX combustible loading assessment.
 - Submitted FFPA for West Area Remediation Project Aging Structures and PUREX North buildings (in for RL review).
 - Submitted Fire Marshal Permit training program for stakeholder responsible managers, planners and field work supervisors for RL concurrence.

- Continued FP staff support to perform numerous work package reviews and issue Hanford Fire Marshal permits in support of planned activities.
- Continued support for plant life extension capital improvement study for fire protection issues at W&FMP.
- Continued “Green Light” evaluation status of FP Program with RL for 28 months in succession.
- Continued FP staff support to perform in-progress review of FHAs and preparing updates to specific sections for three transitional facilities.

Environmental Program and Strategic Planning (EP&SP)

• Environmental Protection

- o Supported efforts to request and obtain a 30-day extension to the proposed Class 2 permit modification to the Sitewide Permit Attachment 8, “Training and Inspection Plan for Groundwater Monitoring Wells,” to allow the Washington State Department of Ecology (Ecology) additional time to issue the final permit modification.
- o Supported the next phase of development of Tracking Inspection Actions for Regulatory Agencies (TIARA) database, including planning with the MSA software group and mapping documents to be submitted into Integrated Document Management System (IDMS) to TIARA action steps.
- o Working with CHPRC Interface Management to provide review and comments for Draft Administrative Interface Agreement (AIA) for Reportable Quantity Determinations for Hazardous Substance Releases (HNF-64857).
- o Post Ecology acceptance of the clean closure certification for the 276-BA unit and supported a Class 1 prime permit modification that was being prepared to remove the unit from the *Resource Conservation and Recovery Act of 1976* (RCRA) dangerous waste permit.
- o Supported a Class 1 permit modification, PCN-IDF-2020-04, and prepared to update the Integrated Disposal Facility (IDF) building emergency director job title.
- o Supported the review and resolution of comments for PUREX Complex Tier 2 Buildings/Structures Sampling Analysis Plan.
- o Continued to develop and communicate improved processes which delineate the agreed upon transition strategy between DOE, Ecology and the U.S. Environmental Protection Agency for removing Air Operating Permit permitting conditions and/or certifications for facilities/activities that will be or are transitioning to *Comprehensive Environmental Response, Compensation, and Liability Act* authority.

• Environmental Compliance and Quality Assurance

- o Assessment status
 - No assessments performed.

- **Demonstrate active leadership and progress toward obtaining new RCRA permit for the Hanford Site**

- o Facilitated and participated in the following meetings:
 - Weekly permit project management team meetings.
 - Weekly permit meeting for Hanford Site contractors.
 - Weekly schedule strategy discussions with Ecology.
 - Bi-weekly schedule status meetings with RL, DOE Office of River Protection (ORP), Ecology and contractors.
 - Monthly Tier 2 meeting with RL, ORP and Ecology senior management.
- o Maintained the Hanford Site RCRA permit schedule to reflect progress against the baseline schedule plan.
 - Provided a detailed monthly schedule report and analysis for progress on the permit to Ecology, RL, ORP and the Hanford Site contractors.
 - Provided tracking and status of open issues that are preventing progression of the permit.
- o Provided full-time regulatory expertise and project management support.

- **Quality and timeliness of key documents submitted**

From April through June 2020, 79 environmental documents supporting various CHPRC projects were completed through EP&SP Publication Services, established to provide a systematic process for performing technical editing and formatting of environmental documents.

Business Services

- **Supply Chain/Acquisitions:**

- o Identified impacted subcontractors from the partial stop work order (PSWO) at the Hanford Site and communicated with the subcontractors the parameters of the Coronavirus Aid, Relief, and Economic Security (CARES) Act. Issued CARES Act subcontract actions for coverage, including new clauses, and extended the subcontracts to June 30, 2020.
- o Developed and released subcontractor notices to communicate CHPRC's resumption of work plan and COVID-19 work requirements.
- o Completed final development of a teleworking approval form for staff augmentation subcontractors.
- o Performed an allowability review of Laborers-Employers Cooperation and Education Trust administrative/promotional fees paid to construction subcontractors in 2016 to 2018.
- o Completed revision of Limitation of Funds Clause incremental funding language for firm fixed price contracts. Initial use with Cesium/Strontium Cask Storage System contract.
- o Developed and implemented a subcontractor evaluation platform that will be supported by the Supply Chain Management Center (SCMC).
- o Developed a contract management strategy that permitted incremental payment for supply contractors while awaiting an acquisition verification services inspection.
- o Conducted market research to support the Geotechnical Laboratory Testing Services solicitation. Over nine potential sources were found and contacted.
- o Worked with the 100K Waste Remediation Project to release contractor-owned equipment to be used at an alternate contractor job site, reducing overall lifecycle cost.
- o Worked with Washington River Protection Solutions (WRPS) to arrange for the transfer of 5,000 facemasks and a proper method of payment/reimbursement.

- o Coordinated with the Energy Facility Contractor Group (EFCOG) on our response to acquiring PPE during the pandemic. Coordinated the same with the SCMC.
 - o Developed actual costs for Tyvek Suits that were provided to RL in support of a CDC request.
 - o Continued with enhancements to the Buyer's Technical Representative (BTR) Cost Acknowledgement System, performed software grading checklist and submitted it through the Hanford Information System Inventory system.
 - o Commenced with the acquisition planning effort necessary for filling the 100K West Basin with grout.
 - o Attended a number of sitewide software product demonstrations designed to replace existing supply chain systems. Also attended a product demonstration that could be used for maintaining contract boilerplate templates and memorandums.
 - o Developed a controlled form that will be used to justify temporary services subcontract extensions. The form will aid in receiving standardized responses.
 - o Developed a standard Request for Proposal (RFP) Amendment form. The new form will permit RFP amendments to be communicated in a common design and layout.
 - o Supported the request and provided data to DOE Office of Environmental Management and EFCOG on CHPRC procurements of Chinese-manufactured items, inventoried items and potential vulnerabilities to the supply chain.
 - o Assisted Pacific Northwest National Laboratory with contract information relating to hazardous waste treatment services.
 - o Developed and released a procurement process improvement guide relating to processing of noncompetitive procurement actions. Previously, the process was controlled through a set of instructions on the non-competitive justification form.
 - o Developed a standard supplier evaluation form to be used by BTRs in evaluating supplier performance and uploading to a complex-wide supplier evaluation database.
- **Procurement:**
 - o During third quarter 2020, awarded/amended 337 contracts with a total value of \$27.37 million. Additionally, awarded 195 new material purchase orders (PO) valued at \$1.08 million to support ongoing project objectives.
 - o At the end of 141 months of the CHPRC project, procurement volume has been significant: \$3.08 billion in contract activity has been recorded with approximately 56.9 percent, or \$1.754 billion, in awards to small businesses. These awards include 8,994 contract releases, 31,261 POs and 349,292 PCard transactions.
 - o Major contract awards:

Contract/ Release	Award Date	Awarded To	Title	Contract Type	Value (\$M)
73439	4/13/20	White Shield Environmental LLC	Aging Structures Stabilization	FFU	\$ 3.90
65723-21	4/30/20	Ojeda	Aging Structures: Trailer Install and Maintenance at U Plant	T&M	\$.23
44438-79	5/7/20	DGR Grant Construction Inc.	Installation of Four Wide Mobile Office Trailer	FFP	\$.15
73539	6/10/2020	Orano Federal Services, LLC	MASF Test Facility Engineering, Dev Testing, and Ops Support	CNF	\$.17

- **Facilities & Property Management:**

- o Restarted subcontract work to support REDOX trailer installations performing site briefings/cleanup, electrical connectivity, and National Electrical Code inspection.
- o Establishing social distancing space requirements for the Federal Building upon work resumption. This included revising maximum capacities for conference rooms.
- o Supported COVID-19 recovery efforts by the development of the rationale to procure leased trailers and consumables for social distancing.
- o Worked with MSA to coordinate support services.
- o FY2020 inventory campaign is 93 percent complete. CHPRC has 291 property items left to locate.
- o Coordinated office and floor plan reconfiguration and providing electronic updates to projects for social distancing planning.
- o Coordinated office personnel moves to ensure proper social distancing and safe office environments.

- **Finance:**

- o Continuing with the series of RL finance/contracting officer meetings to discuss and align topics identified in the CHPRC Incurred Cost Audit Corrective Action Plan for FY2009-2015 and RL Finance Surveillances.
- o April through June month ends were completed with no cost suspensions.
- o Continued providing support for the Incurred Cost Report audit for FY2018.
- o Continued providing support for the Contracted Labor Time Recording system assessment being conducted by RL.
- o Provided support for an RL request for CARES Act reporting.
- o Submitted a revised disclosure statement incorporating language regarding the treatment of COVID-19-related labor costs.
- o Submitted FY2020 Third Quarter Leases, P3 and Commitments report to RL Finance.
- o Worked with RL Finance on executing banking agreement with US Bank.
- o Continued providing support for the FY2018 and FY2019 Invoice Assessments.
- o Submitted the FY2020 second quarter reconciliation of RL's Accounts Payable – Accrued Liabilities account (#2110).
- o Submitted the FY2020 second quarter international transaction report.
- o Submitted the FY2019 Improper Payment Report to RL Finance.

- **Information Management:**

- o Processed 130,095 electronic records during the third quarter into the IDMS.
- o Provided continued assistance to teleworking employees, including teleconferencing and Teams help, set up of file transfer protocol accounts to facilitate regulator access and development of an electronic approval workflow to use in place of hard copy signatures.

- **Material Services:**

- o Worked with 100K to compile disposable lab coats and coveralls, which were transported to HPM Corporation (HPMC) per RL direction.

Prime Contract and Project Integration (PC&PI)

- **Project Management/Compliance Assessments (PM/CA):**

- o Supported the CHPRC Project Review Board (PRB) tasked with assessing the readiness of Project W-135, *Waste Encapsulation and Storage Facility Modifications*, for the submittal for RL approval of DOE Order 413.3B, *Program and Project Management for the Acquisition of Capital Assets*, Critical Decision (CD)-2, *Approve Performance Baseline*, and CD-3, *Approve Start of Construction/Execution*. Activities during the reporting period included reviewing and commenting on the PRB's final report, issued on April 6, 2020.
- o As CHPRC's Technical Authority for DOE Order 413.3B, supported the PFP Closure Project on its initial efforts to respond to RL's request to support a Baseline Change Request (BCR) addressing the schedule and cost impacts to the PBS RL-0011.C2, *Deactivation and Demolition Project*, caused by the novel COVID-19 global pandemic and RL's issuance of a PSWO for non-portable work that is not an essential mission-critical activity on March 24, 2020.
- o Continued to lead the implementation of the PC&PI FY2020 integrated assessment plan and completion of open actions in the Condition Reporting and Resolution System (CRRS) assigned to PC&PI. PC&PI's plan currently reflects the performance of 11 self-assessments in FY2020. As of June 2020 FY end, two self-assessments had been completed with none delinquent and PC&PI had three open CRRS actions with none delinquent.
- o Continued to support Performance Measure Baseline (PMB) change control by supporting the development of BCRs, providing review and input on proposed BCRs, and serving on the CHPRC Change Control Board when required.
- o Continued to serve as the PC&PI Transition Planning Lead. This included being responsible for coordination of PC&PI-specific data and providing CHPRC crosscutting PMB planning and performance information for the draft CHPRC Transition Briefing Book.
- o Served as the PC&PI lead for input to expedited CHPRC efforts in response to COVID-19 and RL's issuance of a PSWO. These efforts included authoring HNF-64786, *CHPRC Teleworking Plan*; reviewing and commenting on PRC-MD-HR-54502, *Temporary Alternative Work Locations*; providing PC&PI input to numerous CHPRC PSWO-related deliverables to RL, such as CHPRC-2001260, *Execution Plan for CHPRC Partial Stop Work Order (Non-Portable Work Only)*, HNF-64785, *Resumption of Work Plan*, and PRC-MP-SH-54517, *CHPRC Social Distancing Plan*, and authoring the PC&PI organization specific resumption of work plan and Social Distancing Plan.
- o Worked with Estimating on the development of rough order of magnitude (ROM) estimates for the impact of COVID-19 and the PSWO on construction activities and the implementation of CHPRC Teleworking Plan.

- **Prime Contract Compliance (PCC):**

- o April through June, PCC received and processed 18 contract modifications (705-706, 708, 715, 721-722, 724-728, 735, 737-738, 740-742 and 744) from RL.
- o The Correspondence Review Team received and determined the distribution and assignment for 144 incoming letters/documents. PCC reviewed 96 outgoing correspondence packages.

- **Project Integration:**

- o Project Support and Systems Integration (PS&SI) and Schedule Integration
 - PS&SI completed two Work Site Assessments (WSAs):

- PC&PI-2020-WSA-24222 – Evaluate Fiscal Year 2020 Work Authorization Documents for Accuracy
 - PC&PI-2020-WSA-24221 – Evaluation of Timeliness of Baseline Change Request (BCR) Documentation Updates Following BCR Approval
- Supported the FY2020 DOE financial statement audit, information technology, by successfully demonstrating the Cobra and Primavera applications maintain security management, access controls, configuration management, segregation of duties and contingency planning.
- Prepared and hosted monthly CHPRC Financial Briefing with CHPRC Project Control and Finance and RL Budget and Finance organizations. Provided a handout of meeting materials.
- Established framework and supported development of the PMB annual update:
 - Developed training materials for the Cobra subcontract database to complete quantity based estimating for the FY2021 PMB annual update, and conducted five virtual training sessions for project personnel.
 - Established a SharePoint site and guidance documentation for project consistency.
- 000 Project Earned Value Management Support and Reporting
 - Issued three months of CHPRC Monthly Performance Reports to RL.
 - Submitted the March, April and May Gold Metrics to RL.
 - Completed safety hour reporting each month.
 - Compiled integrated project team packages for March, April and May and Monthly Project review packages for March and April.
- **Project Support Services:**
 - Risk Management:
 - Supported FY2021 PMB annual update. Conducted risk meetings to support development of FY2021 risk registers and input into the FY2021 risk database. Solicited risks for FY2022 and FY2023 and initiated lifecycle risk analysis for the W-135 Project.
 - Conducted third quarter risk register reviews and updates.
 - Completed a WSA on Safran Risk, the new sitewide quantitative risk analysis software for use at CHPRC.
 - Supported Project W-135, Waste Encapsulation Storage Facility Modifications, and DOE Order 413.3B upcoming submittal for DOE approval of CD-2 and CD-3. Completed risk analysis and submitted the report to RL.
 - Conducted monthly assessments of the status of key project risks and risk impacts associated with BCRs.
 - Estimating and Program Support (E&PS):
 - Reviewed 13 BCRs prior to implementation into the FY2020 PMB annual update during April and May.
 - Provided estimating review and concurrence on the cost estimates for three FY2020 Plant Force Work Reviews.
 - Assisted in the development of two ROM estimates for the impact of COVID-19 and the PSWO on construction activities.
 - Created three FY2020 Fair Cost estimates.
 - Provided estimating support to develop 69 FY2021 PMB project-specific estimates.
 - Began review of 455 FY2021 PMB annual update basis of estimate documents.

Resource Management and Strategic Integration

- o All contractual actions completed on or ahead of schedule.
- **Human Resources (HR):**
 - o COVID-19 response actions
 - Developed and maintained FAQs to address issues associated with time recording, telework and other topics impacted by COVID-19.
 - Created a new Employee Self-Service security role for non-managers, increasing the protection of information related to hiring.
 - Created new temporary Management Directive establishing a temporary return to work process to address HPMC changes due to COVID-19.
 - Created new temporary Management Directive detailing appropriate use of the “COV” attendance code used during COVID-19 pandemic.
 - Provide ongoing guidance and support to managers in supervising telework employees, calling employees to return to work and managing employee concerns in the workplace due to COVID-19.
 - Participated with OHCs in attending demonstrations and selecting a new Business Management System vendor.
 - o Completed Internal Revenue Service submissions for 2019 filing for CHPRC.
 - o Developed a new database for tracking leave of absence activity.
 - o Addressed approximately 180 fraudulent unemployment cases for active employees.
 - o Created and updated HR Information Systems database and interface to support the salary planning process.
- **Staffing and Development:**
 - o Completed all 60-plus actions from three previous Kaizen workshops.
 - o Completed Equal Employment Opportunity (EEO) Compliance matrix and gap analysis; the Compensation Compliance matrix is underway.
 - o Conducted career development survey and incorporated results into development programs.
 - o Created branding (e.g., logo, mission statement, tag line) for development programs with assistance from the Communications department.
 - o Administered and provided feedback sessions to Finance and HR departments on Values In Action Character Strengths assessments.
 - o Member of development team completed Development Dimensions International Facilitator Certification.
 - o Communicated pilot development program elements to all vice presidents and manager/director of identified participants. Confirmed participant availability.
 - o Participated in two major compensation market salary surveys.
 - o Participated in Business Management System demonstrations.
 - o Implemented electronic approval process for employment offers.
 - o Developed Office of Federal Contract Compliance Programs (OFCCPs) Early Resolution Procedures analysis and correspondence, and continue to work toward settlement proposal with recently acquired outside counsel/labor economist.
 - o Shared OFCCP Lessons Learned for RL and OHCs.
 - o Reviewed and evaluated 2020 Affirmity EEO pay equity analysis.
 - o Conducted special adjustment compensation analysis and provided recommendations to senior management.

- o Developed Executive Incentive Comp Plan options for board of director approval.
- o Developed desk instructions for compensation tasks.
- o Developed enhancements to performance rating and salary planning tools.
- o Created salary planning templates for quality assurance checks, merit matrix development and budget development.
- o Member of the staffing team completed a compensation qualification card.
- o Processed multiple executive organization promotions and DOE requests for approval.
- o Developed a reference tool (cheat sheet) of compensation budgets.
- o Trained all recruiters on Bargaining Unit (BU) hiring. Each recruiter will now process their respective BU requisitions for assigned organizations.
- o Automated the open requisition reports.
- o Participated in the Tri-Cities virtual career fair.
- o Participated in Nuclear Technology Program workshop at Columbia Basin College, located in Pasco.
- o Attended the Central Washington University (located in Ellensburg) virtual career fair.
- o Transitioned to the Local Jobs Network to increase diversity outreach capabilities.
- **Labor Relations (LR):**
 - o The following is a list of grievances in the arbitration process and the status:
 - Labor Relations worked with the union to close five arbitrations.
 - Scheduled arbitrations:
 - PRC-017-042 – Union grieving company’s closure of the Plastic Shop at PFP. Status: Arbitration continuation to be determined (TBD).
 - PRC-018-021 – Applying Fixative. Status: Arbitration TBD.
 - PRC-019-003 – Excessive Discipline. Scheduled December 2, 2020.
 - PRC-019-004 – Excessive Discipline. Scheduled January 14, 2021.
 - PRC-019-019 Excessive Discipline. Scheduled October 1, 2020.
 - PRC-019-020 – Excessive Discipline. Scheduled March 25, 2021.
 - PRC-019-029 – Pay. Scheduled February 11, 2021.
- **Interface Management:**
 - o Issued new 200-W-245 Water Plant Construction Support AIA, PRC-AIA-MSC-01287.
 - o Issued revised Centralized Consolidation/Recycling Center Acceptance of Waste and other Recycling Services AIA, HNF-58413, Revision 3.
 - o Signed off on the revised HPMC/CHPRC Performance of Services Memorandum of Agreement, MOA-HPMC-CHPRC-2013, Revision 2.
 - o Signed off on the new Reportable Quantity Determinations for Hazardous Substance Release AIA, HNF-64857.
 - o Signed off on the revised Dangerous Waste Counting and RCRA Site Identification AIA, HNF-58686, Revision 2.
 - o Signed off on the new Hanford Site Tour Program AIA, HNF-64707.
 - o Cancelled Construction/Onsite/Specialized Equipment Needs AIA, PRC-MSC-02137, Revision 2.
 - o Partial Stop Work Interface Support:
 - Worked with MSA and CHPRC projects to validate all essential rental equipment needs.
 - Facilitated CHPRC project needs for new launderable PPE procurements and laundry services.

- Facilitated CHPRC project needs for supplementing ACE portable restroom unit daily cleanings.
- Facilitated WRPS requests for ERDF services and Treated Effluent Disposal Facility sampling support.
- **Strategic Management:**
 - o FY2021 Baseline Planning:
 - Completed Strategic Management direction and support for FY2021 PMB planning, including evaluating planning against established targets and the associated Control Point Table.
 - Worked with PC&PI to establish and monitor P6/Cobra coding for the FY2021 Integrated Priority List.
 - Developed Work Breakdown Structure (WBS) Dictionary Review Checklist revision to align with WBS Dictionary Desktop Instructions and completed a preliminary review of all WBS dictionaries.
 - Completed a preliminary review of staffing/resource planning for FY2021 to ensure alignment with key assumptions and existing workforce.
 - o Finalized support for the Project W-135, Waste Encapsulation and Storage Facility Modifications, Line Item Project Review Board.
 - Reviewed and concurred with updated cost, schedule and risk closure packages for all outstanding items necessary for CD-2 and CD-3 submittal.
 - o Developed a CHPRC Integrated Work Resumption Plan.
 - Detailed scope and employee listing by phase.
 - Finalized and submitted Revision 3 of the Work Resumption Plan and detailed database.
 - Continued multiple internal revisions to both scope and staffing to align with evolving requirements and community conditions.
 - o Developed PPE drawdown projections based on resumption planning, projected project needs and existing inventories.
 - o Continued the update to the Project Evaluation Matrix Log and on the Matrix System Improvement Options.
 - o Developed pilot dashboard-type data display using Microsoft Power BI for projects to quickly review resumption data and with future capability to populate directly versus multiple data calls.
 - o Developed lines of inquiry in support of annual productivity management assessment and provided a review of completed project assessments.

Project Technical Services (PTS):

- **Training and Procedures:**
 - o Registered over 110 employees who are coming due for the HAZWOPER 8 Hour Annual Refresher course within the next 90 days and who have Temporary Alternative Work Location agreements to take the course from an online vendor. This one-time exception will help expedite work restart and relieve some of the demand on HAMMER instructor resources after the COVID-19 work-from-home order is lifted.
 - o Completed final verification of custom Crystal reports for use with the new Learning Management System (LMS). These reports are necessary to perform routine Training Coordinator duties to maintain student training scheduling and qualifications.
 - o Issued a new CBT training Course No. 600329, *Routine Partial Entries*, for radiological controlled areas to all RCTs and Radiological Control first line managers.

- o Assigned Radiological Worker Gap training (02RAD3) to all RCTs and RCFLMs training plans, then enrolled the highest priority employees to attend the initial sessions. This action allows for the extension of RCT RadCon Worker qualification from 24 months to 28 months, keeping some RCTs qualified during the training facility shutdown caused by COVID-19.
- o Developed and implemented new disinfection training, Course No. 600720, *Cleaning and Disinfection Gap*, for building trades janitors supporting CHPRC projects.
- o Completed the revision of over 40 training completion site forms to route them as a scanned image by e-mail to ^CHPRC Authentication instead of by plant mail. This helps meet teleworking needs and addresses the elimination of training record authenticators from the new LMS.
- o Set a session of Course No. 670648, *Bloodborne Pathogens Training*, for a small group of subcontractor janitorial staff that was held at HAMMER in May. The need for this training was identified by the instructor during a sanitization training session the previous week.
- o Issued two new documents for return-to-work activities: PRC-CHRT-SH-54524, *COVID-19 Working Group Charter*, and PRC-MD-OP-54525, *COVID Work Resumption Checklists*. These documents are part of the work resumption planning following the COVID-19 Hanford Site partial shutdown.
- o Developed a prioritized list of training schedule needs for CHPRC essential personnel.
- o Completed and released the CBT training, Course No. 600207, *PCard User Annual Training*, and Course No. 600208, *PCard Approving Manager Training*. This revision included minor edits to the conflicts of interest and prohibited items list, and removed the Washington State University-Tri-Cities library conference room as an approved meeting location.
- o Scheduled training for subcontractor employees associated with PTS construction project work resumptions at Project W-135, Capsule Storage Area, Maintenance and Storage Facility (MASF), REDOX, 100K and IDF projects.
- o Initiated a phone notification system for CHPRC worker-trainers to ensure that they are aware of individual classroom training session commitments. This additional notification verification process is made necessary during this time of increased training demand and communication challenges.
- o Issued a change to PRC-PRO-EP-15333, *Environmental Protection Processes*, to remove the internal requirement for quarterly inspections of universal waste/recyclable and updated instructions for the management of unknown wastes and several clarifications. An implementation period through July 9, 2020, is provided for other procedures affected by this change to be updated.
- o Issued a change to PRC-STD-TQ-40380, *Work Management Training Program Description*. This change eliminated the term Non-Facility Release Authority, leaving just the term Release Authority for all CHPRC work release. It also eliminated lockout/tagout (LO/TO) Controlling Organization Administrator training requirements for Release Authority.
- o Issued a revision to the employee COVID-19 briefing, Course No. 6C1900, *Authorities for COVID-19 Guidance and Social Distancing Rev 2*, to limit the requirement to wear disposable face coverings in radiation control areas to contamination areas/high contamination areas, rescinding the previous requirement to wear them in Radiation Buffer Areas. A required reading assignment was sent to employees who previously completed the briefing to notify them of the change.
- **Operations Program**
 - o Worked with OS&IH, Hanford Atomic Metal Trades Council Safety Representative and Building Trades Safety Representative to revise the GHA to address pandemic controls.

- o Developed workflow for Management Observation Program (MOP) for entry of MOPs into new DevonWay software for issues management.
- o Began pilot of using technology solutions to aid in work planning and pre-job briefs.
- o Revised Pre-Job Brief roster (A-6004-952) to allow for social distancing.
- o Created COVID-19 Pre-job Addendum (A-6007-861).
- o Developed Resumption of Work Plan for PTS.
- o Developed Social Distancing Plan for PTS.
- o Updated the GHA to include pandemic controls in support of changes to COVID-19 management directives.
- o Published PRC-MD-OP-54525, *COVID Work Resumption Checklists*.
- o Working with Microsoft Teams to identify technology solutions for work planning. Conducted a video walk down utilizing Microsoft Teams.
- o Performed an annual review of LO/TO material for Hanford General Employee Training.
- o Reviewed the PTS social distancing plan and resumption of work plans for consistency and alignment with company-level documents.
- o Incorporated reviewer comments from the draft revision of the Course No. 600180, *Records Management Training CBT*. The revision is the result of a bi-annual training material review.
- o Working with projects to establish teleconference ability for conducting Hazardous Energy Control Technical Review Board.
- o Submitted Quarterly Startup Notification Report to RL.
- **Readiness and Preparedness**
 - o Supported issuance and updates to the essential mission-critical operations plan in response to COVID-19 impacts.
 - o Supported response to PSWO.
 - o Supported teleworking activities to support administrative work in support of Emergency Preparedness program implementation which included:
 - Drill Report issuance.
 - Online training completion.
 - Procedure revisions.
 - Updates to Emergency Preparedness Hazard Analysis and Hazard Assessments.
 - Training course revisions.
 - Corrective Action Management and Assessment activities.
 - Updated COVID briefing to address Evacuation and Take Cover Considerations.
 - Refresher activities for Facility Emergency Response personnel.
- o **Project Delivery**
 - o Trailer installation in support of social distancing in response to COVID-19.
 - Drafted and issued trailer supply RFP; bids were received June 10, 2020.
 - Drafted and issued trailer installation RFP; bids were received June 18, 2020.
 - Awarded trailer supply contract; first trailer delivery planned for August 6, 2020.
 - Awarded trailer installation contract.
 - Commenced processing excavation permits for a three-wide trailer install at 200 East and CPRM trailer village at MO294.
 - Commenced work package planning activities.
 - Trailer install Engineering Change Requests drafted and issued for review.

- **Communications**

- o Developed and implemented internal and external webpages to support a return to the workplace from COVID-related absences.
- o Issued a press release to announce the award of a subcontract to stabilize the three aging belowground structures near PFP.
- o Produced 20 posts for DOE social media channels featuring progress on Aging Structures stabilization; PFP fixative application; remote groundwater monitoring; ERDF support; 100K remediation efforts; worker safety enhancements during essential mission-critical operation posture and site remobilization, among other things.
- o Produced two Environmental Management Newsletter stories communicating progress on groundwater treatment and the Aging Structures stabilization project.
- o Moderated two virtual public meetings (i.e., Aging Structures and 200-BP-5) to support public involvement efforts.
- o Provided content for DOE's update for the Hanford Advisory Board virtual full board meeting in June.
- o Supported DOE's Hanford Office of Communication on 324 Building Disposition Project media relations.

MAJOR ISSUES

In accordance with performance measure PM-00-1-18, CHPRC reports the below issues potentially affecting the completion of individual outcomes and the overall success of the contract, as well as actions taken or recommended to resolve those issues.

Issue	Recommendation
No business system issues currently identified. Please see the Overview for contract alignment issue status.	N/A

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)	-39.3%
Engineering	0.1	0.1	0.1	0.0	0.0%	0.0	32.7%
Internal Audit	0.1	0.1	0.1	0.0	0.0%	0.0	27.7%
General Counsel	0.1	0.1	0.1	0.0	0.0%	0.0	3.3%
Communications & Outreach	0.1	0.1	0.1	0.0	0.0%	0.0	37.4%
Safety, Health, Security, and Quality	1.1	1.1	1.0	0.0	0.0%	0.1	11.8%
Environmental Program and Strategic Planning	0.4	0.4	0.3	0.0	0.0%	0.1	31.5%
Business Services	2.5	2.5	2.4	0.0	0.0%	0.2	7.3%
Prime Contract and Project Integration	0.7	0.7	1.4	0.0	0.0%	(0.7)	-105.6%
Resource Management and Strategic Integration	0.5	0.5	0.5	0.0	0.0%	0.1	13.4%
Project Technical Services	0.6	0.6	0.5	0.0	0.0%	0.2	26.9%
Indirect WBS 000 Total	6.4	6.4	6.4	0.0	0.0%	0.0	0.0%
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: (+\$0.0M/+0.0%)

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
Office of the President	1.6	1.6	2.9	(0.0)	-2.8%	(1.4)	-85.4%	2.3
Engineering	1.1	1.1	1.1	0.0	0.0%	(0.0)	-4.3%	1.5
Internal Audit	0.7	0.7	0.5	0.0	0.0%	0.2	23.1%	1.0
General Counsel	0.9	0.9	1.2	0.0	0.0%	(0.3)	-40.1%	1.2
Communications & Outreach	0.9	0.9	0.7	0.0	0.0%	0.2	20.9%	1.2
Safety, Health, Security and Quality	10.7	10.7	10.7	0.0	0.0%	(0.0)	0.0%	14.9
Environmental Program and Strategic Planning	3.4	3.4	2.8	0.0	0.0%	0.6	18.8%	4.8
Business Services	23.7	23.7	23.0	0.0	0.0%	0.7	2.9%	33.2
Prime Contract and Project Integration	6.0	6.0	8.1	0.0	0.0%	(2.1)	-35.1%	8.4
Resource Management and Strategic Integration	5.0	5.0	4.5	0.0	0.0%	0.5	9.4%	7.1
Project Technical Services	5.8	5.8	4.6	0.0	0.0%	1.2	20.7%	8.1
Indirect WBS 000 Total	59.7	59.6	60.2	(0.0)	-0.1%	(0.5)	-0.9%	83.8
Numbers are rounded to the nearest \$0.1 million.								

Indirect WBS 000

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

The variance is within reporting thresholds.

FYTD Cost Performance: (-0.5M/-0.9%)

The variance is within reporting thresholds.

FY2020 General and Administrative (G&A) Analysis (\$M)

WBS 000 Project Services and Support	FY2020 BCWS	FY 2020 Forecast	FY 2020 Variance (O)/U
General & Administrative (G&A)	83.8	86.9	(3.1)
Office of the President	2.3	3.9	(1.6)
Engineering	1.5	1.4	0.0
Internal Audit	1.0	0.8	0.2
General Counsel	1.2	1.5	(0.3)
Communications	1.2	1.0	0.3
Safety, Health, Security and Quality	14.9	14.9	0.0
Env. Program & Strategic Planning	4.8	4.2	0.6
Business Services	33.2	34.6	(1.5)
Prime Contract and Project Integration	8.4	10.2	(1.8)
Resource Mgmt & Strategic Intg	7.1	6.9	0.3
Project Technical Services	8.1	7.4	0.7

FY 2020

G&A Distribution	(80.5)
G&A Liquidation (Over)/Under	6.4

Liquidation Analysis

For FY2020, application of the G&A rate has under-liquidated total to date G&A costs by \$5.5 million. The FY2020 year-end projected under-liquidation is \$6.4 million.

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. CHPRC has been authorized to distribute G&A at 16.5 percent.

Appendix C

Capital Asset Projects



J. L. Casper
Vice President for
Plutonium Finishing Plant
Closure Project

June 2020
CHPRC-2020-06, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

Appendix C.2

Capital Asset Project

RL-0011.C2 - Demolition of PFP Facilities



J. L. Casper
Vice President for
Plutonium Finishing Plant
Closure Project

June 2020
CHPRC-2020-06, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

PROJECT SUMMARY

In June, the Plutonium Finishing Plant (PFP) Closure Project team continued essential mission-critical operations in compliance with the U.S. Department of Energy, Richland Operations Office (RL) partial stop work order (PSWO). Essential mission-critical operations consisted of a survey of PFP radiological boundaries, applying fixative to the PFP demolition area and performing equipment maintenance.

<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	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	1
COMPLETE Cold and Dark/Demo Ready activities for the PFP Ancillary Facilities	-	-	15	15
COMPLETE Demolition of 234-5Z	-	-	1	1
COMPLETE Demolition of 236-Z	-	-	1	-
COMPLETE Demolition of 242-Z	-	-	1	1
COMPLETE Demolition of 291-Z	-	-	1	1
COMPLETE Demolition of PFP Ancillary Facilities	-	-	15	15
Turnover Facility to Long-Term Surveillance & Maintenance	-	-	1	-

KEY ACCOMPLISHMENTS

RL-0011.C2 Accomplishments:

- Due to the novel coronavirus (COVID-19), a national emergency was declared on March 13, 2020, and on March 24, 2020, RL issued a PSWO as a part of the Hanford Site response to COVID-19. The PFP site was transitioned to essential mission-critical operations and has maintained that configuration. Essential mission-critical operations consisted of completion of required surveillance and maintenance (S&M) activities to protect government property and maintain safety and environmental compliance. These efforts included surveying PFP radiological boundaries, applying fixative to the PFP demolition area and performing equipment maintenance.

MAJOR ISSUES

Issue

The project's fiscal year (FY) 2020 forecast reflects spending approximately \$5.4 million more than the entire allotted funding carryover balance. Additional funding is required in FY2020.

Corrective Action

Resolve funding shortfall. Personnel assigned to the PFP Project were shifted to support the West Area Remediation Project (WARP) in RL-0040 when the personnel returned to work in June to conserve the limited inventory personal protective equipment (PPE) following return to normal operations until site PPE inventory and resupply can support completing the RL-0011C.2 project. A secondary benefit of shifting labor resources to WARP activities will be to reduce the near-term RL-0011 spending rate until this issue is resolved.

Status

CHPRC is working with RL to address this issue, with resolution expected in July. RL will reallocate an additional \$9.2 million (\$500 million from RL-0012, and \$8.7 million from RL-0030), increasing FY2020 funding from \$34.4 million to \$43.6 million, which is sufficient for the current spending forecast of \$39.8 million.

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-0011/C.2													
Explanation of major changes to the project monthly stoplight chart: No major changes to the stoplight chart in June.													
Realized Risks (Risks that are currently impacting project cost/schedule)													
PFP-P5-007: Delay of PRF Debris Load Out	The loadout of Plutonium Reclamation Facility (PRF) debris is delayed. Risk Handling Strategy: Accept Probability: Medium (26% to 74%) Worst Case Impacts: \$0, 32 days			Risk Event: The project has not executed debris loadout at the productivity rate that was planned. The project has experienced accumulation of water during PRF rubble loadout and more soil per loadout entry than expected. <table border="1"><thead><tr><th>Risk Recovery Action(s)</th><th>FC Date</th><th>%</th></tr></thead><tbody><tr><td>Communicate PRF loadout options with RL.</td><td>Ongoing</td><td>N/A</td></tr><tr><td>Encourage additional worker involvement.</td><td>Ongoing</td><td>N/A</td></tr></tbody></table> Recovery Action Assessment: No major changes in June. Crews are loading out more soil associated with debris collection than expected. Additional loadout may be needed that will push project completion. A change recommended by craft personnel in the demolition approach has shown early signs of improved performance.	Risk Recovery Action(s)	FC Date	%	Communicate PRF loadout options with RL.	Ongoing	N/A	Encourage additional worker involvement.	Ongoing	N/A
Risk Recovery Action(s)	FC Date	%											
Communicate PRF loadout options with RL.	Ongoing	N/A											
Encourage additional worker involvement.	Ongoing	N/A											
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed.)													
No critical risks identified in June.													
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)													
No high threat risks identified in June.													

	Unmitigated Risk Impacts	Assessment		Comments															
		Month	Trend																
RL-0011/C.2																			
FY2020 Key Risks																			
PFP-P4-002: Weather Impacts During 236-Z Demolition	<p>Inclement weather, including moderate winds, low or high temperatures, and above average snowfall or thunderstorms will result in in-scope unplanned work and schedule impacts to the project.</p> <p>Risk Handling Strategy: Control</p> <p>Probability: Low (10% to 25%)</p> <p>Worst Case Impacts: \$0, 30 days</p>			<p>Risk Trigger: High winds and cold weather may impact the project in the winter and spring seasons. Average winds above 15 mph shut down demolition activities, and average winds above 30 mph require additional surveys. Cold weather prevents the foggers from operating and, therefore, shuts down fieldwork activities.</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 June. There were no weather events that impacted the project in June.</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																	
PFP-P-004: Stop Work From Concerned Workers	<p>Concerned workers can implement a stop work to address off-normal or safety issues. The work cannot be restarted until the implementation of corrective actions is completed, resulting in schedule impacts to the project.</p> <p>Risk Handling Strategy: Control</p> <p>Probability: Medium (26% to 74%)</p> <p>Worst Case Impacts: \$0, 16 days</p>			<p>Risk Trigger: During PFP demolition activities, an increase in stop works could result in delays.</p> <table border="1"><thead><tr><th>Mitigation Action(s)</th><th>FC Date</th><th>%</th></tr></thead><tbody><tr><td>Update communications as positions change.</td><td>Ongoing</td><td>N/A</td></tr><tr><td>Provide new maps with entry/exit instructions when boundaries are revised.</td><td>Ongoing</td><td>N/A</td></tr><tr><td>Encourage additional worker involvement.</td><td>Ongoing</td><td>N/A</td></tr><tr><td>Increase frequency of post-job reviews.</td><td>Ongoing</td><td>N/A</td></tr></tbody></table> <p>Mitigation Assessment: No major changes in June. Increased communication and worker involvement to avoid confusion and concern to minimize stop works have continued; stop works may impact the project schedule going forward.</p>	Mitigation Action(s)	FC Date	%	Update communications as positions change.	Ongoing	N/A	Provide new maps with entry/exit instructions when boundaries are revised.	Ongoing	N/A	Encourage additional worker involvement.	Ongoing	N/A	Increase frequency of post-job reviews.	Ongoing	N/A
Mitigation Action(s)	FC Date	%																	
Update communications as positions change.	Ongoing	N/A																	
Provide new maps with entry/exit instructions when boundaries are revised.	Ongoing	N/A																	
Encourage additional worker involvement.	Ongoing	N/A																	
Increase frequency of post-job reviews.	Ongoing	N/A																	
Unassigned Risks (Pending ownership of identified threats/opportunities)																			
No unassigned risks identified in June .																			

CRITICAL PATH ANALYSIS

The PFP critical path schedule begins with the completion of PRF loadout, which is anticipated by December 8, 2020, meeting the requirements for the *Hanford Federal Facility Agreement and Consent Order* Milestone M-083-00A, "Plutonium Finishing Plant (PFP) Facility Transition and Selected Disposition Activities." Demolition completion will be followed by site stabilization and demobilization, turnover to surveillance and maintenance, and project closeout activities, completing by March 10, 2021.

SCHEDULE MARGIN/MANAGEMENT RESERVE

Reference Appendix C.2 Formats 1, 2, 3 and 5 for specific schedule margin/management reserve utilization for this Capital Asset Project.

CRITICAL DECISION MILESTONE STATUS

Number	Title	Due Date*	Forecast Date†	Status/ Comment
RL-011.C2	Completion of demolition of all PFP facilities.	7/31/2020	2/24/2021	Work resumption is expected in late September due to a phased resumption approach and to conserve personal protective equipment following COVID-19 impacts.

*Due date reflects Critical Decision-4 (CD-4) due date with RL contingency.

†Forecast date reflects CD-4 completion date (does not include RL schedule contingency).

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

None to report at this time.

Appendix C.2

RL-0011.C2 - Demolition of PFP Facilities

Contract Performance Reports

Format 1 - Work Breakdown Structure

Format 2 - Organizational Categories

Format 3 - Baseline

Format 4 - Staffing

Format 5 - Explanation and Problem Analysis

CH2MHILL
Plateau Remediation Company

a Jacobs company



J. L. Casper
Vice President for
Plutonium Finishing Plant
Closure Project

June 2020
CHPRC-2020-06, Rev. 0
Contract DE-AC07-08RL14788
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)											
b. LOCATION (Address and ZIP Code) Richland, WA		b. NUMBER RL14788		b. PHASE		2020 / 05 / 25											
		c. TYPE CPAF		d. SHARE RATIO		b. TO (YYYYMMDD)											
				c. EVMS ACCEPTANCE		2020 / 06 / 21											
				NO X YES (YYYYMMDD) 2009 / 09 / 18													
5. CONTRACT DATA																	
a. QUANTITY 1	b. NEGOTIATED COST 131,476	c. ESTIMATED COST OF AUTHORIZED UNPRICED WORK 7,802	d. TARGET PROFIT/FEE 5,000	e. TARGET PRICE 136,476	f. ESTIMATED PRICE 187,290	g. CONTRACT CEILING 136,476	h. ESTIMATED CONTRACT CEILING 187,290										
				i. DATE OF OTB/OTS (YYYYMMDD)													
6. ESTIMATED COST AT COMPLETION																	
		MANAGEMENT ESTIMATE AT COMPLETION (1)	CONTRACT BUDGET BASE (2)	VARIANCE (3)		7. AUTHORIZED CONTRACTOR REPRESENTATIVE											
		181,717				a. NAME (Last, First, Middle Initial) Underwood, Teresa											
		184,379				b. TITLE Prime Contract Compliance Manager											
a. BEST CASE		181,717				c. SIGNATURE											
b. WORST CASE		184,379				d. DATE SIGNED (YYYYMMDD)											
c. MOST LIKELY		182,290	139,278	-43,013													
8. PERFORMANCE DATA																	
CAPN.PBS Control Account.PARS 2 WBS (2)		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 (12a)			SCHEDULE VARIANCE (12b)		
WORK SCHEDULED (2)		WORK PERFORMED (3)		SCHEDULE (5)		COST (6)		WORK SCHEDULED (7)		WORK PERFORMED (8)		COST (9)		SCHEDULE (10)		COST (11)	
ITEM (1)																	
RL-0011 Nuclear Mat Stab & Disp PFP																	
RL_0011_C2.05 Disposition PFP Facility		0		15		630		15		-616		138,704		125,431		170,532	
b. COST OF MONEY		0		0		0		0		0		0		0		0	
c. GENERAL AND ADMINISTRATIVE		0		0		0		0		0		0		0		0	
d. UNDISTRIBUTED BUDGET																	
e. SUBTOTAL		0		15		630		15		-616		138,704		125,431		170,532	
f. MANAGEMENT RESERVE																	
g. TOTAL		0		15		630		15		-616		138,704		125,431		170,532	
9. RECONCILIATION TO CONTRACT BUDGET BASELINE																	
a. VARIANCE ADJUSTMENT																	
b. TOTAL CONTRACT VARIANCE																	

CONTRACT PERFORMANCE REPORT															FORM APPROVED		
FORMAT 2 - ORGANIZATIONAL CATEGORIES															OMB No. 0704-0188		
1. CONTRACTOR		2. CONTRACT				3. PROGRAM				4. REPORT PERIOD							
a. NAME		a. NAME				a. NAME				a. FROM (YYYYMMDD)							
CH2M HILL Plateau Remediation Company		Plateau Remediation Contract				RL_0011_C2 PFP Demolition Capital Asset Project				2020 / 05 / 25							
b. LOCATION (Address and ZIP Code)		b. NUMBER				b. PHASE				b. TO (YYYYMMDD)							
Richland, WA		RL14788								2020 / 06 / 21							
		c. TYPE		d. SHARE RATIO		c. EVMS ACCEPTANCE											
		CPAF				<input type="checkbox"/> NO <input checked="" type="checkbox"/> X YES (YYYYMMDD) 2009 / 09 / 18											
5. PERFORMANCE DATA																	
WBS.Resp Org Group		CURRENT PERIOD					CUMULATIVE TO DATE					REPROGRAMMING			AT COMPLETION		
		BUDGETED COST		ACTUAL COST WORK PERFORMED (4)	VARIANCE		BUDGETED COST		ACTUAL COST WORK PERFORMED (9)	VARIANCE		ADJUSTMENTS			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)	COST VARIANCE (12a)	SCHEDULE VARIANCE (12b)	BUDGET (13)			
ITEM (1)																	
3B - PFP Closure Project		0	15	630	15	-616	138,704	125,431	170,532	-13,274	-45,101	0	0	0	138,704	181,717	-43,013
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)		0	15	630	15	-616	138,704	125,431	170,532	-13,274	-45,101	0	0	0	138,704	181,717	-43,013
f. MANAGEMENT RESERVE																	
g. TOTAL		0	15	630	15	-616	138,704	125,431	170,532	-13,274	-45,101	0	0	0	139,278		

CLASSIFICATION (When Filled In)

CONTRACT PERFORMANCE REPORT																Form Approved					
FORMAT 3 - BASELINE																OMB No. 0704-0188					
1. CONTRACTOR			2. CONTRACT				3. PROGRAM				4. REPORT PERIOD										
CH2M HILL Plateau Remediation Company			a. NAME: Plateau Remediation Contract				RL_0011_C2 PFP Demolition Capital Asset Project				a. FROM: 2020/05/25										
b. LOCATION: Richland, WA			b. NUMBER: RL14788				a. NAME: Plateau Remediation Contract				b. TO: 2020/06/21										
			c. TYPE: CPAF				b. PHASE														
			d. SHARE RATIO:				c. EVMS ACCEPTANCE														
							NO YES X 9/18/2009														
5. CONTRACT DATA																					
a. ORIGINAL NEGOTIATED COST				b. NEGOTIATED CONTRACT CHANGE		c. CURRENT NEGOTIATED COST (A + B)		d. ESTIMATED COST AUTH UNPRICED WORK		e. CONTRACT BUDGET BASE (C + D)		f. TOTAL ALLOCATED BUDGET		g. DIFFERENCE (E - F)							
51,683				\$79,792		\$131,476		\$7,802		\$139,278		\$139,278		\$0							
h. CONTRACT START DATE				i. DEFINITIZATION DATE		j. PLANNED COMPL DATE		k. CONT COMPLETION DATE		l. EST COMPLETION DATE											
6/19/2008				6/19/2008		9/30/2020		9/30/2020		9/30/2020		9/30/2020									
6. PERFORMANCE DATA																					
ITEM		BCWS CUM TO DATE	BCWS FOR REPORT PERIOD	SIX MONTH FORECAST						BUDGETED COST FOR WORK SCHEDULED (NON - CUMULATIVE)										UNDISTRIB BUDGET	TOTAL BUDGET
				+1 Jun-20	+2 Jul-20	+3 Aug-20	+4 Sep-20	+5 Oct-20	+6 Nov-20	FY09-13	FY14	FY15	FY16	FY17	FY18	FY19	FY20				
(1)		(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)		
a. PM BASELINE (BEGIN OF PERIOD)		138,704	0	0	0	0	0	0	0	0	0	6,090	29,182	19,407	628	66,598	16,800	0	138,704		
b. BASELINE CHANGES AUTH DURING REPORT PERIOD																					
None at this time																	0	0	0		
c. PM BASELINE (END OF PERIOD)		138,704	0	0	0	0	0	0	0	0	0	6,090	29,182	19,407	628	66,598	16,800	0	138,704		
7. MANAGEMENT RESERVE																			573		
8. TOTAL																			139,278		

CONTRACT PERFORMANCE REPORT FORMAT 4 - STAFFING													FORM APPROVED OMB No. 0704-0188		
Dollars in: FTE															
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) 2020 / 05 / 25		
b. LOCATION (Address and ZIP Code) Richland, WA			b. NUMBER RL14788					b. PHASE					b. TO (YYYYMMDD) 2020 / 06 / 21		
			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		ACTUAL CURRENT PERIOD (2)	ACTUAL END OF CURRENT PERIOD (Cumulative) (3)	FORECAST (Non-Cumulative)										AT COMPLETION (15)	
ORGANIZATIONAL CATEGORY (1)				SIX MONTH FORECAST BY MONTH (Enter names of months)						ENTER SPECIFIED PERIODS					
				+1 MAY 2020 (4)	+2 JUN 2020 (5)	+3 JUL 2020 (6)	+4 AUG 2020 (7)	+5 SEP 2020 (8)	+6 OCT 2020 (9)	NOV 2020 (10)	DEC 2020 (11)	JAN 2021 (12)	ATCOMPLETE (13)		(14)
3B - PFP Closure Project		2	4,987	91	11	13	87	86	66	42	23	-	-	-	5,406
g. TOTAL DIRECT		2	4,987	91	11	13	87	86	66	42	23	-	-	-	5,406

CLASSIFICATION (When Filled In)									
CONTRACT PERFORMANCE REPORT								FORM APPROVED	
FORMAT 5 - Explanations and Problem Analysis								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) 2020/05/25	
b. LOCATION (Address and ZIP Code) Richland, WA	b. NUMBER RL14788		b. PHASE					b. TO (YYYYMMDD) 2020/06/21	
	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:	0.0	14.7	630.5	14.7	0	-615.8	-4193.9%	0	0.02
Cumulative:	138,704.4	125,430.5	170,532.0	-13,273.8	-9.6%	-45,101.5	-36.0%	0.90	0.74
	BAC	EAC	VAC in \$	VAC in %	TCPI to BAC	TCPI to EAC			
At Complete:	138,704.4	181,717.1	-43,012.7	-31.0%	0	1.19			
<p>Explanation of Variance/Description of Problem:</p> <p>Current Month: Schedule Variance: The current month schedule variance is within thresholds.</p> <p>Cost Variance: The current month negative cost variances were the result of the Partial Stop Work Order (PSWO) issued to CHPRC by RL on March 24, 2020. The PSWO covered non-portable work activities not associated with continuation of essential mission-critical operations that could not be performed in a safe and compliant manner consistent with The Centers for Disease Control and Prevention (CDC) COVID-19 guidelines and the "Stay Home, Stay Healthy" order issued by the Governor of Washington State. Non-portable work activities are work that cannot be performed in a remote manner (e.g., telework from home). The Project was demobilized and placed in safe configuration in late March. CHPRC and subcontractor labor assigned to work that could not be performed in a remote manner were charged to control account 011.97.01.04 to collect and segregate unproductive time caused by the PSWO. As the method of earning performance is based on physical progress in the field, little performance was taken, causing the negative cost variances.</p> <p>Cumulative to Date: Schedule Variance: The cumulative to date schedule variance is within thresholds.</p> <p>Cost Variance: The cumulative negative cost variance is associated with MSA resources arriving to support PFP demolition that were planned as P/Q shift support. 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. 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. 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 (i.e., snow, wind, freezing rain, etc.) 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 a contributing factor. Unplanned Management Assessment efforts for the 234-5Z and 291-Z facilities took longer than originally assumed. Impacts associated with the Stop Work that was initiated by the HAMTC union leadership on November 11, 2017 "associated with concerns over events both inside and outside of the facility." The main issue involved employee proximity to radiological boundary areas during demolition. Radiological boundaries were reconfigured and impacted employees were relocated. As the project gets further into the demolition phase of the PRF Canyon, increased utilization of Personnel Protective Equipment to align with the original plan as well as increased material procurements to align with the scope being performed (i.e., P-100 filters, Labounty Shear, additional fixative, etc.) are also contributing to this variance. An adjustment to the General & Administrative (G&A) Rate for FY2017 resulted in a reduction to the Performance Measurement Baseline (PMB) of \$463K. Finally, impacts from a contamination event that occurred on Friday, December 15, 2017, swing shift where RadCon personnel performing routine surveys following the day shift demolition activities discovered low level contamination on a cookie sheet. This led to a wider search, and a "speck" of contamination was smeared from a government vehicle. A CHPRC management stop work on demolition activities was declared and a critique held to discuss the contamination spread, possible causes, and path forward. A root cause analysis was conducted and resumption actions identified.</p> <p>This is partially offset by recognized efficiencies associated with the removal of the 18 sections of the PRF gallery gloveboxes, progress on demolition of 236-Z, demolition of the 2727-Z and 2729-Z facilities, the 242-ZA and 242-Z facilities, the 291-Z facility, 291-Z stack, 234-5ZA, 252-Z1, 2503-Z, 2735Z, 2734ZA, ZB, ZC, ZD, and ZL facilities.</p> <p>Impact: Schedule Impact: Completion of all demolition activities followed by site stabilization and demobilization, turnover to surveillance and maintenance, and project closeout activities forecast to occur in February 2021. The TPA Milestone TPA-083-00A, complete PFP facility transition and selected disposition activities of November 30, 2017, was not met.</p> <p>Cost Impact: A negative VAC is reflective of impacts associated with recovery efforts from a contamination event that occurred on December 15, 2017.</p> <p>Corrective Action: Demolition and load out activities are expected to resume in October 2020 when personal protective equipment is expected to be available. The current slab on grade date is December 8, 2020.</p> <p>Monthly Summary (to include technical causes of VARs, Impacts) and Corrective Action(s):</p> <p>There was no change in the difference between the Contract Budget Base and the Total Allocated Budget on Format 3 for the month of June.</p> <p>The following items are addressed, as applicable:</p> <ol style="list-style-type: none"> 1. Schedule Margin Analysis: No drawdowns of schedule margin were made in the month of June. 2. Data dictionary Changes: No change in the month of June. 3. Forecast Schedule with No Baseline: No change in the month of June. 4. UB Balance: No change in the month of June. 5. Negative Actual Cost of Work Performed (ACWP): No change in the month of June. 6. Earned Actual Cost (EAC) Analysis: Best Case = \$181,717; Most Likely = \$182,290; Worst Case = \$184,379. The Best Case EAC is the EAC reported this month, which assumes all efficiencies gained contract-to-date will remain at completion with no realization of remaining risks. The Most Likely EAC is the ACWP plus what management believes is the most likely outcome based on a knowledgeable estimate of all authorized work, known risks, unknown risks, and probable future conditions. The Worst Case EAC is the ACWP plus the ETC plus realization of all identified risks, plus the scope identified in the Trend Log. The Best/Worst and Most Likely EAC values are documented in the Format 1 Report. 7. Negative CV > VAC: No change in the month of June. 8. Management Reserve Transactions: No change in the month of June. 9. Freeze Period Changes: No change in the month of June. 10. Retroactive Changes: No change in the month of June. 11. Earned Value Type Changes: No change in the month of June. 									
Prepared by: Jason Knowlton			Date: 7/14/2020		Approved by:		Date:		