

Monthly Contract & Project Performance Report September 2021

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

Contractor for the U.S. Department of Energy
under Contract 89303320DEM000031



**P.O. Box 943
Richland, Washington 99352**

Monthly Contract & Project Performance Report September 2021

Document Type: RPT

Date Published
October 2021

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

Contractor for the U.S. Department of Energy
under Contract 89303320DEM000031



**P.O. Box 943
Richland, Washington 99352**

APPROVED
By Julia Raymer at 11:46 am, Oct 26, 2021

Release Approval

Date

LEGAL DISCLAIMER

This report was prepared as an account of work sponsored by an agency of the United States Government. Neither the United States Government nor any agency thereof, nor any of their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or any third party's use or the results of such use of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise, does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof or its contractors or subcontractors. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof.

This report has been reproduced from the best available copy.

Printed in the United States of America

Hanford Mission Integration Solutions



Monthly Contract Performance Report September 2021

R. E. Wilkinson
President & General Manager

U.S. Department of Energy
Contract No. 89303320DEM000031



This page intentionally left blank.

Contents

1.0	EXECUTIVE SUMMARY	1
2.0	KEY ACCOMPLISHMENTS	2
3.0	MAJOR ISSUES.....	3
4.0	HMIS SAFETY PERFORMANCE.....	3
5.0	EARNED VALUE MANAGEMENT.....	6
6.0	FUNDS ANALYSIS.....	7
7.0	PERTINENT BUSINESS INFORMATION.....	10
8.0	BASELINE CHANGE REQUESTS	11
8.1	Undistributed Budget Activity	11
8.2	Management Reserve Activity	12
9.0	RISK MANAGEMENT.....	12
10.0	PROGRAM CONDITION STATUS	13
11.0	GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)	15
12.0	PERFORMANCE EVALUATION AND MEASUREMENT PLAN (PEMP)	24
13.0	DOE ACTIONS/DECISIONS.....	25
	Section A.....	26
1.0	PROGRAM SERVICES AND SUPPORT SUMMARY	27
2.0	MAJOR ISSUES.....	54
3.0	PROGRAM RISK ASSESSMENT	54
3.1	HMIS I&SS Mission Key Risks	55
3.2	HMIS I&IS Mission Key Risks	59
3.3	HMIS MA Mission Key Risks.....	61
3.4	HMIS SES Mission Key Risks	62
3.5	HMIS IMS Mission Key Risks	65
3.6	HMIS ET&P Mission Key Risks	70
4.0	DOE ACTIONS/DECISIONS	71
	Section B.....	72
1.0	RELIABILITY PROJECTS EXECUTIVE SUMMARY	73
2.0	SAFETY PERFORMANCE.....	73
3.0	KEY ACCOMPLISHMENTS.....	73
4.0	EARNED VALUE MANAGEMENT.....	76

5.0	PROJECT RISK ASSESSMENT	77
5.1	HMIS L-612 Project Key Risks	77
5.2	HMIS L-789 Project Key Risks	78
5.3	HMIS L-839 Project Key Risks	80
5.4	HMIS L-850 Project Key Risks	82
5.5	HMIS L-888 Project Key Risks	85
5.6	HMIS L-895 Project Key Risks	87
5.7	HMIS L-897 Project Key Risks	89
5.8	HMIS L-907 Project Key Risks	92
6.0	BASELINE CHANGE REQUESTS	93
7.0	FUNDS ANALYSIS.....	94
8.0	MAJOR ISSUES.....	95
9.0	DOE ACTIONS/DECISIONS.....	96
10.0	GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I).....	96
11.0	RELIABILITY PROJECTS	96
	Appendix A.....	97
1.0	FORMAT 1, DD FORM 2734/1, WORK BREAKDOWN STRUCTURE	98
2.0	FORMAT 3, DD FORM 2734/3, BASELINE	99
3.0	FORMAT 5, DD FORM 2734/5, EXPLANATIONS AND PROBLEM ANALYSIS...	100
	Appendix B.....	110
1.0	FORMAT 1, DD FORM 2734/1, WORK BREAKDOWN STRUCTURE	111
2.0	FORMAT 3, DD FORM 2734/3, BASELINE	112
3.0	FORMAT 5, DD FORM 2734/5, EXPLANATIONS AND PROBLEM ANALYSIS...	113

1.0 EXECUTIVE SUMMARY

Hanford Mission Integration Solutions (HMIS) continued to provide direct support to the U.S. Department of Energy (DOE) and its contractors with cost-effective infrastructure and Site services that are integral and necessary to accomplish the environmental cleanup mission through open and proactive communication, collaboration, and cooperation between Hanford Site customers (DOE Offices and Other Hanford Contractors [OHC]). Unless otherwise noted, all data provided is through September 30, 2021.

Technology and innovation continue to be highlighted. Our team delivered a new high-level video animation of the Direct-Feed Low-Activity Waste (DFLAW) process. The high-level process animation will be used to assist the public, stakeholders, and employees to visualize how the process treats tank waste safely and efficiently through the DFLAW approach. Core internal firewalls were successfully replaced and will improve Hanford's bandwidth and eliminate previous bottleneck issues. We also deployed a new virtual desktop option, Azure Virtual Desktop (AVD), along with a new service request process in the Enterprise Service Platform (ESP) for requesting AVD. The upgrade to Microsoft 365 Apps for Enterprise, with many new features, was also completed this month.

Several audio/visual equipment upgrades in ten training spaces at HAMMER allow for improved training delivery and versatility of spaces. We also implemented a successful and popular new "escape room" activity for the Respiratory Refresher course, which requires students to answer questions and solve puzzles while wearing respiratory gear, mimicking work activities experienced in the field. Crane & Rigging, with support from Engineering and Safety, completed tensioning of the guy wires (cables used to secure a tower structure) on the 400' tower. Regularly scheduled tower inspections will be performed in the next several years and proper tensioning will be further independently verified.

The Hanford Fire Department (HFD) kicked off a Training Academy for 9 new hires. The 16-week Academy is designed to provide Hanford-specific training and prepare the new recruits for integration into the HFD. In other labor news, we reached a tentative agreement on a 1-year contract extension with the Hanford Atomic Metal Trades Council (HAMTC). A ratification vote is scheduled to be conducted on November 5, 2021. Negotiations with the Hanford Guards Union continues.

Related to COVID-19, September saw the announcement of the federal COVID-19 vaccine mandate, which resulted in numerous meetings between contractors and DOE to ensure a collaborative and consistent approach, as well as several employee and sitewide communications to keep the workforce informed. We also executed a signed agreement with the HAMTC and International Association of Fire Fighters Local I-24 after bargaining the impact of Governor Inslee's COVID-19 mandate for those working in a healthcare setting. We also worked with our third-party vendor to create business processes which would allow for short-term disability claims to be submitted on behalf of incapacitated individuals.

In other highlights, we processed the first transfer of excess property to the Washington State, State Agencies for Surplus Property, since the rejuvenation of the Asset Disposition Program. The program also received 12 crates of excess material from Electrical Utilities, that had accumulated over the past several months. Roads and Grounds personnel supported the transport of 2 decommissioned reactors from the Port of Benton to 200 East. As part of footprint reduction, teams also removed the final 15 poles on the Riverland Feeder, which originally fed from the 100B Area. Maintenance Services completed the repair for the 10" sanitary water line near the 225-BG facility. And a team of painters and teamsters performed crosswalk, arrows, and other road stenciling work to improve visibility in the darker, winter months, which are quickly approaching.

2.0 KEY ACCOMPLISHMENTS

- HMIS completed and delivered a new high-level video animation of the DFLAW process, in collaboration with DOE, Bechtel National, Inc. (BNI), Central Plateau Cleanup Company, LLC (CPCCo) and Washington River Protection Solutions LLC (WRPS). A general delivery message was sent to share the video with employees and several social media posts were shared as well. The high-level process animation will be used to assist the public, stakeholders, and employees to visualize how the process treats tank waste safely and efficiently through the DFLAW approach.
- Business Process Compliance (BPC) continued the development of multiple business analytics. The key focus for September was completing the development of the Floor Check process and training of the Floor Check Performers for implementation in October. During September, 43 Floor Check Performers completed computer-based training part one, with part two planned for early October. BPC is on schedule for implementing the floor checks in October 2021. BPC also provided 14 telemetry related trip reports to managers with government vehicles for evaluation and continued supporting updates to the Disclosure Statement.
- WRPS receive approval for their lease of 2435 Stevens which will start a domino effect on other buildings and occupancies. HMIS will play a big role as the move coordinators for Hanford.
- Interface Management and Communications collaborated with the OHCs in updating the Administrative Interface Agreement (AIA) for Hanford Site Tours Conducted by the HMIS Hanford Site Cleanup Tour Program (HNF-64707, Rev. 1) for contractors who support HMIS in coordinating Hanford Site public tours. Signatories from BNI, CPCCo, Hanford Laboratory Management and Integration, LLC (HLMI), HMIS, Pacific Northwest National Laboratory (PNNL), and WRPS, provided final concurrence, and the AIA was issued in September.
- HMIS Quality Assurance issues a major revision to the Quality Assurance Program description (HMIS_PLN-QA-599) to identify weaknesses identified within the program, the revision added the basis for the graded approach being implemented to HMIS. In, addition a new procedure on Commercial Grade Dedication (CGD) of items and services was document

in HMIS-PRO-QA-62403. This procedure addressed a contract requirement that was added to the Hanford Mission Essential Services Contract (HMESC).

- HMIS Emergency Management & Preparedness (EM&P) staff responded to an Event Coordination Team activation prompted by a take cover in the 200 West Area. The take cover was implemented when two work crews simultaneously smelled odors near the REDOX facility. Field crews investigated the odor and found no evidence of radiation or a release of chemicals and the take cover was lifted. EM&P staff are evaluating issues identified during the response and will develop lessons learned and an after-action report. The Hanford Emergency Operations Center (EOC) Shift Office categorized the event as an Abnormal Event and completed onsite and offsite notifications.
- IMS established a master agreement with Energy Northwest for HMIS to support Waste Treatment Completion Company (WTCC) software systems, network infrastructure and architecture, cyber security, and control systems as well as gain access to regional nuclear facility software systems subject matter experts for guidance.
- HMIS concluded bargaining the impact of Governor Jay Inslee’s Proclamation 24-14.1 with the HAMTC and International Association of Fire Fighters (IAFF) Local I-24, on September 16, 2021. This proclamation mandates COVID-19 vaccinations by October 18, 2021, for certain workers within the State of Washington, to include those performing work that falls within the definition of “Healthcare Setting,” as defined within the proclamation, as well as individuals holding a certificate or license identified on the Washington Healthcare Professional Credentialing Requirements list. The signed agreement with HAMTC and IAFF Local I-24 was also executed on September 16, 2021.

3.0 MAJOR ISSUES

Program Services and Support: Refer to Section A of this report for Program Services and Support specific major issues.

Reliability Projects: Refer to Section B of this report for project-specific major issues.

4.0 HMIS SAFETY PERFORMANCE

HMIS continues to focus on integrating and implementing safety programs in all program and project areas. In September, HMIS experienced one Recordable Injury, and there was a total of three first aids. HMIS continues to exceed DOE’s targets for both Total Recordable Case (TRC) rate and Days Away, Restricted or Transferred (DART) case rate. DOE’s TRC target rate is set at 1.1 and the DART target rate is 0.6. To date, HMIS’ rates are 0.88 and 0.53, respectively.

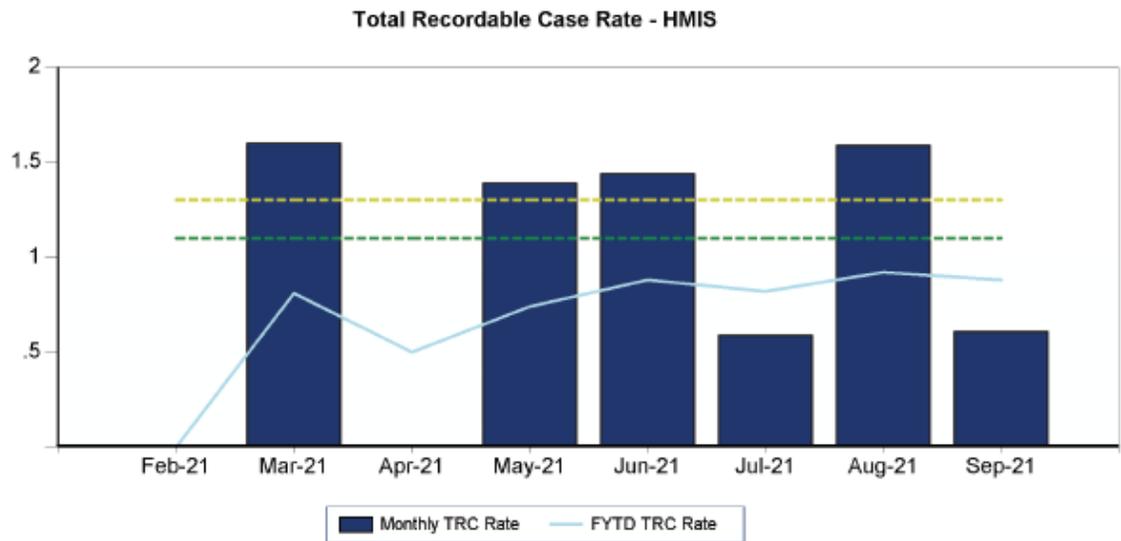
HMIS communicates frequently with our team through weekly Safety Starts and periodic safety bulletins. In September, the topics included National Emergency Preparedness Month, Adverse Weather on the Hanford Site, Family Fire Safety, and Reporting Injuries.

The HMIS Weekly Injury Analysis Report communicates our injury and vehicle accident statistics which allows for our Employee Zero Accident Councils (EZAC) to perform an analysis

on the group’s weekly, monthly, and annual injuries allowing the team to consider issues from across the company for Lessons Learned opportunities.

Mission Assurance - Total Recordable Case Rate - HMIS	Period: 2021-09	FYTD TRC Rate (Green)
	Printed: 07-Oct-2021 13:07	Monthly TRC Rate (Green)

Definition
Monitor the Total Recordable Case (TRC) rate for HMIS employees and subcontractors (Note: Does not include independent subcontractors). The TRC is measured in accordance with OSHA guidelines for calculating and reporting. The rate is calculated by multiplying the number of Recordable cases by 200,000 and dividing by the total number of work hours.
Goals
The HMIS goal is to "do work safely" and achieve target zero by reducing injuries, accidents and incidents. The DOE-EM goal is to maintain a TRC rate below 1.1.
Monthly TRC Rate (Effective: 02/01/2021): Green <= 1.1, Yellow < 1.3, Red >= 1.3
FYTD TRC Rate (Effective: 02/01/2021): Green <= 1.1, Yellow < 1.3, Red >= 1.3
CYTD TRC Rate (Effective: 02/01/2021): Green <= 1.1, Yellow < 1.3, Red >= 1.3



Field	2021-02	2021-03	2021-04	2021-05	2021-06	2021-07	2021-08	2021-09
Monthly TRC Rate	0	1.6	0	1.39	1.44	.59	1.59	.61
FYTD TRC Rate	0	.81	.5	.74	.88	.82	.92	.88
CYTD TRC Rate	0	.81	.5	.74	.88	.82	.92	.88
Monthly Recordable Cases	0	2	0	2	2	1	2	1

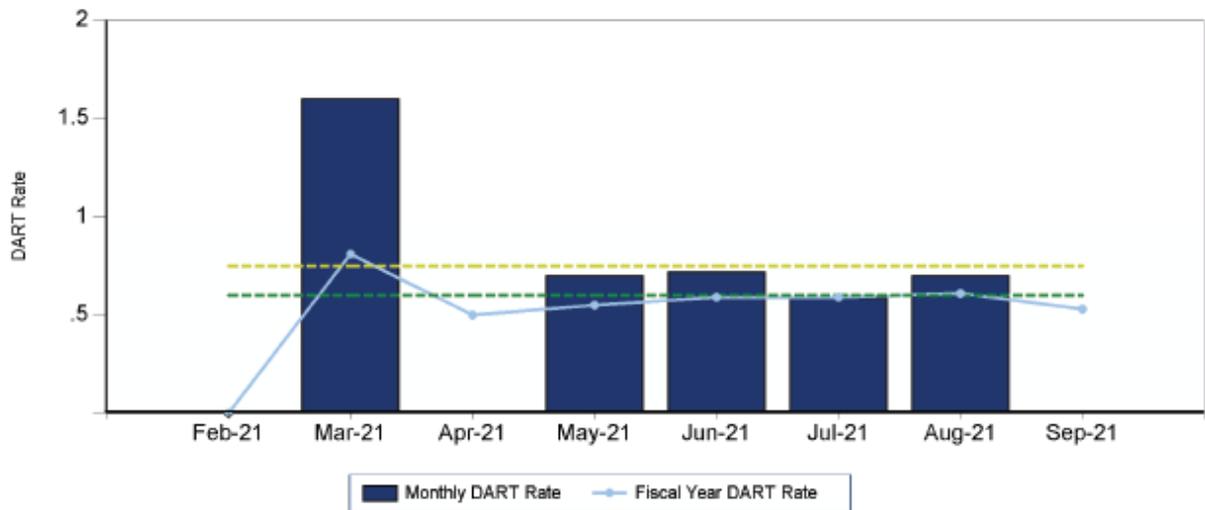
Figure 1. Total Recordable Case Rate (TRC)

Monitor the TRC rate for HMIS employees and subcontractors (Note: Does not include independent subcontractors). The TRC is measured in accordance with Occupational Safety and Health Administration (OSHA) guidelines for calculating and reporting. The rate is calculated by multiplying the number of Recordable cases by 200,000 and dividing by the total number of work hours.

Mission Assurance - Days Away, Restricted or Transferred Case Rate - HMIS	Period: 2021-09	Fiscal Year DART Rate (Green)
	Printed: 07-Oct-2021 13:08	Monthly DART Rate (Green)

Definition
Monitor the days away, restricted or transferred (DART) case rate for HMIS employees and subcontractors. The DART rate is measured in accordance with OSHA guidelines for calculating and reporting. The rate is calculated by multiplying the number of DART cases by 200,000 and dividing by the total number of work hours.
Goals
The HMIS goal is to "do work safely" and achieve target zero by reducing injuries, accidents and incidents. The DOE-EM performance baseline goal is to maintain a DART rate below 0.6.
Monthly DART Rate (Effective: 02/01/2021): Green <= 0.6, Yellow <= 0.75, Red > 0.75
Fiscal Year DART Rate (Effective: 02/01/2021): Green <= 0.6, Yellow <= 0.75, Red > 0.75
Calendar Year DART Rate (Effective: 02/01/2021): Green <= 0.6, Yellow <= 0.75, Red > 0.75

Days Away, Restricted or Transferred Case Rate - HMIS



Field	2021-02	2021-03	2021-04	2021-05	2021-06	2021-07	2021-08	2021-09
Monthly DART Rate	0	1.6	0	.7	.72	.59	.7	0
Fiscal Year DART Rate	0	.81	.5	.55	.59	.59	.61	.53
Calendar Year DART Rate	0	.81	.5	.55	.59	.59	.61	.53
Monthly DART Cases	0	2	0	1	1	1	1	0

Figure 2. Days Away, Restricted, Transferred (DART)

Monitor the DART Case rate for HMIS employees and subcontractors (Note: Does not include independent subcontractors). The DART is measured in accordance with OSHA guidelines for calculating and reporting. The rate is calculated by multiplying the number of DART cases by 200,000 and dividing by the total number of work hours.

5.0 EARNED VALUE MANAGEMENT

Table 1. HMIS Schedule and Cost Performance

	CURRENT PERIOD (CP)					CUMULATIVE TO DATE (CTD)					AT COMPLETION		
	BUDGETED COST		ACTUAL COST	VARIANCE		BUDGETED COST		ACTUAL COST	VARIANCE		BAC	EAC	VARIANCE
CLIN Data for September	BCWS	BCWP	ACWP	SCHEDULE	COST	BCWS	BCWP	ACWP	SCHEDULE	COST			
0001 - Contract Transition	\$0	\$0	\$1	\$0	(\$1)	\$6,405	\$6,405	\$6,406	\$0	(\$1)	\$6,405	\$6,406	(\$1)
0003 - Legacy Benefit Plans & Legacy Workers' Comp	\$27,619	\$27,619	\$2,227	\$0	\$25,393	\$52,695	\$52,695	\$46,696	\$0	\$5,999	\$439,932	\$448,229	(\$8,296)
0004 - Infrastructure & Site Services	\$36,712	\$36,612	\$37,335	(\$101)	(\$724)	\$233,467	\$232,587	\$230,108	(\$879)	\$2,480	\$2,686,495	\$2,706,544	(\$20,049)
0005 - DOE Small Business Procure Pre-Award Support	\$28	\$28	\$0	\$0	\$28	\$149	\$149	\$11	\$0	\$138	\$2,156	\$2,017	\$138
0007 - Infrastructure Reliability Projects	\$3,817	\$3,402	\$3,055	(\$415)	\$347	\$27,553	\$25,975	\$24,348	(\$1,578)	\$1,626	\$359,097	\$358,775	\$323
0008 - DOE Small Biz Pro Post-Award Supp & Other DDWS	\$35	\$35	\$441	\$0	(\$406)	\$2,989	\$2,989	\$3,009	\$0	(\$21)	\$203,253	\$203,205	\$47
Undistributed Budget (UB)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$215,391	\$215,391	\$0
Management Reserve (MR)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Grand Total	\$68,211	\$67,696	\$43,059	(\$516)	\$24,636	\$323,257	\$320,800	\$310,579	(\$2,458)	\$10,221	\$3,912,728	\$3,940,567	(\$27,839)

Note: \$ in Thousands

Performance Summary

The HMIS contract went operational on January 25, 2021 for further detail of the performance summary write-ups please see Appendix A - **3.0 FORMAT 5, DD FORM 2734/5, EXPLANATIONS AND PROBLEM ANALYSIS**

Schedule Variance (SV) Analysis: The unfavorable CM SV is (-\$516K) or (-0.8%) and the significant driver of the schedule variance is the Water Systems a BCR was implemented in the current month which made an adjustment to the BCWS in the current period for scope that was completed and BCWP earned in a prior period. The Electrical System baseline is impacted and has been incorporated into the task order proposal and will be captured in a future REA.

Cost Variance (CV) Analysis: The favorable CM CV is (+\$24,636K) or (+36.4%) and the significant driver of the cost variance is associated with Legacy Benefits Plans due to the processing of a BCR in September and affected the budget in the current month.

Variance at Completion (VAC): The unfavorable VAC is (-\$27,836K) or (-0.7%) and the significant drivers are Legacy Benefits Plans overrun due to the Retiree Reimbursement Arrangement (RRA) Liability accrual completed at DOE's direction to move the liability from WRPS to HMIS, the EACs for Safeguards & Security and Emergency Response were increased due to the OT not bid but experienced, and the Real Property Asset Mgmt. EAC has been increased due the additional support required supporting the Drone programs.

6.0 FUNDS ANALYSIS

Table 2. HMIS Fiscal Year 2021 Funds vs. Fiscal Year Spend Plan

HMIS - FY 2021 IIP Funding Status Status through September FY 2021 (\$000)												
CLIN	Fund Source	IIP FYTD	FYTD ACWP	Spending Variance	* Funds Received	Remaining Available Funds	** RL Expected Funding	Total EAC	HMIS Uncosted Balance	Encumb Carryover	Hold Backs	Unencum Balance
CLIN 4	SWS and RL-0201 Fee	160,722.7	146,875.7	13,847.0	160,502.8	13,627.1	162,770.0	146,875.7	15,894.3	6,066.1	9,828.2	-
CLIN 4	RL-0020 (SES, IM, Fee)	61,602.7	56,815.4	4,787.3	70,531.6	13,716.2	69,211.5	56,815.4	12,396.1	4,318.7	8,116.4	(39.0)
CLIN 4	RL-0020 (RP)	4,009.4	258.4	3,751.0	4,114.5	3,856.1	4,009.4	258.4	3,751.0	3,750.5		0.5
CLIN 4	RL-0201 (RP)	28,262.3	17,348.9	10,913.4	36,122.7	18,773.8	44,964.1	17,348.9	27,615.2	11,193.5	16,023.0	398.7
CLIN 4	RL-0201 (BMS)	14,100.0		14,100.0	12,326.5	12,326.5	14,100.0		14,100.0	14,100.0		-
CLIN 4	RL-0201 (HAMMER)	8,664.7	6,436.7	2,228.0	8,500.0	2,063.3		6,436.7	2,228.0	2,228.0		0.0
CLIN 4	RL-0201 (COVID, Testing, GSI, CSI, Z356)	3,243.2	2,117.7	1,125.5	3,652.0	1,534.3	4,266.2	2,117.7	2,148.5	2,547.2		(398.7)
CLIN 4	RL201, RL13, RL20, ORP-14, 60, PD - Other DOE Services	3,994.1	2,805.3	1,188.8	6,239.8	3,434.5	3,994.1	2,805.3	1,188.8	429.0	755.9	3.9
CLIN 5	RL-0201 (Small Business, Fee)	128.4	17.2	111.2	97.0	79.8	128.4	17.2	111.2	1.5	109.7	-
CLIN 6	RL-0201 (Fee)	4,443.9	3,555.1	888.8	4,000.0	444.9	4,443.9	3,555.1	888.8	888.8		(0.0)
CLIN 7	RL-0020 (RP)	516.7	482.1	34.6	516.7	34.6	516.7	482.1	34.6			34.6
CLIN 7	RL-0201 (RP, Fee)	18,157.5	7,121.1	11,036.4	19,333.8	12,212.7	18,674.1	7,121.1	11,553.0	10,528.7	1,024.3	(0.0)
				-		-			-			-
	TOTAL	307,845.6	243,833.6	64,012.0	325,937.4	82,103.8	335,743.1	243,833.6	91,909.5	56,052.0	35,857.5	(0.0)

* Funds received through Contract Mod P00110 dated September 29, 2021

** RL Expected Funding thru CBAG Rev 3 and revised Integrated Investment Portfolio (IIP) submitted to DOE-RL on August 27 2021. Adjustments in FY21 for the FY22 IIP Planning have been made including a reduction to Reliability Project for \$3,070K to fund Z-356, Heating & Cooling Station 93 (GPP RL-0201) and Hanford Fire Department Habitability Project (SWS).

The Remaining Available Funds will fund SWS through October 21, 2021 and RL-0020 through December 1, 2021

Performance Summary: The current Integrated Investment Portfolio (IIP) was submitted to DOE-RL August 27, 2021 and based upon CBAG Rev 3.

Spending Variance Analysis: The Fiscal Year to Date (FYTD) variance in Site-wide Services (SWS) is primarily due to open requisitions not filled, variability of newly subcontracted scope under HMIS, unable to obtain resources for outages, COVID-19 quarantines, timing of procurements, less overtime, and lower costs from NorthWind than expected. RL-0020 underruns are primarily in labor due to COVID-19 quarantines, attrition, and staff supporting other scope. In addition, timing of materials, equipment, and subcontracts that will carry over into FY22. A class was scheduled in FY21 but has been delayed until FY22. RL-0201 (HAMMER) is due to delay in procurements and projects that will carry over into FY22. In addition, there were labor efficiencies realized in performing maintenance activities. RL-0201 (Business Management System) was pre-funded \$14M and will begin in FY22. RL-0201 (Reliability Project - CLIN 4) underrun is primarily due to Project L-919, Emergency Radio Upgrade - delays to contract award and material receipts which have delayed construction execution, L-897, Central Plateau Water Treatment Facility - membrane procurement contract delayed, L-720, Outdoor Lighting Reconfiguration delayed due to lack of Radiological Control resources, L-907, Fleet Complex Development under due to milestone payment being delayed and contract awarded for less than planned and L-819, High Capacity Fiber Optic (300 Area) -

Fiber procurement to be received in FY22. The underrun in RL-0201 (Reliability Project - CLIN 7) is primarily due to Project L-897, Central Plateau Water Treatment Facility had a delay in Notice of Construction application approvals and Membrane procurement award resulting in less costs than planned and Project L-895, Fire Protection Infrastructure for PRW had a delay in awarding the A/E subcontract and switchgear impacts.

Variance at Completion/Uncosted Balance:

The \$92M Variance at Completion is based on CBAG Rev 3, RL Targeted Funding and is primarily due to \$15M in RL-0201 for L-612, 230kV Transmission System Reconditioning and Sustainability Repairs that is being held back pending DOE-RL direction and is funding specifically held for Project L-612. In addition, scope for BMS was pre-funded at \$14M in FY21; however, will begin in FY22. There is a requirement to maintain continuity of operations into FY22 for a Continuing Resolution (CR) which would be approximately \$14M of funding held back at a bottom line. RL-0020 has an uncosted balance of \$15M that will be held for FY22 shortfalls in funding, supports a CR and carryover scope. Reliability Projects (RL-0201) are under by \$22M in CLIN 4 and 7 (excluding L-612 funding) and will complete in FY22. SWS underrun of \$14M will support shortfalls in FY22, a two-week CR, and carryover scope into FY22. Fee (CLIN 4, 5, 6, 7) is being accrued at 80% and leaving an uncosted balance of \$5M and will be held until a final fee determination is made in FY22. CLIN 7 fee was not negotiated therefore an accrual was not made.

Encumbered Carry scope is \$56M and will complete in FY22 including: Reliability Project (RL-0201, RL-0020) \$24M, BMS (RL-0201) \$14M, HAMMER (RL-0201) \$2M, GPP Z-356 (RL-0201) \$1M, Inventory accounts (RL-0201) \$1M, RL20 (BIO, SES, IM) \$4M, SWS \$5M, Fee in CLIN 4, 5, 6, and 7 is \$5M, Other DOE Services \$.4M

Table 3. Usage-Based Services/Direct Cost Adder Summary (Dollars in Thousands)

Account Description	Fiscal Year To Date Sept FY21					FY21 HMIS Fiscal Year End			
	(Budget) Budgeted Cost of Work Scheduled (BCWS)	(Actuals) Actual Cost of Work Performed (ACWP)	Cost Variance	Liquidation	Liquidation (Over) / Under	Budget At Completion (BAC)	Outlook	Forecasted Liquidation	Forecasted Liquidation (Over) / Under
Direct Cost Adder (DCA)									
Software Services (4001.09.06.01.01)	5,525.9	1,852.2	3,673.7	(1,852.2)	0.0	5,525.9	1,852.2	(1,852.2)	0.0
Records Mgmt (4001.09.06.07.01)	1,248.3	1,142.3	106.0	(1,142.3)	0.0	1,248.3	1,142.3	(1,142.3)	0.0
Janitorial Services (4001.09.08.02.02)	1,258.8	1,284.0	(25.2)	(1,284.0)	0.0	1,258.8	1,284.0	(1,284.0)	0.0
Maintenance (4001.09.08.02.01)	5,080.4	6,921.0	(1,840.6)	(6,921.0)	0.0	5,080.4	6,921.0	(6,921.0)	0.0
Motor Carrier (4001.09.02.01.01)	3,735.8	3,686.6	49.2	(3,686.6)	0.0	3,735.8	3,686.6	(3,686.6)	0.0
Total Direct Cost Adder - Total	16,849.2	14,886.1	1,963.1	(14,886.1)	0.0	16,849.2	14,886.1	(14,886.1)	0.0
Usage Based Service									
Dosimetry (4001.09.10.08.01)	3,278.9	3,163.1	115.8	(3,163.1)	0.0	3,278.9	3,163.1	(3,163.1)	0.0
Training (4001.09.05.01.01)	8,849.1	11,664.8	(2,815.7)	(11,664.8)	0.0	8,849.1	11,664.8	(11,664.8)	0.0
Hanford Rad Instrumentation Prog (4001.09.10.08.02)	2,682.7	2,179.7	503.0	(2,179.7)	0.0	2,682.7	2,179.7	(2,179.7)	0.0
Information Technology Services (4001.09.06.03)	20,344.6	22,936.5	(2,591.9)	(22,936.5)	0.0	20,344.6	22,936.5	(22,936.5)	0.0
Work Management (4001.09.08.02.04/05)	262.3	496.0	(233.7)	(496.0)	0.0	262.3	496.0	(496.0)	0.0
Occupancy Lease (4001.09.08.02.03.04)	2,754.0	3,215.9	(461.9)	(3,215.9)	0.0	2,754.0	3,215.9	(3,215.9)	0.0
Occupancy Gov't (4001.09.08.02.03.05)	2,885.1	3,134.3	(249.2)	(3,134.3)	0.0	2,885.1	3,134.3	(3,134.3)	0.0
Crane & Rigging (4001.09.02.03.01)	7,083.1	7,885.0	(801.9)	(7,885.0)	0.0	7,083.1	7,885.0	(7,885.0)	0.0
Fleet Fuel Delivered (4001.09.02.02.03.04)	416.3	377.2	39.1	(377.2)	0.0	416.3	377.2	(377.2)	0.0
Fleet Fuel Consumed (4001.09.02.02.03.05)	2,289.6	1,683.1	606.5	(1,683.1)	0.0	2,289.6	1,683.1	(1,683.1)	0.0
Fleet Services (4001.09.02.02.01)	12,280.6	5,895.2	6,385.4	(5,895.2)	0.0	12,280.6	5,895.2	(5,895.2)	0.0
Fleet Materials (4001.09.02.02.02)	4,162.9	1,976.9	2,186.0	(1,976.9)	0.0	4,162.9	1,976.9	(1,976.9)	0.0
Fleet GSA Vehicle Maint (4001.09.02.02.04)	1,665.2	922.3	742.9	(922.3)	0.0	1,665.2	922.3	(922.3)	0.0
Courier Services (4001.09.07.05.01.01)	216.2	154.6	61.6	(154.6)	0.0	216.2	154.6	(154.6)	0.0
Usage Based Service - Total	69,170.5	65,684.5	3,486.0	(65,684.5)	0.0	69,170.5	65,684.5	(65,684.5)	0.0
Variable Services Total	86,019.7	80,570.6	5,449.1	(80,570.6)	0.0	86,019.7	80,570.6	(80,570.6)	0.0

Usage Based Service (UBS)/Direct Cost Adder (DCA) – The FYTD positive cost variance of \$5.4M is primarily driven per a cost under run to date of the Fleet Services UBS pool account. The Fleet services actuals costs reflect a decrease of plan, per an under run of General Services Administration (GSA) Lease/Mileage charges, as the Budgeted Cost of Work Scheduled (BCWS) fully represented full program charges within this Fleet UBS account.

The UBS/DCA is reflected at \$0.0M liquidation status, given the standard practice of full liquidation of each pool’s costs over the entire customer base at fiscal year-end.

7.0 PERTINENT BUSINESS INFORMATION

Table 4. Small Business Statistics – September

Socio Economic Category	Goals from SBSP	FY21 Actual to Date (% and Award Amount)	Cumulative	On track to meet or exceed goals
Small Business (SB)	55%	86.13% (\$167,440,461.06)	86.13%	✓
Small Disadvantaged Business (SDB)	8%	57.14% (\$111,075,703.71)	57.14%	✓
Small Woman Owned Business (SWOB)	8%	11.86% (\$23,056,616.62)	11.86%	✓
HUBZone (HUB)	4%	8.56% (\$16,642,223.92)	8.56%	✓
Service Disabled Veteran Owned (SDVO)	4%	65.50% (\$10,698,724.27)	5.50%	✓
Veteran Owned Small Business (VOSB)	5%	7.43% (\$14,439,864.41)	7.43%	✓

Overall award total through reporting period (September 2021) for FY21: \$194,407,055.15

NOTES:

- FY21 Actual Data and Cumulative columns are the same since both reporting periods align.
- HMIS percentage goals are calculated based on the Total Awards divided by the Overall Awards Total. Each reporting value is calculated separately utilizing the same process and measured against the overall subcontracting goals as outlined in the HMIS Small Business Subcontracting plan.

HMIS reports all purchase card, purchase orders and subcontract awards based on award values and established size standards associated with the subcontractor, i.e., small business, and large business. As a part of the reporting structure, HMIS additionally reports all socio-economic conditions (Small Disadvantage Business, Small Woman Owned Business, Hub Zone, Small Disabled Veteran Owned and Veteran Owned Small Business). HMIS credits all subcontract awards to a Government Contractor, Educational Institute, Nonprofits, Off-Contract,

Government entities and Foreign under a Formally Excluded heading, which ultimately reports under the large business.

8.0 BASELINE CHANGE REQUESTS

In September, HMIS approved and implemented seven Baseline Change Requests (BCRs) into the Contractor Performance Baseline (CPB). The change requests are identified in the following table:

Table 5. September 2021 Baseline Change Requests

Change Request #	Title	CLIN	Summary of Change
BCR-HMS-21-020	Implement FY 2022 Replan for the PMB	4, 5, 7	This BCR aligned the HMIS FY 2022 work plan to the latest execution strategy for the PMB.
BCR-HMS-21-040	Implement FY 2022 Replan for the Non-PMB	6, 8, N/A	This BCR aligned the HMIS FY 2022 work plan to the latest execution strategy for the non-PMB.
BCR-HMS-21-049	Realign Pension Administration and Legacy PTB Accounts to Non-PMB and CLIN 3 Distribution	3, 4	This BCR realigned PMB and non-PMB work scope as it related to the scope within the IIP. In addition, this BCR redistributed CLIN 3 budget to coincide with Rocky Flats Legacy Benefits Claim.
BCR-HMS-21-050	Implement RFS and DDWS Scope Through Contract Modification P00091	4, 8	This BCR distributed RFS and DDTO budget into the baseline through contract modification P00091.
BCR-HMS-21-052	Administrative Baseline Changes for September 2021 Reporting	4	This BCR implemented administrative WBS and coding changes.
BCR-HMS-21-053	Implement NTP for COVID-19 Testing for Hanford Site	4	This BCR implemented the \$100K NTE for Hanford Site COVID testing program initiation.
BCR-HMS-21-054	Update Program Log through Contract Modification P00093	4, 8	This BCR implements the program log entries to transfer the Negotiated Contract Cost (NCC) to UB through contract modification P00093 while also adjusting for the CLIN 8 out year planning package reductions.

8.1 Undistributed Budget Activity

In September, the largest contributor to the change in Undistributed Budget (UB) was BCR-HMS-21-020. This BCR incorporated changes to the FY 2022 execution strategy in which it drew down from various CLIN 4 Not to exceed (NTE) values (i.e., DFLAW animation, record of decision workflow, L-612, etc.), CLIN 4 indirects not yet redistributed, and gave back to CLIN 5 FY 2022 scope not yet authorized to be performed.

**Table 6. September 2021 Undistributed Budget
(Dollars in Thousands)**

Change Request #	Title	CLIN	UB
BCR-HMS-21-020	Implement FY 2022 Replan for the PMB	4	(\$1,664)
BCR-HMS-21-020	Implement FY 2022 Replan for the PMB	5	\$218
BCR-HMS-21-050	Implement RFS and DDWS Scope Through Contract Modification P00091	4	(\$1,225)
BCR-HMS-21-053	Implement NTP for COVID-19 Testing for Hanford Site	4	(\$100)
BCR-HMS-21-054	Update Program Log through Contract Modification P00093	4	\$1,127

8.2 Management Reserve Activity

There was no change in Management Reserve (MR) in September.

9.0 RISK MANAGEMENT

Program Services and Support: Refer to Section A of this report for Program Services and Support specific risk assessments.

Reliability Projects: Refer to Section B of this report for project-specific risk assessments.

10.0 PROGRAM CONDITION STATUS

Table 7. Hanford Site Infrastructure System Health and Status Summary
SECOND QUARTER CALENDAR YEAR 2021 DATA (APRIL THRU JUNE)

	INFRASTRUCTURE SYSTEM	SYSTEM DESCRIPTION	SYSTEM HEALTH RATINGS			
			OVERALL STATUS	AVAILABILITY	MAINTENANCE	CONFIGURATION
Water/Sewer Utilities	Export Water (INFRA-EW) HMIS-ENG-66397, Revision 1	This system provides export water to the 200 East & West Areas of the Hanford Site. Columbia River water is pumped to the 100-B and 100-D Areas and placed in settling basins. This system interfaces with both the raw and sanitary water systems.	72.0% ▼ -9%	63.0% ▼ -14%	85.0% ▼ -6%	86.0% ▬ 0%
	Raw Water (INFRA-RW) HMIS-ENG-66396, Revision 1	This system delivers raw water from the 200 Area reservoirs to the 200 Areas of the Hanford Site.	71.0% ▬ 0.0%	55.0% ▬ 0.0%	93.0% ▲ 1.0%	97.0% ▬ 0.0%
	Sanitary Water (INFRA-SW) HMIS-ENG-66395, Revision 1	This system treats export water for human use and consumption in the 200 Areas of the Hanford Site.	89.0% ▼ -3.0%	89.0% ▼ -3.0%	88.0% ▼ -3.0%	92.0% ▬ 0.0%
	Sanitary Sewer (INFRA-SNS) HMIS-ENG-66394, Revision 1	This system receives and processes waste water generated from occupied facilities in the 200 Areas of the Hanford Site.	85.0% ▼ -2.0%	78.0% ▼ -1.0%	88.0% ▼ -8.0%	100.0% ▬ 0.0%
SAS	Safeguards and Security (INFRA-SAS) HMIS-ENG-66418, Revision 1	This system provides access control & intrusion detection capabilities at the Hanford Site excluding the 200 Area Interim Storage Area. The boundary for each facility security system is defined by the power source.	99.0% ▬ 0.0%	100.0% ▬ 0.0%	100.0% ▬ 0.0%	93.0% ▬ 0.0%
ELECTRICAL UTILITIES	Transmission (INFRA-Transmission) HMIS-ENG-66447, Revision 1	This system provides power to the entire Hanford Site from the substations using overhead and some underground distribution lines. Major components of the system include service transformers, conductor, poles, line fault indicators, pole-top reclosers, capacitor banks and pole-top switches.	See Note 5	100.0% ▬ 0.0%	100.0% ▲ 4.0%	100.0% ▬ 0.0%
	Distribution (INFRA-Distribution) HMIS-ENG-66446, Revision 1	This system provides real-time knowledge of the electrical power flowing through the INFRA-TRANSMISSION, INFRA-SUB_A6, INFRA-SUB_A8, INFRA-SUB_A9, and INFRA-DISTRIBUTION systems. This system has some real-time knowledge of the INFRA-SUB_451B system. It performs remote operation of some switches.	94.0% ▲ 0.8%	100.0% ▬ 0.0%	80.0% ▲ 4.0%	90.0% ▬ 0.0%
	Supervisory, Ctrl, & Data Acq Sys (INFRA-EU_SCADA) HMIS-ENG-66401, Revision 1	This system provides real-time knowledge of the electrical power flowing through the INFRA-TRANSMISSION, INFRA-SUB_A6, INFRA-SUB_A8, INFRA-SUB_A9, and INFRA-DISTRIBUTION systems. This system has some real-time knowledge of the INFRA-SUB_451B system. It performs remote operation of some switches.	88.1% ▬ 0.0% See Note 6	100.0% ▬ 0.0%	95.6% ▬ 0.0%	98.3% ▬ 0.0%
	Meter Data Management Sys (INFRA-MDMS) HMIS-ENG-66448, Revision 1	This system provides data collection, energy management, & access by stakeholders through a web-based Energy Management Module, and energy billing to support the unique Hanford electrical billing process for BPA billing, costing, forecast, and rate.	87.2% ▼ -0.6%	98.6% ▲ 0.2%	95.0% ▼ -1.0%	97.0% ▼ -2.3%
	Substation A6 (INFRA-SUB_A6) HMIS-ENG-66398, Revision 1	This 230 kV substation monitors, protects, and controls the electrical power to the Waste Treatment Plant (WTP) Complex. The substation transforms transmission power to distribution power, which is supplied underground to the WTP 13.8 kV Switchgear Building.	98.4% ▬ 0.0%	100.0% ▬ 0.0% See Note 7	100.0% ▲ 5.0%	92.0% ▼ -5.0%
	Substation A8 (INFRA-SUB_A8) HMIS-ENG-66398, Revision 1	This 230 kV substation monitors, protects, and controls the electrical power to the 200 East and 200 West Areas. The substation transforms transmission power to distribution power. This substation also provides backup power to Substation A9, which supplies the 100 Areas.	93.8% ▼ -2.8%	100.0% ▬ 0.0% See Note 7	82.0% ▼ -12.0%	87.0% ▼ -2.0%
	Substation A9 (INFRA-SUB_A9) HMIS-ENG-66398, Revision 1	This 230 kV substation monitors, protects, and controls the electrical power to the 100 Areas. The substation transforms transmission power to distribution power.	99.8% ▲ 1.4%	100.0% ▬ 0.0% See Note 7	100.0% ▲ 8.0%	99.0% ▼ -1.0%
	Substation 451B (INFRA-SUB_451B) HMIS-ENG-66398, Revision 1	This 115 kV substation monitors, protects, and controls the electrical power to the 400 Area and Laser Interferometer Gravitational Observatory. The substation transforms transmission power to distribution power.	71.1% ▲ 0.4%	100.0% ▬ 0.0%	95.0% ▲ 5.0%	79.0% ▼ -2.0%

EXECUTIVE SUMMARY

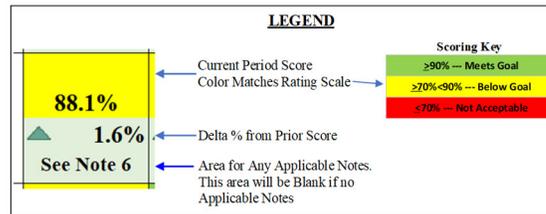


INFRASTRUCTURE SYSTEM		SYSTEM DESCRIPTION	SYSTEM HEALTH RATINGS			
			OVERALL STATUS	AVAILABILITY	MAINTENANCE	CONFIGURATION
INFORMATION TECHNOLOGY	Core Telecom Infrastructure (INFRA-TELECOM) HMIS-ENG-66426, Revision 1	The function of this system is to provide voice and data services to the Hanford Site. System includes the telecommunication equipment at all the core Information Management Facilities.	94.0% ▲ 0.0%	95.0% ▲ 0.0%	100.0% ▲ 0.0%	88.0% ▲ 3.0%
	Outside Plant Telecom Infrastructure (INFRA-OSP) HMIS-ENG-66427, Revision 1	This system manages all fiber, copper and wireless outside plant infrastructure. INFRA-OSP includes the fiber summary map and spectrum management map. This system interfaces with other core telecommunication systems.	91.0% ▲ 2.0%	91.0% ▲ 1.0%	88.0% ▼ -4.0%	94.0% ▲ 10.0%
	Campus Network Infrastructure (INFRA-CAMPUS) HMIS-ENG-65998, Revision 2	This system manages all components associated with the end building network connectivity and includes but is not limited to building network switches, indoor wireless access points, telecommunication rooms, backboards and networks logic diagrams. This system interfaces with other core telecommunication systems.	96.0% ▲ 1.0%	96.0% ▲ 0.0%	100.0% ▲ 0.0%	92.0% ▲ 3.0%
	Special Circuits (INFRA-SC) HMIS-ENG-66400, Revision 1	This system manages all of the special circuits providing telecommunications connectivity across the Hanford Site. This system interfaces with the core telecommunication system.	100.0% ▲ 0.0%	100.0% ▲ 0.0%	100.0% ▲ 0.0%	100.0% ▲ 0.0%
	Hanford Site Emergency Alerting Sys (INFRA-HSEAS) HMIS-ENG-66002, Revision 2	This system manages all drawings, diagrams and maps associated with the Hanford Site Emergency Alerting System (HSEAS). System includes sirens, message reader boards (MRB), tone alert radios (TAR), and AM radio stations.	94.0% ▲ 14.0%	94.0% ▲ 22.0%	93.0% ▲ 7.0%	96.0% ▲ 0.0%
FIRE SYSTEMS	Breathing Air System (INFRA-FIRE_AIR) HMIS-ENG-66442, Revision 1	This system provides Grade D, or better, breathing air for Self-Contained Breathing Apparatus (SCBA) bottles, tanks for bottle carts, and emergency vehicles. The system also provides breathing air for SCBA unit testing and repair shops located at HAMMER and Building 609G.	82.0% ▲ 0.0%	70.0% ▲ 0.0%	100.0% ▲ 0.0%	100.0% ▲ 0.0%
	Radio Fire Alarm Reporter (INFRA-RFAR) HMIS-ENG-66435, Revision 1	This system transmits and receives alarm and trouble event signals primarily from facility fire alarm control panels to the Hanford Fire Department Dispatch Center located in the 200 Area Fire Station. RFAR is Factory Mutual-approved and meets NFPA 72.	88.0% ▼ -4.0%	93.0% ▼ -1.0%	79.0% ▼ -16.0%	83.0% ▲ 0.0%
	Fire Alarms (INFRA-FA) HMIS-ENG-66004, Revision 2	This system alerts building occupants of smoke and/or fire within the building and associated structures, while automatically summoning emergency services because of the activated alarm(s). [HMIS facilities only].	89.0% ▲ 3.0%	95.0% ▲ 0.0%	83.0% ▲ 11.0%	76.0% ▲ 1.0%
	Fire Suppression (INFRA-FIRE_SUPP) HMIS-ENG-61894, Revision 2	This system provides automatic controls for fires in buildings using; water, carbon dioxide, dry chemical, clean agents (Halon replacements), and high-expansion foams for the protection of certain portions of buildings or occupancy types. [HMIS facilities only]	86.0% ▲ 4.0%	97.0% ▼ -3.0%	79.0% ▲ 14.0%	60.0% ▲ 12.0%
ROADS	Hanford Site Roads (INFRA-ROADS) HMIS-ENG-66422, Revision 1	This system provides safe and compliant road networks to support continued operations and closure of the Hanford Site. Major components of the system include primary, secondary, and tertiary roads.	90.0% ▲ 3.0%	86.0% ▲ 0.0%	93.0% ▲ 15.0%	100.0% ▲ 0.0%

Notes:

1. HMIS-PRO-ENG-61164, Infrastructure System Health and Status Reports, describes the process for report and ratings development.
2. In general, the Overall Status is calculated using Availability, Maintenance, and Configuration ratings. For some specific systems, aging or other Design Authority considerations has been factored in and a specific Note is identified.
3. Chart is based on the most recent published data for each system and scores are rounded to a maximum of four significant digits (i.e., 100.0%).
4. When data is available from a prior reporting period, the delta increase or decrease in the score is shown in parentheses below the current score.
5. Report includes separate ratings for status of North and South Loops. Overall status for this system exceeds goal value shown in report.
6. Consideration of system aging resulted in reduction of Overall System Status. See report for details on how this affects the Overall System Status score.
7. Report also calculates and presents availability of Bulk Electric System (BES) Transfer Trip Communications System, which is not presented in this summary table.
8. Overall System Status score scaled by 0.75 to reflect age of system and current period issues with transformer B5810C. See report for details.
9. This score for Roads is defined by the Design Authority as Condition in the report, as appropriate to this system.

Revision: FY21-05



Revision Summary

FY21-01: Updates to reflect latest updates to reports for INFRA-EW, INFRA-RW, INFRA-SW, INFRA-SNS, INFRA-Transmission, INFRA-Distribution, INFRA-EU_SCADA, INFRA-MDMS, INFRA-SUB_A6, INFRA-SUB_A8, INFRA-SUB_A9, INFRA-SUB_451B, INFRA-TELECOM, and INFRA-OSP.

FY21-02: Updates to reflect latest updates to reports for INFRA-EW, INFRA-RW, INFRA-SW, INFRA-SNS, INFRA-Transmission, INFRA-Distribution, INFRA-EU_SCADA, INFRA-MDMS, INFRA-SUB_A6, INFRA-SUB_A8, INFRA-SUB_A9, and INFRA-SUB_451B.

--Start of HMIS Operations (Jan 25, 2021)--

FY21-03: Updates to reflect latest updates to reports for INFRA-SC, INFRA-CAMPUS, INFRA-HSEAS, INFRA-RFAR, INFRA-FA, and INFRA-SUPP.

FY21-04: All reports updated to meet HMIS contract requirements for quarterly reporting of system health status.

FY21-05: All reports updated to meet HMIS contract requirements for quarterly reporting of system health status. Second calendar quarter of CY2021 = Third fiscal quarter of FY2021

11.0 GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

Table 8. Government Furnished Services and Information

Contract Section	Identification	GFS/I	Due	VP	Do you have any open DOE actions or concerns?
C.4.3.1.4	GF0001	DOE will administer Memorandum of Understanding (MOUs) with other law enforcement agencies or other Federal agencies (e.g., U.S. Department of Defense [Yakima Training Center]). DOE will provide copies of MOUs and/or contracts to the HMESC.	As required	Chase/ Blehm	No issues or concerns
C.4.3.1.1	GF0002	DOE will provide credentials and shields for Hanford Patrol personnel.	As required	Chase/ Blehm	No issues or concerns
C.4.3.1.4	GF0003	DOE will arbitrate all security or law enforcement jurisdictional issues.	As required	Chase/ Blehm	No issues or concerns

Contract Section	Identification	GFS/I	Due	VP	Do you have any open DOE actions or concerns?
C.4.3.2.4	GF0004	DOE will provide technical and administrative support expertise, including clearance and special access processing, adjudication of investigative reports or other security-related information, Human Reliability Program oversight/ administration, and Administrative Review processing. DOE will monitor and provide reporting on the various stages of clearance actions, when necessary.	As required	Chase/ Blehm	No issues or concerns
C.4.3.5	GF0005	DOE will provide the Local Area Network Material Accountability System program software and periodic updates.	As required	Chase/ Blehm	No issues or concerns
C.4.3.6.2	GF0006	DOE will provide the Under Secretary Program Cyber Security Plan and Risk Assessment Management System (including training in its use), and any updates to these.	As required	Chase/ Eckman	No issues or concerns
C.4.5.1	GF0007	DOE will provide up-to-date projections of future site-wide employment numbers, in order to base training and funding needs on an annual basis.	As required	Von Bargaen Pardini	No issues or concerns

Contract Section	Identification	GFS/I	Due	VP	Do you have any open DOE actions or concerns?
C.4.5.1	GF0008	DOE will provide approval/ disapproval of facility use by non-Hanford Site customers and authorize facility use without charge, when appropriate and applicable.	As required	Von Bargaen	No issues or concerns
C.4.5.1	GF0009	DOE will provide all active Memorandum of Agreement (MOAs)/MOUs with other Federal, state, Tribal, and local agencies or officials affecting the use of HAMMER facilities by these agencies, including Mutual Aid Agreements.	As required	Von Bargaen/ Vandervert	No issues or concerns
C.4.5.1	GF0010	DOE-issued standards, including but not limited to, the Crane and Rigging Manual and the Radiological Control (RADCON) Manual will be provided to establish appropriate training programs in accordance with those standards.	As required	Von Bargaen	No issues or concerns
C.4.4.2	GF0011	DOE will provide the contract for emergency, fire, medical, and confined space rescue/retrieval for Energy Northwest.	As required	Chase/ Blehm	No issues or concerns

Contract Section	Identification	GFS/I	Due	VP	Do you have any open DOE actions or concerns?
C.4.4.1	GF0012	DOE will provide an MOU between DOE and U.S. Fish and Wildlife Service (USFWS) for the operation of designated portions of the Hanford Reach National Monument regarding any fire notification responsibilities.	As required	Chase/ Blehm	No issues or concerns
C.4.4.1	GF0013	DOE will provide the “Cooperative Fire Protection Agreement” with the USFWS regarding the commitment of both the USFWS and DOE in fire suppression emergency response activities for land managed by the USFWS.	As required	Chase/ Blehm	No issues or concerns
C.4.10.6	GF0014	DOE will provide access to all active permits, license, databases, MOAs, MOUs, and agreements with other Federal, state, and local agencies and the Tribal Nations for the protection of environmental, cultural, and historical resources.	As required	Teel	No issues or concerns

Contract Section	Identification	GFS/I	Due	VP	Do you have any open DOE actions or concerns?
C.4.10.6	GF0015	DOE will coordinate with the regulators to reach agreement on Contractor-prepared regulatory and supporting documentation and on innovations that require changes to the regulatory approach. The Contractor shall not assume that each innovation will result in a change to the regulatory approach.	As required	Teel	No issues or concerns
C.4.10.6	GF0016	DOE will review, approve, and/or certify, as required, all regulatory and supporting documentation.	As required	Teel	No issues or concerns
C.4.10.1	GF0017	DOE will provide guidance for the content of the National Environmental Policy Act Characterization Report	As required	Teel	No issues or concerns
C.4.9.2	GF0018	DOE will provide access to the Hanford Reach National Monument, which is managed by the USFWS under a permit with DOE.	As required	Teel	No issues or concerns
C.4.10.2	GF0019	DOE will provide active MOAs and Programmatic Agreements with other Federal, state, local, and Tribal Nations agencies or officials regarding the protection of cultural and historic resources.	As required	Teel	No issues or concerns

Contract Section	Identification	GFS/I	Due	VP	Do you have any open DOE actions or concerns?
C.4.2.2.6	GF0020	DOE will provide the Cross-Service Agreement with General Services Administration (GSA) that addresses preventive maintenance and repair services and reimbursement rates for GSA Fleet vehicles.	As required	Von Bargaen / Baie	No issues or concerns
C.4.1.1	GF0021	DOE will provide the Contractor with copies of agreements with Bonneville Power Administration, Benton Public Utility District, Benton Rural Electric Association, and City of Richland including revisions and amendments thereto. DOE will provide the Contractor with guidance from Bonneville Power Administration on the implementation of agreements. DOE will provide the Contractor with guidance from DOE-HQ for implementing the 2005 Energy Policy Act, and guidance for energy cost and consumption data entry into the Sustainability Dashboard.	As required	Synoground / Boarder	10.12.2021, agreement in review process
C.4.8	GF0022	DOE will provide directions as to when program missions or portions of a real property asset are no longer needed in support of DOE missions.	As required	Synoground	No issues or concerns

Contract Section	Identification	GFS/I	Due	VP	Do you have any open DOE actions or concerns?
C.4.8	GF0023	DOE will approve and execute real estate actions to acquire, utilize, and dispose of real property assets.	As required	Synoground	No issues or concerns
C.4.8	GF0024	DOE will approve real estate reports as identified in the 41 CFR 102, Property Management Regulations, for the Stewart M. McKenny – Vento Homeless Assistance Act Title V – Identification and Use of Surplus Federal Property (300 and 400 Areas complete).	As required	Synoground	No issues or concerns
C.4.8	GF0025	DOE will approve any non-DOE activities that require the use of any Hanford Site real property to conduct work or other activities. This requirement applies to activities not included in the scope of DOE Hanford prime contracts or proposed by other entities such as other DOE area offices and their contractors, non-profit organizations, non-DOE governmental agencies, and private parties.	As required	Synoground	No issues or concerns

Contract Section	Identification	GFS/I	Due	VP	Do you have any open DOE actions or concerns?
C.4.9.3	GF0026	DOE will approve original and/or updates to the Hanford Post Cleanup Surveillance and Maintenance Program Plan, the Long Term Surveillance and Maintenance Plan, the Site Wide Institutional Control Plan, the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) 5-Year reviews including comment responses, and the Post Cleanup Surveillance and Maintenance website content.	As required	Teel	No issues or concerns
C.4.7.2	GF0027	The Federal Compensation Program Act electronic reporting system will be provided to the Contractor.	As required	Teel	No issues or concerns
C.4.6.7	GF0028	DOE will provide direction pertinent to the distribution and records schedule information for correspondence.	As required	Eckman/ Stonaker	No issues or concerns
C.4.7.6	GF0029	DOE will provide access to personnel locator information and other systems, as appropriate for various contractors/companies, will be provided.	As required	Eckman	No issues or concerns

Contract Section	Identification	GFS/I	Due	VP	Do you have any open DOE actions or concerns?
C.4.6.9	GF0030	DOE will provide forms design software (Adobe®), form templates for all existing and superseded forms, forms database and others will all be provided to the incoming contractor.	As required	Kelley / Ward	Complete
C.4.6.6	GF0031	DOE will provide access to the Records Inventory and Disposition Schedule database and content (records) management databases and records whether paper or electronic.	As required	Eckman / Stonaker	No issues or concerns
C.4.12.7.3	GF0032	DOE will provide design requirements as applicable.	As required	Pardini	No issues or concerns
C.4.10.3.1	GF0033	DOE will provide guidance for the preparation of the Annual Site Environmental Report.	As required	Teel	No issues or concerns
C.4.9.3	GF0034	DOE will provide a CERCLA 5-Year schedule to establish an applicable deliverable due date for submittal of the final CERCLA 5-Year Review Report for the Hanford Site.	As required	Teel	No issues or concerns

Contract Section	Identification	GFS/I	Due	VP	Do you have any open DOE actions or concerns?
C.4.12.7.1	GF0035	DOE provides a Hanford “planning case” budget to prepare the DRAFT Hanford Lifecycle Scope, Schedule and Cost Report.	July 1, 2011 for TPA Milestone M-036-01B (2012 Lifecycle Report), and annually thereafter by June 1 for the remaining M-036-01 milestones	Pardini	Planning case will be received in April (RL) and August (ORP). Need to revise the J.11 to reflect revised plan.

12.0 PERFORMANCE EVALUATION AND MEASUREMENT PLAN (PEMP)

Service Level Performance		SLA								
		Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
CLIN 004										
a	Biological Controls – Pest Removal ≥85% 3-business-day completion									
b	Biological Controls – Tumbleweed Removal ≥80% 15-business-day completion									
c	Biological Controls : Vegetation Pre-Emergent; Selective; and Non-Selective; ≥85% on-time campaign fulfillment									
d	Maintain Potable Water Pressure at ICD Level									
e	Maintain Raw Water Pressure at ICD Level									
f	Electrical, Water & Sewer Preventative maintenance at 90% or better each month									
g	Electrical power availability									
h	Facilities Maintenance ≥90% on-time completion									
i	Fire Protection System Maintenance ≥90% on time completion									
j	Fire Systems - Priority 1 Emergency Impairments ≤ 3									
k	Fire Systems - Priority 2 Emergency Restrictions ≤ 18									
l	Fire Systems - Priority 3 Emergency Restrictions ≤ 80									
m	Fire Systems - Priority 2 Emergency Impairments ≤ 180 days during the month	N/A	N/A	N/A						
n	Fire Systems - Priority 3 Emergency Impairments ≤ 365 days during the month	N/A	N/A	N/A						
o	IT-Cyber Security – System Patching: ≥97% 7-business-day turnaround time (desktops) and ≥97% 14-business-day turnaround time (databases/servers)									
p	Cyber Security – Operational Technology (OT) Cyber Scores, reduction in cyber score, ≥2	N/A	N/A	N/A						
q	IT-Cyber Security – CISA Directive Reporting	N/A	N/A	N/A						
r	IT-Cyber Security Reporting - Incident within 30 minutes	N/A	N/A	N/A						
CLIN 0006										
a	Crane and Crew Support: ≥85% 2-business-day turnaround time and ≥85% 1-business-day turnaround time (emergency requests)									
b	Fleet Services – Heavy Equipment Cranes; ≥90% in service - Cranes									
c	Fleet Services – Heavy Equipment Excavators ≥90% in service - Excavators									
d	Fleet Services – Heavy Equipment General Purpose; ≥90% in service									
e	Fleet Services – Light Equipment Hanford Patrol; ≥90% in-service									
f	Fleet Services – Light Equipment Hanford Fire; ≥90% in-service									
g	Fleet Services – Light Equipment Special Purpose; ≥90% in-service									
h	RSS - Dosimetry External Services: ≥95% 10-business-day turnaround time (routine exchanges) and ≥95% 30-business-day turnaround time (annual exchanges)									
i	RSS - Instrumentation Calibration ≥90% 10-day turnaround time									

Performance Notes:

- i. Yellow in September: Primary driver is lack of firefighter resources/availability to work activities and facility access due to extreme heat in July.
- k. Red in September - continued lack of firefighter resources impacting workflow. Working to address as many activities as possible on overtime to catch up on backlogged work, however other higher priority work has taken precedence (emergency impairments and non-compliant backlogged IT&M), and some scheduling impacts have been realized from the recent excessive heat wave creating work rest regiments on many of these systems.
- l. Red in September - continued lack of firefighter resources impacting workflow. Working to address as many activities as possible on overtime to catch up on backlogged work, however other higher priority work has taken precedence (emergency impairments and non-compliant backlogged IT&M), and some scheduling impacts have been realized from the recent excessive heat wave creating work rest regiments on many of these systems.
- m. September was impacted by Firefighter availability to address issues.

13.0 DOE ACTIONS/DECISIONS

Program Services and Support: Refer to Section A of this report for Program Services and Support specific DOE actions/decisions.

Reliability Projects: Refer to Section B of this report for project-specific DOE actions/decisions.

Section A



Program Services and Support

1.0 PROGRAM SERVICES AND SUPPORT SUMMARY

Key accomplishments and progress towards completion of goals and objectives, for the month of September included:

President's Office:

- Chief of Staff/Communications/External Affairs/Special Projects
 - HMIS completed and delivered a new high-level video animation of the DFLAW process, in collaboration with DOE, BNI, CPCCo and WRPS. A general delivery message was sent to share the video with employees and several social media posts were shared as well. The high-level process animation will be used to assist the public, stakeholders, and employees to visualize how the process treats tank waste safely and efficiently through the DFLAW approach.
 - HMIS supported DOE in preparing for and implementing the Hanford Advisory Board (HAB) Public Involvement Committee (PIC) meeting and full HAB Board meeting. For the PIC, HMIS took the lead in compiling information for the Public Involvement Calendar and provided the briefing regarding comment periods and upcoming public involvement items. Additional assistance for HAB included coordinating media, social media, and events calendar promotions, planning calls, documenting key points and actions, assisting with correspondence, and administrative support.
 - Supported DOE and the Nuclear Regulatory Commission (NRC) with four technical conference calls for the NRC to ask follow-up questions on the Draft Waste Incidental to Reprocessing Evaluation for Vitrified Low-Activity Waste. Support included organizing time and date for each call, which included HQ, DOE Hanford, WRPS, and NRC; and coordinating with key stakeholders on the calls.
 - HMIS issued pre-notices on two upcoming comment periods. Support included drafting notices, web banners, newspaper ads, social media posts, meeting agendas, and postings to Hanford.gov. HMIS also collaborated with DOE, contractors, and the Tri-Party Agreement (TPA) agencies, and prepared logistics for future public meetings.
 - HMIS drafted, edited, and sent 19 sitewide messages on topics including Emergency Operations, HLAN, traffic impacts and several related to COVID-19 protocols and impacts. Several other messages were forwarded to DOE and other contractors to share with employees.
 - HMIS coordinated a 1.5-hour Speakers Bureau/virtual tour presentation for 37 students from the TELOS Student Organization (TSO). TSO is a program of Bellevue Community College for retired individuals pursuing continued education and general learning. HMIS worked with the organizer and DOE to arrange speakers, schedule planning meetings, and a dry run to familiarize speakers with the Zoom platform. In an evaluation, the TSO coordinator affirmed that that presentation was “really informative about Hanford Site progress” and they may be interested in future presentations informing on the progress of the vitrification process.

- Ethics
 - The FY2022 Ethics Sustainability Plan (ESP) was published to the Ethics internal website. The ESP, while not exhaustive, addresses many of the most significant efforts deemed appropriate for the first full year of the Hanford Mission Essential Services Contract in accordance with laws, regulations, and contract requirements. Implementation of the ESP is part of the living document known as the Contractor Code of Business Ethics and Conduct (in support of FAR 52.203-13). A formal assessment of the ESP will occur annually, with improvements and updates provided as needed in subsequent updates.
 - The HMIS Board of Managers/Directors Commitment to ethics was posted as the “executive pledge” on the Ethics internal website. This commitment was unanimously agreed to and signed by all after their last visit to Hanford.
 - Both the Ethics and Compliance contact information and the HMIS Ethics Guide were added to the external HMIS website so that all internal and external employees, customers, and stakeholders can see the commitment we have to ethics and compliance.
- Employee Concerns
 - The Employee Concerns Program (ECP) Program Manager attended the National Association of Employee Concerns Professionals (NAECP) Fall training and virtual conference. The NAECP provides training, development, certification, and operating experience for professionals in the management and execution of Employee Concerns (EC) and works collaboratively with regulatory bodies to support and improve the implementation of EC programs. The Fall 2021 session featured industry leaders and subject matter experts on communication, investigation/resolution of concerns during the pandemic, as well as legal updates and considerations for ECP professionals. DOE-HQ also hosted a breakout session for DOE and its contractors to discuss consistent processes and common issues across the complex.

Business Integration and Operations:

- Site Mission Integration
 - Site Risk & Performance Analysis continues code requirement cross-walk against all EROMS tents to identify necessary fields to support future Enterprise Risk Management Plan (ERMP) alignment and PowerBI dashboards. Once ERMP has been endorsed, HMIS will initiate the risk management working group to align EROMS.
 - Portfolio Planning completed scope gap review of RL-0042 and ready to schedule meeting. Returned to performing gap analysis for RL-0013.
 - Completed testing of automated data extraction jobs into Central Plateau Cleanup Contract, Hanford Laboratory Management and Integration LLC, and HMIS Cobra databases for P6 and Cobra.

- Procurement
 - Statement of Work Guidance Document was drafted and sent to all Buyer's Technical Representative (BTRs) as well as Contract Specialists.
 - BTR Document Review Checklist was drafted and sent to all BTRs as well as Contract Specialist to use as a tool to develop Acquisition Planning Documents, Statements of Work, Non-Competitive Justifications, and Basis of Estimates.
 - HMIS has met or exceeded all small business goals to date.
 - Plans on implementing a BTR Document Review process to work toward compliant procurement documentation.
 - L-895 Switchgear Material: Purchase Order 78044 was awarded on September 22 with material estimated to be delivered on November 22.
 - Continues to process extension of subcontracts for FY22.
- Finance & Accounting
 - Technical Accounting closed Fiscal Year 2021 and liquidated pool balances. With the support of Baker Tilly, the Disclosure statement is being updated to include any applicable policies and procedures. Accounting is also supporting the Forward Pricing Rate audit, preparing the accounting system description, and preparing for the accounting system audit.
 - Benefits accounting completed the required IRS Form 5500 filings for the legacy benefit plans on time and submitted copies to DOE.
- Business Process Compliance & Invoicing
 - During September 2021, two operational invoices and a provisional fee invoice were submitted totaling \$39.7M for the work scope directly funded by DOE-RL. Payments from DOE-RL in the amount of \$49.2M were also received (i.e., invoices HM20210902, HM20211101, HM20211102, and HM2021FEE03). For the work scope invoiced to the OHC's, during September, \$10.8M was invoiced, and payments of \$6.8M were received. Fiscal year to date, approximately 2,900 invoices have been submitted to the OHC's with 442 invoices submitted in September, and 1,015 invoices are still outstanding.
 - BPC continued the development of multiple business analytics. The key focus for September was completing the development of the Floor Check process and training of the Floor Check Performers for implementation in October. During September 43 Floor Check Performers completed computer-based training part one, with part two planned for early October. BPC is on schedule for implementing the floor checks in October 2021. BPC also provided 14 telemetry related trip reports to managers with government vehicles for evaluation and continued supporting updates to the Disclosure Statement.

- Estimates & Proposal
 - Developed 41 Day- Deductive Proposal.
 - Provided pricing updates to Project L-897 PDS documents and Government Accountability Office (GAO) review.
 - Incorporated Changes from L-897 into RPTO-002 for submittal in October.
 - Completed PROPRICER updates to align with the HMESC contract.
- Contract Administration
 - Received approval for the FY22 Overtime (OT) Plan reducing several hours of effort and time in reviewing individual OT requests (over 100 of them in FY21)
 - Provided overview to RL of the PowerBI OT Metrics Dashboard and met with favorable reviews
 - All RFSs provided to RL by 8/31/21 for review and approval to accommodate timely processing by RL, mitigating the year-end pressures experienced in previous years
 - All year-end contract deliverables submitted on time
 - Submitted 41-Day Deductive Proposal on time (9/1/21)

Infrastructure & Site Services:

- Facility Information Management System (FIMS)
 - Program manager assisted DOE RL answer deferred maintenance FY20/FY21 variance questions from DOE headquarters.
 - Continuation of the FIMS – Sunflower match of capital assets.
- CareTaker
 - FIND development continues - the Facility Number Request and System Change Notice functionality is being programmed in Facility Information Numbering Database. Calc Sheets for the Other Structures and Facilities are being developed. And the property Unique IDs continue.
- Moves/Lease Vacate
 - WRPS receive approval for their lease of 2435 Stevens which will start a domino effect on other buildings and occupancies. HMIS will play a big role as the move coordinators for Hanford.
- General Purpose Facilities
 - Shower trailers for L-933 and L-934 are being worked with.

- Projects
 - L-850, L-897 & L839 Commissioning and turnover meetings started.
 - L-895 Procedure work continues. Procedures for turnover is estimated at 90%.
- Other
 - The Maintenance 5-Year Plan, Recommended Change Request process is completed. Changes were incorporate and procedure published.
 - Continued updating procedures to complete the Blue Sheeting process.
 - Removed the final 15 poles on the Riverland Feeder. Originally fed from the 100B Area, The Riverland Feeder provided a backup power supply to the Bonneville Power Administration Midway Substation. The line, which was disconnected from Midway a few years ago, was no longer needed and identified as a footprint reduction item.



Riverland Feeder Poles

- Substation operators completed 3-year Yard PM for the A8 Substation. These PMs are an important aspect of the Electrical Utilities (EU) Maintenance Program and ensure proper operation and reliability of components connected to the Bulk Electric System.



A8 Substation 3-Year Yard PM completed

- Meter/Relay Technicians completed the 3-year relay PMs for the A8 Substation. These PMs are performed to ensure proper operation of the electrical relays that provide monitoring and protection of the Transmission System.



A8 Substation Relay PMs completed

- EU excessed legacy electrical meters in wooden crates outside of 2101M. Since restart of the Asset Disposition (Excess) program under HMIS, EU has been working diligently to identify, characterize, and excess equipment that is either no longer needed or past its design life in the Electrical Transmission and Distribution Systems.



EU excessed meters in these wooden boxes

- Fire Systems Maintenance (FSM) executed several corrective maintenance items, allowing for the closure of 17 fire system discrepancies in the month of July. Many of these were system restrictions which have the potential to impact the ability for fire suppression systems to operate appropriately in the event of a fire.
- FSM responded to and corrected 3 emergency impairments, which are conditions that critically impact fire suppression systems. Facilities included MO406, 2403WD, and 2706T.

- FSM completed 158 backlogged preventive maintenance items, allowing for several existing non-compliant inspection, testing, and maintenance activities to be brought back into compliance.
- Processed Inter-Contractor Work Orders/updated Enterprise Asset Management Team (EAM) Cost Account Charge Numbers and setup crosswalk to share with TerraGraphics for charging purposes
- Project EAM - Follow up Demo for Hammer to track respirators and consumables module
- Buyer’s Technical Representative duties, Stratum Consulting, TerraGraphics, Lucas invoice reviews
- Continue to send out Backlog metrics for Ready to Work, Ready to Schedule, Working to schedulers and Field Work Supervisors
- Support of the HMIS Priority list
- Put Job Control System (JCS) to EAM on hold (Moving forward with ROM for EAM, JCS)
- Created Contract Change Request to extend the Period of Performance of TerraGraphics contract out until December 31st. HMIS is performing internal audit of TG will be complete by the end of October.
- Procedure Management – Blue-sheet updates are complete for 1,543 documents. The task is 83% complete. The next deadline is October 25 with three documents remaining to be updated.

Table A-1. Blue-Sheet Expirations Coming Due

Blue-Sheet Interval	Docs Coming Due
Blue Sheets Expired	0
9 Mos. (due 10/25/21)	3
365-Day	316
Total Remaining	319

- Work Planning and Prioritization – Operations Support, in coordination with Work Planning, have created a weekly prioritization list for Infrastructure and Site Services. This is a pilot effort to help identify where work priorities are and ensure appropriate resources are assigned for work execution. This list has also been viewed as beneficial for identifying overtime needs.
- Compliance Updates
 - Collected the Anatoxin-a samples from 200W and 100K areas in accordance with State of Washington Department of Health (WDOH) guidance to monitor algae toxins based

on a localized algae concern in the Columbia River. Participated in a September 29th Teams call with local utilities and WDOH staff regarding the status.

- Revisions to HNF-35051, Small Water System Management Program, have been published. This is CD0332. Removal of out of service Metron Cabinet
- 282EC Metron Fire Pump Control Panel



Removal of out of service Metron Cabinet



New Metron Cabinet in place

- Personnel from Central Maintenance, Crane and Rigging, Teamsters, and Water and Sewer Utilities (W&SU) began work on replacement of the Metron Fire Pump Control Panel. Activities included: Personnel guiding out of service Metron Cabinet out of 282EC
 - Disconnection of wiring
 - Removal of out of service Metron Cabinet
 - Transportation of both cabinets to 2266
 - Conduit holes cut into new cabinet
 - Placement of new cabinet in 282EC
 - Landing and testing of wires into new cabinet
- B-Plant ERMA Repair
 - Maintenance Services completed the repair for the 10" sanitary water line near the 225-BG facility
 - The area was excavated, and a repair sleeve was installed for the 10" water line
 - The bell joint repair sleeve saved time and money and minimized worker exposure to hazards by eliminating the need for cutting into the water line
 - Following the repair, the area was filled with grout by CPCCo to separate the raw water and sanitary water lines

- The completion of the repair assisted CPCCo with continuation of the W-135 Project



Central Maintenance personnel completing repairs with new repair sleeve

- 2607-E13
 - Maintenance services recently completed closure of the 2607-E13 abandoned wastewater tank. The following actions were completed:
 - Removed bollards, signs, and debris
 - Absorbed residual liquid in tank
 - Filled tank with specialized grout
 - Installed gravel and graded area for vehicle and foot traffic
 - Initiated process to remove the site from the WIDS database



Before



After

- Mechanical & Instrumentation Services
 - Supported Water Utilities by performing oil sampling on sanitary water pumps at 283E & 283W, as well as air filter replacements on the variable frequency drives at 283E & 283W



Oil Sampling on water pumps

- Performed work on holding tank 2607-E13, which required filling an abandoned septic tank with seven cubic yards of control density fill



Holding tank performance

- Painting & Signage Services
 - A team of painters and teamsters performed crosswalk, arrows, and other road stenciling work
 - These activities represent some of the last that will be performed this road striping season

- Significantly improves visibility in the darker winter months



New road striping

- Refrigerated Equipment Services (RES)
 - RES teams, with the support of sheet metal workers, and a crane and rigging team, changed out four failing Heating Ventilation and Air Conditioning (HVAC) units at 2101M



Metal sheet replacements

- RES teams, with the support of sheet metal workers and a crane and rigging team, replaced HVAC unit HP-5 which supplies heating and cooling to the metal shop at 2266E. The work our sheet metal workers did on the new ducting exemplifies the quality workmanship they provide on a routine basis.



Replacing HVAC units

Interface & Integration Services:

- Interface Management
 - Interface Management completed a review and update of HMIS-PRO-IFM-45821, HMIS Inter-Contractor Work Order (ICWO) Process procedure. The updated procedure was published to support upcoming FY 22 ICWO activities.
 - Interface Management completed Management Assessment No. HMIS-ASMT-2020-0077 on September 1, 2021. The HMIS ICWO process was reviewed with input from HMIS Project Controls, Contracts, and the OHCs to ensure compliance with new RL direction to HMIS for managing work with the OHCs.

- Interface Management successfully published three updated Service Delivery Documents (SDDs) the week of September 16, 2021: SDD J3-62 – Pager Services, SDD J3-63 – Radio Services for Crafts, and SDD J3-64 – Radio Services for Emergency Services.
- Interface Management and Communications collaborated with the OHCs in updating the AIA for Hanford Site Tours Conducted by the HMIS Hanford Site Cleanup Tour Program (HNF-64707, Rev. 1) for contractors who support HMIS in coordinating Hanford Site public tours. Signatories from BNI, CPCCo, HLMI, HMIS, PNNL, and WRPS, and provided final concurrence, and the AIA was issued in September.
- Fleet Services
 - Nothing to report for September.
- HAMMER
 - Completed Audio and visual equipment upgrades in ten training spaces allowing for improved training delivery and versatility of spaces.
 - Implemented a new escape room activity for the Respiratory Refresher course. The improved learning activity requires the students to answer questions and solve puzzles while wearing respiratory gear, mimicking work activities they will experience in the field.
 - HAMMER Electrical Safety staff recently incorporated lessons learned from a stop work onsite into the Equipment Operation Near Powerlines course. The stop work was generated by Electrical Utilities regarding work around power lines and power poles as contractors were not following protocol for this work. Highlighting lessons learned during training heightens awareness onsite concerning the issues noted in the stop work.
- Warehouse & Property Management
 - Processed the first transfer of excess property to the Washington State, State Agencies for Surplus Property since the rejuvenation of the Asset Disposition Program. The item transferred was a Tennant 7300 Floor Sweeper, acquisition value \$29,693.20.
 - Received 12-crates of excess material from Electrical Utilities. These materials have been accumulating over the past several months as the Asset Disposition group operated under an interim process limiting the receipt of excess from the site. Ramping up to full operation under a revised excess process, Asset Disposition will soon be assisting both HMIS and OHCs in our site clean-up mission.



Before and after excessing the 12 crates at 2101M/200 East

- Provided storage space within the 2101M Warehouse to Janitorial Services. This space will be used to store floor service equipment and supplies, enabling Janitorial Services to vacate MO412 in the 200 West Area.
- Months of pre-work, interfacing with CPCCo and PNNL, have culminated in the submittal of the initial Purchase Requisition for a newly specified waste packaging and shipping container (55-gallon drum). These containers will be stocked within the HMIS General Supplies Inventory, available to HMIS and OHC's.
- Two pallets of fire hose were donated to the West Richland Fire Department by DOE-RL. The fire hose had recently been excessed by the Hanford Fire Department.
- Provided Storekeeper support to the CPCCo Soil & Groundwater Operations group. HMIS occasionally provides this support to backfill CPCCo Storekeeper needs due to extended illnesses, vacation, or other absences.
- Worked with the Water and Sewer Utilities group to add 51 new Critical Spare Parts into inventory. The part descriptions have been assigned Catalog Identification Numbers and are currently being reviewed by Quality Assurance prior to the initial procurement.
- Transportation Services
 - Roads and Grounds personnel supported the transport of 2 decommissioned reactors, from the Port of Benton barge landing to the sub pit in 200 East. This scope consists of escort vehicles, traffic control flaggers, and maintenance to the gravel haul roads.
- Crane and Rigging
 - HMIS Crane & Rigging working with engineering and safety, recently completed tensioning of the "Guy Wires" (cables used to secure a tower structure) on the 400' tower (tower #21) that was built in the mid 1940's. Initial lower guy wire tension was recorded using the Pulse Method. Work was performed utilizing a tensioning device (angles) fabricated by Crane & Rigging and hydraulic rams. The typical set-up operation for each guy wire included; placing new nuts at the top of the threads, the device was then inserted between the lower and upper nuts, and (2) hydraulic rams were placed at the bottom of

the tensioning device. This allowed the clevis to be pushed down to use available thread and to insert additional (1/2" or 1" steel) shims when needed.



400 Foot Tower "Guy Wire" Tensioning activities

Mission Assurance:

- HMIS Performance Oversight completed the internal Environmental Management Systems independent assessment for the Radiological Site Services organization (HMIS-ASMT-2021-0056), the review did not identify any adverse conditions however several opportunities for improvement were identified.
- HMIS Quality Assurance issues a major revision to the Quality Assurance Program description (HMIS_PLN-QA-599) to identify weaknesses identified within the program, the revision added the basis for the graded approach being implemented to HMIS. In, addition a new procedure on CGD of items and services was document in HMIS-PRO-QA-62403. This procedure addressed a contract requirement that was added to the HMESC.
- The HMIS Acquisition Verification Services (AVS) group performed receipt inspection of quality level 1, 2, and 3 items on behalf of the prime contractors. AVS completed 212 receivers, comprising of 332-line items, and generated 29 non-conformance reports (NCRs)

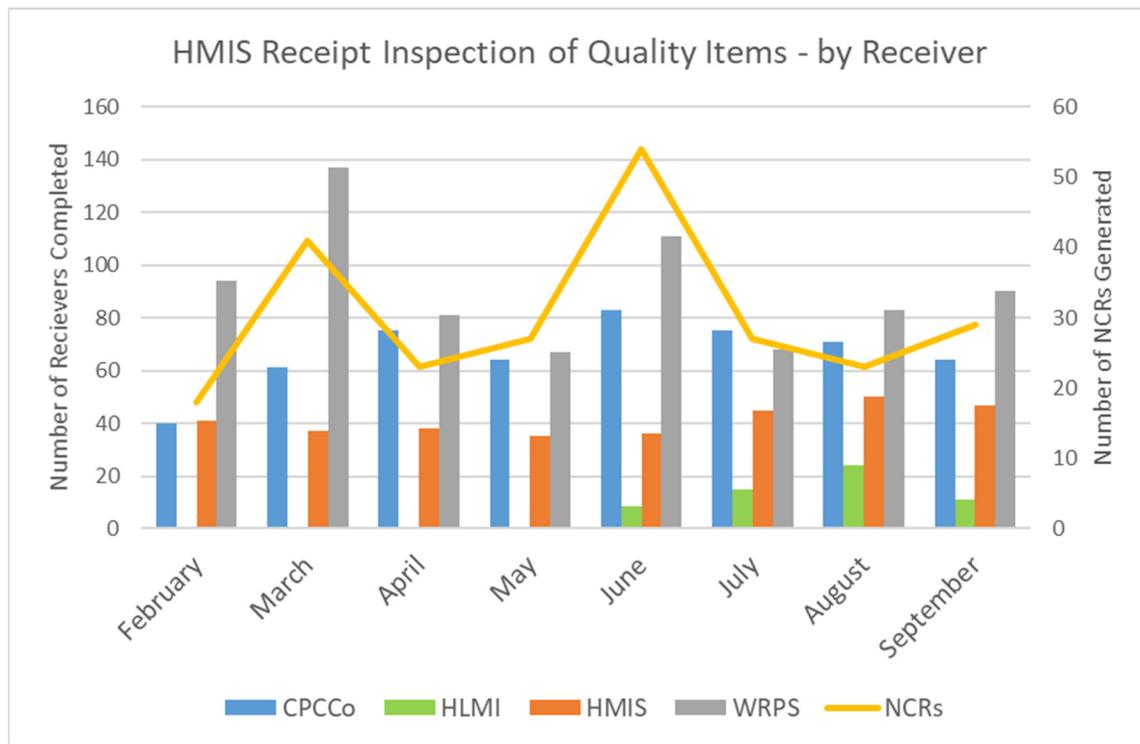


Figure A-1. Receipt Inspections Packages Completed by Contractor

- HMIS Quality Assurance Engineers provided oversight of subcontractor activities and reliability project activities by reviewing 310 documents including statements of work, design, construction, and procurement project documents, and participated in 11 field oversight/witness activities.
- HMIS completed *DOE/RL-2021-01, HANFORD SITE – Fifth CERCLA Five-Year Review Report, Draft A* and provided to DOE for their transmittal of the draft document to Environmental Protection Agency (EPA) and Ecology for formal review and comment for inclusion in the final contract deliverable due to DOE.
- HMIS completed the guy wire tensioning for Meteorology Station 21, HMS’s 400 ft tower as recommended in the 5-year inspection report. Regularly scheduled tower inspections will be performed in the next several years and proper tensioning will be further independently verified.
- HMIS submitted thirty-eight (38) Current Year (CY) 2022 Annual CXs to the DOE National Environmental Policy Act (NEPA) Compliance Officer (NCO) for review and approval. The Annual CXs were prepared pursuant to DOE’s NEPA implementing procedures at Title 10, Part 1021, Subpart 1021.410(f) of the Code of Federal Regulations [10 CFR 1021.410(f)]. The DOE NCO preapproved Annual CXs are critical to the streamlined performance of routine and recurring work activities.

- HMIS provided support to WRPS and DOE when sample results from the semi-annual composite air sample data for the 1st-half of 2021 showed three (3) isotopic air sample results that exceeded 10% of the Table 2 values for Cs-137 and Sr-90 from two environmental air stations in the 200 East area near the Liquid Effluent Retention Facility (LERF). All data and pertinent information have been provided to LERF personnel WRPS, DOE, and the Washington State Department of Health. HMIS will continue to monitor the individual biweekly samples collected near LERF.
- HMIS transmitted for *DOE/RL Approval and Transmittal to Ecology – Hanford Site Southern Area Fire Station Notice of Construction Application and Health Impact Assessment* to obtain Ecology approval to construct and operate a new diesel-fueled emergency generator to supply emergency back-up power to a new Southern Area Fire Station near the eastern portion of the 400 Area on the Hanford Site.
- HMIS completed the 10 CFR 835 Subpart E, Monitoring of Individuals and Area, triennial assessment. Results of this assessment has identified 0 Findings, 9 Opportunities For Improvement, and one Strength. In general, this subpart demonstrates compliance to the regulations of this subpart, which: documents radiological conditions; to detect changes in radiological conditions; to detect the gradual buildup of radioactive material; and verifies the effectiveness of engineered and administrative controls containing radioactive material and reducing radiation exposure.
- HMIS initiated the phase 1 Integrated Safety Management System (ISMS) internal review, with a focus on the following areas: Review of HMIS-PLN-SP-003 including integration of Environmental and Quality assurance requirements, Work planning and control including critical subcontractor processes, Environmental and Quality Assurance requirements integration into Contractor Special Provisions (SP-5) and HMIS management and organizational changes. DOE has been invited to shadow this review.
- HMIS responded to a data capture request from Centers for Disease Control/National Institutes of Occupational Safety and Health Energy Employees' Occupational Illness Compensation Program Act (CDC/NIOSH EEOICPA) program; letter request sought clarification on historical dose record management and records available at this time.
- HMIS, in collaboration with Other Site Contractors, is developing a process to strengthen justification for procurement of Personal Protective Equipment (PPE). Implementation will allow managers to tie PPE requirements, within the General Hazards Analysis, Craft Hazards Analysis, and/or the Job Hazard Analysis, to the procurement system. This initiative helps support contract cost allowability for PPE being purchased under the contract and consistent application across all contractors.

Safeguards, Security & Emergency Response:

- HMIS EM&P staff responded to an Event Coordination Team activation prompted by a take cover in the 200 West Area. The take cover was implemented when two work crews simultaneously smelled odors near the REDOX facility. Field crews investigated the odor

and found no evidence of radiation or a release of chemicals and the take cover was lifted. EM&P staff are evaluating issues identified during the response and will develop lessons learned and an after-action report. The EOC Shift Office categorized the event as an Abnormal Event and completed onsite and offsite notifications.

- HMIS EM&P staff completed the HMIS Continuity of Operations Annual Self-Assessment. The purpose of this self-assessment is to satisfy the annual Continuity Program self-assessment required by DOE Order 150.1A, Continuity Programs, to validate program readiness and identify any opportunities for improvement. HMIS is satisfactorily implementing the requirements in accordance with DOE O 150.1A. One opportunity for improvement was identified and will result in revising Emergency Plan Implementing Procedures (RLEP) 2.4, Event Coordination Team. Changes include coordinating Pandemic/epidemic planning with the Hanford Leadership Council in accordance with DOE-0426, Hanford Site Governance.
- HMIS EM&P staff met with local offsite emergency management representatives to discuss proposed modifications to Hanford Emergency Planning Zones (EPZ) and offsite protective action recommendations. EPZ modifications will include the elimination of the 100K EPZ, expansion of the 200 East Area EPZ to 3.7 miles, and the reduction of the 300 Area EPZ to 0.9 mile.
- HMIS EM&P staff provided the following support to OHCs and DOE-RL/ORP:
 - HMIS Continuity Emergency Response Group (CERG) Initial Training for one new CERG Members
 - Emergency Operations Center position-specific training to three students.
 - Hanford Incident Command System/Building Emergency Director/Facility Emergency Response Organization Training to 16 students.
 - Supported eight Hazardous Facility Emergency Response drills (CPCCo – 2, HLMI – 1, HMIS – 1, WTP – 1, WRPS – 3).
 - The following Emergency Management Program documents were published:
 - RLEP 3.25 revision 7, UDAC Field Team Exposure Control
 - Emergency Action Level (EAL) Implementing Procedures: 200 East Area ISA, B-Plant
 - Emergency Planning Hazards Assessments (EPHAs): 200 East Area ISA, WESF, 216-Z-9
- HMIS Information Security staff successfully completed the annual Information Systems Continuous Monitoring (ISCM) assessment of the National Security Systems (SASLAN and SASMASS). The assessment was conducted virtually by the DOE's Office of Environmental Management (EM) Mission Information Protection Program (MIPP) team. No findings or issue were identified.

- HMIS Safeguards and Security (SAS) coordinated the review and update of 39 Asset Protection Agreements (APAs) for Site facilities during September. The APAs define the assets present in a facility and the controls in place to protect those assets. APAs are reviewed and updated annually and are a collaboration between Physical Security and the facility owner.
- HMIS Information Security staff Continued Phase 3 of the classified holding reduction project review of classified holdings at the Records Holding Area. To date 346 boxes have been reviewed. Due to the Epidemiological hold (EPI) 575 boxes previously determined to be eligible for destruction are now required to be reviewed. Classified Document Control and Records Management collaborated on a path forward to initiate the EPI reviews and the project will continue into FY 2022.
- HMIS HFD initiated a New Recruit Training Academy for 9 new hires. The full 16-week Academy training is designed to provide Hanford specific training and prepare the new recruits for integration into HFD Operations.
- HFD personnel completed training on ammonia detection equipment (ToxiRAE) and specialized HAZMAT/Decontamination procedures in preparation for Waste Treatment Plant operational readiness activities.
- HMIS HFD personnel from the Hanford Fire Marshal Office (HFMO) continued to provide documentation review and support for multiple infrastructure projects including L-849/850, 200E/W water tank replacements, L-888, L-894, L-897, L-907, and L-928.

Information Management Services:

- IMS Program Management
 - Information Management Services (IMS) successfully completed the replacement of the core internal firewalls. The replacement improved Hanford's bandwidth, increased Cyber logging capabilities, and eliminated the bottleneck issues previously being experienced.
 - IMS implemented an IDMS records disposition workflow to support automating Hanford's return to routine disposition. This implementation was post role-based training and a key stakeholder demo highlighting ties back to requirements established in a disposition kaizen held in March 2021.
 - IMS established training qualification cards for four roles in Cybersecurity including Incident Response, Governance, Risk and Compliance (GRC), Security Tester, and Cybersecurity Manager. The qualification cards include elements such as computer-based training, required reading, and role evaluations. Once a qualification card is completed it will be included in the training record.
 - IMS validated over 34,000 billing records to ensure the fiscal year-end billing was accurate for over 25+ companies that utilize Hanford IT Usage Based Services. This

billing included User accounts, Full Clients, Telephones, Special Circuits, Virtual Servers, IT Setups and much more.

- IMS successfully completed FY21 financial close for HMIS, CPCCo, WRPS, Mission Support Alliance (MSA), CH2M HILL Plateau Remediation Company (CHPRC) with minimal significant issues. This included the complexity of adding two new companies.
- IMS established a master agreement with Energy Northwest for HMIS to support WTCC software systems, network infrastructure and architecture, cyber security, and control systems as well as gain access to regional nuclear facility software systems subject matter experts for guidance.
- HMIS has completed an Engineering Change Request for changes at the 2506E4 facility where the cross-band repeaters will be installed to establish inter-connection between the 800Mhz communications system at Waste Treatment Plant (WTP) and the Hanford site Emergency Radio system. This will provide radio communications in and around WTP buildings for Hanford Fire and Hanford Patrol.
- IMS deployed a new virtual desktop option, AVD, along with a new service request process in ESP for requesting the AVD. The ESP request provides an automated workflow for approvals and automated creation of the AVD via an interface from ESP to Azure.
- IMS completed the upgrade of Office 2016 to Microsoft 365 Apps for Enterprise (M365 Apps). M365 Apps is similar to other versions of Microsoft Office but with enhanced features around collaboration, information protection, threat protection and compliance. It is subscription based and will be updated regularly with new features.
- IMS Chief Information Office
 - IMS submitted the Software Development Life Cycle Plan contract deliverable. SDLC plan assures that systems under development meet the established requirements and support the mission's information technology functions.
 - A new version of the Human Resource Information System (HRIS) was deployed to implement cyber security changes into the system for SSL encryption as well as implement tax updates for compliance.
 - IMS successfully upgraded the Learning Management System (LMS) to the latest version which included improvements in the areas of learning administration, enhanced workflow, and user experience.
 - IMS supported a site-wide turn deactivation of the COV attendance codes with the expiration of the CARES Act. Additionally, IMS deployed a new attendance code (COF) supporting employee's ability to support family members while they receive their COVID vaccination. The new attendance code went into effect on 9/29/2021.

- IMS presented the ArcGIS Indoors Space Planner application to HMIS Maintenance Management Programs (MMP) to share an overview of the system’s streamlined space management and floor planning capabilities. Beginning in September, the MMP organization will begin submitting two floor plans per week for conversion into ArcGIS Indoors with an estimated 50 HMIS facility floor plans to be available in ArcGIS Indoors by March 2022. In addition, CPCCo Facilities and Property Management plan to add over 80 facility floor plans to ArcGIS Indoors in FY22, supporting the implementation of ArcGIS as the Hanford site standard for space planning and floor plan management.
- Business System Management (BMS) Upgrade Consent Package was submitted to DOE. This is the last and final step required to award the implementation and software contract for enabling project start in late October or early November once consent is received.

Workforce Solutions:

- Workforce Relations
 - HMIS concluded bargaining the impact of Governor Jay Inslee’s Proclamation 24-14.1 with the HAMTC and IAFF Local I-24, on September 16, 2021. This proclamation mandates COVID-19 vaccinations by October 18, 2021, for certain workers within the State of Washington, to include those performing work that falls within the definition of “Healthcare Setting,” as defined within the proclamation, as well as individuals holding a certificate or license identified on the Washington Healthcare Professional Credentialing Requirements list. The signed agreement with HAMTC and IAFF Local I-24 was also executed on September 16, 2021.
 - HMIS entered full and open contract negotiations with the Hanford Guards Union Local 21, on September 20, 2021, for the purpose of negotiating a 5-year Labor Agreement with a duration from November 1, 2021 through November 1, 2026. Negotiations are ongoing.
 - HMIS entered negotiations for a 1-year contract extension with HAMTC on September 21, 2021. The objective of the negotiations is to reach mutual agreement on a general wage increase for 2021 and to extend employee benefits and contributions, as outlined in attachment M & N of the current Labor Agreement, through November 1, 2022. A tentative agreement was reached on September 29, 2021. A ratification vote is scheduled to be conducted on November 5, 2021.
- Building Trades Contractor Meeting
 - On September 8, 2021, the Hanford Workforce Engagement Center (HWEC) representatives attended the monthly Building Trades Contractor meeting. The Contractors provided the Building Trades Headcount numbers, first aid, and recordable information, for HMIS subcontractors performing work on behalf of HMIS.

- Hanford Workforce Engagement Center (HWEC)
 - As of September 30, 2021, the HWEC has had over 11,000 interactions with current and former Hanford workers and survivors of former Hanford workers with both federal and state claims since its opening in April 2018. These interactions included telephone calls and consultations, in person walk-ins to the HWEC facility, e-mail consultations, scheduled face-to-face meetings, and since March of 2020, COVID has created consistent hurdles for the Hanford site. The HWEC, even with COVID restrictions/social distancing, has continued assisting current workers, former workers, and family members of those workers. The HWEC has adapted its services and access to outreach activities. A summary of September 2021, interactions are outlined below:

Table A-2. Hanford Workforce Engagement Center

Monthly Events – September, 2021	
Phone calls	135
Walk-ins	19
E-mails	82
Scheduled Appointments	2
Outreach	5
Monthly Total for September	243
Total Since HWEC Opening	11,194

- Monthly Workers’ Compensation Meeting
 - On September 28, 2021, HWEC Representatives and Workers’ Compensation representatives from all other U. S. Department of Energy, Richland Operations Office (DOE-RL) contractors attended the monthly DOE Workers Compensation meeting led by DOE. The meeting included a discussion on COVID-19 and Workers’ Compensation claims.
- Legacy Benefits – Fernald Welfare Benefits Plan
 - Nothing to report for September 2021
- Legacy Benefits – Mound Welfare Benefits Plan
 - Summary of Material Modification (SMM)
 On September 22, 2021, the Mound Board of Trustees voted to approve SMM on dependent eligibility, effective January 1, 2022. Effective January 1, 2022, only a spouse or dependent enrolled in the Plan during the 2022 Annual Enrollment period will be eligible for continued coverage. Following the Annual Enrollment period, Mound retirees will not be allowed to add a new spouse or eligible dependent. In addition, if a spouse or dependent ceases to be enrolled in the Plan, the spouse and/or dependent will not be

allowed to re-enroll in the Plan for any reason. This administrative process change supports the plan design of a “closed” benefit plan.

- Extension of Service Provider Contracts: Mercer provides consulting and actuarial services and LifeWorks provides Third-Party Administrator services to the Mound Welfare Benefits Plan. These two service provider contracts were novated from WRPS on January 1, 2021, with the transition to HMIS and were set to expire on September 30, 2021. These two contracts were extended to December 31, 2021, to provide adequate time to review the existing terms of the agreements and establish new contracts with the Mound Welfare Benefits Trust for continued service.
- Beneficiary Solicitation Mailing: On September 20, 2021, the Third-Party Administrator, LifeWorks, fulfilled the first communication of the Beneficiary Solicitation project to approximately 875 retirees. In this first communication, mailed to retiree’s homes, retirees are encouraged to update their beneficiary(ies) on the Mound website to reduce cost of paper form processing. For those retirees who do not update on the website, they will be sent a reminder letter with a paper form during first quarter of 2022. This project was implemented to decrease the number of life insurance benefits without a named beneficiary and encourages retirees to update the names of beneficiaries as necessary. This project will reduce the administrative burden of locating missing or deceased beneficiary(ies) which makes it difficult to pay out life insurance benefits in a timely manner.
- Legacy Benefits – Rocky Flats Welfare Benefits Trust
 - Prescription Drug Sidecar Stipend: On September 15, 2021, a total of \$57.7K was reimbursed to 15 participants via their Retiree Reimbursement Arrangement (RRA) account through a Sidecar stipend. Rocky Flats eligible participants covered by Medicare Part D who have surpassed the catastrophic prescription drug out-of-pocket limit in the previous year receive an additional stipend deposited to their RRA. The catastrophic prescription drug limit for calendar year 2020 was \$6,350. This Sidecar stipend is funded with RRA forfeiture amounts resulting from close accounts of deceased or terminated participants.
 - Beneficiary Solicitation Mailing: On September 20, 2021, the Third-Party Administrator, LifeWorks, fulfilled the first communication of the Beneficiary Solicitation project to approximately 2,850 retirees. This first communication, mailed to retiree’s homes, encourages retirees to update their beneficiary(ies) on the Rocky Flats benefits website to reduce cost of processing paper forms. For those retirees who do not update on the website, they will be sent a reminder letter with a paper form during first quarter of 2022. This project was implemented to decrease the number of life insurance benefits without a named beneficiary and encourages retirees to update the names of beneficiaries as necessary. This project will reduce the administrative burden of locating missing or deceased beneficiary(ies) which makes it difficult to pay out life insurance benefits in a timely manner.

- Medical Loss Ratio: On September 21, 2021, the Rocky Flats Board of Trustees voted to use the Medical Loss Ratio refund from UnitedHealthcare (UHC) to reduce the 2022 retiree medical premiums for those retirees/dependents enrolled in the fully insured medical plan through UHC. The Medical Loss Ratio (MLR) refund of \$31,082.66 represents the amount overpaid in 2020 based on the MLR requirement. The Affordable Care Act requires health insurers to spend 85% of premium on medical claims. The 85% threshold was not met due to less utilization of the medical plan due to COVID-19 limitations.
- SMM – Catastrophic Coverage & Dependent Eligibility: On September 22, 2021, the Rocky Flats Board of Trustees voted to approve a SMM which included administrative changes to catastrophic coverage and dependent eligibility effective January 1, 2022. The current benefit plan design allows participants to stop making their required monthly premium payments at any time and automatically enrolls them in the catastrophic coverage plan which is provided at no cost to the participants. Furthermore, the participant remains eligible in the Plan and may choose to re-enroll in an alternative Rocky Flats medical plan at a future date. The administrative change outlined in the SMM will terminate a participant’s eligibility and coverage in the Plan for non-payment. This is consistent with industry standard within the administration of a benefit plan. In addition, the SMM includes an administrative change to dependent eligibility which will no longer allow eligible retirees to add a new spouse or dependent children for any reason following the plan year 2022 Benefits Open Enrollment. Only the spouse and dependent children that are enrolled during the 2022 Benefits Open Enrollment will be eligible for continued coverage. This administrative process change supports the plan design of a “closed” benefit plan.
- SMM – Medicare Part B Reimbursement: On September 22, 2021, the Rocky Flats Board of Trustees voted to approve a SMM for Medicare Part B reimbursements effective January 1, 2022. Eligible participants are reimbursed quarterly for Medicare Part B premiums when required documentation is received by the Rocky Flats Benefits Center and can include reimbursement for prior years. The administrative change outlined in the SMM requires that Medicare Part B premium documentation be received by the Benefits Center no later than the 15th of the last quarterly month with no retroactive payments. This administrative change will not only relieve the administrative burden of manually calculating reimbursements for late submissions, but also decreases liability.
- Medicare Part B Reimbursement: On September 30, 2021, Medicare Part B premiums were reimbursed to 1,848 eligible participants with a deposit to their RRA account for a total of \$819.8K in the third quarter, 2021. To be eligible for the reimbursement, the participant must be enrolled in an approved post-age 65 medical plan through an exchange or enrolled in Tricare. In addition, the participant must submit their Medicare Part B statement from Social Security to the Rocky Flats Benefits Center for verification to receive funding each quarter; not to exceed the 2021 standard premium amount of

\$148.50 a month. Medicare Part B reimbursements are prorated for Medicare age-ins and deaths.

- Extension of Service Provider Contracts: Mercer provides consulting and actuarial services and LifeWorks provides Third-Party Administrator services to the Rocky Flats Welfare Benefits Plan. These two service provider contracts were novated from WRPS on January 1, 2021, with the transition to HMIS and were set to expire on September 30, 2021. These two contracts were extended to December 31, 2021, to provide adequate time to review the existing terms of the agreements and establish new contracts with the Rocky Flats Welfare Benefits Trust for continued service.
- Workforce Solutions Rewards and Support
 - Annual Salary Planning: Workforce Solutions finalized the 2021 salary planning activities for the non-represented workforce. Actions included comprehensive reviews of growth promotions that were recommended by management and partnering with the Information Technology group to program and implement the data upload.
 - Hanford Employee Welfare Trust (HEWT): HEWT held their Audit Exit meeting with Moss Adams. There were no findings identified in the audit. The final disposition will be reported out to the HEWT on October 29, 2021, at the next quarterly meeting.
 - Washington State Long-Term Care Program (WACares): HMIS has rolled out a communication and tracking program for the implementation of the WACares. The tax update for the HRIS is planned to be released in December. A tracking system has been developed to utilize until this program becomes available. Each contractor will be responsible to track and submit their employee exemptions to payroll. HMIS has led the collaboration with the Other Hanford Contractors on messaging, tracking, and submitting exemptions to payroll.
 - COVID Benefit Impacts: COVID Short-Term Disability claims required HMIS as administrator of the benefits programs to work with our third-party vendor, New York Life, to create business processes which would allow for claims to be submitted on behalf of incapacitated individuals. This improved process is working well and has resulted in 11 claims receiving necessary approvals which would have otherwise been delayed until the employee was able to complete the paperwork. Covid has also created additional work in areas of beneficiary designation forms, both with explanations and recording, and life insurance.
 - Justification for Advanced Understanding of Costs: Workforce Solutions worked with Prime Contracts to provide clarification to the following outstanding Advanced Understanding of Costs items: Recruitment and Retention Incentives, ensuring the program continues to meet requirements, Road Time (R), providing clarification language to align with the new DOE requirement for Telework, and the Income Protection Program for Hanford Guards.

- Annual Enrollment: Workforce Solutions partnered with the benefit plan brokers and vendors to develop the 2022 Annual Enrollment materials for distribution to all plan participants. Annual Enrollment will be open for elections from October 18, 2021 to November 4, 2021. Due to COVID, Workforce Solutions is not hosting an in-person vendor fair, instead, we have for a second year launched a “Brainshark” video that will walk employees through their options in addition to having the benefits team available to answer any questions.
- Hanford Site Retirements: The month of September, Workforce Solutions continued to experience above average requests for pension estimates and meeting requests to complete pension paperwork. The monthly average prior to transition was approximately 20-25 requests. Since February, the average number of monthly retirements has been closer to 35. September ended with nearly 60 retirements processed and trend continues to increase. Contingency planning for additional resources to assist in this area are being developed.
- Communications Highlighting Employee Resources: Workforce Solutions partnered with our benefit plan brokers to develop “One Sheet” flyers for employees and their families to become familiar with available resources, including our Employee Assistance Programs, HPMC and online options that may be free or low cost in addition to the Healthcare programs. The goal was to identify potential resources for those dealing with mental health, substance, financial, and other stressful issues. This is an important area of focus for the workforce as the mid-year plan reviews for both the HEWT and the Single Employer Plan highlighted nearly double year-over-year plan utilization in this area.
- Summary Annual Reports: On September 16, 2021, HEWT and the Single Employer Plan Summary Annual Reports were distributed via the United States Postal Service, and email for those who elected electronic delivery for their documents.

Engineering, Technology & Projects:

- Engineering
 - Kicked off the formal design review for Project L-907, Fleet Services Complex.
 - Received DOE approval of submitted Codes of Record for Projects L-940 and L-941. Soon after approval, the functional requirements and design criteria documents for both projects were issued (HNF-FRDC-66711 and HNF-FRDC-66712).
 - Submitted Code of Record for Project L-910, 273E Renovation & HVAC, to DOE for approval.
 - DOE Electrical Safety raised a concern about the NFPA 70E Requirement for EEWPs for work with an increased likelihood of inducing an arc flash - specifically operation of non-maintained breakers. HMIS Engineering presented the issue to the DOE-0359 electrical safety committee and drafted a management directive to require EEWPs for breaker

operation greater than 25 cal/cm² (NFPA 70E Category 3 PPE threshold) until the issue is resolved by the committee. DOE documented the issued in DOE-ASMT-2021-5236.

- Technology & Enterprise Architecture
 - Hanford IT Standards and Policies
 - Developed, proposed, and assessed impact to five new IT Standards
 - Modified and updated four existing IT Standards
 - Facilitated, processed, and received DOE Headquarter approval for two Federal Information Technology Acquisition Reform Act requests. These included requests for HLMI on a new Laboratory Information Management System and HMIS for a new Electronic Health Records system.
 - Developed and drafted a subcontract evaluation process for the IMS and T&EA subcontracts that will provide periodical performance reports for both subcontractor and HMIS oversight. Performance evaluations are targeted for FY2022 and currently set for mid-year and fiscal year end. This feedback provides continuous improvement opportunities for work execution and management.
 - Abacus (Enterprise Architect repository) support and Gartner IT research support contracts have been established for FY2022. Gartner support was reduced to reflect budget constraints and utilization. Abacus support was increased to address training requirements and addition support for system interfacing.
 - Facilitated and participated in Buyer Technical Representative workshops for the IT subcontracts and workshops with North Wind subcontractor. The workshops were conducted to identify planning elements for FY2022, including operation, maintenance, and management service gaps. Information obtained will be used to better target FY2022 investments.
 - Submitted September IT Capital Planning & Investment Control data within the eFolio system per the contract deliverable CD0066.
 - Submitted on time three data calls with same day turnaround:
 - SOPTSK0010819 – CISA DATA CALL – Zoho ManageEngine – EM,
 - SOPTSK0010992 – CISA DATA CALL – Open Management Infrastructure and Update to
 - SOPTSK0010137 – Emergency Directive 21-04 – EM
 - Collected IT projected cost information from OHCs and worked with project controls to complete the Draft FY 2023 Agency IT Portfolio for all of Hanford’s IT portfolio and submitted to EM HQ on schedule.
 - During a brainstorming session (9/21/2021) with the EM Cyber Security Working Group the HMIS Cyber Security Solutions Architect was called upon by Amy Hamilton of DOE HQ to provide a demonstration of Hanford’s ICS Network and its tools to demonstrate how Hanford’s solution will provide asset inventory. HMIS’s solution will allow

federation of information up to DOE HQ to reduce data calls for sites by providing a copy of data needed by HQ. This opportunity has demonstrated that Hanford is looked to as a leader in EM for Cyber security.

- Projects
 - See Section B

2.0 MAJOR ISSUES

Nothing to report.

3.0 PROGRAM RISK ASSESSMENT

The HMIS program risk assessments are outlined in the following subsections. Red font reflects changes since last month.

3.1 HMIS I&SS Mission Key Risks

- **BCRs:** No BCRs were processed in September that impact the project’s MR or SM profile.
- **Risk Analysis:** No risk analysis conducted in September.
- **Current Risk Posture:**

Table A-3. I&SS Risk Posture

Period	Realized	Key	Opened	Closed	Unassigned	Total Risks
August	0	7	0	0	0	32
September	0	7	0	0	0	32

Table A-4. I&SS Key Risks

Unmitigated Risk Impacts	Assessment		Comments															
	Month	Trend																
EU- Mission Risks																		
Explanation of major changes to the program monthly stoplight chart: No major changes to the Stoplight Charts in September .																		
Realized Risks (Risks that are currently impacting project cost/schedule)																		
No Realized Risks in September .																		
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed.)																		
No Critical Risks in September .																		
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)																		
EU-0003-T: Substation Transformer Failure Legacy Risk #: 1200 & PWEU-0003-T	If any of the four substation transformers fails, OHC operations may be impacted, and additional costs may be incurred. Risk Handling Strategy: Mitigate Probability: Unlikely (10%) Worst Case Impacts: \$6,000K, 0 Days		Risk Trigger: Degradation of transformers lead to transformer failure. <table border="1"> <thead> <tr> <th>Mitigation Action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Repair 451B transformer.</td> <td>10/2021</td> <td>0</td> </tr> <tr> <td>Plan and perform preventative and corrective maintenance</td> <td>Ongoing</td> <td>N/A</td> </tr> <tr> <td>Replace transformers when warranted.</td> <td>Ongoing</td> <td>N/A</td> </tr> <tr> <td>Conduct system prioritization evaluation</td> <td>TBD</td> <td>0</td> </tr> </tbody> </table> Mitigation Action Assessment: No major changes in the month of September . A9 substation continues to be monitored with no indications of potential failure. 451B Transformer LTC leak has been stopped, re-drafting statement of work for repair effort. In September, 451B subcontract is in place. Project related questions have delayed original repair date from September and is forecasted for October 25 th , 2021.	Mitigation Action(s)	FC Date	%	Repair 451B transformer.	10/2021	0	Plan and perform preventative and corrective maintenance	Ongoing	N/A	Replace transformers when warranted.	Ongoing	N/A	Conduct system prioritization evaluation	TBD	0
Mitigation Action(s)	FC Date	%																
Repair 451B transformer.	10/2021	0																
Plan and perform preventative and corrective maintenance	Ongoing	N/A																
Replace transformers when warranted.	Ongoing	N/A																
Conduct system prioritization evaluation	TBD	0																

SECTION A

Unmitigated Risk Impacts	Assessment		Comments						
	Month	Trend							
WSU- Mission Risks									
Explanation of major changes to the program monthly stoplight chart: No major changes in September .									
Realized Risks (Risks that are currently impacting project cost/schedule)									
No Realized Risks in September .									
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed.)									
WSU-0006-T: 283W Water Treatment Facility Water Production limitation Legacy Risk #: 1526 & PWWSU-0006-T	If the 283W Water Treatment Facility cannot produce enough potable water for the Hanford Site because of the 1,500gpm permit limitations, then potable water production demands will not be met, causing impacts to cleanup schedules or shutdown of certain Hanford site operations. Risk Handling Strategy: Avoid Probability: Likely (80%) Worst Case Impacts: \$0K, 0 Days	 	Risk Trigger: 283W WTF cannot produce enough potable water for the Hanford Site. <table border="1" style="width: 100%;"> <thead> <tr> <th>Mitigation Action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Completion of L-897 200 Area Water Treatment Plant (DFLAW Essential)</td> <td>FY2022</td> <td>30</td> </tr> </tbody> </table> Mitigation Action Assessment: Project L-897, Central Plateau Water Treatment Plant (DFLAW Essential), is scheduled for completion FY2022. This will reduce the likelihood of not being able to produce enough potable water for the Hanford Site. If DFLAW commissioning activities commence prior to the commissioning of the new CPWTF, then operational controls of the distribution of sanitary water from the existing 283W clearwells will be put into place, including: <ul style="list-style-type: none"> Limiting flow out of the clearwell to 1,200gpm Utilizing available storage reservoirs at 283E, 283EA and 283WA to supplement sanitary water peak demands Administratively control or limit non-essential potable water demands such as irrigation water supply These activities are discussed in HNF-64684, 200W Sanitary Water System Capacity Evaluation.	Mitigation Action(s)	FC Date	%	Completion of L-897 200 Area Water Treatment Plant (DFLAW Essential)	FY2022	30
Mitigation Action(s)	FC Date	%							
Completion of L-897 200 Area Water Treatment Plant (DFLAW Essential)	FY2022	30							
WSU-0019-T: WTP 12" Potable Water Line Failure. Legacy Risk #: 3083 & PWWSU-0019-T	If the 12" potable water line feeding the southern end of the waste treatment plant (WTP) complex fails, then potable water supply supporting Waste Treatment Plant operations will be impacted. Risk Handling Strategy: Avoid Probability: Unlikely (15%) Worst Case Impacts: \$3,500K, 5 Days	 	Risk Trigger: Failure of 12" potable water line feeding the southern end of WTP. <table border="1" style="width: 100%;"> <thead> <tr> <th>Mitigation Action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Project L-839, 12in Potable Water Loop-line, avoids this risk.</td> <td>FY23</td> <td>30</td> </tr> </tbody> </table> Mitigation Action Assessment: No major changes in the month of September. Project L-839 will install a redundant potable water line for a reliable supply of potable water to the WTP. Interim Mitigation Steps: Water Utilities is prepared to perform Expedited Repair Maintenance Activity (ERMA) that would be initiated online breaks, allowing for repairs to be made within 3-5 days and reducing the length of impact that would otherwise be realized.	Mitigation Action(s)	FC Date	%	Project L-839, 12in Potable Water Loop-line, avoids this risk.	FY23	30
Mitigation Action(s)	FC Date	%							
Project L-839, 12in Potable Water Loop-line, avoids this risk.	FY23	30							

SECTION A

	Unmitigated Risk Impacts	Assessment		Comments									
		Month	Trend										
WSU- Mission Risks													
<p>WSU-0020-T: TEDF Failure impacts discharge of waste water</p> <p>Legacy Risk #: 3175 & PWWSU-0020-T</p>	<p>If HMIS Water Utilities (WU) is unable to discharge wastewater from the 283W Water Treatment Facility (WTF) or new Central Plateau Water Treatment Facility (CPWTF) due to an extended failure of the TEDF discharge line or lift station, then the ability to produce potable water for the Hanford Site will be impacted, causing potential site wide water outages, impacting cleanup operations and fire suppression requirements for the Hanford Site.</p> <p>Risk Handling Strategy: Accept</p> <p>Probability: Somewhat Likely (50%) Worst Case Impacts: \$15,000K, 0 Days</p>	●	↔	<p>Risk Trigger: WU is unable to discharge wastewater due to an extended failure of TEDF.</p> <table border="1"> <thead> <tr> <th>Mitigation Action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Ongoing communication with WRPS during their performance of emergency repairs to the lift station</td> <td>Ongoing</td> <td>NA</td> </tr> <tr> <td>Use 3,000 gallon water trucks to haul wastewater to TEDF</td> <td>As Needed</td> <td>NA</td> </tr> </tbody> </table> <p>Mitigation Action Assessment: No major changes in the month of September. Rely on WRPS to perform emergency repairs of the lift station in the event of failure. Ongoing discussions with DOE-RL to implement an emergency provision that includes using 3,000 gallon water trucks to haul wastewater to TEDF. The current analysis recognizes there are up to five days of waste water holding capabilities before needing to use water trucks or find an alternative means of wastewater diversion.</p>	Mitigation Action(s)	FC Date	%	Ongoing communication with WRPS during their performance of emergency repairs to the lift station	Ongoing	NA	Use 3,000 gallon water trucks to haul wastewater to TEDF	As Needed	NA
Mitigation Action(s)	FC Date	%											
Ongoing communication with WRPS during their performance of emergency repairs to the lift station	Ongoing	NA											
Use 3,000 gallon water trucks to haul wastewater to TEDF	As Needed	NA											
<p>WSU-0021-T: Water Line Failure under TSCR Pad</p> <p>Legacy Risk #: 3176 & PWWSU-0021-T</p>	<p>If the 12" raw water line running under the proposed Tank Side Cesium Removal (TSCR) pad fails due to increased heavy traffic, then looped raw water supply to the 200E tank farms (TF) and fire suppression systems will be impacted for extended periods of time, causing operations to enter into Limited Condition of Operations (LCOs).</p> <p>Risk Handling Strategy: Avoid</p> <p>Probability: Likely (75%) Worst Case Impacts: \$750K, 0 Days</p>	●	↑	<p>Risk Trigger: The raw water line located under the proposed TSCR pad fails due to increased heavy traffic.</p> <table border="1"> <thead> <tr> <th>Mitigation Action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Install a new raw water line routed around the proposed location of TSCR and associated waste transfer lines or paths of heavy equipment travel. (L-928)</td> <td>FY2023</td> <td>0</td> </tr> <tr> <td>Perform ERMA corrective maintenance waterline repairs while management exploits scheduling/personnel efficiencies where able.</td> <td>Ongoing</td> <td>NA</td> </tr> </tbody> </table> <p>Mitigation Action Assessment: No major changes in the month of September. TSCR pad operational date is forecasted for December 2021 increasing the likelihood of a water line failure.</p>	Mitigation Action(s)	FC Date	%	Install a new raw water line routed around the proposed location of TSCR and associated waste transfer lines or paths of heavy equipment travel. (L-928)	FY2023	0	Perform ERMA corrective maintenance waterline repairs while management exploits scheduling/personnel efficiencies where able.	Ongoing	NA
Mitigation Action(s)	FC Date	%											
Install a new raw water line routed around the proposed location of TSCR and associated waste transfer lines or paths of heavy equipment travel. (L-928)	FY2023	0											
Perform ERMA corrective maintenance waterline repairs while management exploits scheduling/personnel efficiencies where able.	Ongoing	NA											
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)													
<p>WSU-0016-T: PFP Contamination Reaches 283W Water Treatment Facility</p> <p>Legacy Risk #: 1955 & PWWSU-0016-T</p>	<p>If Plutonium Finishing Plant (PFP) radiological contamination reaches the 283W Water Treatment Facility, water purveyance abilities to 200W Area will be impacted resulting in sanitary and raw water supply shutdowns to 200W and 200E Area buildings.</p> <p>Risk Handling Strategy: Accept</p> <p>Probability: Unlikely (20%) Worst Case Impacts: 0 days, \$15.0M</p>	●	↔	<p>Risk Trigger: During PFP demolition, PFP radiological contamination reaches the 283W WTF prompting water supply shutdown to 200W and 200E areas.</p> <table border="1"> <thead> <tr> <th>Mitigation Action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>No mitigation actions planned at this time.</td> <td>N/A</td> <td>N/A</td> </tr> </tbody> </table> <p>Mitigation Action Assessment: No major changes in the month of September. No mitigation actions are currently identified. Risk will continue to be monitored throughout the remainder of the PFP mission. CPCCO is performing D&D activity for PFP project with a forecasted completion by CY2021.</p>	Mitigation Action(s)	FC Date	%	No mitigation actions planned at this time.	N/A	N/A			
Mitigation Action(s)	FC Date	%											
No mitigation actions planned at this time.	N/A	N/A											

SECTION A

	Unmitigated Risk Impacts	Assessment		Comments											
		Month	Trend												
MMP- Mission Risks															
Explanation of major changes to the program monthly stoplight chart: No major changes in September .															
Realized Risks (Risks that are currently impacting project cost/schedule)															
No Realized Risks in September .															
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed.)															
MMP-0001-T: Roof and HVAC Operating in Degraded State Legacy Risk #: 2073 & RES- 0002-T	If sitewide roof and HVAC units continue to operate in a state of degradation because they are currently operating past their 20-year design life, then further deterioration will continue at an increasing rate resulting in impacts to mission critical support functions and poor occupant working conditions. Risk Handling Strategy: Avoid Probability: Somewhat Likely (70%) Worst Case Impacts: \$15,000K, 0 days			Risk Trigger: HVAC units fail before being replaced.											
				<table border="1"> <thead> <tr> <th>Mitigation Action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Replace end of design life roof. Project L-796</td> <td>FY2022</td> <td>40</td> </tr> <tr> <td>Replace end of design life roof. Project L-914</td> <td>FY2023</td> <td>0</td> </tr> <tr> <td>Replace end of design life HVAC units. Project L-915</td> <td>FY2023</td> <td>0</td> </tr> <tr> <td>Perform routine inspections and maintenance, including minor repairs as needed and as able.</td> <td>Ongoing</td> <td>NA</td> </tr> </tbody> </table>	Mitigation Action(s)	FC Date	%	Replace end of design life roof. Project L-796	FY2022	40	Replace end of design life roof. Project L-914	FY2023	0	Replace end of design life HVAC units. Project L-915	FY2023
Mitigation Action(s)	FC Date	%													
Replace end of design life roof. Project L-796	FY2022	40													
Replace end of design life roof. Project L-914	FY2023	0													
Replace end of design life HVAC units. Project L-915	FY2023	0													
Perform routine inspections and maintenance, including minor repairs as needed and as able.	Ongoing	NA													
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)															
No High Risks in September .															

3.2 HMIS I&IS Mission Key Risks

- **BCRs:** No BCRs were processed in September that impact the project’s MR or SM profile.
- **Risk Analysis:** No risk analysis conducted in September.
- **Current Risk Posture:**

Table A-5. I&IS Risk Posture

Period	Realized	Key	Opened	Closed	Unassigned	Total Risks
August	0	3	0	0	0	13
September	0	3	0	0	0	13

Table A-6. I&IS Key Risks

Unmitigated Risk Impacts	Assessment		Comments															
	Month	Trend																
I&IS- Mission Risks																		
Explanation of major changes to the program monthly stoplight chart: No major changes to the Stoplight Charts in September .																		
Realized Risks (Risks that are currently impacting project cost/schedule)																		
No Realized Risks in September .																		
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed.)																		
FLT-0007-O: New Fleet Facility risk avoidance Legacy Risk #: 1747 and SSIM-0013--O	If HMIS is budgeted and approved to build a new Fleet facility, then risks associated with maintaining and operating the current 2711E Fleet Equipment Maintenance Shop can be closed resulting in greatly reduced risk exposure and higher level of work efficiency Risk Handling Strategy: Exploit Probability: Likely (75%) Worst Case Impacts: \$0, 0 days		Risk Trigger: A new fleet shop complex is designed and constructed. Operations at the new fleet shop complex will mitigate four existing risks. <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Mitigation Action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Complete a Fleet Services Facility Master Plan to determine the long term goal of the fleet program</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Identify a facility design that accommodates all electrical and safety needs for long-term fleet service’s needs (L-907).</td> <td>FY2022</td> <td>0</td> </tr> <tr> <td>Complete project L-908, Auto/Truck Shop and Storage, based on L-907 design.</td> <td>FY2024</td> <td>0</td> </tr> <tr> <td>Complete project L-909, Heavy Equipment Shop and Storage based on L-907 design.</td> <td>FY2025</td> <td>0</td> </tr> </tbody> </table> <p>Mitigation Action Assessment: No major changes in the month of September. BCR VMISA-20-027 was approved on 24 February 2020 for \$24.1K towards conceptual design on L-907 within the PMB. Project L-907 will design the fleet shop complex and current projects L-908 & L-909 will see the construction of the fleet shop complex, exploiting this opportunity. Design contract awarded 1/25/2021. Fleet operations has developed a higher-efficiency layout. Implementation of this layout results in additional work for A/E, so some schedule slippage is being realized. 30% design package is due 9/13/2021. 30% design package due date revised to align with A/E deliverable schedule.</p>	Mitigation Action(s)	FC Date	%	Complete a Fleet Services Facility Master Plan to determine the long term goal of the fleet program	Complete	100	Identify a facility design that accommodates all electrical and safety needs for long-term fleet service’s needs (L-907).	FY2022	0	Complete project L-908, Auto/Truck Shop and Storage, based on L-907 design.	FY2024	0	Complete project L-909, Heavy Equipment Shop and Storage based on L-907 design.	FY2025	0
Mitigation Action(s)	FC Date	%																
Complete a Fleet Services Facility Master Plan to determine the long term goal of the fleet program	Complete	100																
Identify a facility design that accommodates all electrical and safety needs for long-term fleet service’s needs (L-907).	FY2022	0																
Complete project L-908, Auto/Truck Shop and Storage, based on L-907 design.	FY2024	0																
Complete project L-909, Heavy Equipment Shop and Storage based on L-907 design.	FY2025	0																

Unmitigated Risk Impacts	Assessment		Comments																		
	Month	Trend																			
I&IS- Mission Risks																					
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)																					
<p>FLT-0006-T: Leak detection failure at fuel station leads to environmental impacts.</p> <p>Legacy Risk #: 1783 & SSIM-0008-T</p>	<p>If leak detection equipment is no longer serviceable due to system degradation, then petroleum, oil, and lubricant (POL) leaks into the soil could occur without HMIS knowledge potentially impacting ground soil and surrounding environment.</p> <p>Risk Handling Strategy: Avoid</p> <p>Probability: Somewhat Likely (33%)</p> <p>Worst Case Impacts: \$70,000, 0 days</p>	 	<p>Risk Trigger: Leak detection equipment fails from age, resulting in leaks of oil and lubricant (POL) into the soil.</p> <table border="1" style="width: 100%;"> <thead> <tr> <th>Mitigation Action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Replace fuel station with project L-923, Replace 200E Area Fuel Station.</td> <td>FY2027</td> <td>0</td> </tr> </tbody> </table> <p>Mitigation Action Assessment: No major changes in the month of September. Mitigation action in place to avoid the leak detection equipment failure risk by completing reliability project L-923, Replace 200E Area Fuel Station. L-923 project planning started August 2021. The L-923 project forecast completion date will be revised after the schedule is risk informed.</p>	Mitigation Action(s)	FC Date	%	Replace fuel station with project L-923, Replace 200E Area Fuel Station.	FY2027	0												
Mitigation Action(s)	FC Date	%																			
Replace fuel station with project L-923, Replace 200E Area Fuel Station.	FY2027	0																			
<p>RDS-0002-T: 2S and 11A Risk of Failure</p> <p>Legacy Risk #: 1832 & PWRDS-0002-T</p>	<p>If routes 2S and 11A remain at risk of failure, then there is a potential loss of construction truck ingress/egress and alternate site evacuation route.</p> <p>Risk Handling Strategy: Mitigate</p> <p>Probability: Likely (90%)</p> <p>Worst Case Impacts: \$13,473K, 0 Days</p>	 	<p>Risk Trigger: Age and past weather conditions have led to continued degradation of roads. Continued degradation and future demand future traffic needs not being met would lead to risk being realized.</p> <table border="1" style="width: 100%;"> <thead> <tr> <th>Mitigation Action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Conduct 2S/4S road study.</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Complete Roads Master Plan that provides a basis of when these particular routes are planned to be addressed beyond maintenance activities.</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Increase/accelerate maintenance on roads. (Crack seal, pothole repairs, shoulder repairs, etc.)</td> <td>Ongoing</td> <td>NA</td> </tr> <tr> <td>L-941, Routes 2S and 11A Rebuild – CD-0</td> <td>10/2021</td> <td>30</td> </tr> <tr> <td>L-941, Routes 2S and 11A Rebuild – CD-4</td> <td>FY26</td> <td>0</td> </tr> </tbody> </table> <p>Mitigation Action Assessment: No major changes in the month of September. Road study recommended that the roads should be in 2-lane configuration. Scope statement submitted for Reliability Project – L-941. Road projects will be reprioritized by DOE and identified by Reliability Project Task Order. Roads Master Plan update is now a contract deliverable (CD-0013). CD-0013 was submitted on 5/26/2021, meeting the 6/1/2021 due date. L-941 mission need statement activities started in August 2021. The L-941 CD-4 date will be revised after the schedule is risk informed.</p>	Mitigation Action(s)	FC Date	%	Conduct 2S/4S road study.	Complete	100	Complete Roads Master Plan that provides a basis of when these particular routes are planned to be addressed beyond maintenance activities.	Complete	100	Increase/accelerate maintenance on roads. (Crack seal, pothole repairs, shoulder repairs, etc.)	Ongoing	NA	L-941, Routes 2S and 11A Rebuild – CD-0	10/2021	30	L-941, Routes 2S and 11A Rebuild – CD-4	FY26	0
Mitigation Action(s)	FC Date	%																			
Conduct 2S/4S road study.	Complete	100																			
Complete Roads Master Plan that provides a basis of when these particular routes are planned to be addressed beyond maintenance activities.	Complete	100																			
Increase/accelerate maintenance on roads. (Crack seal, pothole repairs, shoulder repairs, etc.)	Ongoing	NA																			
L-941, Routes 2S and 11A Rebuild – CD-0	10/2021	30																			
L-941, Routes 2S and 11A Rebuild – CD-4	FY26	0																			
Unassigned Risks (Pending ownership of identified risks/opportunities)																					
No Unassigned Risks in September .																					

3.3 HMIS MA Mission Key Risks

- **BCRs:** No BCRs were processed in September that impact the project’s MR or SM profile.
- **Risk Analysis:** No risk analysis conducted in September.
- **Current Risk Posture:**

Table A-7. MA Risk Posture

Period	Realized	Key	Opened	Closed	Unassigned	Total Risks
August	0	1	0	0	1	18
September	0	1	0	0	1	18

Table A-8. MA Key Risks

Unmitigated Risk Impacts	Assessment		Comments						
	Month	Trend							
MA- Mission Risks									
Explanation of major changes to the program monthly stoplight chart: No major changes to the Stoplight Charts in September .									
Realized Risks (Risks that are currently impacting project cost/schedule)									
No Realized Risks in September .									
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed.)									
No Critical Risks in September .									
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)									
MA-0019-T: Building 6266 HVAC failure. Legacy Risk #: 1856 & ESHQ-0019-T	If the 6266 Building HVAC system experiences a complete failure, then HMIS is at risk of operational degradation in providing radiological instrument calibration and dosimetry services to the Hanford site. Risk Handling Strategy: Mitigate Probability: Likely (75%) Worst Case Impacts: \$1,461K, 0 Days		Risk Trigger: The 6266 building is currently running on backup compressor because the primary has failed. Every quarter, an outage of 2-3 days occurs and if lack of resources or parts is encountered and an outage lasted longer than 3 days it would be critical and force a move. <table border="1" style="width: 100%;"> <thead> <tr> <th>Mitigation Action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Process dosimeters at 805 Goethals and PNNL as needed.</td> <td>Ongoing</td> <td>NA</td> </tr> </tbody> </table> Mitigation Action Assessment: No major changes in the month of September . Alternatives analysis conducted; awaiting prospective bids from contractors before project is awarded to replace the HVAC system. Bids are scheduled to be completed by the end of summer 2021 and the project is scheduled for 2022. Some dosimeters could be processed at 805 Goethals and PNNL to provide equipment calibration services, but those alternatives are highly inefficient. As of September 2021, prospective bids have not been received.	Mitigation Action(s)	FC Date	%	Process dosimeters at 805 Goethals and PNNL as needed.	Ongoing	NA
Mitigation Action(s)	FC Date	%							
Process dosimeters at 805 Goethals and PNNL as needed.	Ongoing	NA							
Unassigned Risks (Pending ownership of identified risks/opportunities)									
MA-0005-T: Unreadable Records from Radiological Exposure Legacy Risk #: 1465 & ESHQ-0005-T	If Radiological Exposure records become unreadable, then HMIS would be unable to provide these records in support of EEOICP/FOIA and Privacy Act requests. The maintenance of these records is also a regulatory requirement and the inability to sustain them is a direct breach of a federal requirement. Radiological record retention is a requirement of 10 CFR 830 & 835. HMIS Comment: No major changes in September . Current handling of the records has been reduced to an as needed basis to reduce degradation. Digitization and indexing are not currently included in the HMIS scope and is being performed by ITG directly through DOE. HMIS is not contractually impacted by the penalties under the EEOICPA.								

3.4 HMIS SES Mission Key Risks

- **BCRs:** No BCRs were processed in September that impact the project’s MR or SM profile.
- **Risk Analysis:** No risk analysis conducted in September.
- **Current Risk Posture:**

Table A-9. SES Risk Posture

Period	Realized	Key	Opened	Closed	Unassigned	Total Risks
August	0	6	0	0	1	16
September	0	6	0	0	1	16

Table A-10. SES Key Risks

Unmitigated Risk Impacts	Assessment		Comments												
	Month	Trend													
SES - Mission Risks															
Explanation of major changes to the program monthly stoplight chart: No major changes to the Stoplight Charts in September .															
Realized Risks (Risks that are currently impacting project cost/schedule)															
No Realized Risks in September .															
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed.)															
SSERF-0001-T: Significant wildland fire resulting in increased OT and budget overrun. Legacy Risk #: 746 & ES-0001-T	If a wildland fire starts and grows into a significant fire, Hanford Fire Department (HFD) may need to work significant overtime and expend consumables, resulting in budget overrun. Risk Handling Strategy: Avoid Probability: Somewhat likely (50%) Worst Case Impacts: \$500K, 0 Days		Risk Trigger: Wildland fire resulting in increased overtime and budget overrun. <table border="1"> <thead> <tr> <th>Mitigation Action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Harden firebreaks.</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Add another 3-man team to perform prescribed burns.</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Procure fire protection apparatus on schedule.</td> <td>Ongoing</td> <td>NA</td> </tr> </tbody> </table> Mitigation Action Assessment: Fire season officially runs May through September each year, though can fluctuate a few weeks earlier or later from year to year. Through mutual aid calls, Hanford fire will assist in fire calls in the surrounding communities adjacent to the Hanford site to proactively manage wildland fires before they get to the Hanford site. On-site firebreaks have been hardened and a dedicated team performs prescribed burns.	Mitigation Action(s)	FC Date	%	Harden firebreaks.	Complete	100	Add another 3-man team to perform prescribed burns.	Complete	100	Procure fire protection apparatus on schedule.	Ongoing	NA
Mitigation Action(s)	FC Date	%													
Harden firebreaks.	Complete	100													
Add another 3-man team to perform prescribed burns.	Complete	100													
Procure fire protection apparatus on schedule.	Ongoing	NA													
SSERF-0002-T: Airborne contamination may be spread if a wildland fire spreads to contaminated vegetation. Legacy Risk #: 1368 & ES-0002-T	If a wildland fire starts and Hanford Fire Department (HFD) is unable to stop the fire from spreading to an area with contaminated vegetation, then contamination may become airborne creating a health concern and environmental damages. Risk Handling Strategy: Accept Probability: Unlikely (20%) Worst Case Impacts: \$0, 0 Days		Risk Trigger: Airborne contamination is spread when a wildland fire spreads to contaminated vegetation. <table border="1"> <thead> <tr> <th>Mitigation Action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Harden firebreaks.</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Add another 3-man team to perform prescribed burns.</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Procure fire protection apparatus on schedule.</td> <td>Ongoing</td> <td>NA</td> </tr> </tbody> </table> Mitigation Action Assessment: Fire season officially runs May through September each year, though can fluctuate a few weeks earlier or later from year to year. Through mutual aid calls, Hanford fire will assist in fire calls in the surrounding communities adjacent to the Hanford site to proactively manage wildland fires before they get to the Hanford Site. On-site firebreaks have been hardened and a dedicated team performs prescribed burns.	Mitigation Action(s)	FC Date	%	Harden firebreaks.	Complete	100	Add another 3-man team to perform prescribed burns.	Complete	100	Procure fire protection apparatus on schedule.	Ongoing	NA
Mitigation Action(s)	FC Date	%													
Harden firebreaks.	Complete	100													
Add another 3-man team to perform prescribed burns.	Complete	100													
Procure fire protection apparatus on schedule.	Ongoing	NA													

SECTION A

Unmitigated Risk Impacts	Assessment		Comments									
	Month	Trend										
SES - Mission Risks												
<p>SES-0012-T: Fire, Medical, Security, and Emergency communication could fail if emergency radios and supporting site infrastructure fail.</p> <p>Legacy Risk #: 1959 & ES-0012-T</p>	<p>If Emergency Radios and supporting site infrastructures fail because they're outdated and no longer supported for repair by the manufacturer, then Fire, Medical, Security, and Emergency communication will be impacted, delaying their response to the Hanford Site.</p> <p>Risk Handling Strategy: Avoid</p> <p>Probability: Somewhat likely (40%)</p> <p>Worst Case Impacts: \$0, 0 Days</p>		<p>Risk Trigger: Hardware/software that is no longer supported fails and cannot be repaired by the manufacturer.</p> <table border="1"> <thead> <tr> <th>Mitigation Action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Replace hand-held radios for Fire, Patrol, and Emergency Management (Project L919-7040).</td> <td>03/2022</td> <td>0</td> </tr> <tr> <td>Replace repeaters and site infrastructure that supports the Hanford Site emergency radio system (Project L919-7140).</td> <td>04/2022</td> <td>0</td> </tr> </tbody> </table> <p>Mitigation Action Assessment: No major changes in the month of September. Project L-919 will avoid this risk. Questions from contracts regarding the proposal prompted a request for a revised proposal answering those questions. Award was expected in the June 2020 reporting period. The questions raised during the review ultimately led to the decision to not award the contract under the current requisition. The vendor, Wildflower, will not be used for the procurement unless pricing for labor and services can be verified. The SOW was split in two phases: one for design/configuration services & one for installation of radios and radio system core (construction contract). The services procurement contract was awarded 9/30/2020. Construction contract SOW was approved and posted. The award date of the construction contract has been delayed for several months for many reasons, including construction contract determination, approvals for job walk and HMIS template transition. Upon detailed review of the SOW, it was determined that design was not to the point that would support a Firm Fixed Price bid and the RFP was canceled. RFP will be re-issued following further development of the design and Bill of Materials. Delays awarding the installation contract and the materials procurement continue to push back activity L919-7140 to install repeaters and site infrastructure.</p>	Mitigation Action(s)	FC Date	%	Replace hand-held radios for Fire, Patrol, and Emergency Management (Project L919-7040).	03/2022	0	Replace repeaters and site infrastructure that supports the Hanford Site emergency radio system (Project L919-7140).	04/2022	0
Mitigation Action(s)	FC Date	%										
Replace hand-held radios for Fire, Patrol, and Emergency Management (Project L919-7040).	03/2022	0										
Replace repeaters and site infrastructure that supports the Hanford Site emergency radio system (Project L919-7140).	04/2022	0										
<p>SESHFES-0011-T: HFD responses into PFP's RBA may result in contaminated equipment and apparatus.</p> <p>Legacy Risk #: 1972 & ES-0014-T</p>	<p>If there is a Hanford Fire Department (HFD) emergency response to the PFP radiological buffer area for a fire, hazmat or medical event there may be a significant potential for HFD material as well as apparatus to be contaminated, thereby losing that equipment and/or apparatus for use elsewhere on the Hanford Site.</p> <p>Risk Handling Strategy: Accept</p> <p>Probability: Unlikely (25%)</p> <p>Worst Case Impacts: \$3,000K, 0 Days</p>		<p>Risk Trigger: Emergency response to PFP radiological buffer area for a fire, hazmat, or medical event.</p> <table border="1"> <thead> <tr> <th>Mitigation Action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Develop strategies to minimize the opportunity to contaminate Emergency Services apparatus and equipment.</td> <td>Complete</td> <td>100</td> </tr> </tbody> </table> <p>Mitigation Action Assessment: No major changes in the month of September. Response strategies have been developed to minimize contamination of Emergency Services apparatus and equipment. As PFP progress continues, the probability of contamination will slowly reduce. This risk will continue to be monitored as PFP progresses through its mission.</p>	Mitigation Action(s)	FC Date	%	Develop strategies to minimize the opportunity to contaminate Emergency Services apparatus and equipment.	Complete	100			
Mitigation Action(s)	FC Date	%										
Develop strategies to minimize the opportunity to contaminate Emergency Services apparatus and equipment.	Complete	100										
<p>SES-0025-T: Response into a radio dead-zone.</p> <p>Legacy Risk #: ES-0025-T</p>	<p>If Emergency Response Personnel cannot communicate with each other or a controlling agency because radio communication is unavailable, then response into or operating in an unknown environment will potentially impact the health and safety of those responders.</p> <p>Risk Handling Strategy: Avoid</p> <p>Probability: Likely (75%)</p> <p>Worst Case Impacts: \$0, 0 Days</p>		<p>Risk Trigger: Emergency response to dead-zone or signal shadow on site where responders lose radio communication.</p> <table border="1"> <thead> <tr> <th>Mitigation Action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Install signal repeaters at identified dead-zones and signal shadows on site.</td> <td>TBD</td> <td>0</td> </tr> </tbody> </table> <p>Mitigation Action Assessment: No major changes in the month of September. Avoid. Install signal repeaters at identified dead-zones and signal shadows within WTP. Signal repeaters would need to be established as permanent equipment that is reliable in all-weather environments and available 24/7. Signal repeaters must be compatible with existing and anticipated equipment. Repeaters have been installed in WTP facilities. However, the repeaters are designed for the new radio system being installed by L-919. Repeaters are being tested to determine if they will operate with the older outdated system until the new L-919 system is operational.</p>	Mitigation Action(s)	FC Date	%	Install signal repeaters at identified dead-zones and signal shadows on site.	TBD	0			
Mitigation Action(s)	FC Date	%										
Install signal repeaters at identified dead-zones and signal shadows on site.	TBD	0										
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)												

SECTION A

	Unmitigated Risk Impacts	Assessment		Comments												
		Month	Trend													
SES - Mission Risks																
<p>SESHFES-0006-T: Catastrophic failure of utilities or structure leaves a Hanford fire station uninhabitable.</p> <p>Legacy Risk #: 1727 & ES-0006-T</p>	<p>If a Hanford fire station (100/200/300 areas) becomes uninhabitable for fire and medical responders due to a catastrophic failure of utilities or structure, then responders and apparatus will need to be relocated increasing response times to incidents.</p> <p>Risk Handling Strategy: Mitigate</p> <p>Probability: Unlikely (20%) Worst Case Impacts: \$20,000K, 0 Days</p>	●	↔	<p>Risk Trigger: Catastrophic failure of utilities or structure of one or more of the three Hanford fire stations.</p> <table border="1" style="width: 100%;"> <thead> <tr> <th>Mitigation Action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Electrical systems have been updated once; backup generators installed to support facilities.</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Supplemental window air conditioners are used.</td> <td>Ongoing</td> <td>NA</td> </tr> <tr> <td>Complete project L-888 400 Area Fire Station</td> <td>05/2023</td> <td>10</td> </tr> </tbody> </table> <p>Mitigation Action Assessment: No major changes in the month of September. Several supplemental window air conditioners were installed at the 300 Area fire station in August. Power fluctuations in the 300 Area fire station required corrective maintenance on internal electrical equipment in August 2020. Environmental considerations are being monitored at all three facilities. All three facilities are manned 24/7 with little modifications past their original design and construction, including 1960's commonly used building materials. Electrical systems have been updated once; backup generators installed to support facilities. Supplemental window air conditioners are used, and one roof was repaired fall 2019. Project L-888, 400 Area Fire Station will partially mitigate this risk. L-888 Construction RFP was put on hold; cannot obtain pricing until DOE-RL issues the L-888 Task Order (RPTO-009) to HMIS. The construction services requisition is placed back to pending. More project specific information can be found within the L-888 stoplight.</p>	Mitigation Action(s)	FC Date	%	Electrical systems have been updated once; backup generators installed to support facilities.	Complete	100	Supplemental window air conditioners are used.	Ongoing	NA	Complete project L-888 400 Area Fire Station	05/2023	10
Mitigation Action(s)	FC Date	%														
Electrical systems have been updated once; backup generators installed to support facilities.	Complete	100														
Supplemental window air conditioners are used.	Ongoing	NA														
Complete project L-888 400 Area Fire Station	05/2023	10														
Unassigned Risks (Pending ownership of identified risks/opportunities)																
<p>SSERF-0013-T: Wildland fires overwhelm HFD capabilities and impact sitewide operations.</p> <p>Legacy Risk #: 1440 & ES-0020-T</p>	<p>If a wildland fire starts and Hanford Fire Department (HFD) is unable to stop the fire from spreading, then site operations will be impacted (results in site closure or restriction of site operations).</p> <p>HMIS Comment: Even with mutual aid agreements in place, the possibility exists of a wildland fire impacting site operations. A sufficiently large fire on the Hanford Site could overwhelm HFD capabilities. The determination to continue site operations would be outside of MSA's ability to manage as DOE makes the determination. Based on these factors, this is a proposed transfer risk.</p>															

3.5 HMIS IMS Mission Key Risks

- **BCRs:** No BCRs were processed in September that impact the project’s MR or SM profile.
- **Risk Analysis:** No risk analysis conducted in September.
- **Current Risk Posture:**

Table A-11. IMS Risk Posture

Period	Realized	Key	Opened	Closed	Unassigned	Total Risks
August	0	9	0	0	0	17
September	0	9	0	0	0	17

Table A-12. IMS Key Risks

Unmitigated Risk Impacts	Assessment		Comments																																	
	Month	Trend																																		
IMS- Mission Risks																																				
Explanation of major changes to the program monthly stoplight chart: No major changes to the Stoplight Charts in September .																																				
Realized Risks (Risks that are currently impacting project cost/schedule)																																				
No Realized Risks in September .																																				
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed.)																																				
IMS-0003-T: Unaware of Network Intrusion Legacy Risk #: 1206 & InfoM-0003-T	If HMIS is unaware of an ongoing intrusion into the network, due to an inability to detect the intruder, then a significant information compromise will occur. Risk Handling Strategy: Mitigate Probability: Somewhat Likely (50%) Worst Case Impacts: \$2.0M, 0 Days		Risk Trigger: During day-to-day operations, an intrusion to the network is experienced. <table border="1"> <thead> <tr> <th>Mitigation Action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Increase staff by 2 FTEs for incident response and analysis.</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Integrate network operations center with engineering and cyber security to form security operations center.</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Improve internal controls, auditing, monitoring, and alerting capabilities.</td> <td>Ongoing</td> <td>NA</td> </tr> <tr> <td>Incident detection and log correlation tools have been improved; activity ongoing.</td> <td>Ongoing</td> <td>NA</td> </tr> <tr> <td>Review incident handling guidelines and implement appropriate recommendations.</td> <td>Ongoing</td> <td>NA</td> </tr> <tr> <td>Develop incident scenarios and perform exercises regularly.</td> <td>Ongoing</td> <td>NA</td> </tr> <tr> <td>Provide additional training on security tools to existing staff.</td> <td>Ongoing</td> <td>NA</td> </tr> <tr> <td>Improved incident response and analysis capability.</td> <td>Ongoing</td> <td>NA</td> </tr> <tr> <td>Use outside resources to expedite improvements.</td> <td>Ongoing</td> <td>NA</td> </tr> <tr> <td>Implement XSOAR Automation Software</td> <td>Complete</td> <td>100</td> </tr> </tbody> </table> Mitigation Action Assessment: No major changes in the month of September . Internal process improvements continue to be conducted to improve monitoring and alerting. In house training is ongoing to improve incident response and user awareness. Administrative controls are employed to prevent introduction of malware into the network.	Mitigation Action(s)	FC Date	%	Increase staff by 2 FTEs for incident response and analysis.	Complete	100	Integrate network operations center with engineering and cyber security to form security operations center.	Complete	100	Improve internal controls, auditing, monitoring, and alerting capabilities.	Ongoing	NA	Incident detection and log correlation tools have been improved; activity ongoing.	Ongoing	NA	Review incident handling guidelines and implement appropriate recommendations.	Ongoing	NA	Develop incident scenarios and perform exercises regularly.	Ongoing	NA	Provide additional training on security tools to existing staff.	Ongoing	NA	Improved incident response and analysis capability.	Ongoing	NA	Use outside resources to expedite improvements.	Ongoing	NA	Implement XSOAR Automation Software	Complete	100
Mitigation Action(s)	FC Date	%																																		
Increase staff by 2 FTEs for incident response and analysis.	Complete	100																																		
Integrate network operations center with engineering and cyber security to form security operations center.	Complete	100																																		
Improve internal controls, auditing, monitoring, and alerting capabilities.	Ongoing	NA																																		
Incident detection and log correlation tools have been improved; activity ongoing.	Ongoing	NA																																		
Review incident handling guidelines and implement appropriate recommendations.	Ongoing	NA																																		
Develop incident scenarios and perform exercises regularly.	Ongoing	NA																																		
Provide additional training on security tools to existing staff.	Ongoing	NA																																		
Improved incident response and analysis capability.	Ongoing	NA																																		
Use outside resources to expedite improvements.	Ongoing	NA																																		
Implement XSOAR Automation Software	Complete	100																																		

SECTION A

	Unmitigated Risk Impacts	Assessment		Comments																														
		Month	Trend																															
IMS- Mission Risks																																		
IMS-0011-T: Industrial Control System Breach. Legacy Risk #: 1753 & InfoM-0011-T	If the Industrial Control System (ICS) is breached due to an external attack or through a user's inadvertent or intentional download of malicious software, then significant and potentially catastrophic (depending on the criticality of the ICS, such TFLAN) system failure or damage may occur, including (1) loss of availability of the ICS / loss of production processes; (2) data leakage / loss of sensitive information; (3) physical damage to facilities or critical infrastructure; (4) interference with safety systems; (5) deterioration of ICS process controls; and (6) loss of life. Risk Handling Strategy: Mitigate Probability: Likely (75%) Worst Case Impacts: \$2.0M, 0 Days			<p>Risk Trigger: During day-to-day operations, an intrusion to the ICS network is experienced.</p> <table border="1"> <thead> <tr> <th>Mitigation Action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Conduct needs assessments for critical ICS.</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Conduct needs assessments for critical ICS.</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Secure access to wired and wireless networks within the ICS environment.</td> <td>CY2021</td> <td>30</td> </tr> <tr> <td>Implement ICS security procedures and governance.</td> <td>CY2021</td> <td>15</td> </tr> <tr> <td>Perform STE on first candidate system.</td> <td>11/2021</td> <td>25</td> </tr> <tr> <td>Implement comprehensive ICS change management.</td> <td>06/2022</td> <td>10</td> </tr> <tr> <td>Disable use of portable media where possible.</td> <td>Ongoing</td> <td>NA</td> </tr> <tr> <td>Implement procedures for approval of all portable devices prior to connection to the ICS network and components.</td> <td>Ongoing</td> <td>NA</td> </tr> <tr> <td>Disallow Internet and remote accesses to the ICS environment.</td> <td>Ongoing</td> <td>NA</td> </tr> </tbody> </table> <p>Mitigation Action Assessment: No major changes in the month of September. In efforts to prevent a breach of the Industrial Control System (ICS), the project has implemented ongoing mitigation actions. These actions are being executed in conjunction with a heightened overall awareness of cyber security practices.</p>	Mitigation Action(s)	FC Date	%	Conduct needs assessments for critical ICS.	Complete	100	Conduct needs assessments for critical ICS.	Complete	100	Secure access to wired and wireless networks within the ICS environment.	CY2021	30	Implement ICS security procedures and governance.	CY2021	15	Perform STE on first candidate system.	11/2021	25	Implement comprehensive ICS change management.	06/2022	10	Disable use of portable media where possible.	Ongoing	NA	Implement procedures for approval of all portable devices prior to connection to the ICS network and components.	Ongoing	NA	Disallow Internet and remote accesses to the ICS environment.	Ongoing	NA
Mitigation Action(s)	FC Date	%																																
Conduct needs assessments for critical ICS.	Complete	100																																
Conduct needs assessments for critical ICS.	Complete	100																																
Secure access to wired and wireless networks within the ICS environment.	CY2021	30																																
Implement ICS security procedures and governance.	CY2021	15																																
Perform STE on first candidate system.	11/2021	25																																
Implement comprehensive ICS change management.	06/2022	10																																
Disable use of portable media where possible.	Ongoing	NA																																
Implement procedures for approval of all portable devices prior to connection to the ICS network and components.	Ongoing	NA																																
Disallow Internet and remote accesses to the ICS environment.	Ongoing	NA																																
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)																																		
IMS-0001-T: Malicious Software Network Breach Legacy Risk #: 1118 & InfoM-0001-T	If the network is breached through a user inadvertently or intentionally downloading malicious software, then a significant outage or information compromise may occur. Risk Handling Strategy: Mitigate Probability: Unlikely (25%) Worst Case Impacts: \$2.0M, 0 Days			<p>Risk Trigger: During day-to-day operations, an intrusion resulting in malicious software downloading to the network is experienced resulting in cost impacts.</p> <table border="1"> <thead> <tr> <th>Mitigation Action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Replaced Palo Alto Traps with Palo Alto Cortex XDR.</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Implement user behavior-based anomaly detection. (Palo Alto Cortex XDR)</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Project H-001, BMS Upgrade Project</td> <td>FY2024</td> <td>5</td> </tr> <tr> <td>Implement application allow listing, allowing execution of only approved applications.</td> <td>DOE Approval Needed</td> <td>0</td> </tr> <tr> <td>Improve internal controls, auditing, monitoring, and alerting capabilities.</td> <td>Ongoing</td> <td>NA</td> </tr> <tr> <td>Provide additional security training for users.</td> <td>Ongoing</td> <td>NA</td> </tr> <tr> <td>Restrict use of removable storage devices.</td> <td>Ongoing</td> <td>NA</td> </tr> </tbody> </table> <p>Mitigation Action Assessment: No major changes in the month of September. Existing administrative processes are employed to manage system changes. In house training and lessons learned are provided to improve secure coding practice. Contracts, MOUs, and ISAs are maintained. Project H-001, BMS Upgrade Project, partially mitigates this risk by reducing the number of systems potentially breached.</p>	Mitigation Action(s)	FC Date	%	Replaced Palo Alto Traps with Palo Alto Cortex XDR.	Complete	100	Implement user behavior-based anomaly detection. (Palo Alto Cortex XDR)	Complete	100	Project H-001, BMS Upgrade Project	FY2024	5	Implement application allow listing, allowing execution of only approved applications.	DOE Approval Needed	0	Improve internal controls, auditing, monitoring, and alerting capabilities.	Ongoing	NA	Provide additional security training for users.	Ongoing	NA	Restrict use of removable storage devices.	Ongoing	NA						
Mitigation Action(s)	FC Date	%																																
Replaced Palo Alto Traps with Palo Alto Cortex XDR.	Complete	100																																
Implement user behavior-based anomaly detection. (Palo Alto Cortex XDR)	Complete	100																																
Project H-001, BMS Upgrade Project	FY2024	5																																
Implement application allow listing, allowing execution of only approved applications.	DOE Approval Needed	0																																
Improve internal controls, auditing, monitoring, and alerting capabilities.	Ongoing	NA																																
Provide additional security training for users.	Ongoing	NA																																
Restrict use of removable storage devices.	Ongoing	NA																																

SECTION A

Unmitigated Risk Impacts	Assessment		Comments																																	
	Month	Trend																																		
IMS- Mission Risks																																				
<p>IMS-0002-T: Application Software Vulnerability Network Breach</p> <p>Legacy Risk #: 1121 & InfoM-0002-T</p>	<p>If the network is breached due to the exploitation of vulnerabilities in installed application software, then a significant outage or information compromise may occur.</p> <p>Risk Handling Strategy: Mitigate</p> <p>Probability: Unlikely (25%)</p> <p>Worst Case Impacts: \$2.0M, 0 Days</p>	 	<p>Risk Trigger: During day-to-day operations, an intrusion due to network vulnerabilities is experienced resulting in cost impacts.</p> <table border="1"> <thead> <tr> <th>Mitigation Action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Increase staff by 2 FTEs for incident response and analysis.</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Integrate network operations center with engineering and cyber security to form security operations center.</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Improve internal controls, auditing, monitoring, and alerting capabilities.</td> <td>Ongoing</td> <td>NA</td> </tr> <tr> <td>Incident detection and log correlation tools have been improved; activity ongoing.</td> <td>Ongoing</td> <td>NA</td> </tr> <tr> <td>Review incident handling guidelines and implement appropriate recommendations.</td> <td>Ongoing</td> <td>NA</td> </tr> <tr> <td>Develop incident scenarios and perform exercises regularly.</td> <td>Ongoing</td> <td>NA</td> </tr> <tr> <td>Provide additional training on security tools to existing staff, ongoing.</td> <td>Ongoing</td> <td>NA</td> </tr> <tr> <td>Use outside resources to expedite improvements.</td> <td>Ongoing</td> <td>NA</td> </tr> <tr> <td>Perform vulnerability management scanning and mitigation.</td> <td>Ongoing</td> <td>NA</td> </tr> <tr> <td>Implement XSOAR Automation Software</td> <td>Complete</td> <td>100</td> </tr> </tbody> </table> <p>Mitigation Action Assessment: No major changes in the month of September. Existing administrative processes are employed to manage system changes. In house training and lessons learned are provided to improve secure coding practice. Contracts, MOUs and ISAs are maintained.</p>	Mitigation Action(s)	FC Date	%	Increase staff by 2 FTEs for incident response and analysis.	Complete	100	Integrate network operations center with engineering and cyber security to form security operations center.	Complete	100	Improve internal controls, auditing, monitoring, and alerting capabilities.	Ongoing	NA	Incident detection and log correlation tools have been improved; activity ongoing.	Ongoing	NA	Review incident handling guidelines and implement appropriate recommendations.	Ongoing	NA	Develop incident scenarios and perform exercises regularly.	Ongoing	NA	Provide additional training on security tools to existing staff, ongoing.	Ongoing	NA	Use outside resources to expedite improvements.	Ongoing	NA	Perform vulnerability management scanning and mitigation.	Ongoing	NA	Implement XSOAR Automation Software	Complete	100
Mitigation Action(s)	FC Date	%																																		
Increase staff by 2 FTEs for incident response and analysis.	Complete	100																																		
Integrate network operations center with engineering and cyber security to form security operations center.	Complete	100																																		
Improve internal controls, auditing, monitoring, and alerting capabilities.	Ongoing	NA																																		
Incident detection and log correlation tools have been improved; activity ongoing.	Ongoing	NA																																		
Review incident handling guidelines and implement appropriate recommendations.	Ongoing	NA																																		
Develop incident scenarios and perform exercises regularly.	Ongoing	NA																																		
Provide additional training on security tools to existing staff, ongoing.	Ongoing	NA																																		
Use outside resources to expedite improvements.	Ongoing	NA																																		
Perform vulnerability management scanning and mitigation.	Ongoing	NA																																		
Implement XSOAR Automation Software	Complete	100																																		
<p>IMS-0005-T: Unintended PII in Software Applications.</p> <p>Legacy Risk #: 1442 & InfoM-0005-T</p>	<p>If unintended access to Personally Identifiable Information (PII) is discovered in software applications or files because information was not originally marked as PII, then corrections must be implemented, resulting in cost impacts.</p> <p>Risk Handling Strategy: Mitigate</p> <p>Probability: Very Likely (95%)</p> <p>Worst Case Impacts: \$150.0K, 0 Days</p>	 	<p>Risk Trigger: During day-to-day operations, PII is discoverable on software or files to those without permission.</p> <table border="1"> <thead> <tr> <th>Mitigation Action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Procure tool and perform searches to proactively detect PII in systems and files. [ROM cost/duration - \$50K/3-6 months] and implement corrections as appropriate at an estimated \$25K per instance. (O365 G5 licenses with DLP will scan anything stored with OneDrive or Outlook.)</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Finalize DLP alerts and response procedures.</td> <td>12/2021</td> <td>18</td> </tr> <tr> <td>Provide additional training to employees for proper handling of PII. OOU training development between Cyber Security and Safeguards and Security.</td> <td>Ongoing</td> <td>NA</td> </tr> <tr> <td>When unintended access to PII is found, evaluate, and implement best method of correction.</td> <td>Ongoing</td> <td>NA</td> </tr> <tr> <td>Compliance office will have two search analysts searching the front end of Integrated Document Management System (IDMS) for unidentified PII. Institute a vault process for controlling PII and other OOU.</td> <td>Ongoing</td> <td>NA</td> </tr> <tr> <td>Develop operational controls and alerts for file control access.</td> <td>Ongoing</td> <td>NA</td> </tr> <tr> <td>Encrypt data at rest. Would require alternatives/business case analysis to determine license fees, communications, switches for throughput, bandwidth, and infrastructure requirements, etc. [Cost/duration - \$TBD/24 months] Not a NIST requirement.</td> <td>TBD</td> <td>0</td> </tr> </tbody> </table> <p>Mitigation Action Assessment: No major changes in the month of September. Perform mitigation in accordance with DOE Privacy Program – CRD O 206.1. The finalization of the DLP alerts and response procedures is forecasted for 12/2021.</p>	Mitigation Action(s)	FC Date	%	Procure tool and perform searches to proactively detect PII in systems and files. [ROM cost/duration - \$50K/3-6 months] and implement corrections as appropriate at an estimated \$25K per instance. (O365 G5 licenses with DLP will scan anything stored with OneDrive or Outlook.)	Complete	100	Finalize DLP alerts and response procedures.	12/2021	18	Provide additional training to employees for proper handling of PII. OOU training development between Cyber Security and Safeguards and Security.	Ongoing	NA	When unintended access to PII is found, evaluate, and implement best method of correction.	Ongoing	NA	Compliance office will have two search analysts searching the front end of Integrated Document Management System (IDMS) for unidentified PII. Institute a vault process for controlling PII and other OOU.	Ongoing	NA	Develop operational controls and alerts for file control access.	Ongoing	NA	Encrypt data at rest. Would require alternatives/business case analysis to determine license fees, communications, switches for throughput, bandwidth, and infrastructure requirements, etc. [Cost/duration - \$TBD/24 months] Not a NIST requirement.	TBD	0									
Mitigation Action(s)	FC Date	%																																		
Procure tool and perform searches to proactively detect PII in systems and files. [ROM cost/duration - \$50K/3-6 months] and implement corrections as appropriate at an estimated \$25K per instance. (O365 G5 licenses with DLP will scan anything stored with OneDrive or Outlook.)	Complete	100																																		
Finalize DLP alerts and response procedures.	12/2021	18																																		
Provide additional training to employees for proper handling of PII. OOU training development between Cyber Security and Safeguards and Security.	Ongoing	NA																																		
When unintended access to PII is found, evaluate, and implement best method of correction.	Ongoing	NA																																		
Compliance office will have two search analysts searching the front end of Integrated Document Management System (IDMS) for unidentified PII. Institute a vault process for controlling PII and other OOU.	Ongoing	NA																																		
Develop operational controls and alerts for file control access.	Ongoing	NA																																		
Encrypt data at rest. Would require alternatives/business case analysis to determine license fees, communications, switches for throughput, bandwidth, and infrastructure requirements, etc. [Cost/duration - \$TBD/24 months] Not a NIST requirement.	TBD	0																																		

SECTION A

Unmitigated Risk Impacts	Assessment		Comments												
	Month	Trend													
IMS- Mission Risks															
<p>ITCS-0007-T: Insufficient Fiber Cable Inventory</p> <p>Legacy Risk #: 1981 & InfoM-0017-T & IMS-0017-T</p>	<p>If on-hand fiber optic cable inventory remains insufficient to maintain, enhance, or expand existing network infrastructure, then MSA could find itself unable to recover from infrastructure damage or provide desired network redundancy resulting in impacts to sitewide operations and future reliability projects.</p> <p>Risk Handling Strategy: Mitigate</p> <p>Probability: Very Likely (95%) Worst Case Impacts: \$4.0M, 0 Days</p>	 	<p>Risk Trigger: Due to additional network demand, and the lack of readily available cable inventory the project experiences a cost impact.</p> <table border="1"> <thead> <tr> <th>Mitigation Action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Perform study to determine feasibility of alternative and/or complimentary risk handling activities. Potential RHPs include, but are not limited to: Wavelength-division multiplexing, Wireless-based support strategy (temp. Wi-flex in areas to supply basic services), Consolidating/reducing legacy systems to reduce strain on current fiber optic capacity, Redistribute/optimize current equipment, Connect fiber from A8 substation to Midway substation (provides redundancy from site to Richland)</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Out-year project L-819 (FY23 – estimated \$5M) exists to address additional connectivity from the Central Plateau area to the Federal Building.</td> <td>FY2023</td> <td>0</td> </tr> </tbody> </table> <p>Mitigation Action Assessment: No major changes in the month of September.</p> <p>Out-year project L-819 is currently planned in efforts to address additional connectivity from the Central Plateau area to the Federal Building in Richland. If any of these proposed actions are proven to be feasible, the formal risk handling plan will be updated to align.</p> <p>The study to determine the feasibility of alternative and/or complimentary risk handling actions was completed. The study concluded that a graded approach with three different optimization techniques to increase the availability of fiber at Hanford. The optimizations and approach include implementing bi-directional (Bi-Di) connections; optimizing the current fiber use through Coarse Wavelength Division Multiplexing (CWDM) and Dense Wavelength Division Multiplexing (DWDM); and installing new fiber and re-routing old fiber to free up existing fiber.</p>	Mitigation Action(s)	FC Date	%	Perform study to determine feasibility of alternative and/or complimentary risk handling activities. Potential RHPs include, but are not limited to: Wavelength-division multiplexing, Wireless-based support strategy (temp. Wi-flex in areas to supply basic services), Consolidating/reducing legacy systems to reduce strain on current fiber optic capacity, Redistribute/optimize current equipment, Connect fiber from A8 substation to Midway substation (provides redundancy from site to Richland)	Complete	100	Out-year project L-819 (FY23 – estimated \$5M) exists to address additional connectivity from the Central Plateau area to the Federal Building.	FY2023	0			
Mitigation Action(s)	FC Date	%													
Perform study to determine feasibility of alternative and/or complimentary risk handling activities. Potential RHPs include, but are not limited to: Wavelength-division multiplexing, Wireless-based support strategy (temp. Wi-flex in areas to supply basic services), Consolidating/reducing legacy systems to reduce strain on current fiber optic capacity, Redistribute/optimize current equipment, Connect fiber from A8 substation to Midway substation (provides redundancy from site to Richland)	Complete	100													
Out-year project L-819 (FY23 – estimated \$5M) exists to address additional connectivity from the Central Plateau area to the Federal Building.	FY2023	0													
<p>ITCSS-0003-T: Emergency siren activation failure.</p> <p>Legacy Risk #: 1684 & InfoM-0009-T & IMS-0009-T</p>	<p>If the signal to Emergency Siren(s) were intercepted, due to the signal being unencrypted or if Emergency Siren(s) activation failed, then false alarms could be sounded resulting in miscommunication or a legitimate emergency response could potentially be delayed. Either scenario would reduce Hanford personnel confidence in the emergency notification system and cause a Stop Work.</p> <p>Risk Handling Strategy: Avoid</p> <p>Probability: Unlikely (10%) Worst Case Impacts: \$0.0, 0 Days</p>	 	<p>Risk Trigger: Emergency Sirens fail during a test or emergency situation.</p> <table border="1"> <thead> <tr> <th>Mitigation Action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Procure and deploy new activation software (CentrAlert).</td> <td>FY23</td> <td>15</td> </tr> <tr> <td>Revise procedures as necessary.</td> <td>FY2023</td> <td>0</td> </tr> </tbody> </table> <p>Mitigation Action Assessment: No major changes in the month of September.</p> <p>Hanford Site Emergency Alerting System (HSEAS) is being implemented in multiple phases. The encryption of the signal is forecasted for implementation in FY23.</p>	Mitigation Action(s)	FC Date	%	Procure and deploy new activation software (CentrAlert).	FY23	15	Revise procedures as necessary.	FY2023	0			
Mitigation Action(s)	FC Date	%													
Procure and deploy new activation software (CentrAlert).	FY23	15													
Revise procedures as necessary.	FY2023	0													
<p>ITCS-0008-T: IM cannot perform Alternative Analysis of Gable Mountain.</p> <p>Legacy Risk #: 2072 & InfoM-0018-T & IMS-0018-T</p>	<p>If Information Management is unable to perform an alternatives analysis for Gable Mountain communications equipment removal because of HMIS's current funding priorities, then HMIS will be unable to holistically scope what would be required to vacate the area resulting in delays or inability to leverage future HMIS projects (reliability or other) in support of the Department of Energy's footprint reduction obligation on Gable Mountain.</p> <p>Risk Handling Strategy: Avoid</p> <p>Probability: Likely (90%) Worst Case Impacts: \$0.0, 0 Days</p>	 	<p>Risk Trigger: No alternatives to Gable Mountain are acquired or found.</p> <table border="1"> <thead> <tr> <th>Mitigation Action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Consolidate equipment and facilities as able, including retiring/moving 623, 630 and 623b HSEAS, WiMax and two-way radio systems. (L-917)</td> <td>FY2024</td> <td>0</td> </tr> <tr> <td>Relocate commercial radio services and DOE systems to alternate locations as possible. (L-917)</td> <td>FY2024</td> <td>0</td> </tr> <tr> <td>Perform alternatives analysis & conceptual design for complete, long-term withdrawal from Gable Mountain. (L-917)</td> <td>FY2024</td> <td>0</td> </tr> </tbody> </table> <p>Mitigation Action Assessment: No major changes in the month of September.</p> <p>The completion of Project L-917 would avoid this risk. The project is currently in the planning phase and has not been funded.</p>	Mitigation Action(s)	FC Date	%	Consolidate equipment and facilities as able, including retiring/moving 623, 630 and 623b HSEAS, WiMax and two-way radio systems. (L-917)	FY2024	0	Relocate commercial radio services and DOE systems to alternate locations as possible. (L-917)	FY2024	0	Perform alternatives analysis & conceptual design for complete, long-term withdrawal from Gable Mountain. (L-917)	FY2024	0
Mitigation Action(s)	FC Date	%													
Consolidate equipment and facilities as able, including retiring/moving 623, 630 and 623b HSEAS, WiMax and two-way radio systems. (L-917)	FY2024	0													
Relocate commercial radio services and DOE systems to alternate locations as possible. (L-917)	FY2024	0													
Perform alternatives analysis & conceptual design for complete, long-term withdrawal from Gable Mountain. (L-917)	FY2024	0													

SECTION A

	Unmitigated Risk Impacts	Assessment		Comments																		
		Month	Trend																			
IMS- Mission Risks																						
IMS-0022-T: Control of Personally Identifiable Information (PII) is lost. Legacy Risk #: 1443 & InfoM-0022-T	If control of Personally Identifiable Information (PII) is lost, due to intentional exploitation of vulnerabilities in existing software applications or legacy files by Site personnel, then corrections must be implemented and notifications sent, resulting in additional costs and damage to HMIS's relationships with the OHCs and DOE. Risk Handling Strategy: Mitigate Probability: Unlikely (20%) Worst Case Impacts: \$27.5M, 0 Days	●	↔	Risk Trigger: Access to PII is discoverable through the exploitation of vulnerabilities in existing software applications or legacy files to those without permission. <table border="1"> <thead> <tr> <th>Mitigation Action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Procure tool and perform searches to proactively detect PII in systems and files. [ROM cost/duration - \$50K/3-6 months] and implement corrections as appropriate at an estimated \$25K per instance. (O365 G5 licenses with DLP will scan anything stored with OneDrive or Outlook.)</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Provide additional training to employees for proper handling of PII. OOU training is being developed between Cyber Security and Safeguards and Security.</td> <td>Ongoing</td> <td>NA</td> </tr> <tr> <td>When unintended access to PII is found, evaluate, and implement best method of correction.</td> <td>Ongoing</td> <td>NA</td> </tr> <tr> <td>Compliance office will have two search analysts searching the front end of Integrated Document Management System (IDMS) for unidentified PII. Institute a vault process for controlling PII and other OOU.</td> <td>Ongoing</td> <td>NA</td> </tr> <tr> <td>Encrypt data at risk rest. Would require alternatives/business case analysis to determine license fees, communications, switches for throughput, bandwidth, and infrastructure requirements, etc. [Cost/duration - \$TBD/24 months] Not a NIST requirement.</td> <td>TBD</td> <td>0</td> </tr> </tbody> </table> Mitigation Action Assessment: No major changes in the month of September . Data at rest encryption is a dormant action because there is no requirement at present. Operational controls and alerts for file control access are an ongoing development.	Mitigation Action(s)	FC Date	%	Procure tool and perform searches to proactively detect PII in systems and files. [ROM cost/duration - \$50K/3-6 months] and implement corrections as appropriate at an estimated \$25K per instance. (O365 G5 licenses with DLP will scan anything stored with OneDrive or Outlook.)	Complete	100	Provide additional training to employees for proper handling of PII. OOU training is being developed between Cyber Security and Safeguards and Security.	Ongoing	NA	When unintended access to PII is found, evaluate, and implement best method of correction.	Ongoing	NA	Compliance office will have two search analysts searching the front end of Integrated Document Management System (IDMS) for unidentified PII. Institute a vault process for controlling PII and other OOU.	Ongoing	NA	Encrypt data at risk rest. Would require alternatives/business case analysis to determine license fees, communications, switches for throughput, bandwidth, and infrastructure requirements, etc. [Cost/duration - \$TBD/24 months] Not a NIST requirement.	TBD	0
Mitigation Action(s)	FC Date	%																				
Procure tool and perform searches to proactively detect PII in systems and files. [ROM cost/duration - \$50K/3-6 months] and implement corrections as appropriate at an estimated \$25K per instance. (O365 G5 licenses with DLP will scan anything stored with OneDrive or Outlook.)	Complete	100																				
Provide additional training to employees for proper handling of PII. OOU training is being developed between Cyber Security and Safeguards and Security.	Ongoing	NA																				
When unintended access to PII is found, evaluate, and implement best method of correction.	Ongoing	NA																				
Compliance office will have two search analysts searching the front end of Integrated Document Management System (IDMS) for unidentified PII. Institute a vault process for controlling PII and other OOU.	Ongoing	NA																				
Encrypt data at risk rest. Would require alternatives/business case analysis to determine license fees, communications, switches for throughput, bandwidth, and infrastructure requirements, etc. [Cost/duration - \$TBD/24 months] Not a NIST requirement.	TBD	0																				
Unassigned Risks (Pending ownership of identified risks/opportunities)																						
No Unassigned Risks in September .																						

3.6 HMIS ET&P Mission Key Risks

- **BCRs:** No BCRs were processed in September that impact the project’s MR or SM profile.
- **Risk Analysis:** No risk analysis conducted in September.
- **Current Risk Posture:**

Table A-13. ET&P Risk Posture

Period	Realized	Key	Opened	Closed	Unassigned	Total Risks
August	0	0	0	0	2	3
September	0	0	0	0	2	3

Table A-14. ET&P Key Risks

Unmitigated Risk Impacts	Assessment		Comments
	Month	Trend	
ET&PM- Mission Risks			
Explanation of major changes to the program monthly spotlight chart: No major changes to the Stoplight Charts in September .			
Realized Risks (Risks that are currently impacting project cost/schedule)			
No Realized Risks in September .			
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed.)			
No Critical Risks in September .			
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)			
No High Risks in September .			
Unassigned Risks (Pending ownership of identified risks/opportunities)			
ETP-0009-T: NEPA screen determines reliability project must have an EA. Legacy Risk #: 1949 & SSIM-0009-T	If a reliability project or projects require an Environment Assessment (EA) because the National Environmental Policy Act (NEPA) screen determines a Categorical Exclusion (CX) does not apply, then additional labor and financial resources will be required for HMIS and DOE oversight of the project(s) impacting project schedule and cost.		
ETP-0010-T: NEPA screen determines a reliability project requires an EIS. Legacy Risk #: 1950 & SSIM-0010-T	If a reliability project or projects require an Environmental Impact Statement (EIS) because the National Environmental Policy Act (NEPA) screen determines a Categorical Exclusion (CX) does not apply, then additional labor and financial resources will be required for HMIS and DOE oversight of the project(s) impacting project schedule and cost.		

4.0 DOE ACTIONS/DECISIONS

Table A-15. DOE Actions/Decisions

Description	HMIS Delivery Date	Expected DOE-RL Due Date
N/A		

Section B



**Monthly Project Performance Report
(CD0162)**

1.0 RELIABILITY PROJECTS EXECUTIVE SUMMARY

Covered above in 1.0 EXECUTIVE SUMMARY.

2.0 SAFETY PERFORMANCE

Nothing to report in the month of September.

3.0 KEY ACCOMPLISHMENTS

Significant accomplishments and progress towards completion of goals and objectives, for the month of September, included:

- L-612, 230kV Transmission System: Provided support to DOE for development of Construction agreement with Bonneville Power Administration (BPA)
- L-781, 181D Vertical Turbine Pumps: Received and completed review of 60% Design
- L-789, 13.8 kV Distribution: Completed final splice at A8, construction complete. Initiated Project closeout activities.
- L-796, Key Facilities Roof Replacement: Construction subcontractor completed work on buildings 251W, MO259, and MO261, all 11 facilities complete.
- L-839, 12-inch Potable Water Loop-Line to WTP: Performed installation of 12" tie-in tee and gate valves at station 134+58 near WTP. Approximately 12,000' of innerduct was pulled through the new 4" conduit line.
- L-849, Replace 200E 1.1M-gal PW Tank: Completed review and approval of the 60% design package (Excluding electrical transformer design).
- L-850, Replace 200W 1.1M-gal PW Tank: Mobilized construction subcontractor.
- L-853, 200E Sewer Flow Equalization Facility: Completed as-built drawings and project closeout activities.
- L-854, 200E Sewer Consolidations: Completed as-built drawings and project closeout activities.
- L-888, 400 Area Fire Station: Transmitted the revised NOC Application and HIA to DOE-RL and DOE-RL transmitted them to Ecology.
- L-894, Raw Water Cross Connect Isolation 200E/W: Completed design change to support resequencing of work in support of L-850, Replace 200W 1.1M-gal PW Tank, construction activities.
- L-895, Fire Protection Infrastructure for Plateau Raw Water: Continued development of the design change to resolve the issue with the low voltage switchgear enclosure. Working parallel path for a temporary enclosure to minimize impacts to other water projects.

- L-897, Central Plateau Water Treatment Facility: Received approval from DOE of the procurement consent package for the membrane filters and treatment system procurement and awarded subcontract. Initiated construction mobilization and site earthwork activities.
- L-905, FARS & RFARS Replacement & Upgrade: Completed Project closeout activities.
- L-907, Fleet Complex Site Development: Initiated formal design review of 30% Design.
- L-911, Route 4S Lighting in 300 Area: Design contract awarded and design activities initiated.
- L-928, Re-Route 12" Raw Water Line Near 241AP Farm (TSCR) (DFLAW Priority): Issued Request for Proposal for design and received proposals. Initiated technical evaluation of proposals
- L-937, Gable East Footprint Reduction: Completed installation of the WindCube.
- L-940, Route 4S 4 Lane Divided Highway and Wye Barricade/L-941, Routes 2S and 11A Rebuild: Received DOE approval of and issued Functional Requirements and Design Criteria (FRDC).
- Received final approval order for combined Notice of Construction (NOC) application. This covers L-781, 181D Vertical Turbine Pumps, L-826, 181B Vertical Turbine Pumps, L-849, 200E Potable Water Tank, L-850, 200W Potable Water Tank, L-894, Raw Water Cross Connection Isolation, L-895, Fire Protection Infrastructure for Plateau Raw Water, and L-897, Central Plateau Water Treatment Facility



L-839 Installation of Innerduct in Telecom Conduit (9/23/21)



L-897 Equipment Mobilization, Clear and Grub and Material Hauling (9/28/21)



L-796 251W Final TPO Installation (9/23/21)

4.0 EARNED VALUE MANAGEMENT

Table B-1. Reliability Project Performance

	CURRENT PERIOD (CP)			FISCAL YEAR TO DATE (FYTD)						CUMULATIVE TO DATE (CTD)						AT COMPLETION		
	BUDGETED COST	ACTUAL COST	VARIANCE	BUDGETED COST	ACTUAL COST	VARIANCE	BUDGETED COST	ACTUAL COST	VARIANCE	BUDGETED COST	ACTUAL COST	VARIANCE	BAC	EAC	VARIANCE			
WBS for September	BCWS	BCWP	ACWP	SCHEDULE	COST	BCWS	BCWP	ACWP	SCHEDULE	COST	BCWS	BCWP	ACWP	SCHEDULE	COST	BAC	EAC	VARIANCE
4001.07.01.01.01 - L-839, 12in Potable Water Loop-line	\$452	\$259	\$307	(\$193)	(\$48)	\$2,194	\$2,319	\$2,441	\$125	(\$122)	\$2,194	\$2,319	\$2,441	\$125	(\$122)	\$3,333	\$3,148	\$184
4001.07.01.01.02 - L-850, Replace 200W 1.1M-gal PW Tank	\$315	\$166	\$70	(\$149)	\$96	\$1,338	\$1,224	\$1,319	(\$114)	(\$95)	\$1,338	\$1,224	\$1,319	(\$114)	(\$95)	\$8,670	\$8,809	(\$139)
4001.07.01.01.03 - L-897, Central Plateau Water Treatment Facility	\$257	\$242	\$354	(\$15)	(\$112)	\$3,025	\$2,070	\$2,193	(\$956)	(\$123)	\$3,025	\$2,070	\$2,193	(\$956)	(\$123)	\$23,846	\$24,244	(\$399)
4001.07.01.01.04 - L-781, 181D Vertical Turbine Pumps	\$579	\$593	\$613	\$14	(\$19)	\$1,306	\$1,317	\$1,282	\$11	\$35	\$1,306	\$1,317	\$1,282	\$11	\$35	\$2,657	\$2,661	(\$4)
4001.07.01.01.05 - L-826, 181B Vertical Turbine Pumps	\$0	\$14	\$21	\$14	(\$7)	\$417	\$407	\$340	(\$10)	\$66	\$417	\$407	\$340	(\$10)	\$66	\$1,220	\$1,155	\$65
4001.07.01.01.06 - L-849, Replace 200E 1.1M-gal PW Tank	\$28	\$78	\$85	\$50	(\$6)	\$386	\$385	\$383	(\$1)	\$2	\$386	\$385	\$383	(\$1)	\$2	\$1,014	\$1,151	(\$137)
4001.07.01.01.07 - L-894, Raw Water Cross Connect Isolation 200E/W	\$27	\$37	\$29	\$10	\$8	\$103	\$104	\$126	\$1	(\$22)	\$103	\$104	\$126	\$1	(\$22)	\$294	\$400	(\$105)
4001.07.01.01.08 - L-895, Fire Protection Infrastructure for PRW	\$418	\$269	\$174	(\$148)	\$95	\$1,523	\$1,378	\$1,540	(\$145)	(\$162)	\$1,523	\$1,378	\$1,540	(\$145)	(\$162)	\$5,410	\$5,656	(\$246)
4001.07.01.01.09 - L-838, Water Feeds to G22R, 6608 & 200W Lagoons	\$8	\$7	\$13	(\$1)	(\$5)	\$29	\$23	\$27	(\$6)	(\$4)	\$29	\$23	\$27	(\$6)	(\$4)	\$502	\$450	\$52
4001.07.01.01.11 - L-927, Sanitary Water Cross-tie Line 200E - 200W	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,039	\$1,066	(\$26)
4001.07.01.01.12 - L-928, Reroute 12in Raw Water Line Near 241AP Fm	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$460	\$475	(\$15)
4001.07.02.01.01 - L-853, 200E Sewer Flow Equalization Facility	\$0	\$5	\$9	\$5	(\$4)	\$70	\$66	\$97	(\$4)	(\$31)	\$70	\$66	\$97	(\$4)	(\$31)	\$70	\$98	(\$28)
4001.07.02.01.02 - L-854, 200E Sewer Consolidations	\$0	\$13	\$9	\$13	\$4	\$63	\$52	\$53	(\$11)	(\$0)	\$63	\$52	\$53	(\$11)	(\$0)	\$63	\$54	\$9
4001.07.03.01.01 - L-801 Upgrade SCADA	\$714	\$141	\$116	(\$572)	\$25	\$1,710	\$1,449	\$960	(\$260)	(\$489)	\$1,710	\$1,449	\$960	(\$260)	(\$489)	\$1,983	\$1,575	\$408
4001.07.03.01.02 - L-791, RFL Transfer Trip Upgrades	\$0	\$0	(\$1)	\$0	\$1	\$0	\$0	\$1	\$0	(\$1)	\$0	\$0	\$1	\$0	(\$1)	\$0	\$1	(\$1)
4001.07.03.01.03 - L-707, Advanced Electrical Metering	\$13	\$30	\$13	\$16	\$17	\$94	\$94	\$58	\$0	\$36	\$94	\$94	\$58	\$0	\$36	\$94	\$58	\$36
4001.07.03.01.04 - L-905, FARS & RFARS Replacement & Upgrade	\$33	\$31	\$23	(\$2)	\$8	\$326	\$326	\$293	\$0	\$33	\$326	\$326	\$293	\$0	\$33	\$326	\$293	\$33
4001.07.03.01.05 - L-911, Route 4S Lighting in 300 Area	\$17	\$14	\$8	(\$2)	\$6	\$17	\$15	\$10	(\$2)	\$4	\$17	\$15	\$10	(\$2)	\$4	\$139	\$121	\$17
4001.07.03.01.06 - L-898, 100 Area Mission Crit Dist Feeders Repl	\$47	\$5	\$39	(\$42)	(\$34)	\$546	\$532	\$449	(\$14)	\$83	\$546	\$532	\$449	(\$14)	\$83	\$1,518	\$1,431	\$88
4001.07.03.02.01 - L-612, 230KV Trans Sys Recon & Sustainability	\$20	\$23	\$22	\$3	\$1	\$275	\$274	\$155	(\$1)	\$120	\$275	\$274	\$155	(\$1)	\$120	\$945	\$825	\$121
4001.07.03.02.02 - L-861, Single-Circuit Distribution Pole Replace	\$29	\$26	\$37	(\$4)	(\$11)	\$344	\$342	\$290	(\$2)	\$52	\$344	\$342	\$290	(\$2)	\$52	\$573	\$604	(\$31)
4001.07.03.02.03 - L-789, Priorit T&D Sys Wood PP Test & Replace	(\$45)	\$81	\$266	\$126	(\$185)	\$4,408	\$4,377	\$4,535	(\$31)	(\$158)	\$4,408	\$4,377	\$4,535	(\$31)	(\$158)	\$4,739	\$4,778	(\$38)
4001.07.03.02.04 - L-720, Outdoor Lighting Reconfiguration & Repl	\$272	\$363	\$118	\$90	\$244	\$1,504	\$1,369	\$850	(\$135)	\$519	\$1,504	\$1,369	\$850	(\$135)	\$519	\$2,420	\$2,055	\$365
4001.07.04.01.01 - L-940, Route 4S 4 Lane Divided	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,525	\$1,558	(\$33)
4001.07.04.01.02 - L-941, Routes 2A and 11S Road Rebuild	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,626	\$1,662	(\$35)
4001.07.04.02.01 - L-534, Overlay Interior 200 East Roads	\$0	\$0	(\$8)	\$0	\$8	\$23	\$23	\$33	(\$0)	(\$11)	\$23	\$23	\$33	(\$0)	(\$11)	\$23	\$33	(\$11)
4001.07.04.02.02 - L-603, Chip Seal Route 3N (Route 11A to Route 3)	\$0	\$0	\$0	\$0	\$0	\$22	\$22	\$29	\$0	(\$7)	\$22	\$22	\$29	\$0	(\$7)	\$22	\$29	(\$7)
4001.07.04.02.03 - L-883, Chip Seal Rt 10, SR-240 to WYE Barricade	\$0	\$0	\$0	\$0	\$0	\$24	\$24	\$30	(\$0)	(\$7)	\$24	\$24	\$30	(\$0)	(\$7)	\$24	\$30	(\$7)
4001.07.05.01.01 - L-888, 400 Area Fire Station	\$6	\$2	\$25	(\$4)	(\$23)	\$39	\$29	\$114	(\$10)	(\$85)	\$39	\$29	\$114	(\$10)	(\$85)	\$139	\$241	(\$103)
4001.07.05.01.02 - L-907, Fleet Complex Site Development	\$683	\$394	\$173	(\$289)	\$221	\$1,134	\$1,108	\$666	(\$26)	\$442	\$1,134	\$1,108	\$666	(\$26)	\$442	\$3,416	\$2,126	\$1,289
4001.07.05.01.03 - L-934, MSC Office Space Gap Reduction - 200E	\$8	\$11	(\$138)	\$3	\$149	\$2,399	\$2,399	\$1,763	\$0	\$636	\$2,399	\$2,399	\$1,763	\$0	\$636	\$2,399	\$1,763	\$636
4001.07.05.01.04 - L-933, Install Mobile Office Trailers - 200E	\$0	\$0	\$6	\$0	(\$6)	\$17	\$17	\$50	\$0	(\$33)	\$17	\$17	\$50	\$0	(\$33)	\$17	\$50	(\$33)
4001.07.05.02.01 - L-796, Key Facilities Roof Replacements	\$10	\$184	\$174	\$174	\$10	\$1,454	\$1,427	\$1,414	(\$26)	\$14	\$1,454	\$1,427	\$1,414	(\$26)	\$14	\$1,456	\$1,372	\$84
4001.07.05.02.02 - L-797, Key Facilities HVAC Replacements	\$0	\$0	(\$0)	\$0	\$0	\$0	\$0	(\$0)	\$0	\$0	\$0	\$0	(\$0)	\$0	\$0	\$0	\$0	(\$0)
4001.07.06.01.01 - L-921, Telecom Hut at Met Tower	\$22	\$15	\$64	(\$7)	(\$49)	\$722	\$701	\$933	(\$22)	(\$233)	\$722	\$701	\$933	(\$22)	(\$233)	\$722	\$968	(\$246)
4001.07.06.01.02 - L-919, Emergency Radio Upgrade	(\$120)	\$39	\$49	\$160	(\$10)	\$279	\$257	\$483	(\$21)	(\$226)	\$279	\$257	\$483	(\$21)	(\$226)	\$6,381	\$6,456	(\$75)
4001.07.06.01.05 - L-819, High Capacity Fiber Optic (300 Area)	\$0	\$22	\$27	\$22	(\$5)	\$211	\$230	\$76	\$20	\$154	\$211	\$230	\$76	\$20	\$154	\$1,649	\$1,444	\$205
4001.07.06.02.04 - L-937, Gable East Footprint Reduction (Phase 1)	\$24	\$37	\$358	\$313	(\$21)	\$1,552	\$1,614	\$1,354	\$62	\$260	\$1,552	\$1,614	\$1,354	\$62	\$260	\$2,076	\$1,794	\$283
4001.07.97.01.01.01 - IRP - Out-Year Summary Level Planning Package	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$327,366	\$327,366	\$0
Grand Total	\$3,817	\$3,402	\$3,055	(\$415)	\$347	\$27,553	\$25,975	\$24,348	(\$1,578)	\$1,626	\$27,553	\$25,975	\$24,348	(\$1,578)	\$1,626	\$410,156	\$407,999	\$2,156

Note: \$ in Thousands

Performance Summary:

The HMIS contract went operational on January 25, 2021 for further detail of the performance summary write-ups please see Appendix B - 3.0 FORMAT 5, DD FORM 2734/5,

EXPLANATIONS AND PROBLEM ANALYSIS

Schedule Variance (SV) Analysis: The unfavorable CM SV is (-\$415K) or (-10.9%) and the significant driver of the schedule variance is the Water Systems a BCR was implemented in the current month which made an adjustment to the BCWS in the current period for scope that was completed and BCWP earned in a prior period. The Electrical System baseline is impacted and has been incorporated into the task order proposal and will be captured in a future REA.

Cost Variance (CV) Analysis: The favorable CM CV is (+\$347K) or (+10.2%) and the significant driver of the cost variance is due to labor and subcontractor efficiencies and favorable contract negotiations.

Variance at Completion (VAC): The favorable VAC is (+\$2,156K) or (+0.5%) and the significant driver of the VAC are RPs Water Systems which will overrun due to the added cost for Change Orders. The overrun by Water Systems will be offset by underruns in Electrical Systems and Facility Systems.

5.0 PROJECT RISK ASSESSMENT

5.1 HMIS L-612 Project Key Risks

- **BCRs:** No BCRs were processed in September that impact the project’s MR or SM profile.
- **Risk Analysis:** No risks analysis conducted in September.
- **Current Risk Posture:**

Table B-2. L-612 Risk Posture

Period	Realized	Key	Opened	Closed	Unassigned	Total Risks
August	0	0	0	0	0	5
September	0	0	0	0	0	5

Table B-3. L-612 Key Risks

Unmitigated Risk Impacts	Assessment		Comments
	Month	Trend	
L612 –230Kv Transmission System Reconditioning and Sustainability Repairs - Project Risks			
Explanation of major changes to the program monthly stoplight chart:			
No major changes to the Stoplight Chart in September .			
Realized Risks (Risks that are currently impacting project cost/schedule)			
No Realized Risks in September .			
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed.)			
No Critical Risks identified in September .			
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)			
No High Risks identified in September .			
Unassigned Risks (Pending ownership of identified risks/opportunities)			
No Unassigned Risk identified in September .			

5.2 HMIS L-789 Project Key Risks

- **BCRs:** No BCRs were processed in September that impact the project’s MR or SM profile.
- **Risk Analysis:** No risks analysis conducted in September.
- **Current Risk Posture:**

Table B-4. L-789 Risk Posture

Period	Realized	Key	Opened	Closed	Unassigned	Total Risks
August	0	2	0	0	0	12
September	0	2	0	0	0	12

Table B-5. L-789 Key Risks

Unmitigated Risk Impacts	Assessment		Comments															
	Month	Trend																
L789 - Priority T&D Sys Wood PP Test & Replace - Project Risks																		
Explanation of major changes to the program monthly stoplight chart: No major changes to the Stoplight Chart in September. Construction was completed in August 2021. All construction risks will be closed and project L-789 will not be reported on in October 2021.																		
Realized Risks (Risks that are currently impacting project cost/schedule)																		
No Realized Risks in September.																		
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed.)																		
L789-0014-T: Linemen Mutual Aid. Legacy Risk #: NA	If sub-contractor linemen are called to support mutual aid agreements by utilities in the in the event of power outages due to severe weather, including wildfires, then project schedule and cost will be impacted. Risk Handling Strategy: Mitigate Probability: Somewhat Likely (50%) Worst Case Impacts: \$0, 96 days	● ↔	Risk Trigger: An incident requiring support of linemen through the mutual aid agreement. <table border="1"> <thead> <tr> <th>Mitigation Action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Construction contract to remain open until all transmission/distribution projects complete</td> <td>Ongoing</td> <td>NA</td> </tr> </tbody> </table> Mitigation Action Assessment: No major changes in the month of September.	Mitigation Action(s)	FC Date	%	Construction contract to remain open until all transmission/distribution projects complete	Ongoing	NA									
Mitigation Action(s)	FC Date	%																
Construction contract to remain open until all transmission/distribution projects complete	Ongoing	NA																
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)																		
L789-0006-T: EU resource constraints prevent new equipment electrical tie-ins. Legacy Risk #: 1962	If an EU outage is delayed because of operational constraints, then some scheduled work may need to be reprioritized impacting project schedule. Risk Handling Strategy: Accept Probability: Likely (75%) Worst Case Impacts: \$0, 32 days	● ↔	Risk Trigger: Operational delays resulting in delays. <table border="1"> <thead> <tr> <th>Mitigation Action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Identify engineering needs to lead engineer during at the IPT meeting.</td> <td>Ongoing</td> <td>NA</td> </tr> <tr> <td>Establish engineering review needs during conceptual design phase.</td> <td>Ongoing</td> <td>NA</td> </tr> <tr> <td>Coordinate engineering support availability into project schedule.</td> <td>Ongoing</td> <td>NA</td> </tr> <tr> <td>Communicate scheduling changes impacting engineering review to lead engineer.</td> <td>Ongoing</td> <td>NA</td> </tr> </tbody> </table> Mitigation Action Assessment: No major changes in the month of September. Scheduled delays were realized (not to this risk) when BPA canceled the final fiber splice/tie-in because of problems with the transfer trip system. The outage was completed at the end of August 2021.	Mitigation Action(s)	FC Date	%	Identify engineering needs to lead engineer during at the IPT meeting.	Ongoing	NA	Establish engineering review needs during conceptual design phase.	Ongoing	NA	Coordinate engineering support availability into project schedule.	Ongoing	NA	Communicate scheduling changes impacting engineering review to lead engineer.	Ongoing	NA
Mitigation Action(s)	FC Date	%																
Identify engineering needs to lead engineer during at the IPT meeting.	Ongoing	NA																
Establish engineering review needs during conceptual design phase.	Ongoing	NA																
Coordinate engineering support availability into project schedule.	Ongoing	NA																
Communicate scheduling changes impacting engineering review to lead engineer.	Ongoing	NA																

SECTION B



	Unmitigated Risk Impacts	Assessment		Comments
		Month	Trend	
L789 - Priority T&D Sys Wood PP Test & Replace - Project Risks				
Unassigned Risks (Pending ownership of identified risks/opportunities)				
No unassigned risks identified in September .				

5.3 HMIS L-839 Project Key Risks

- **BCRs:** No BCRs were processed in September that impact the project’s MR or SM profile.
- **Risk Analysis:** No risks analysis conducted in September.
- **Current Risk Posture:**

Table B-6. L-839 Risk Posture

Period	Realized	Key	Opened	Closed	Unassigned	Total Risks
August	0	2	0	0	3	13
September	0	2	0	0	3	13

Table B-7. L-839 Key Risks

Unmitigated Risk Impacts	Assessment		Comments												
	Month	Trend													
L-839, 12in Potable Water Loop-line															
Explanation of major changes to the program monthly stoplight chart: No major changes to the Stoplight Chart in September .															
Realized Risks (Risks that are currently impacting project cost/schedule)															
No realized risks in September .															
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed.)															
No critical risks identified in September .															
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)															
L839-0018-T: Construction material/equipment received late. Legacy Risk #: N/A	If building materials (steel, ductile iron, PVC, etc.) are received late because of errors, delivered behind schedule or damaged in transit then schedule will be impacted. Risk Handling Strategy: Accept Probability: Likely (80%) Worst Case Impacts: \$0, 64 days	● ↔	Risk Trigger: Project procurement. <table border="1"> <thead> <tr> <th>Mitigation Action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Identify items requiring extended procurement times during design phase.</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Order construction materials as soon as quantities needed are verified.</td> <td>Ongoing</td> <td>NA</td> </tr> <tr> <td>Coordinate storage of construction materials HMIS laydown yard or alternate location.</td> <td>Ongoing</td> <td>NA</td> </tr> </tbody> </table> Mitigation Action Assessment: No major changes in the month of September . Received the bulk of the 12" pipe to be installed on the project and began stringing it out along the pipe route. Initiated trenching for and installation of 12" pipe, as well as, 4" fiber optic conduit. Project performance will be reviewed at the end of September 2021 to evaluate probability of risk to the remainder of the project.	Mitigation Action(s)	FC Date	%	Identify items requiring extended procurement times during design phase.	Complete	100	Order construction materials as soon as quantities needed are verified.	Ongoing	NA	Coordinate storage of construction materials HMIS laydown yard or alternate location.	Ongoing	NA
Mitigation Action(s)	FC Date	%													
Identify items requiring extended procurement times during design phase.	Complete	100													
Order construction materials as soon as quantities needed are verified.	Ongoing	NA													
Coordinate storage of construction materials HMIS laydown yard or alternate location.	Ongoing	NA													

SECTION B

	Unmitigated Risk Impacts	Assessment		Comments															
		Month	Trend																
L-839, 12in Potable Water Loop-line																			
L839-0019-T: Construction material price increase. Legacy Risk #: N/A	If the price of construction materials (e.g. steel, ductile iron, PVC) increase significantly (e.g. +25%) then project cost will be impacted. Risk Handling Strategy: Accept Probability: Likely (75%) Worst Case Impacts: \$0, 32 days			Risk Trigger: Project procurement. <table border="1"> <thead> <tr> <th>Mitigation Action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Identify building materials at risk for price fluctuations during design.</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Contact procurements regarding at risk building materials.</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Monitor price fluctuations as price spikes will impact project costs.</td> <td>Ongoing</td> <td>NA</td> </tr> <tr> <td>Emphasize price spikes to construction sub-contractor.</td> <td>Ongoing</td> <td>NA</td> </tr> </tbody> </table> Mitigation Action Assessment: No major changes in the month of September . Received the bulk of the 12" pipe to be installed on the project and began stringing it out along the pipe route. Initiated trenching for and installation of 12" pipe, as well as, 4" fiber optic conduit. Project performance will be reviewed at the end of September 2021 to evaluate probability of risk to the remainder of the project.	Mitigation Action(s)	FC Date	%	Identify building materials at risk for price fluctuations during design.	Complete	100	Contact procurements regarding at risk building materials.	Complete	100	Monitor price fluctuations as price spikes will impact project costs.	Ongoing	NA	Emphasize price spikes to construction sub-contractor.	Ongoing	NA
Mitigation Action(s)	FC Date	%																	
Identify building materials at risk for price fluctuations during design.	Complete	100																	
Contact procurements regarding at risk building materials.	Complete	100																	
Monitor price fluctuations as price spikes will impact project costs.	Ongoing	NA																	
Emphasize price spikes to construction sub-contractor.	Ongoing	NA																	
Unassigned Risks (Pending ownership of identified risks/opportunities)																			
L839-0006-T: Delayed review/approval cycles impact schedule. Legacy Risk #: 3182	If permit and site evaluation review/approval cycles external to HMIS are delayed, project schedule may be impacted. HMIS Comment: Project has initiated trenching for and installation of 12" pipe, as well as, 4" fiber optic conduit. Primarily working East to West.																		
L839-0012-T: Hazardous waste or unknown container is discovered. Legacy Risk #: 3188	If hazardous waste or an unknown container is discovered, then project schedule and cost will be impacted. HMIS Comment: Project has initiated trenching for and installation of 12" pipe, as well as, 4" fiber optic conduit. Primarily working East to West.																		
L839-0014-T: Cultural or historical artifacts are discovered. Legacy Risk #: 3190	If cultural or historical artifacts are found during construction, then project schedule will be impacted. HMIS Comment: Project has initiated trenching for and installation of 12" pipe, as well as, 4" fiber optic conduit. Primarily working East to West.																		

5.4 HMIS L-850 Project Key Risks

- **BCRs:** No BCRs were processed in September that impact the project’s MR or SM profile.
- **Risk Analysis:** Initiated risks analysis in September.
- **Current Risk Posture:**

Table B-8. L-850 Risk Posture

Period	Realized	Key	Opened	Closed	Unassigned	Total Risks
August	0	4	0	0	7	22
September	0	4	0	0	5	20

Table B-9. L-850 Key Risks

Unmitigated Risk Impacts	Assessment		Comments												
	Month	Trend													
L850 - Replace 200W 1.1M-gal PW Tank - Project Risks															
Explanation of major changes to the program monthly stoplight chart: The Department of Ecology issued approval order DE19NWP-001 for the Water Infrastructure Upgrade on 8/30/2021. This approval order closed the following risks: L850-0023-T: Department of Ecology disagrees with HMIS submitting two separate NOC applications for separate and non-overlapping air pollutants. L850-0024-T: Ambient Air Boundary on Hanford															
Realized Risks (Risks that are currently impacting project cost/schedule)															
No realized risks in September .															
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed.)															
No critical risks in September .															
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)															
L850-0001-T: Design Errors or Omissions Resulting in Redesign and Rework Legacy Risk #: 3087 & L850-0001-T	If Design errors or omissions result in redesign and rework, then project cost and schedule will be impacted. Risk Handling Strategy: Accept Probability: Unlikely (18%) Worst Case Impacts: \$50.0K, 96 days	● ↔	Risk Trigger: Design reviews reveal comments/issues were not incorporated into them causing rework and potential delays. <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Mitigation Action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Coordinate engineering support availability into project schedule.</td> <td>Ongoing</td> <td>NA</td> </tr> <tr> <td>Communicate scheduling changes impacting engineering review to lead engineer.</td> <td>Ongoing</td> <td>NA</td> </tr> <tr> <td>Create adequate review and comment periods in the schedule for reviewing the A/E's 30%, 60%, 90% & 100% products.</td> <td>Ongoing</td> <td>NA</td> </tr> </tbody> </table> <p>No major changes in the month of September. Construction subcontractor completed proposal development for SOW Rev 1 per DCN-002 and HMIS initiated technical evaluation. Construction subcontractor continued premobilization submittals and fabrication. Support of NSF 61 form letters for material information were initiated.</p>	Mitigation Action(s)	FC Date	%	Coordinate engineering support availability into project schedule.	Ongoing	NA	Communicate scheduling changes impacting engineering review to lead engineer.	Ongoing	NA	Create adequate review and comment periods in the schedule for reviewing the A/E's 30%, 60%, 90% & 100% products.	Ongoing	NA
Mitigation Action(s)	FC Date	%													
Coordinate engineering support availability into project schedule.	Ongoing	NA													
Communicate scheduling changes impacting engineering review to lead engineer.	Ongoing	NA													
Create adequate review and comment periods in the schedule for reviewing the A/E's 30%, 60%, 90% & 100% products.	Ongoing	NA													

SECTION B

	Unmitigated Risk Impacts	Assessment		Comments												
		Month	Trend													
L850 - Replace 200W 1.1M-gal PW Tank - Project Risks																
L850-0018-T: Bid Comes in High Legacy Risk #: 3104 & L850-0018-T	If the bid comes in higher than expected, there are no bidders or there is only a single bidder because the industry market is not well understood, then a rebid or a sole-source justification will be necessary impacting project schedule. Risk Handling Strategy: Accept Probability: Unlikely (25%) Worst Case Impacts: \$500.0K, 32 days	●	↔	Risk Trigger: Bids are received higher than expected. <table border="1"> <thead> <tr> <th>Mitigation Action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Contact procurement during planning to determine the bidding climate.</td> <td>Ongoing</td> <td>NA</td> </tr> <tr> <td>Perform cost-price reviews.</td> <td>Ongoing</td> <td>NA</td> </tr> </tbody> </table> Mitigation Action Assessment: No major changes in the month of September .	Mitigation Action(s)	FC Date	%	Contact procurement during planning to determine the bidding climate.	Ongoing	NA	Perform cost-price reviews.	Ongoing	NA			
Mitigation Action(s)	FC Date	%														
Contact procurement during planning to determine the bidding climate.	Ongoing	NA														
Perform cost-price reviews.	Ongoing	NA														
L850-0019-T: Solid Waste Operations Complex (SWOC) Master Documented Safety Analysis (MDSA) does not receive DOE Approval Legacy Risk #: 3208	If a revision to the Solid Waste Operations Complex (SWOC) Master Documented Safety Analysis (MDSA) or approval of a new safety basis document is not approved by DOE by the end of the project then a project delay will occur impacting schedule. Risk Handling Strategy: Accept Probability: Somewhat Likely (50%) Worst Case Impacts: \$0.0K, 192 days	●	↔	Risk Trigger: SWOC/MDSA or approval of new safety basis document not approved by end of project. <table border="1"> <thead> <tr> <th>Mitigation Action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Plan ahead and have key personnel involved in the development of documents.</td> <td>Ongoing</td> <td>NA</td> </tr> <tr> <td>Continue to maintain clear and open communication with DOE throughout the project.</td> <td>Ongoing</td> <td>NA</td> </tr> </tbody> </table> Mitigation Action Assessment: No major changes in the month of September .	Mitigation Action(s)	FC Date	%	Plan ahead and have key personnel involved in the development of documents.	Ongoing	NA	Continue to maintain clear and open communication with DOE throughout the project.	Ongoing	NA			
Mitigation Action(s)	FC Date	%														
Plan ahead and have key personnel involved in the development of documents.	Ongoing	NA														
Continue to maintain clear and open communication with DOE throughout the project.	Ongoing	NA														
L850-0020-T: Attrition or Staffing Turnover Legacy Risk #: 3212 & L850-0020-T	If attrition or staffing reductions result in staffing turnover during the project, then efficiency will be impacted, resulting in schedule delays. Risk Handling Strategy: Accept Probability: Somewhat Likely (50%) Worst Case Impacts: \$0.0K, 48 days	●	↔	Risk Trigger: Staff or key personnel quits or retires. <table border="1"> <thead> <tr> <th>Mitigation Action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Identify key personnel during planning.</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Establish back up and alternates for key project positions to reduce impacts.</td> <td>Ongoing</td> <td>NA</td> </tr> <tr> <td>Maintain good documentation in the event a non-coordinated work turnover occurs.</td> <td>Ongoing</td> <td>NA</td> </tr> </tbody> </table> Mitigation Action Assessment: No major changes in the month of September . With little exception, key personnel positions have alternates and project documentation has reduced the impact of staff attrition.	Mitigation Action(s)	FC Date	%	Identify key personnel during planning.	Complete	100	Establish back up and alternates for key project positions to reduce impacts.	Ongoing	NA	Maintain good documentation in the event a non-coordinated work turnover occurs.	Ongoing	NA
Mitigation Action(s)	FC Date	%														
Identify key personnel during planning.	Complete	100														
Establish back up and alternates for key project positions to reduce impacts.	Ongoing	NA														
Maintain good documentation in the event a non-coordinated work turnover occurs.	Ongoing	NA														
Unassigned Risks (Pending ownership of identified risks/opportunities)																
L850-0013-T: PFP Contamination Legacy Risk #: 3099	If Plutonium Finishing Plant (PFP) contamination spreads to the Project Site, then construction activities could be delayed, impacting project cost and schedule. HMIS Comment: No major changes in the month of September .															
L850-0005-T: Discovery of Hazardous Waste or Unknown Container Legacy Risk #: 3091 & L850-0005-T	If hazardous waste or an unknown container is discovered, then project schedule and cost will be impacted. HMIS Comment: No major changes in the month of September .															

SECTION B



	Unmitigated Risk Impacts	Assessment		Comments
		Month	Trend	
L850 - Replace 200W 1.1M-gal PW Tank - Project Risks				
L850-0006-T: Discovery of Cultural Artifacts Legacy Risk #: 3092	If cultural artifacts are found during excavations, then it will result in schedule impacts. HMIS Comment: No major changes in the month of September .			
L850-0007-T: Adverse Weather Legacy Risk #: 3093	If there is more adverse weather (hot, windy, snow, lightning) than initially planned, design and/or construction progress will slow to compensate for the environmental changes and schedule will suffer. HMIS Comment: No major changes in the month of September .			
L850-0008-T: External Permit and Evaluation Cycles Delayed Legacy Risk #:3094	If permit and evaluation review/approval cycles external to HMIS are delayed, construction schedule will be impacted. HMIS Comment: No major changes in the month of September .			

5.5 HMIS L-888 Project Key Risks

- **BCRs:** No BCRs were processed in September that impact the project’s MR or SM profile.
- **Risk Analysis:** No risks analysis conducted in September.
- **Current Risk Posture:**

Table B-10. L-888 Risk Posture

Period	Realized	Key	Opened	Closed	Unassigned	Total Risks
August	0	1	0	0	5	8
September	0	1	0	0	5	8

Table B-11. L-888 Key Risks

Unmitigated Risk Impacts	Assessment		Comments												
	Month	Trend													
L-888, 400 Area Fire Station															
Explanation of major changes to the program monthly stoplight chart: No major changes to the Stoplight Chart in September .															
Realized Risks (Risks that are currently impacting project cost/schedule)															
No realized risks in September .															
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed.)															
No critical risks in September .															
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)															
L888-0005-T: Attrition or Staffing Turnover Legacy Risk #: 1986	If attrition or staffing reductions result in staffing turnover during the project, then efficiency will be impacted, resulting in schedule delays. Risk Handling Strategy: Accept Probability: Somewhat Likely (74%) Worst Case Impacts: \$0, 48 days	● ↔	Risk Trigger: Key project position staff turnover may impact project schedule. <table border="1"> <thead> <tr> <th>Mitigation Action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Identify key personnel during planning.</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Establish back up and alternates for key project positions to reduce impacts.</td> <td>Ongoing</td> <td>NA</td> </tr> <tr> <td>Maintain good documentation in the event a non-coordinated work turnover occurs.</td> <td>Ongoing</td> <td>NA</td> </tr> </tbody> </table> Mitigation Action Assessment: No major changes in the month of September . With little exception, key personnel positions have alternates and project documentation has reduced the impact of staff attrition.	Mitigation Action(s)	FC Date	%	Identify key personnel during planning.	Complete	100	Establish back up and alternates for key project positions to reduce impacts.	Ongoing	NA	Maintain good documentation in the event a non-coordinated work turnover occurs.	Ongoing	NA
Mitigation Action(s)	FC Date	%													
Identify key personnel during planning.	Complete	100													
Establish back up and alternates for key project positions to reduce impacts.	Ongoing	NA													
Maintain good documentation in the event a non-coordinated work turnover occurs.	Ongoing	NA													

SECTION B



Unmitigated Risk Impacts	Assessment		Comments
	Month	Trend	
L-888, 400 Area Fire Station			
Unassigned Risks (Pending ownership of identified risks/opportunities)			
<p>L888-0017-T: Delayed External Review and Approval Cycles.</p> <p>Legacy Risk # DOEL888-0004-T</p>	<p>If permit and evaluation review/approval cycles external to HMIS are delayed, construction schedule will be impacted.</p> <p>HMIS Comment: NOC application will be transmitted to DOE-RL on 6/21/2021. HMIS anticipates DOR-RL will transmit the NOC application to the Department of Ecology on 8/20/2021. HMIS anticipates a 6-month review period by the Department of Ecology. NOC/HIA review and issuance of Approval Order is being delayed due to priorities within DOE and WDOE.</p>		
<p>L888-0019-T: Notice of Construction (NOC) application is not approved by the Department of Ecology due to disagreement on the ambient air boundary and ambient air modeling.</p> <p>Legacy Risk # DOEL888-0006-T, HMISL888-0012-T</p>	<p>If the Notice of Construction (NOC) application is not approved by the Department of Ecology due to disagreement on the ambient air boundary and ambient air modeling, then installation and testing of backup generator, and subsequent project activities are delayed impacting project schedule.</p> <p>HMIS Comment: NOC application will be transmitted to DOE-RL on 6/21/2021. HMIS anticipates DOR-RL will transmit the NOC application to the Department of Ecology on 8/20/2021. HMIS anticipates a 6-month review period by the Department of Ecology. 8/26/2021: NOC/HIA review and issuance of Approval Order is being delayed due to priorities within DOE and WDOE.</p>		
<p>L888-0020-T: Ecology does not Agree with the Project's Strategy to Submit Separate NOC Applications for Separate and Non-overlapping Air Pollutants.</p> <p>Legacy Risk # DOEL888-0007-T</p>	<p>If the Department of Ecology does not agree with the project's strategy to submit separate NOC applications for separate and non-overlapping air pollutants, and if Ecology's interpretation of the WAC and "start of construction" differs from the project's interpretations and assumptions, then construction activities will be delayed impacting project schedule.</p> <p>HMIS Comment: NOC application will be transmitted to DOE-RL on 6/21/2021. HMIS anticipates DOR-RL will transmit the NOC application to the Department of Ecology on 8/20/2021. HMIS anticipates a 6-month review period by the Department of Ecology. 8/26/2021: NOC/HIA review and issuance of Approval Order is being delayed due to priorities within DOE and WDOE.</p>		
<p>L888-0021-T: Enabling assumption: Insufficient Funding</p> <p>Legacy Risk # DOEL888-0008-T</p>	<p>Enabling assumption: Funding may not be sufficient to maintain the Performance Measurement Baseline (PMB) budget.</p> <p>HMIS Comment: DOE-RL notified HMIS of the revised schedule to issue Task Order #9 RFP. The RFP issue date has slipped from 7/27/2021 to 9/6/2021. Further, the Task Order is to be finalized and issued to HMIS on 3/14/2022.</p>		
<p>L888-0022-T: COVID-19 Delays Resuming or a Resurgence After Resumption Causes Further Delays</p> <p>Legacy Risk # DOEL888-0009-T, DOEL888-0011-T</p>	<p>There is a possibility that the L-888 project resumption is delayed due to COVID-19 on going trends or resurgence resulting in schedule delays. If a resurgence were to occur after the resumption, the project may also experience delays if the site reverses phases.</p> <p>HMIS Comment: An email correspondence from Brian Vance to All Hanford Site Employees with the subject "Implementing Revised CDC Guidance for Fully Vaccinated Members of our Hanford Team" was released on 6/8/2021. In the email it stated Hanford would follow the revised CDC guidance starting 6/11/2021, including fully vaccinated workforce members returning to the worksite without masks with a few exceptions.</p>		

5.6 HMIS L-895 Project Key Risks

- **BCRs:** No BCRs were processed in September that impact the project’s MR or SM profile.
- **Risk Analysis:** Initiated risks analysis in September.
- **Current Risk Posture:**

Table B-12. L-895 Risk Posture

Period	Realized	Key	Opened	Closed	Unassigned	Total Risks
August	1	2	0	0	1	11
September	0	2	0	0	0	10

Table B-13. L-895 Key Risks

Unmitigated Risk Impacts	Assessment		Comments						
	Month	Trend							
L-895, Fire Protection Infrastructure for Plateau Raw Water									
Explanation of major changes to the program monthly spotlight chart: The Department of Ecology issued approval order DE19NWP-001 for the Water Infrastructure Upgrade on 8/30/2021. This approval order closed the following risk: L895-0015-T: Ambient Air Boundary on Hanford									
Realized Risks (Risks that are currently impacting project cost/schedule)									
No realized risks identified in September .									
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed.)									
No critical risks identified in September .									
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)									
L895-0001-T: End-user requirements change post design phase. Legacy Risk #: 1866	If the project scope changes during execution because there is a change in end-user or other line organization usage requirements, then a redesign will be likely resulting in schedule and cost impacts. Risk Handling Strategy: Accept Probability: Somewhat Likely (50%) Worst Case Impacts: \$500.0K, 70 days	● ↔	Risk Trigger: Change in project scope during execution, of which the W-LAN system and all system modifications are a large contributor. <table border="1" style="width: 100%;"> <thead> <tr> <th>Mitigation Action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Risk is accepted with no mitigation actions planned at this time.</td> <td>Ongoing</td> <td>NA</td> </tr> </tbody> </table> Mitigation Action Assessment: No major changes in the month of September .	Mitigation Action(s)	FC Date	%	Risk is accepted with no mitigation actions planned at this time.	Ongoing	NA
Mitigation Action(s)	FC Date	%							
Risk is accepted with no mitigation actions planned at this time.	Ongoing	NA							
L895-0002-T: Procurement cycle is delayed. Legacy Risk #: 1863	If procurement bid cycle is delayed because of excessive RFP questions, delay in receipt of bids, vendor supply issues, new procurement thresholds or processes, or quality concerns then additional procurement cycle time may be necessary impacting project schedule. Risk Handling Strategy: Accept Probability: Somewhat Likely (50%) Worst Case Impacts: \$0, 48 days	● ↔	Risk Trigger: Delays to award A/E services contract, switchgear mod or other action requiring APD. <table border="1" style="width: 100%;"> <thead> <tr> <th>Mitigation Action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>HMIS Procurements negotiate with A/E firm.</td> <td>Ongoing</td> <td>NA</td> </tr> </tbody> </table> Mitigation Action Assessment: HMIS has received several BAFO submittals from Jacobs. A/E Services contract awarded on 6/17/2021.	Mitigation Action(s)	FC Date	%	HMIS Procurements negotiate with A/E firm.	Ongoing	NA
Mitigation Action(s)	FC Date	%							
HMIS Procurements negotiate with A/E firm.	Ongoing	NA							

SECTION B



	Unmitigated Risk Impacts	Assessment		Comments
		Month	Trend	
L-895, Fire Protection Infrastructure for Plateau Raw Water				
Unassigned Risks (Pending ownership of identified risks/opportunities)				
No unassigned risks identified in September .				

5.7 HMIS L-897 Project Key Risks

- **BCRs:** No BCRs were processed in September that impact the project’s MR or SM profile.
- **Risk Analysis:** Initiated risks analysis in September.
- **Current Risk Posture:**

Table B-14. L-897 Risk Posture

Period	Realized	Key	Opened	Closed	Unassigned	Total Risks
August	2	2	0	0	5	13
September	1	2	0	0	4	12

Table B-15. L-897 Key Risks

Unmitigated Risk Impacts	Assessment		Comments												
	Month	Trend													
L897 - Central Plateau Water Treatment Facility - Project Risks															
Explanation of major changes to the program monthly spotlight chart:															
The Department of Ecology issued approval order DE19NWP-001 for the Water Infrastructure Upgrade on 8/30/2021. This approval order closed the following risk: L897-0046-T: Ambient Air Boundary on Hanford															
Realized Risks (Risks that are currently impacting project cost/schedule)															
L897-0015-T: Procurement bid cycle delays. Legacy Risk #: 2052	If procurement bid cycle is delayed because of excessive RFP questions, delay in receipt of bids, vendor supply issues, or quality concerns then additional procurement cycle time may be necessary impacting project schedule. Risk Handling Strategy: Mitigate Probability: Likely (75%) Worst Case Impacts: 48 days	 	Risk Event: Membrane vendor does not agree with the Terms and Conditions of HMIS’s service contract, delaying the membrane procurement process. <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Recovery Action(s)</th> <th style="text-align: center;">FC Date</th> <th style="text-align: center;">%</th> </tr> </thead> <tbody> <tr> <td>HMIS Procurements negotiate with vendor.</td> <td style="text-align: center;">Ongoing</td> <td style="text-align: center;">NA</td> </tr> <tr> <td>Award membrane and processing equipment procurement & fabrication contract (L897-6520A).</td> <td style="text-align: center;">09/2021</td> <td style="text-align: center;">97.5</td> </tr> <tr> <td>Notice to commence manufacture (L897-1404).</td> <td style="text-align: center;">11/2021</td> <td style="text-align: center;">0</td> </tr> </tbody> </table> Recovery Action Assessment: No major changes in the month of September . On 1/25/2021 HMSEC restarted the procurement process with the membrane vendor leading to a revised procurement schedule. Terms and conditions discussions are ongoing. HMIS new lower procurement notification thresholds, and negotiations of Terms and Conditions are driving a projected delay in Membrane Contract award and downstream install activities. BCR processed in the month of May to incorporate impacts known to date for future BCWS. Based on the BCR, the forecasted completion date for awarding membrane and processing equipment procurement & fabrication contract (L897-6520A) moved from 06/2021 to 08/2021 and the forecasted completion date for notice to commence manufacture (L897-1404) moved from 08/2021 to 10/2021. The procurement consent package has been drafted; activity L897-1404 has moved out to 11/2021.	Recovery Action(s)	FC Date	%	HMIS Procurements negotiate with vendor.	Ongoing	NA	Award membrane and processing equipment procurement & fabrication contract (L897-6520A).	09/2021	97.5	Notice to commence manufacture (L897-1404).	11/2021	0
Recovery Action(s)	FC Date	%													
HMIS Procurements negotiate with vendor.	Ongoing	NA													
Award membrane and processing equipment procurement & fabrication contract (L897-6520A).	09/2021	97.5													
Notice to commence manufacture (L897-1404).	11/2021	0													

SECTION B

Unmitigated Risk Impacts	Assessment		Comments																		
	Month	Trend																			
L897 - Central Plateau Water Treatment Facility - Project Risks																					
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed.)																					
<p>L897-0017-T: Change orders, RCIs, DCNs or change orders.</p> <p>Legacy Risk #: 2054</p>	<p>If there is an abnormal amount of change orders, Request for Clarification or Information (RCIs), Design Change Notices (DCNs), or change orders, then project will be impacted.</p> <p>Risk Handling Strategy: Accept</p> <p>Probability: Somewhat Likely (50%)</p> <p>Worst Case Impacts: \$300K, 48 days</p>	 	<p>Risk Trigger: Abnormal amount of RCIs, DCNs or change orders will increase project schedule and create delays</p> <table border="1"> <thead> <tr> <th>Mitigation Action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Complete a sound and well written FRDC, encourage detail from all reviewers.</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Develop a well written SOW that clearly details the scope and end result of the project.</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Encourage questions and exchanges during RFP that will eliminate change orders, RCIs and/or DCNs later. Clearly write in RFP the review times for change orders, RCIs and DCNs for all parties to limit delays in responses.</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Maintain open communication with design/construction subcontractor to allow for exchanges to happen organically.</td> <td>Ongoing</td> <td>NA</td> </tr> <tr> <td>Provide change order, RCI and DCN responses within timeframe identified in RFP.</td> <td>Ongoing</td> <td>NA</td> </tr> </tbody> </table> <p>Mitigation Action Assessment: No major changes in the month of September. There have been numerous communication issues with A/E reaching out to membrane vendor and incorporating the membrane specs into the project design. The project has implemented ongoing increased communication with the design and construction subcontractors to minimize future potential impacts. All change order, RCI, and DCN responses are provided within the timeframe identified in the RFP. The A/E didn't meet the FRDC water demand documented in Pall RCI 30, driving the necessity of a 4th membrane rack. Contracts continues being diligent on reviewing claims from the A/E and has requested back up to support the labor rates they are charging. MSA negotiated down the A/E labor claims resulting in November 2020's BCR VM5A-21-007. HMIS is currently reviewing a backlog of construction sub-contractor pre-mobilization submittals.</p>	Mitigation Action(s)	FC Date	%	Complete a sound and well written FRDC, encourage detail from all reviewers.	Complete	100	Develop a well written SOW that clearly details the scope and end result of the project.	Complete	100	Encourage questions and exchanges during RFP that will eliminate change orders, RCIs and/or DCNs later. Clearly write in RFP the review times for change orders, RCIs and DCNs for all parties to limit delays in responses.	Complete	100	Maintain open communication with design/construction subcontractor to allow for exchanges to happen organically.	Ongoing	NA	Provide change order, RCI and DCN responses within timeframe identified in RFP.	Ongoing	NA
Mitigation Action(s)	FC Date	%																			
Complete a sound and well written FRDC, encourage detail from all reviewers.	Complete	100																			
Develop a well written SOW that clearly details the scope and end result of the project.	Complete	100																			
Encourage questions and exchanges during RFP that will eliminate change orders, RCIs and/or DCNs later. Clearly write in RFP the review times for change orders, RCIs and DCNs for all parties to limit delays in responses.	Complete	100																			
Maintain open communication with design/construction subcontractor to allow for exchanges to happen organically.	Ongoing	NA																			
Provide change order, RCI and DCN responses within timeframe identified in RFP.	Ongoing	NA																			
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)																					
<p>L897-0016-T: Attrition, staffing reductions.</p> <p>Legacy Risk #: 2053</p>	<p>If attrition or staffing reductions result in staffing turnover during the project, then efficiency will be impacted, resulting in schedule delays.</p> <p>Risk Handling Strategy: Accept</p> <p>Probability: Somewhat Likely (26%)</p> <p>Worst Case Impacts: \$0, 48 days</p>	 	<p>Risk Trigger: Key project position staff turnover may impact project schedule.</p> <table border="1"> <thead> <tr> <th>Mitigation Action(s)</th> <th>FC Date</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Identify key personnel during planning.</td> <td>Complete</td> <td>100</td> </tr> <tr> <td>Establish back up and alternates for key project positions to reduce impacts.</td> <td>Ongoing</td> <td>NA</td> </tr> <tr> <td>Maintain good documentation in the event a non-coordinated work turnover occurs.</td> <td>Ongoing</td> <td>NA</td> </tr> </tbody> </table> <p>Mitigation Action Assessment: No major changes in the month of September. With little exception, key personnel positions have alternates and project documentation has reduced the impact of staff attrition.</p>	Mitigation Action(s)	FC Date	%	Identify key personnel during planning.	Complete	100	Establish back up and alternates for key project positions to reduce impacts.	Ongoing	NA	Maintain good documentation in the event a non-coordinated work turnover occurs.	Ongoing	NA						
Mitigation Action(s)	FC Date	%																			
Identify key personnel during planning.	Complete	100																			
Establish back up and alternates for key project positions to reduce impacts.	Ongoing	NA																			
Maintain good documentation in the event a non-coordinated work turnover occurs.	Ongoing	NA																			

SECTION B



Unmitigated Risk Impacts	Assessment		Comments
	Month	Trend	
L897 - Central Plateau Water Treatment Facility - Project Risks			
Unassigned Risks (Pending ownership of identified risks/opportunities)			
<p>L897-0043-T: Delayed External Review and Approval Cycles.</p> <p>Legacy Risk # L897-0004-T (2051)</p>	<p>HMIS Comment: Project L-897 has been defined as a potential Reportable General Plant Project (GPP). As the project has progressed and become more defined, the Total Estimated Cost (TEC) is now expected to exceed the GPP threshold of \$20M. Due to this, L-897 is now required to be executed as a Capital Line Item Project consistent with the principles and provisions in DOE 413.3B "Program and Project Management for the Acquisition of Capital Assets". During the development of the Project Data Sheet (PDS), it was established that Risk # L897-0004-T was not within HMIS's ability to manage and the risk was tentatively transferred to DOE-RL, pending official transfer and acceptance via correspondence control and DOE-RL.</p> <p>Ecology has indicated that they have not completed their NOC internal review and initiated the public comment period. One of the positions for the reviewers is currently vacant, and it is assumed they would need to include the Nuclear Waste Program Manager (i.e., Richland Office Program Manager). Ecology presumes that this individual is very busy and is getting up to speed on things as they are a new employee. This delay is forecast to impact NOC approval by 12-weeks. Delays in NOC approval from Department of Ecology could drive cost impacts in commodities.</p> <p>The public notice comment period was scheduled for 6/10/2021 and was not met. Ecology initiated public comment period for the combined Notice of Construction (NOC) application (July 20th - August 19th). Ecology initiated public comment period for the TEDF Discharge Permit mod (June 28th - August 26th).</p>		
<p>L897-0048-T: Enabling assumption: Insufficient Funding</p> <p>Legacy Risk # DOEL897-0009-T</p>	<p>Enabling assumption: Funding may not be sufficient to maintain the Performance Measurement Baseline (PMB) budget.</p> <p>HMIS Comment: Reliability Project Task Order (RPTO)-02 is forecasted to be submitted to DOE-RL in September 2021. After submittal, DOE-RL will accept the proposal or open negotiations with HMIS.</p>		
<p>L897-0049-T: COVID-19 Delays Resuming or a Resurgence After Resumption Causes Further Delays</p> <p>Legacy Risk # DOEL897-0010-T</p>	<p>There is a possibility that the L-897 project resumption is delayed due to COVID-19 on going trends or resurgence resulting in schedule delays. If a resurgence were to occur after the resumption, the project may also experience delays if the site reverses phases.</p> <p>HMIS Comment: An email correspondence from Brian Vance to All Hanford Site Employees with the subject "Implementing Revised CDC Guidance for Fully Vaccinated Members of our Hanford Team" was released on 6/8/2021. In the email it stated Hanford would follow the revised CDC guidance starting 6/11/2021, including fully vaccinated workforce members returning to the worksite without masks with a few exceptions.</p>		
<p>L897-0050-T: Novel Viral Pandemic (COVID-19 Impacts Project Performance)</p> <p>Legacy Risk # DOEL897-0011-T</p>	<p>Unprecedented change in work practices/procedures (e.g. social distancing requirements) because of the novel coronavirus COVID-19 pandemic impact project performance, resulting in cost and schedule impacts.</p> <p>HMIS Comment: An email correspondence from Brian Vance to All Hanford Site Employees with the subject "Implementing Revised CDC Guidance for Fully Vaccinated Members of our Hanford Team" was released on 6/8/2021. In the email it stated Hanford would follow the revised CDC guidance starting 6/11/2021, including fully vaccinated workforce members returning to the worksite without masks with a few exceptions.</p>		

5.8 HMIS L-907 Project Key Risks

- **BCRs:** No BCRs were processed in September that impact the project’s MR or SM profile.
- **Risk Analysis:** No risks analysis conducted in September.
- **Current Risk Posture:**

Table B-16. L-907 Risk Posture

Period	Realized	Key	Opened	Closed	Unassigned	Total Risks
August	0	0	0	0	0	2
September	0	0	0	0	0	2

Table B-17. L-907 Key Risks

Unmitigated Risk Impacts	Assessment		Comments
	Month	Trend	
L934 – MSC Office Space Gap Reduction – 200E Area - Project Risks			
Explanation of major changes to the program monthly stoplight chart: No major changes to the Stoplight Chart in September .			
Realized Risks (Risks that are currently impacting project cost/schedule)			
No Realized Risks identified in September .			
Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed.)			
No Critical Risk identified in September .			
High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)			
No High Risks identified in September .			
Unassigned Risks (Pending ownership of identified risks/opportunities)			
No Unassigned Risks identified in September .			

6.0 BASELINE CHANGE REQUESTS

In September, HMIS approved and implemented the following Reliability Project BCR into the CPB:

BCR-HMS-21-020 - Implement FY 2022 Replan for the PMB. This BCR aligned the HMIS FY 2022 work plan to the latest execution strategy for the PMB.

The below table reflects upcoming BCRs.

Table B-18. Upcoming Baseline Change Requests

Project	BCR Scope	Target Implementation Month	Summary of Change
Multiple	PMB	Oct-21	FY2022 Base Year Shift/Forward Pricing Rates. This BCR implements a blended composite labor rate structure provided by Hanford Mission Integration Solutions’ (HMIS) Business Administration and Integration department for planning purposes starting in FY 2022.

7.0 FUNDS ANALYSIS

Table B-19. IIP Funding Status for Reliability Project

HMIS FY 2021 Integrated Investment Portfolio Funding Status Reliability Project - September FY 2021 (\$000)													
CLIN	Task Order	Fund Source	IIP FYTD	FYTD ACWP	Spending Variance	* Funds Received	Remaining Available Funds	** RL Expected Funding	Total EAC	Uncosted Balance	Encum Carryover	Hold Backs	Unencum Balance
CLIN 4	N/A	RL-0020	4,009.4	258.4	3,751.0	4,114.5	3,856.1	4,009.4	258.4	3,751.0	3,750.5		0.5
CLIN 4	N/A	RL-0201	28,262.3	17,348.9	10,913.4	36,122.7	18,773.8	44,964.1	17,348.9	27,615.2	11,193.5	16,023.0	398.7
CLIN 7	RPTO-008	RL-0020	516.7	482.1	34.6	516.7	34.6	516.7	482.1	34.6			34.6
CLIN 7	RPTO 002	RL-0201	12,437.0	4,179.7	8,257.3	15,080.3	10,900.6	12,437.0	4,179.7	8,257.3	8,287.7		(30.4)
CLIN 7	RPTO 005	RL-0201	1,630.9	1,468.4	162.5	1,712.0	243.6	1,630.9	1,468.4	162.5			162.5
CLIN 7	RPTO 006	RL-0201	1,177.4	678.4	499.0	1,443.0	764.6	1,177.3	678.4	498.9	453.2		45.7
CLIN 7	RPTO 007	RL-0201	794.0	513.8	280.2	818.0	304.2	794.0	513.8	280.2			280.2
CLIN 7	RPTO 008	RL-0201	330.4	280.8	49.6	280.4	(0.4)	330.4	280.8	49.6			49.6
CLIN 7	UF	RL-0201			-		-	516.7		516.7		1,024.3	(507.6)
CLIN 7	Fee	RL-0201	1,787.8		1,787.8		-	1,787.8		1,787.8	1,787.8		-
		TOTAL	50,945.9	25,210.5	25,735.4	60,087.6	34,877.1	68,164.3	25,210.5	42,953.8	25,472.7	17,047.3	433.8

* Funds received through Contract Mod P00110 dated September 29, 2021

** RL Expected Funding thru CBAG Rev 3 and revised Integrated Investment Portfolio (IIP) sent to DOE-RL on August 27 2021.

Spending Variance Analysis: The variance is primarily due to Project L-919, Emergency Radio Upgrade - delays to contract award and material receipts which have delayed construction execution, L-897, Central Plateau Water Treatment Facility - membrane procurement contract delayed, L-720, Outdoor Lighting Reconfiguration delayed due to lack of Radiological Control resources, L-907, Fleet Complex Development under due to milestone payment being delayed and contract awarded for less than planned and L-819, High Capacity Fiber Optic (300 Area) - Fiber procurement to be received in FY22. The underrun in RL-0201 (Reliability Project - CLIN 7) is primarily due to Project L-897, Central Plateau Water Treatment Facility had a delay in Notice of Construction application approvals and Membrane procurement award resulting in less costs than planned and Project L-895, Fire Protection Infrastructure for PRW had a delay in awarding the A/E subcontract and switchgear impacts.

Uncosted Balance: The \$43M uncosted balance is primarily due to L-612, 230kV Transmission System Reconditioning and Sustainability Repairs in which \$15M being held back pending DOE-RL direction and is funding specifically held for Project L-612. Fee in CLIN 7 was not negotiated and therefore not accrued; however, will carry over into FY22 pending approved task orders. A portion of the uncosted balance is for Encumbered Carryover scope totaling \$25M that will complete in FY22.

Table B-20. Key Milestones

TO	Project	Description	Initial Submittal Date*
RPTO-002	L-839, L-850, L-897	Task Order Submittal	10/12/21
RPTO-005	L-934	Task Order Submittal	4/08/21
RPTO-006	L-894, L-895	Task Order Submittal	4/29/21
RPTO-007	L-801, L-905	Task Order Submittal	6/09/21
RPTO-008	L-921	Task Order Submittal	8/03/21

8.0 MAJOR ISSUES

Project L-895 was notified that the installed National Electrical Manufacturers Association (NEMA) 3R Switchgear Enclosures were not suitable for the environment. The construction specification specified NEMA 4 Enclosures. A root cause analysis is being performed. Cost and schedule estimates for recovery from this situation have been developed and incorporated into the HMIS baseline.

Reliability Projects may face a \$6M to \$10M in reduction of available funding to offset a smaller than anticipated funding level for FY 2022.

9.0 DOE ACTIONS/DECISIONS

Table B-21. Upcoming DOE Actions/Decisions

Action Item	Due Date
Provide CD-0 approval for Projects L-781, 826, 940 and 941	As soon as possible, to support FY 23 and FY 24 Budget Requests and FY 22 PEMP Item for Performing Conceptual Design for Projects L-940 and 941
Obtain Project L-888 NOC Approval Order from WDOE	3/29/22
Provide Task Order with Notice to Proceed and Not to Exceed for Project L-819 Construction Activities	3/22/22
Provide a Task Order (or Orders) for Proposal for the following Projects: <ol style="list-style-type: none"> 1. L-838 2. L-781 3. L-826 4. L-927 5. L-928 6. L-908 7. L-909 8. L-898 	4/1/22
Provide FY 22 CBAG	As soon as possible

10.0 GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

See Table 8 of Section 11.0, *GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)* – Executive Summary

11.0 RELIABILITY PROJECTS

Additional Reliability Project specific information/data is available upon request.

Appendix A

Contract Performance Reports

Format 1 – Work Breakdown Structure

Format 3 – Baseline

Format 5 – Explanation and Problem Analysis

APPENDIX A



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

CONTRACT PERFORMANCE REPORT FORMAT 1 - WORK BREAKDOWN STRUCTURE														
DOLLARS IN Thousands										FORM APPROVED OMB No. 0704-0188				
1. CONTRACTOR		2. CONTRACT			3. PROGRAM			4. REPORT PERIOD						
a. NAME Hanford Mission Integration Solutions b. LOCATION (Address and Zip Code) Richland, WA 99352		a. NAME Hanford Mission Essential Services Contract b. NUMBER 89303320DEM000031 c. TYPE CR, CPAP & IDIQ			a. NAME Hanford Mission Essential Services Contract b. PHASE Operations c. EVMS ACCEPTANCE No X Yes			a. From 2021/08/23 b. To 2021/09/30						
5. CONTRACT DATA														
a. QUANTITY		b. NEGOTIATED COST		c. ESTIMATED COST OF AUTHORIZED UNPRICED WORK		d. TARGET PROFIT/FEE		e. TARGET PRICE		f. ESTIMATED PRICE		g. CONTRACT CEILING	h. ESTIMATED CONTRACT CEILING	i. DATE OF OTS/OTS
N/A		\$3,755,527		\$157,201		\$251,622		\$4,007,149		\$4,192,189		4,007,149	4,192,189	N/A
6. ESTIMATED COST AT COMPLETION														
7. AUTHORIZED CONTRACTOR REPRESENTATIVE														
a. NAME (Last, First, Middle Initial) Wilkinson, Robert E														
b. TITLE President & General Manager														
c. SIGNATURE ROBERT WILKINSON (Affiliate)														
d. DATE SIGNED Digitally signed by ROBERT WILKINSON (Affiliate) Date: 2021.10.25 05:00:37 -0700														
8. BEST CASE \$3,912,729														
9. WORST CASE \$4,137,596														
10. MOST LIKELY \$3,940,567														
11. VARIANCE (27,839)														
B. PERFORMANCE DATA														
Item (1)	Current Period				Cumulative to Date				At Completion					
	Budgeted Cost Scheduled (2)	Work Performed (3)	Actual Cost Performed (4)	Variance Schedule (5)	Cost (6)	Budgeted Cost Scheduled (7)	Work Performed (8)	Actual Cost Performed (9)	Variance Schedule (10)	Cost (11)	Budgeted (12)	Estimated (13)	Variance (14)	
a. WORK BREAKDOWN STRUCTURE ELEMENT														
4001.01.01 - Contract Transition	0	0	1	0	(1)	6,405	6,405	6,406	0	(1)	6,405	6,406	(1)	
CLIN 1 Subtotal	0	0	1	0	(1)	6,405	6,405	6,406	0	(1)	6,405	6,406	(1)	
4001.03.01 - Legacy Benefit Plans	27,619	27,619	2,227	0	25,393	52,695	52,695	46,696	0	5,999	439,932	448,229	(8,296)	
CLIN 3 Subtotal	27,619	27,619	2,227	0	25,393	52,695	52,695	46,696	0	5,999	439,932	448,229	(8,296)	
4001.04.01 - Utilities & Infrastructure	4,329	4,329	4,503	0	(174)	26,348	26,348	24,337	0	2,011	324,354	323,920	435	
4001.04.02 - Transportation	75	75	38	0	39	405	405	294	0	111	917	828	89	
4001.04.03 - Safeguards & Security	6,716	6,746	7,338	31	(592)	41,216	41,160	47,024	(56)	(5,863)	583,318	598,097	(14,779)	
4001.04.04 - Emergencies & First Responders	4,256	4,231	3,636	(25)	595	25,722	25,672	23,124	(50)	2,548	293,613	296,940	(3,327)	
4001.04.05 - Training & Workforce Readiness	1,196	1,196	1,080	0	116	7,226	7,226	7,202	0	25	98,365	98,923	(558)	
4001.04.06 - Information Technology & Mgmt	4,205	4,216	5,394	11	(1,178)	25,915	25,892	23,787	(23)	2,105	301,098	301,261	(163)	
4001.04.07 - Business Services	1,313	1,313	1,059	0	254	7,936	7,936	6,936	0	1,000	117,332	117,245	87	
4001.04.08 - Real Property Asset Mgmt	1,943	1,826	2,212	(17)	(386)	13,816	13,165	13,819	(651)	(2,654)	145,640	149,211	(3,571)	
4001.04.09 - Environmental Stewardship & Mgmt	872	872	646	0	225	4,793	4,793	3,996	0	797	46,115	45,049	1,066	
4001.04.10 - Environmental Integration	2,503	2,503	2,566	0	(63)	15,125	15,125	13,764	0	1,361	193,299	192,952	347	
4001.04.11 - Safety & QA	2,516	2,516	2,833	0	(318)	15,637	15,637	16,832	0	(1,195)	247,041	249,014	(1,973)	
4001.04.12 - General Performance Requirements	6,890	6,790	6,031	(100)	759	51,327	51,227	48,993	(100)	2,334	284,344	283,281	1,063	
4001.07.01 - IRP - Water System	1,277	1,294	1,195	17	100	5,914	5,121	4,793	(793)	329	19,487	20,661	(1,174)	
4001.07.02 - IRP - Sewer System	0	18	17	18	0	133	119	150	(14)	(31)	133	152	(19)	
4001.07.03 - IRP - Electrical System	987	691	582	(296)	108	8,846	8,400	7,088	(446)	1,312	12,248	11,117	1,131	
4001.07.04 - IRP - Roads & Grounds	0	0	(8)	0	8	68	68	92	0	(24)	3,219	3,312	(93)	
4001.07.05 - IRP - Facility System	707	591	419	(116)	172	3,412	3,350	2,539	(873)	811	5,796	4,084	1,712	
4001.07.06 - IRP - Network & Telecom System	(73)	412	471	485	(59)	2,112	2,150	2,084	39	66	10,176	9,898	277	
CLIN 4 Subtotal	39,618	39,618	40,012	8	(394)	253,921	251,795	246,853	(2,126)	4,942	2,686,496	2,706,544	(20,048)	
4001.05.01 - DOE Small Business Pre-Award Support	28	28	(0)	0	28	149	149	11	0	138	2,156	2,017	138	
CLIN 5 Subtotal	28	28	(0)	0	28	149	149	11	0	138	2,156	2,017	138	
4001.07.01 - IRP - Water System	807	372	470	(435)	(98)	4,407	4,105	4,858	(302)	(753)	28,958	28,554	404	
4001.07.03 - IRP - Electrical System	113	23	59	(90)	(37)	378	378	514	0	(136)	491	624	(133)	
4001.07.05 - IRP - Facility System	0	0	(179)	0	179	1,631	1,631	1,468	0	163	1,631	1,468	163	
4001.07.06 - IRP - Network & Telecom System	0	2	28	2	(26)	652	652	763	0	(111)	652	763	(111)	
4001.07.97 - IRP - Out-Year Summary Level Planning Package	0	0	0	0	0	0	0	0	0	0	327,366	327,366	(0)	
CLIN 7 Subtotal	920	396	378	(523)	18	7,068	6,767	7,603	(302)	(837)	359,097	358,775	322	
4001.08.01 - DOI Directed Work Scope	35	35	441	0	(406)	2,968	2,968	2,996	0	(29)	2,968	2,996	(29)	
4001.08.03 - Portfolio Management Task Orders	0	0	(0)	0	0	21	21	13	0	8	21	13	8	
4001.08.97 - DDWS - Out-Year Summary Level Planning Package	0	0	0	0	0	0	0	0	0	0	200,264	200,196	68	
CLIN 8 Subtotal	35	35	441	0	(406)	2,989	2,989	3,009	0	(21)	203,253	203,205	47	
b. COST OF MONEY														
c. GENERAL AND ADMINISTRATIVE														
d. UNDISTRIBUTED BUDGET														
e. SUBTOTAL														
f. MANAGEMENT RESERVE														
g. TOTAL														
h. RECONCILIATION TO CONTRACT BUDGET BASE														
i. VARIANCE ADJUSTMENT														
j. TOTAL CONTRACT VARIANCE														

2.0 FORMAT 3, DD FORM 2734/3, BASELINE

CONTRACT PERFORMANCE REPORT FORMAT 3 - BASELINE															DOLLARS IN Thousands		FORM APPROVED OMB No. 0704-0188	
1. Contractor			2. Contract				3. Program			4. Report Period								
a. Name Hanford Mission Integration			a. Name Hanford Mission Essential Services Contract				a. Name Hanford Mission Essential Services			a. From (2021/08/23)								
b. Location (Address and Zip Code) Richland, WA 99352			b. Number 89303320DEM000031				b. Phase Operations			b. To (2021/09/30)								
			c. TYPE CR, CPAF & IDIQ		d. Share Ratio N/A		c. EVMS ACCEPTANCE No X Yes											
5. CONTRACT DATA																		
a. ORIGINAL NEGOTIATED COST \$3,750,727			b. NEGOTIATED CONTRACT CHANGES \$4,800		c. CURRENT NEGOTIATED COST (a+b) \$3,755,527		d. ESTIMATED COST OF UNAUTHORIZED UNPRICED WORK \$157,201			e. CONTRACT BUDGET BASE (C+D) \$3,912,729		f. TOTAL ALLOCATED BUDGET \$3,912,729		g. DIFFERENCE (E - F) \$0				
h. CONTRACT START DATE 2020/8/17			i. CONTRACT DEFINITIZATION DATE 2019/12/5			j. PLANNED COMPLETION DATE 2030/8/16			k. CONTRACT COMPLETION DATE 2030/8/16		l. ESTIMATED COMPLETION DATE 2030/8/16							
6. PERFORMANCE DATA																		
ITEM (1)	BCWS CUMULATIVE TO DATE (2)	BCWS FOR REPORT PERIOD (3)	BUDGETED COST FOR WORK SCHEDULED (BCWS) (Non-Cumulative)												UNDISTRIBUTED BUDGET (14)	TOTAL BUDGET (15)		
			Six Month Forecast By Month						Remaining Forecast By Month & Fiscal Year									
			OCT FY22 (4)	NOV FY22 (5)	DEC FY22 (6)	JAN FY22 (7)	FEB FY22 (8)	MAR FY22 (9)	Remaining FY22 (10)	BP FY23-25 (11)	OP1 FY25-28 (12)	OP2 FY28-30 (13)						
a. PERFORMANCE MEASUREMENT BASELINE (Beginning of Period)	300,653	45,607	21,601	28,736	26,501	21,007	21,660	29,113	157,332	866,450	924,691	1,191,827	217,035	3,806,606				
b. BASELINE CHANGES AUTHORIZED DURING REPORT PERIOD	22,604	22,604	724	8,119	8,730	10,619	9,161	15,061	66,616	(14,309)	0	(19,559)	(1,645)	106,122				
c. PERFORMANCE MEASUREMENT BASELINE (End of Period)	323,257	68,211	22,325	36,855	35,231	31,627	30,821	44,174	223,947	852,140	924,691	1,172,269	215,391	3,912,729				
7. MANAGEMENT RESERVE													0	0				
8. TOTAL	323,257	68,211	22,325	36,855	35,231	31,627	30,821	44,174	223,947	852,140	924,691	1,172,269	215,391	3,912,729				

1. Contractor	2. Contract	3. Program	4. Report Period
a. Name Hanford Mission Integration Solutions, LLC	a. Name Hanford Mission Essential Services Contract	a. Name Hanford Mission Essential Services Contract	a. From (2021/08/23)
b. Location (Address and Zip Code) PO Box Richland, WA 99352	b. Number-89303320DEM00031	b. Phase - Operations	b. To (2021/09/30)
	c. Type CR, CPAF, IDIQ	d. Share Ratio	
Evaluation			

3.0 FORMAT 5, DD FORM 2734/5, EXPLANATIONS AND PROBLEM ANALYSIS

(\$K) - September	BCWS	BCWP	ACWP	SV \$	SV %	CV \$	CV %	SPI	CPI
Current:	\$ 68,211	\$ 67,696	\$ 43,059	\$ (516)	-0.8%	\$ 24,636	36.4%	0.99	1.57
Cumulative:	\$ 323,257	\$ 320,800	\$ 310,579	\$(2,458)	-0.8%	\$ 10,221	3.2%	0.99	1.03
	BAC	EAC	VAC \$	VAC %	TCPI				
At Completion:	\$3,912,729	\$ 3,940,567	\$ (27,839)	-0.7%	0.99				

Explanation of Variance /Description of Problem:

Current Month (CM) Schedule Variance (SV):

The unfavorable CM SV is (-\$516K) or (-0.8%) primarily driven by:

(-\$418K) 4001.07.01 - IRP - Water System - The unfavorable CM SV is primarily driven by realization of BCWS in the current period for scope that was completed and BCWP earned in a prior period for:

- 1) The L-839, 12in Potable Water Loop Line to WTP pipe installation from station 13+40 to station 134+45.
- 2) Early receipt of support equipment / materials for the L-850, Replace 200W 1.1M-gal PW Tank.
- 3) Early installation of Uninterrupted Power Supply (UPS) in 283W control room building for L-895, Fire Protection Infrastructure for PRW.

(-\$386K) 4001.07.03 - IRP - Electrical System - The unfavorable CM SV is primarily driven in L-801, Upgrade SCADA by delays with executing the Remote Terminal Unit (RTU) Install #4 and RTU Construction Acceptance Test (CAT) #6 (at 451B Substation) due to a DOE request to perform a new Cyber Risk Assessment and Analysis for a revised Authority to Operate (ATO). This will delay the final RTU Install and CAT (at 451B Substation) into April/May and the final ATO into May/June of FY22. Cyber Risk Assessment schedule impacts were incorporated into the task order proposal. CLIN 4 impacts are considered AUW and will be captured in future REA.

In addition, L-789, Priority T&D Sys Wood PP Test & Replace was impacted due to a BCR to replan CPCCo's disposal effort of the waste generated by L-789 within the Plutonium Finishing Plant (PFP) Radiological Buffer Area (RBA).

1. Contractor	2. Contract	3. Program	4. Report Period
a. Name Hanford Mission Integration Solutions, LLC	a. Name Hanford Mission Essential Services Contract	a. Name Hanford Mission Essential Services Contract	a. From (2021/08/23)
b. Location (Address and Zip Code) PO Box Richland, WA 99352	b. Number-89303320DEM00031	b. Phase - Operations	b. To (2021/09/30)
	c. Type CR, CPAF, IDIQ	d. Share Ratio	
Evaluation			

(+\$487K) 4001.07.06 - IRP - Network & Telecom System - The favorable CM SV is primarily driven by:

1) L-919, Emergency Radio Upgrade BCR implementation in the current period which made an adjustment to the budget for the ES-LAN activities that were originally planned for summer but were delayed due to resource availability within the IM group. Scope was replanned for October through December FY22.

2) L-937, Gable East Footprint Reduction (Phase 1) schedule recovered by completing work that was planned in prior fiscal months, including Radio Services Construction, Air Sampling Unit (Wind Cube) installation and training, HSEAS (Hanford Site Emergency Alert System) Equipment relocation, and Seismic Stations Material/Equipment purchases.

Impacts – For Water Systems a BCR was implemented in the current month which made an adjustment to the BCWS in the current period for scope that was completed and BCWP earned in a prior period. The Electrical System baseline is impacted and has been incorporated into the task order proposal and will be captured in a future REA.

Corrective Action – No corrective actions are needed for Water Systems as both BCWS & BCWP are properly being reported for CTD. For Electrical Systems, once the REA is approved a future BCR will be processed to properly plan out the revised project completion.

Current Month (CM) Cost Variance (CV):

The favorable CM CV is (+\$24,636K) or (+36.4%) primarily driven by:

(+\$25,393K) 4001.03.01 - Legacy Benefit Plans - The favorable CM CV is primarily due to approval and implementation of BCR-HMS-21-049 which redistributed CLIN 3 budget to align with Rocky Flats Legacy Benefits Claim from WRPS that occurred in the month of July.

(-\$592K) 4001.04.03 - Safeguards & Security (SES) – The unfavorable CM CV is primarily due labor overruns driven by non-standard shifts worked by Patrol Security Forces, which were not included in the HMESC proposal, and subcontractor overruns. Increased subcontractor support is needed to accommodate various SES initiatives for software development and testing, infrastructure and facility upgrades, and records reduction.

(+\$595K) 4001.04.04 - Emergencies & First Responders – The favorable CM CV is primarily due to the upfront time phasing of budget associated with prime contract Material Differences (MDs) and the Hanford Fire Department (HFD) Baseline Needs Assessment. Also, prior year(s) acquisitions and equipment replacement reduced the need for material purchases in FY21. Revenue offsets for Fire and Emergency Services provided to LIGO and Energy Northwest was not bid or budgeted in the PMB. The underrun is partially offset by labor overruns driven by non-standard shifts, worked by platoon firefighters, that were not bid in the proposal.

1. Contractor	2. Contract	3. Program	4. Report Period
a. Name Hanford Mission Integration Solutions, LLC	a. Name Hanford Mission Essential Services Contract	a. Name Hanford Mission Essential Services Contract	a. From (2021/08/23)
b. Location (Address and Zip Code) PO Box Richland, WA 99352	b. Number-89303320DEM00031	b. Phase - Operations	b. To (2021/09/30)
	c. Type CR, CPAF, IDIQ	d. Share Ratio	
Evaluation			

(-\$1,178K) 4001.04.06 - Information Technology & Mgmt. – The unfavorable CM CV is primarily driven by the payment of year end license maintenance renewals in the month of September when the budget for procurements were level-loaded across the year causing a CM overrun, in addition, higher than planned subcontract costs is being experienced to cover the North Wind support to various IT scopes.

(-\$386K) 4001.04.08 - Real Property Asset Mgmt. – The unfavorable CM CV is primarily due to higher Program Management support to the program than was originally bid in the proposal. Also, Fire System Maintenance (FSM) Preventive Maintenance (PMs) support is experiencing high volumes of PMs than originally planned due to the high priority on completing these PMs.

(+\$225K) 4001.04.09 – Environmental Stewardship & Mgmt. – The favorable CM CV is primarily due to less labor experienced for Mission Assurance Program Management than planned due to less support needed for the Northwind subcontract.

(-\$318K) 4001.04.11 – Safety & QA – The unfavorable CM CV is primarily due in labor as the proposal assumed staffing efficiencies. Instead RL directed HMIS to maintain existing staffing levels that are higher than the planned levels and the overrun is anticipated to continue.

(+\$759K) 4001.04.12 - General Performance Requirements - The favorable CM CV is primarily due to Request for Services (RFS) scope for HFD Fire and Ambulance Support that was originally baselined in CLIN 8 but later transferred to CLIN 4 per direction from RL. During the transfer, all the budgets was placed in September thus creating a current month underrun with the CTD variance equaling zero.

(+\$351K) 4001.07.05 - IRP - Facility System - The favorable CM CV has two primary drivers:

- 1) Labor and subcontract efficiencies for Project Delivery Support for construction in support of the L-934, MSC Office Space Gap Reduction - 200E scope has created an underrun.
- 2) L-907, Fleet Complex Site Development 30% conceptual design milestone subcontract being awarded for less than originally budgeted. Conceptual design will continue to incur cost savings. An overall variance at completion for L-907 is expected as project will continue to see savings during definitive design phase.

(-\$406K) 4001.08.01 - DOE Directed Work (DDWS) Scope – The unfavorable CM CV is primarily due to DDWS scope that was only budgeted for 6 months. This was due to the expectations that all CLIN 8 scope would be negotiated within that time frame, but that did not occur. Several of the scope items were negotiated in late September and a BCR will be processed in October to definitize and align scope of work with contract.

Impacts – N/A

Corrective Action – N/A

1. Contractor	2. Contract	3. Program	4. Report Period
a. Name Hanford Mission Integration Solutions, LLC	a. Name Hanford Mission Essential Services Contract	a. Name Hanford Mission Essential Services Contract	a. From (2021/08/23)
b. Location (Address and Zip Code) PO Box Richland, WA 99352	b. Number-89303320DEM00031	b. Phase - Operations	b. To (2021/09/30)
	c. Type CR, CPAF, IDIQ	d. Share Ratio	
Evaluation			

Cumulative To Date (CTD) Schedule Variance (SV):

The unfavorable CTD SV is (-\$2,458K) or (-0.8%) primarily driven by:

(-\$651K) 4001.04.08 - Real Property Asset Mgmt. – The unfavorable CTD SV is driven by delays due to resource availability (lineman) to perform planned H-006 10 CFR 851 site outages scope as well as the Other Hanford Contractors (OHCs) schedule changes affecting planned outages. The schedule has now shifted to FY22.

(-\$1,095K) 4001.07.01 - IRP - Water System - The unfavorable CTD SV is primarily driven by L-897, Central Plateau Water Treatment Facility (-\$956k) which has two major drivers:

1) Delayed award of the membrane and processing equipment fabrication subcontract. The membrane and processing equipment subcontract was planned to be awarded in March but was awarded in September due to having to go through the full procurement process again post-transition, extensive terms and conditions negotiations, and DOE consent package threshold changes. This has delayed the subcontractor prefabrication submittal development milestone (\$674k), leading to an unfavorable CTD schedule variance.

2) Delay to construction field work mobilization driven by Notice of Construction (NOC) application approval. NOC application was approved in September and mobilization occurred shortly after.

Impacts – The CTD reflects an unfavorable schedule variance. The 10 CFR 851 scope has been deferred to FY22 per discussions with the Other Hanford Contractors (OHCs). The Reliability Projects (RPs) associated with Water Systems are working with Ecology and expect to have agreement in late September and start the mobilization process in October.

Corrective Action – Schedule recovery for the 10 CFR 851 scope and the RPs Water Systems will occur in FY22.

Cumulative To Date (CTD) Cost Variance (CV):

The favorable CTD CV is (+\$10,221K) or (+3.2%) primarily driven by:

(+\$5,999K) 4001.03.01 - Legacy Benefit Plans - The favorable CTD CV is primarily due to the transitioning of plans from prior entity (WRPS) mid-year and claims being less than what had been planned for this new contract scope. Revenue was also higher than originally planned which increased the favorable variance.

(+\$2,011K) 4001.04.01 - Utilities & Infrastructure - The favorable CTD CV is primarily in Sewer Systems which is due to lack of resources available during normal working hours; high turnover in several resource categories (e.g., Electricians), numerous impacts from COVID and various craft/staff vacations.

1. Contractor	2. Contract	3. Program	4. Report Period
a. Name Hanford Mission Integration Solutions, LLC	a. Name Hanford Mission Essential Services Contract	a. Name Hanford Mission Essential Services Contract	a. From (2021/08/23)
b. Location (Address and Zip Code) PO Box Richland, WA 99352	b. Number-89303320DEM00031 c. Type CR, d. Share CPAF, IDIQ Ratio	b. Phase - Operations c. EVMS Acceptance NO X YES	b. To (2021/09/30)
Evaluation			

(-\$5,863K) 4001.04.03 - Safeguards & Security – The unfavorable CTD CV is primarily due the non-standard shift for the Patrol Operations Security Patrol Officers not being bid in the proposal. Other contributing costs are labor resource mix not in alignment with current scope of work and higher than planned material/subcontractor and ODCs support costs.

(+\$2,548K) 4001.04.04 - Emergencies & First Responders – The favorable CTD CV is primarily due to attrition, less support than planned for management and fire captain, reduced information technology labor costs which is now being provided by NorthWind subcontract. Also, ODC costs have been less than planned for information technology services, education reimbursements, and occupancy; reduced patrol stipend usage; and less travel than planned due to ongoing COVID impacts. Prior year(s) acquisitions and equipment replacement reduced the need for material purchases in FY21, which added to the favorable underrun. The underrun is partially offset by labor overruns driven by non-standard shifts, worked by platoon firefighters, that were not bid in the proposal.

(+\$2,105K) 4001.04.06 - Information Technology & Mgmt. – The favorable CTD CV is primarily due to a change in charging practice for North Wind Records management staff to the Content & Record Management Direct Cost Adder (CRM DCA) rather than Site Wide Services (SWS). Variance is anticipated to improve once the FY22 IIP has been implemented into the baseline.

(+\$1,000K) 4001.04.07 - Business Services – The favorable CTD CV is due to General Supply Inventory (GSI) experiencing more sells than buys. Additional underruns are being experienced in Reproduction Services. Budget for recurring billing of convenience copier program existing in this account. However, cost is realized on individual responsible cost accounts across HMIS direct and indirect accounts. Underrun is offset by Personal Property & Material Mgmt. Program overruns. Programs staffing levels for storekeeper, drivers, and management support are greater than originally proposed. Subcontract support for Warehouse leased space and utilities is also higher than planned than the initial CLIN 4 budget establishment.

(-\$2,654K) 4001.04.08 - Real Property Asset Mgmt. – The unfavorable CTD CV is primarily due to higher Program Management support to the program than was originally bid in the proposal. Also, Fire System Maintenance (FSM) Preventive Maintenance (PMs) and Corrective Maintenance (CMs) support experiencing high volumes of PMs & CMs than originally planned due to the high priority on completing these maintenance tasks.

(+\$797K) 4001.04.09 – Environmental Stewardship & Mgmt. – The favorable CTD CV is primarily driven due labor supporting ICWO & RFS and subcontract support was less than originally planned associated with Comprehensive Land-Use Plan and Post-Cleanup Surveillance & Maintenance than budgeted for FY21.

1. Contractor	2. Contract	3. Program	4. Report Period
a. Name Hanford Mission Integration Solutions, LLC	a. Name Hanford Mission Essential Services Contract	a. Name Hanford Mission Essential Services Contract	a. From (2021/08/23)
b. Location (Address and Zip Code) PO Box Richland, WA 99352	b. Number-89303320DEM00031	b. Phase - Operations	b. To (2021/09/30)
	c. Type CR, CPAF, IDIQ	d. Share Ratio	
Evaluation			

(+\$1,361K) 4001.04.10 - Environmental Integration - The favorable CTD CV is primarily due to Toxic Air Monitoring Program (TAMP) experiencing underruns due to hiring delays, subcontract implementation delays, and lower FY21 contract cost than initially estimated.

(-\$1,195K) 4001.04.11 – Safety & QA - The unfavorable CTD CV is primarily in labor as the proposal assumed staffing efficiencies. Instead RL directed HMIS to maintain existing staffing levels that are higher than the planned levels and is anticipated to continue until the IIP and the PMB are brought into alignment.

(+\$2,234K) 4001.04.12 - General Performance Requirements – The favorable CTD CV is primarily due to the Hanford Portfolio Analysis/PS/Independent Assess program experiencing underruns due to needing less resources than originally planned. Less staff have been supporting the maintenances of the HMIS proper (HLCCB) systems, less materials have been required, and Northwind subcontractor support has been minimal.

(+\$1,177K) 4001.07.03 - IRP – Electrical System – The favorable CTD CV is driven by L-801 Upgrade SCADA labor efficiencies to complete Remote Terminal Unit (RTU) Installs and complete Construction Acceptance Tests (CATs) to date and L-720 Outdoor Lighting Reconfiguration & Replace labor efficiencies during construction. Efficiencies are largely related to engineering, Industrial Hygienist (IH), and first line supervisor support. Labor efficiencies are expected to continue through project.

(+\$974K) 4001.07.05 - IRP - Facility System – The favorable CTD CV has two primary drivers:

- 1) Labor and subcontract efficiencies for Project Delivery Support for construction in support of the L-934, MSC Office Space Gap Reduction - 200E scope has created an underrun.
- 2) L-907, Fleet Complex Site Development 30% conceptual design milestone subcontract being awarded for less than originally budgeted. Conceptual design will continue to incur cost savings. An overall variance at completion for L-907 is expected as project will continue to see savings during definitive design phase.

Impacts –For Legacy Benefits Plans, the lack of claims is resulting in a favorable cost variance. Due to the restrictions on labor overtime, support for Utilities and Infrastructure tasks are not occurring. The timephasing of resources for both the Emergency Response and IM team will be positive until the actuals are incurred. Less resources are needed in supporting the Hanford Portfolio Analysis/PS/Independent Assess program. Offsetting overruns were experienced in the EAC for Safeguards & Security was increased due to the OT not bid but experienced and the Real Property Asset Mgmt. EAC has been increased due the additional support required supporting the Drone and HOLO Lens programs.

1. Contractor	2. Contract	3. Program	4. Report Period
a. Name Hanford Mission Integration Solutions, LLC	a. Name Hanford Mission Essential Services Contract	a. Name Hanford Mission Essential Services Contract	a. From (2021/08/23)
b. Location (Address and Zip Code) PO Box Richland, WA 99352	b. Number-89303320DEM00031	b. Phase - Operations	b. To (2021/09/30)
	c. Type CR, CPAF, IDIQ	d. Share Ratio	
Evaluation			

Corrective Action – No corrective actions are need for the Legacy Benefits Plans, Utilities and Infrastructure, the program will continue to monitor Utilities & Infrastructures, Emergency Response, and IM, and the Hanford Portfolio Analysis/PS/Independent Assess program. The program will monitor Safeguards & Security and Real Property Asset Mgmt. for possible cost reductions in the future.

Variance at Complete (VAC):

The unfavorable VAC is (-\$27,839K) or (-0.7%) primarily driven by:

(-\$8,296K) 4001.03.01 - Legacy Benefit Plans - The unfavorable VAC is primarily due to Retiree Reimbursement Arrangement (RRA) Liability accrual completed at DOE's direction to move the liability from WRPS to HMIS as the Rocky Flats Legacy Benefit scope has recently transitioned companies (-\$28.9M). The funds were sent from DOE to cover the large cost in July. The favorable VAC is primarily due to the transitioning of plans from prior entity and claims being less than planned (+\$20.6M) for this new contract scope.

(-\$14,779K) 4001.04.03 - Safeguards & Security – The unfavorable VAC is primarily due increased labor costs associated with non-standard shift for the Patrol Operations Security Patrol Officers not being bid in the proposal.

(-\$3,327K) 4001.04.04 - Emergencies & First Responders – The unfavorable VAC is primarily due to increased labor costs associated with non-standard shifts worked by the Hanford Fire Department Platoons, which were not included in the proposal.

(-\$3,571K) 4001.04.08 - Real Property Asset Mgmt. – The unfavorable VAC is primarily due to higher Program Management support to the program than was originally bid in the proposal as well as Fire System Maintenance (FSM) Preventive Maintenance (PMs) and Corrective Maintenance (CMs) support experiencing high volumes of PMs & CMs than originally planned due to the high priority on completing these maintenance tasks. In addition, additional support was required in support of the initial flight of the Drone program due to the site focus on this effort.

(-\$1,973K) 4001.04.11 – Safety & QA - The unfavorable VAC is primarily in labor as the proposal assumed staffing efficiencies. Instead RL directed HMIS to maintain existing staffing levels that are higher than the planned levels.

(+\$1,063K) 4001.04.12 - General Performance Requirements – The favorable CTD CV is primarily due to the Hanford Portfolio Analysis/PS/Independent Assess program experiencing underruns due to needing less resources than originally planned. Less staff have been supporting the maintenances of the HMIS proper (HLCCB) systems, less materials have been required, and Northwind subcontractor support has been minimal.

1. Contractor	2. Contract	3. Program	4. Report Period
a. Name Hanford Mission Integration Solutions, LLC	a. Name Hanford Mission Essential Services Contract	a. Name Hanford Mission Essential Services Contract	a. From (2021/08/23)
b. Location (Address and Zip Code) PO Box Richland, WA 99352	b. Number-89303320DEM00031	b. Phase - Operations	b. To (2021/09/30)
	c. Type CR, CPAF, IDIQ	d. Share Ratio	
Evaluation			

(-\$771K) 4001.07.01 - IRP – Water System - The unfavorable VAC has several primary drivers:

- 1) L-897, Central Plateau Water Treatment Facility is driven by subcontractor change order impacts related to construction schedule delays and material price increases.
- 2) L-895, Fire Protection Infrastructure for PRW increased costs to address NEMA enclosure related issues including procurement and installation of new enclosure. VAC will not be recovered.

(+\$998K) 4001.07.03 - IRP – Electrical System – The favorable VAC is driven by L-801 Upgrade SCADA labor efficiencies (\$408k) to complete Remote Terminal Unit (RTU) Installs and complete Construction Acceptance Tests (CATs) to date and L-720 Outdoor Lighting Reconfiguration & Replace labor efficiencies (\$365k) during construction. Efficiencies are largely related to engineering, Industrial Hygienist (IH), and first line supervisor support. Labor efficiencies are expected to continue through project.

(+\$1,874K) 4001.07.05 - IRP - Facility System - The favorable VAC has two primary drivers:

- 1) Labor and subcontract efficiencies for Project Delivery Support for construction in support of the L-934, MSC Office Space Gap Reduction - 200E scope has created an underrun.
- 2) L-907, Fleet Complex Site Development design subcontract being awarded for less than originally budgeted. Design will continue to incur cost savings and is represented in the overall VAC.

Impacts –Impacts associated with major drivers are for; Legacy Benefits Plans overrun due to the Retiree Reimbursement Arrangement (RRA) Liability accrual completed at DOE's direction to move the liability from WRPS to HMIS, the EACs for Safeguards & Security and Emergency Response were increased due to the OT not bid but experienced, and the Real Property Asset Mgmt. EAC has been increased due the additional support required supporting the Drone and HOLO Lens programs.

Corrective Action – The program will continue to monitor the Legacy Benefits Plans future savings on claims, Safeguards & Security and Emergency & First Responders labor OT reduction and Real Property Asset Mgmt. costs.

Negotiated Contract Changes:

The Negotiated Contract Cost for September 2021 is \$3,755.5M.

Changes in Estimated Cost of Authorized Unpriced Work:

The Authorized Unpriced Work (AUW) for September 2021 is \$157.2M based primarily on the alignment of the HMESC Contract Value with the Performance Baseline.

1. Contractor	2. Contract	3. Program	4. Report Period
a. Name Hanford Mission Integration Solutions, LLC	a. Name Hanford Mission Essential Services Contract	a. Name Hanford Mission Essential Services Contract	a. From (2021/08/23)
b. Location (Address and Zip Code) PO Box Richland, WA 99352	b. Number-89303320DEM00031	b. Phase - Operations	b. To (2021/09/30)
	c. Type CR, CPAF, IDIQ	d. Share Ratio	
Evaluation			

Changes in Estimated Price:

The Estimated Price for September 2021 is \$4,007.1M. The Estimated Price includes the Most Likely Management Estimate at Completion (MEAC) of \$3,940.6M and fee totaling \$251.6M. The estimated fee includes assumed ~7% of Fee from CLINs 7&8 in the amount of ~\$39.9M. The fee is depended on Task Order (TO) negotiations and will be updated as necessary when TOs are definitized.

Changes in Undistributed Budget:

The UB for this reporting period is \$215.4M.

Changes in Management Reserve:

The Management Reserve (MR) for this reporting period is \$0M.

Differences in the Baseline:

This reporting period the Baseline began at \$3,806.6M and increased to \$3,912.7M.

The following BCRs were implemented for September:

BCR-HMS-21-020 - Implement FY 2022 Replan for the PMB. This BCR aligned the HMIS FY 2022 work plan to the latest execution strategy for the PMB.

BCR-HMS-21-040 - Implement FY 2022 Replan for the Non-PMB. This BCR aligned the HMIS FY 2022 work plan to the latest execution strategy for the non-PMB.

BCR-HMS-21-049 - Realign Pension Administration and Legacy PTB Accounts to Non-PMB and CLIN 3 Distribution. This BCR realigned PMB and non-PMB work scope as it related to the scope within the IIP. In addition, this BCR redistributed CLIN 3 budget to coincide with Rocky Flats Legacy Benefits Claim.

BCR-HMS-21-050 - Implement RFS and DDWS Scope Through Contract Modification P00091. This BCR distributed RFS and DDTO budget into the baseline through contract modification P00091.

BCR-HMS-21-052 - Administrative Baseline Changes for September 2021 Reporting. This BCR implemented administrative WBS and coding changes.

BCR-HMS-21-053 -Implement NTP for COVID-19 Testing for Hanford Site. This BCR implemented the \$100K NTE for Hanford Site COVID testing program initiation.

BCR-HMS-21-054 - Update Program Log through Contract Modification P00093. This BCR implements the program log entries to transfer the Negotiated Contract Cost (NCC) to UB

1. Contractor	2. Contract	3. Program	4. Report Period
a. Name Hanford Mission Integration Solutions, LLC	a. Name Hanford Mission Essential Services Contract	a. Name Hanford Mission Essential Services Contract	a. From (2021/08/23)
b. Location (Address and Zip Code) PO Box Richland, WA 99352	b. Number-89303320DEM00031	b. Phase - Operations	b. To (2021/09/30)
	c. Type CR, CPAF, IDIQ	d. Share Ratio	
Evaluation			

through contract modification P00093 while also adjusting for the CLIN 8 out year planning package reductions.

Best/Worst/Most Likely Management Estimate at Completion (MEAC):

The Best Case MEAC assumes the completion of the approved work scope at the current negotiated contract value consistent with the Contract Budget Base \$3,912.7M. The Most Likely MEAC reflects the EAC including MR, when established \$3,940.6M. The Worst-Case Scenario assumes a 5 percent increase to the Most Likely MEAC case scenario \$4,137.6M.

Appendix B

Reliability Project Contract Performance Reports

Format 1 – Work Breakdown Structure

Format 3 – Baseline

Format 5 – Explanation and Problem Analysis

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

CONTRACT PERFORMANCE REPORT FORMAT 1 - WORK BREAKDOWN STRUCTURE													DOLLARS IN Thousands		FORM APPROVED OMB No. 0704-0188		
1. CONTRACTOR		2. CONTRACT		3. PROGRAM				4. REPORT PERIOD									
a. NAME Hanford Mission Integration Solutions		a. NAME Hanford Mission Essential Services Contract		a. NAME Hanford Mission Essential Services Contract				a. From 2021 / 08 / 23									
b. LOCATION (Address and Zip Code) Richland, WA 99352		b. NUMBER 89303320DEM000031		b. PHASE Operations				b. To 2021 / 09 / 30									
c. TYPE CPAF & IDIQ		d. SHARE RATIO N/A		c. EVMS ACCEPTANCE No X Yes													
5. CONTRACT DATA																	
a. QUANTITY		b. NEGOTIATED COST		c. ESTIMATED COST OF AUTHORIZED UNPRICED WORK		d. TARGET PROFIT/FEE		e. TARGET PRICE		f. ESTIMATED PRICE		g. CONTRACT CEILING		h. ESTIMATED CONTRACT CEILING		i. DATE OF OTB/OTS	
N/A		\$359,813		\$50,342		\$25,187		\$385,000		\$433,186		385,000		433,186		N/A	
6. ESTIMATED COST AT COMPLETION																	
													CONTRACT BUDGET BASE (2)		VARIANCE (3)		
													a. NAME (Last, First, Middle Initial) Wilkinson, Robert E		b. TITLE President & General Manager		
													c. SIGNATURE ROBERT WILKINSON (Affiliate)		d. DATE SIGNED Digitally signed by ROBERT WILKINSON (Affiliate) Date: 2021.10.25 04:58:14 -0700'		
a. BEST CASE													\$410,156				
b. WORST CASE													\$428,399				
c. MOST LIKELY													\$407,999		410,156		
													410,156		2,156		
8. PERFORMANCE DATA																	
Item (1)	Current Period						Cumulative to Date					At Completion					
	Budgeted Cost		Actual Cost Performed (4)	Variance		Budgeted Cost		Actual Cost Performed (9)	Variance		Budgeted (12)	Estimated (13)	Variance (14)				
	Work Scheduled (2)	Work Performed (3)		Schedule (5)	Cost (6)	Work Scheduled (7)	Work Performed (8)		Schedule (10)	Cost (11)							
a. WORK BREAKDOWN STRUCTURE ELEMENT																	
4001.07.01 - IRP - Water System	1,277	1,294	1,195	17	100	5,914	5,121	4,793	(793)	329	19,487	20,661	(1,174)				
4001.07.02 - IRP - Sewer System	0	18	17	18	0	133	119	150	(14)	(31)	133	152	(19)				
4001.07.03 - IRP - Electrical System	987	691	582	(296)	108	8,846	8,400	7,088	(446)	1,312	12,248	11,117	1,131				
4001.07.04 - IRP - Roads & Grounds	0	0	(8)	0	8	68	68	92	0	(24)	3,219	3,312	(93)				
4001.07.05 - IRP - Facility System	707	591	419	(116)	172	3,412	3,350	2,538	(62)	811	5,796	4,084	1,712				
4001.07.06 - IRP - Network & Telecom System	(73)	412	471	485	(59)	2,112	2,150	2,084	39	66	10,176	9,896	277				
CLIN 4 Subtotal	2,898	3,006	2,677	308	329	20,485	19,208	16,745	(1,276)	2,463	31,058	29,224	1,834				
4001.07.01 - IRP - Water System	807	372	470	(435)	(98)	4,407	4,105	4,858	(302)	(753)	28,958	28,554	404				
4001.07.03 - IRP - Electrical System	113	23	59	(90)	(37)	378	378	514	0	(136)	491	624	(133)				
4001.07.05 - IRP - Facility System	0	0	(179)	0	179	1,631	1,631	1,468	0	163	1,631	1,468	163				
4001.07.06 - IRP - Network & Telecom System	0	2	28	2	(26)	652	652	763	0	(111)	652	763	(111)				
4001.07.97 - IRP - Out-Year Summary Level Planning Package	0	0	0	0	0	0	0	0	0	0	327,366	327,366	(0)				
CLIN 7 Subtotal	920	396	378	(523)	18	7,068	6,767	7,603	(902)	(837)	359,097	358,775	323				
b. COST OF MONEY																	
c. GENERAL AND ADMINISTRATIVE																	
d. UNDISTRIBUTED BUDGET																	
e. SUBTOTAL																	
													3,817		3,402		
f. MANAGEMENT RESERVE																	
g. TOTAL																	
													3,817		3,402		
9. RECONCILIATION TO CONTRACT BUDGET BASE																	
a. VARIANCE ADJUSTMENT																	
b. TOTAL CONTRACT VARIANCE																	
													410,156		407,999		

2.0 FORMAT 3, DD FORM 2734/3, BASELINE

CONTRACT PERFORMANCE REPORT FORMAT 3 - BASELINE														DOLLARS IN Thousands		FORM APPROVED OMB No. 0704-0188	
1. Contractor		2. Contract			3. Program			4. Report Period									
a. Name Hanford Mission Integration		a. Name Hanford Mission Essential Services Contract			a. Name Hanford Mission Essential Services			a. From (2021/08/23)									
b. Location (Address and Zip Code) Richland, WA 99352		b. Number 89303320DEM000031			b. Phase Operations			b. To (2021/09/30)									
c. TYPE CPAF & IDIQ		d. Share Ratio N/A		c. EVMS ACCEPTANCE No X Yes													
5. CONTRACT DATA																	
a. ORIGINAL NEGOTIATED COST \$359,813		b. NEGOTIATED CONTRACT CHANGES \$0		c. CURRENT NEGOTIATED COST (a+b) \$359,813		d. ESTIMATED COST OF UNAUTHORIZED UNPRICED WORK \$50,342		e. CONTRACT BUDGET BASE (C+D) \$410,155		f. TOTAL ALLOCATED BUDGET \$410,156		g. DIFFERENCE (E - F) \$0					
h. CONTRACT START DATE 2020/8/17		i. CONTRACT DEFINITIZATION DATE 2019/12/5			j. PLANNED COMPLETION DATE 2030/8/16			k. CONTRACT COMPLETION DATE 2030/8/16		l. ESTIMATED COMPLETION DATE 2030/8/16							
6. PERFORMANCE DATA																	
ITEM (1)	BCWS CUMULATIVE TO DATE (2)	BCWS FOR REPORT PERIOD (3)	BUDGETED COST FOR WORK SCHEDULED (BCWS) (Non-Cumulative)											UNDISTRIBUTED BUDGET (14)	TOTAL BUDGET (15)		
			Six Month Forecast By Month							Remaining Forecast By Month & Fiscal Year							
			OCT FY22 (4)	NOV FY22 (5)	DEC FY22 (6)	JAN FY22 (7)	FEB FY22 (8)	MAR FY22 (9)	Remaining FY22 (10)	BP FY23-25 (11)	OP1 FY25-28 (12)	OP2 FY28-30 (13)					
a. PERFORMANCE MEASUREMENT BASELINE (Beginning of Period)	28,750	5,014	4,321	4,952	2,799	2,121	1,173	552	343	14	0	345,774	0	390,799			
b. BASELINE CHANGES AUTHORIZED DURING REPORT PERIOD	(1,197)	(1,197)	(2,019)	1,042	1,187	4,428	2,693	5,726	25,920	(14)	0	(18,408)	0	19,357			
c. PERFORMANCE MEASUREMENT BASELINE (End of Period)	27,553	3,817	2,301	5,994	3,986	6,549	3,866	6,278	26,263	0	0	327,366	0	410,156			
7. MANAGEMENT RESERVE													0	0			
8. TOTAL	27,553	3,817	2,301	5,994	3,986	6,549	3,866	6,278	26,263	0	0	327,366	0	410,156			

1. Contractor	2. Contract	3. Program	4. Report Period
a. Name Hanford Mission Integration Solutions, LLC	a. Name Hanford Mission Essential Services Contract	a. Name Hanford Mission Essential Services Contract	a. From (2021/08/23)
b. Location (Address and Zip Code) PO Box Richland, WA 99352	b. Number-89303320DEM00031 c. Type CPAF, IDIQ	b. Phase - Operations d. Share Ratio	b. To (2021/09/30)
c. EVMS Acceptance NO X YES		Evaluation	

3.0 FORMAT 5, DD FORM 2734/5, EXPLANATIONS AND PROBLEM ANALYSIS

(\$K) - September	BCWS	BCWP	ACWP	SV \$	SV %	CV \$	CV %	SPI	CPI
Current:	\$ 3,817	\$ 3,402	\$ 3,055	\$ (415)	-10.9%	\$ 347	10.2%	0.89	1.11
Cumulative:	\$ 27,553	\$ 25,975	\$ 24,348	\$(1,578)	-5.7%	\$ 1,626	6.3%	0.94	1.07
	BAC	EAC	VAC \$	VAC %	TCPI				
At Completion:	\$ 410,156	\$ 407,999	\$ 2,156	0.5%	1.00				

Includes CLIN 4 & CLIN 7

Explanation of Variance /Description of Problem:

Current Month (CM) Schedule Variance (SV):

The unfavorable CM SV of (-\$415K) or (-10.9%) is primarily driven by:

(-\$418K) 4001.07.01 - IRP - Water System - The unfavorable CM SV is primarily driven by realization of BCWS in the current period for scope that was completed and BCWP earned in a prior period for:

- 1) The L-839, 12in Potable Water Loop Line to WTP pipe installation from station 13+40 to station 134+45.
- 2) Early receipt of support equipment / materials for the L-850, Replace 200W 1.1M-gal PW Tank.
- 3) Early installation of Uninterrupted Power Supply (UPS) in 283W control room building for L-895, Fire Protection Infrastructure for PRW.

(-\$386K) 4001.07.03 - IRP - Electrical System - The unfavorable CM SV is primarily driven in L-801, Upgrade SCADA by delays with executing the Remote Terminal Unit (RTU) Install #4 and RTU Construction Acceptance Test (CAT) #6 (at 451B Substation) due to a DOE request to perform a new Cyber Risk Assessment and Analysis for a revised Authority to Operate (ATO). This will delay the final RTU Install and CAT (at 451B Substation) into April/May and the final ATO into May/June of FY22. Cyber Risk Assessment schedule impacts were incorporated into the task order proposal. CLIN 4 impacts are considered AUW and will be captured in future REA.

In addition, L-789, Priority T&D Sys Wood PP Test & Replace was impacted due to a BCR to replan CPCCo's disposal effort of the waste generated by L-789 within the Plutonium Finishing Plant (PFP) Radiological Buffer Area (RBA).

(+\$487K) 4001.07.06 - IRP - Network & Telecom System - The favorable CM SV is primarily driven by:

1. Contractor	2. Contract	3. Program	4. Report Period
a. Name Hanford Mission Integration Solutions, LLC	a. Name Hanford Mission Essential Services Contract	a. Name Hanford Mission Essential Services Contract	a. From (2021/08/23)
b. Location (Address and Zip Code) PO Box Richland, WA 99352	b. Number-89303320DEM00031	b. Phase - Operations	b. To (2021/09/30)
	c. Type CPAF, IDIQ	d. Share Ratio	
Evaluation			

1) L-919, Emergency Radio Upgrade BCR implementation in the current period which made an adjustment to the budget for the ES-LAN activities that were originally planned for summer but were delayed due to resource availability within the IM group. Scope was replanned for October through December FY22.

2) L-937, Gable East Footprint Reduction (Phase 1) schedule recovered by completing work that was planned in prior fiscal months, including Radio Services Construction, Air Sampling Unit (Wind Cube) installation and training, HSEAS (Hanford Site Emergency Alert System) Equipment relocation, and Seismic Stations Material/Equipment purchases.

Impacts – For Water Systems a BCR was implemented in the current month which made an adjustment to the BCWS in the current period for scope that was completed and BCWP earned in a prior period. The Electrical System baseline is impacted and has been incorporated into the task order proposal and will be captured in a future REA.

Corrective Action – No corrective actions are needed for Water Systems as both BCWS & BCWP are properly being reported for CTD. For Electrical Systems once the REA is approved a future BCR will be processed to properly plan out the revised project completion.

(+\$351K) 4001.07.05 - IRP - Facility System - The favorable CM CV has two primary drivers:

1) Labor and subcontract efficiencies for Project Delivery Support for construction in support of the L-934, MSC Office Space Gap Reduction - 200E scope has created an underrun.

2) L-907, Fleet Complex Site Development 30% conceptual design milestone subcontract being awarded for less than originally budgeted. Conceptual design will continue to incur cost savings. An overall variance at completion for L-907 is expected as project will continue to see savings during definitive design phase.

Impacts – N/A

Corrective Action – N/A

Cumulative To Date (CTD) Schedule Variance (SV):

The unfavorable CTD SV is (-\$1,579K) or (-5.7%) primarily driven by:

(-\$1,095K) 4001.07.01 - IRP - Water System - The unfavorable CTD SV is primarily driven by L-897, Central Plateau Water Treatment Facility (-\$956k) which has two major drivers:

1) Delayed award of the membrane and processing equipment fabrication subcontract. The membrane and processing equipment subcontract was planned to be awarded in March but was awarded in September due to having to go through the full procurement process again post-transition, extensive terms and conditions negotiations, and DOE consent package threshold changes. This has delayed the subcontractor prefabrication submittal development milestone (\$674k), leading to an unfavorable CTD schedule variance.

1. Contractor	2. Contract	3. Program	4. Report Period
a. Name Hanford Mission Integration Solutions, LLC	a. Name Hanford Mission Essential Services Contract	a. Name Hanford Mission Essential Services Contract	a. From (2021/08/23)
b. Location (Address and Zip Code) PO Box Richland, WA 99352	b. Number-89303320DEM00031	b. Phase - Operations	b. To (2021/09/30)
	c. Type CPAF, IDIQ	d. Share Ratio	
Evaluation			

2) Delay to construction field work mobilization driven by Notice of Construction (NOC) application approval. NOC application was approved in September and mobilization occurred shortly after.

Impacts – The Reliability Projects (RPs) associated with Water Systems are working with Ecology and expect to have agreement in late September and start the mobilization process in October.

Corrective Action – Schedule recovery for the RPs Water Systems will occur in October 2021.

Cumulative To Date (CTD) Cost Variance (CV):

The favorable CTD CV of (+\$1,626K) or (+6.3%) is primarily driven by:

(+\$1,177K) 4001.07.03 - IRP – Electrical System – The favorable CTD CV is driven by L-801 Upgrade SCADA labor efficiencies to complete Remote Terminal Unit (RTU) Installs and complete Construction Acceptance Tests (CATs) to date and L-720 Outdoor Lighting Reconfiguration & Replace labor efficiencies during construction. Efficiencies are largely related to engineering, Industrial Hygienist (IH), and first line supervisor support. Labor efficiencies are expected to continue through project.

(+\$974K) 4001.07.05 - IRP - Facility System – The favorable CTD CV has two primary drivers:

1) Labor and subcontract efficiencies for Project Delivery Support for construction in support of the L-934, MSC Office Space Gap Reduction - 200E scope has created an underrun.

2) L-907, Fleet Complex Site Development 30% conceptual design milestone subcontract being awarded for less than originally budgeted. Conceptual design will continue to incur cost savings. An overall variance at completion for L-907 is expected as project will continue to see savings during definitive design phase.

Impacts – Favorable cost impacts due to labor and subcontractor efficiencies and favorable contract negotiations.

Corrective Action – No corrective action is necessary for either of the variances as the EACs have been revised accordingly.

Variance at Completion (VAC):

The favorable VAC of (-+2,156K) or (+0.5%) is primarily due to:

(-\$771K) 4001.07.01 - IRP – Water System - The unfavorable VAC has several primary drivers:

1. Contractor	2. Contract	3. Program	4. Report Period
a. Name Hanford Mission Integration Solutions, LLC	a. Name Hanford Mission Essential Services Contract	a. Name Hanford Mission Essential Services Contract	a. From (2021/08/23)
b. Location (Address and Zip Code) PO Box Richland, WA 99352	b. Number-89303320DEM00031	b. Phase - Operations	b. To (2021/09/30)
	c. Type CPAF, IDIQ	d. Share Ratio	
Evaluation			

1) L-897, Central Plateau Water Treatment Facility is driven by subcontractor change order impacts related to construction schedule delays and material price increases.

2) L-895, Fire Protection Infrastructure for PRW increased costs to address NEMA enclosure related issues including procurement and installation of new enclosure. VAC will not be recovered.

(+\$998K) 4001.07.03 - IRP – Electrical System – The favorable VAC is driven by L-801 Upgrade SCADA labor efficiencies (\$408k) to complete Remote Terminal Unit (RTU) Installs and complete Construction Acceptance Tests (CATs) to date and L-720 Outdoor Lighting Reconfiguration & Replace labor efficiencies (\$365k) during construction. Efficiencies are largely related to engineering, Industrial Hygienist (IH), and first line supervisor support. Labor efficiencies are expected to continue through project.

(+\$1,874K) 4001.07.05 - IRP - Facility System - The favorable VAC has two primary drivers:

1) Labor and subcontract efficiencies for Project Delivery Support for construction in support of the L-934, MSC Office Space Gap Reduction - 200E scope has created an underrun.

2) L-907, Fleet Complex Site Development design subcontract being awarded for less than originally budgeted. Design will continue to incur cost savings and is represented in the overall VAC.

Impacts – RPs Water Systems will overrun due to the added cost for Change Orders. The overrun by Water Systems will be offset by underruns in Electrical Systems and Facility Systems.

Corrective Action – Program will continue to monitor future costs associated with the Water Systems and no corrective action is needed for Electrical Systems and Facility Systems.

Negotiated Contract Changes:

The Negotiated Contract Cost for September 2021 is \$359.8M.

Changes in Estimated Cost of Authorized Unpriced Work:

The Authorized Unpriced Work (AUW) for September 2021 is \$50.3M based on CLIN 7 scope transferred to CLIN 4 base on customer direction.

Changes in Estimated Price:

The Estimated Price for September 2021 is \$433.2M. The Estimated Price includes the Most Likely Management Estimate at Completion (MEAC) of \$407.9M. The estimated fee includes assumed ~7% of Fee from CLIN 7 in the amount of \$25.2M. The fee is depended on Task Order (TO) negotiations and will be updated as necessary when TOs are definitized.

Changes in Undistributed Budget:

1. Contractor	2. Contract	3. Program	4. Report Period
a. Name Hanford Mission Integration Solutions, LLC	a. Name Hanford Mission Essential Services Contract	a. Name Hanford Mission Essential Services Contract	a. From (2021/08/23)
b. Location (Address and Zip Code) PO Box Richland, WA 99352	b. Number-89303320DEM00031	b. Phase - Operations	b. To (2021/09/30)
	c. Type CPAF, IDIQ	d. Share Ratio	
Evaluation			

The UB for this reporting period is \$0M.

Changes in Management Reserve:

The Management Reserve (MR) for this reporting period is \$0M.

Differences in the Baseline:

This reporting period the Baseline began at \$390.8M and increased to \$410.2M for the current period.

The following BCRs were implemented in September:

BCR-HMS-21-020 - Implement FY 2022 Replan for the PMB. This BCR aligned the HMIS FY 2022 work plan to the latest execution strategy for the PMB.

Best/Worst/Most Likely Management Estimate at Completion (MEAC):

The Best Case MEAC assumes the completion of the approved work scope at the current negotiated contract value consistent with the Contract Budget Base \$410.2M. The Most Likely MEAC reflects the EAC including MR \$407.9M. The Worst-Case Scenario assumes a 5 percent increase to the Most Likely MEAC case scenario \$428.4M.