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**MISSION SUPPORT CONTRACT MONTHLY PERFORMANCE REPORT
NOVEMBER 2020
DOE/RL-2009-113, REVISION 134**

Consisting of 66 pages,
including this cover page

Mission Support Contract Monthly Performance Report

November 2020

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



P.O. Box 550
Richland, Washington 99352

Mission Support Contract Monthly Performance Report

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Date Published
January 2021

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Date

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MISSION SUPPORT ALLIANCE

"WE WILL MEASURE OUR SUCCESS BY OUR CUSTOMERS' SUCCESS"



Monthly Performance Report November 2020

R. E. Wilkinson
President

U.S. Department of Energy
Contract DE-AC06-09RL14728



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CONTENTS

EXECUTIVE OVERVIEW

INTRODUCTION.....	1
1.1 Key Accomplishments.....	1
1.2 Look Ahead.....	10
2.0 ANALYSIS OF FUNDS.....	9
3.0 SAFETY PERFORMANCE.....	12
4.0 FORMAT 1, DD FORM 2734/1, WORK BREAKDOWN STRUCTURE.....	16
5.0 FORMAT 3, DD FORM 2734/3, BASELINE.....	20
6.0 FORMAT 5, DD FORM 2734/5, EXPLANATIONS AND PROBLEM ANALYSIS.....	22
7.0 USAGE-BASED SERVICES/DIRECT LABOR ADDER SUMMARY.....	36
8.0 RELIABILITY PROJECT STATUS.....	38
9.0 BASELINE CHANGE REQUEST LOG (BCR).....	47
10.0 RISK MANAGEMENT.....	49
11.0 DASHBOARD SUMMARY.....	51
12.0 CONTRACT DELIVERABLES STATUS.....	50
12.1 Government-Furnished Services/Information and DOE Decisions.....	51
13.0 SELF-PERFORMED WORK.....	56

ACRONYMS LISTING



This list of acronyms is intended as a reference for the reader to provide definitions that are not readily available away from the Hanford Site.

TERMS

A&E	Architecture and Engineering
ALARA	As Low as Reasonably Achievable
AMB	Assistant Manager for Business and Financial Operations
AMMS	Assistant Manager for Mission Support
AMRP	Assistant Manager for River and Plateau
AMSE	Assistant Manager for Safety and Environment
ATP	Acceptable Test Procedures
BCR	Baseline Change Request
BPA	Bonneville Power Administration
BIO	Business Integration & Operations
CAS	Contractor Assurance Systems
CHRP	Cultural and Historic Resource Program
CHPRC	CH2MHILL Plateau Remediation Company
COVID-19	Coronavirus disease 2019
CTD	Cost-to-Date
CV	Cost Variance
DART	Days Away Restricted Transferred
DLA	Direct Labor Adder
DOE	U.S. Department of Energy
ECOLOGY	State of Washington, Department of Ecology
EIS	Environmental Integration Services
EM	Office of Environmental Management
EMP	Enhanced Maintenance Program
EOC	Emergency Operations Center
ERDF	Environmental Restoration Disposal Facility
ES	Emergency Services
ESH&Q	Environment, Safety, Health, and Quality
EU	Electrical Utilities
FY	Fiscal Year
FYTD	Fiscal Year to Date
GIS	Geographic Information System
GFS/I	Government-Furnished Services and Information

ACRONYMS LISTING



HAMMER	Volpentest Hazardous Materials Management and Emergency Response Training and Education Center
HCAB	Hanford Contract Alignment Board
HLAN	Hanford Local Area Network
HMAPS	Hanford Maps
HQ	Headquarters
HR	Human Resources
HRIP	Hanford Radiological Instrumentation Program
HSPD	Homeland Security Presidential Directive
ICWO	Inter-Contractor Work Order
IH	Industrial Hygiene
IM	Information Management
IIP	Integrated Investment Portfolio
IPT	Integrated Project Team
ISAP	Infrastructure and Services Alignment Plan
ISMS	Integrated Safety Management System
IT	Information Technology
LLTO	Lower Level Task Order
MOA	Memorandum of Agreement
MSA	Mission Support Alliance, LLC
MSC	Mission Support Contract
NEPA	National Environmental Policy Act
NOC	Network Operations Center
OCCB	Operational Change Control Board
OTP	Operational Test Procedures
ORP	Office of River Protection
OSHA	Occupational Safety and Health Administration
PFM	Portfolio Management
PFPP	Plutonium Finishing Plant
PMB	Performance Measurement Baseline
PMTO	Portfolio Management Task Order
PNNL	Pacific Northwest National Laboratory
PO	Presidents Office
POSP	Parent Organization Support Plan
PPE	Personal Protection Equipment
PTA	Patrol Training Academy
PRC	Plateau Remediation Company

ACRONYMS LISTING



PW	Public Works
RES	Real Estate Services
RFS	Request for Service
RMB	Risk Management Board
ROD	Record of Decision
RHP	Risk Handling Plan
RL	Richland Operations Office
RPIP	Reliability Project Investment Portfolio
SAS	Safeguards & Security
SNM	Spent Nuclear Material
SS&IM	Site Services and Interface Management
SV	Scheduled Variance
T&CO	Training and Conduct of Operations
TRC	Total Recordable Case
UBS	Usage-Based Services
VAC	Variance at Completion
VoIP	Voice over Internet Protocol
VPP	Voluntary Protection Program
WBS	Work Breakdown Structure
WRPS	Washington River Protection Solutions, LLC



INTRODUCTION

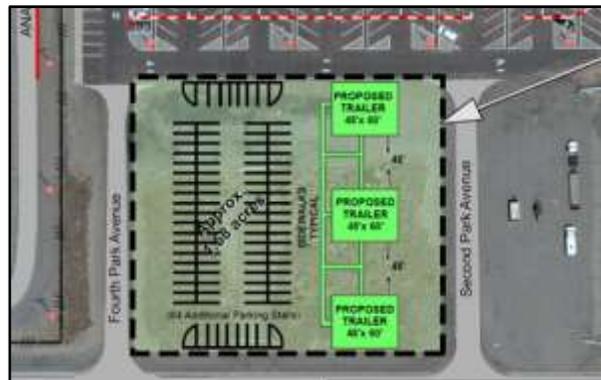
The Executive Overview section is intended to provide an executive-level performance overview. Included herein are descriptions of the Mission Support Alliance, LLC (MSA) significant accomplishments considered to have made the greatest contribution toward safe, environmentally sound, and cost-effective, mission-oriented services; progress against the Mission Support Contract (MSC) with the U.S. Department of Energy (DOE) Richland Operations Office (RL); project cost summary analysis; and overviews of safety. Unless otherwise noted, all data provided is through November 2020.

1.1 KEY ACCOMPLISHMENTS

MSA Coronavirus (COVID-19) Response – During November, MSA personnel continued to provide support for the numerous COVID-19 pandemic-related actions taking place. Some of these actions include:

- Site Mission Integration & Analysis (SMI&A) continues coordination of the Site Portfolio Remobilization Plan. The MSA team developed and presented the COVID-19 Local and State data driven dashboard to DOE, created a Site Weekly COVID-19 tracking tool, and supported Site input into the EM requested COVID-19 weekly tracking tool.
- MSA Business Process Compliance staff continue to work directly with MSA Procurement personnel to evaluate COVID-related subcontractor documentation to establish methodology and best practices for maintaining records, ensuring adequate and reasonable substantive evidence to satisfy both internal and external oversight.
- MSA continued to incorporate the impacts of COVID-19 in the Performance Measurement Baseline (PMB). MSA processed several Baseline Change Requests (BCRs) in the month of November to align the baseline with the most recent COVID-19 impacted execution schedules. This includes impacts realized from vendors through submitted/negotiated subcontract change requests.

- Environmental Integration Services provided environmental support during construction and installation activities for the L-933 Project, COVID Office Trailer Install in 200E. The Project will install three new (4-wide) 48' x 60' mobile office trailers near the intersection of 1st Street and Second Park Avenue in the 200 East Area. Installation of the offices, considered an emergency action, is in response to COVID-19 guidelines for social distancing.
- Emergency Management staff worked with Information Management to create a new webpage for tracking facility restrictions due to COVID-19 disinfecting. This new webpage will eliminate the need to update the Hanford Mobile App for each individual building restriction. The Hanford Mobile App will still be activated daily for the COVID-19 case rollup. This new process was effective November 30, 2020.
- Emergency Management staff gave a presentation to the Emergency Management Special Interest Group and Emergency Management Exercise Subcommittee on November 19, 2020, on the process for safely resuming exercise and drill activities on the Hanford Site during the COVID-19 pandemic. The associated COVID Exercise/Drill Checklist was uploaded to the SharePoint Site for others to review and use



Despite the restrictions associated with COVID-19, MSA made good progress in November in a number of work areas. Some of these accomplishments included:

EM1 Hanford Site Tours - MSA provided all logistics to support several tours with EM-1 Ike White and EM's Chief Operating Officer Tom Mooney. A Hanford Site road tour and B Reactor visit were prepared for Tom Mooney. Additionally, both Ike White and Tom Mooney went on a Hanford Site tour that included stops at the AP-Tank Farm, the Waste Treatment Plant and the Integrated Disposal Facility. The second day involved a tour that featured WESF, 200 West Aging Structures, Pump and Treat, and 324 Mock-up. MSA coordinated communications with all parties involved with the tour, assisted with the agenda and schedule, arranged for the transportation and served as the logistics host during the tour. MSA also provided photography services and worked with the Hanford office of Communications in order to provide images for timely press releases.



Labor Agreement reached with Hanford Guards Union - Human Resources successfully negotiated and reached agreement on a one-year Labor Agreement extension and three percent (3.0%) 2020 general wage increase (GWI) with the Hanford Guards Union Local 21 (HGU). The Labor Agreement extension and 2020 GWI was successfully ratified by the HGU membership on November 5, 2020.

Firefighter Graduation - Hanford Fire Department graduated 12 firefighters from the Recruit Training Academy. The 16-week academy provided the new recruits with Hanford specific training and prepared them for integration into HFD operations.

OPEXShare Application is Retiring – The OPEXShare Lessons Learned application is used by Hanford Site personnel to enter, publish, distribute, store and search for operating experience information supporting business operations. For the past 18 months, DOE Headquarters (HQ) has been working to re-write the existing OPEXShare application as a .NET application. MSA participated in a November meeting and identified that the new application is a replica of application previously written by MSA, which is a great testament to design and development at Hanford. This new application is hosted on DOE servers will become the standard lessons-learned application for all of DOE in December 2020.

Cyber General & Firewall Support Application Successfully Implemented in ESP – Cyber Security continues to pursue opportunities for process improvements and efficiencies. As part of this effort, General Support and Firewall Support requests were created in the Enterprise Service Platform (ESP) for customer cyber security requests. These requests are specifically for performing scanning or data recovery services; and firewall connections. This enhancement provides our users clear and easy to use forms for requesting cyber support.

Hanford EROMS System Application Upgraded – The Hanford Enterprise Risk Opportunity Management System (EROMS) is a multi-contractor application that administers threat and opportunity data in support of risk management requirements and has been developed for use by MSA, WRPS, CHPRC, DOE-RL, and DOE-ORP. The Information Systems' Team upgraded the EROMS system with several added enhancements and bug fixes; including a stoplight report, and a new section to support realized dates allowing multiple recovery actions. Additionally, several reports were updated to accommodate added fields.

ABACUS successfully implemented – MSA successfully implemented the enterprise architecture (EA) tool ABACUS, which will be used to enhance alignment of business and IT strategies. ABACUS is a centralized repository for storing site-wide data and

information concerning applications, technologies, business processes, capabilities, and much more. Although ABACUS is operational for architects to use, the tool and the Hanford EA program are in their infancy and steady progress is being made to mature both. Implementing an EA tool was a major step in the right direction towards aligning business and IT strategies to enhance decision making across the Hanford site

Legacy Cable Removed 200 West– MSA

Communications Specialists, with support of the Radio Control Technicians (RCTs), removed legacy cable in 200 West area, in support of new fiber construction. This work supports fiber needs for 272WA Tank Farms central shift as well as PFP demolition of MO-290.



IM removes legacy fiber in 200W

WTP Training Simulator Collaboration – MSA

collaborated with DOE-RL and Bechtel to add the WTP Training Simulator to the Hanford ATO (Authorization to Operate), that allows the use of this system to support operations. This process includes updating the J3 #14 Cyber Security (Classified and Unclassified Cyber Security) from N/A to Receive Service, paving the way for the Training Simulator to be included in the Hanford Accreditation Boundary Risk Assessment. It was a heavy lift, but successfully completed just in time to begin the use of the system as planned in late November.

Preventing Damage to Electrical System – During a routine preventive maintenance activity, Dispatch observed that the A8 yard gas circuit breaker appeared to be acting slowly. Electricians were called to test the system and found that the A-382 GCB actuator, which normally operated instantly, was taking about 30 seconds to activate. Also during the test, an operator inside the substation heard arcing and discovered a faulty relay. By taking immediate action, Electricians were able to prevent major damage to the system.



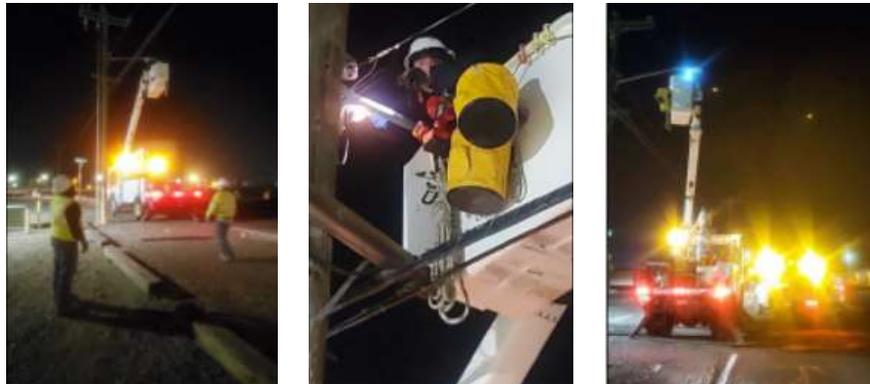
13.8kV bus isolated and taped off during repair work

Calibrating Overcurrent Relay – Electrical Utilities (EU) Meter Relay Technicians responded to a report from Water & Sewer Utilities regarding an overcurrent relay from the primary switchgear at 181B, a 75+ year-old facility. Technicians were able to resolve the issue by calibrating the system.



Calibrating an overcurrent relay

Updated Street Lights – On November 12, 2020, EU Linemen updated several street lights on Baltimore Avenue. The work was performed to resolve a Safety Logbook entry regarding safety concerns related to poor lighting conditions.



Nighttime bucket work

Repairing Poles Damaged by Wild Fire – Following the Gable Mountain Fire in May 2020, EU assessed the damage and determined that repairs would be made to the 230kV Hanford Line 1 North Loop after the fire hazard ratings were lowered. EU has now begun work to replace the damaged poles located approximately 20 pole spans north of the east end of Gable Mountain.



Poles damaged by wild fire

Repair of Blown Fuse – On November 12, 2020, EU discovered a blown fuse affecting facilities in the 200E area. An investigation into the cause determined that cold temperatures had created an increase in power consumption, putting additional stress on the fuse. EU worked with Maintenance Services to correct the issue, while EU Engineering increased the size of fuses in cutouts to avoid future disruptions of service.



Fuse blown at top of pole

Repair of Damaged Water Line – Water & Sewer Utilities (W&SU) prepared an expedited repair maintenance activity (ERMA) for repair of a damaged waterline at the Canister Storage Building. The failed High-Density Polyethylene (HDPE) piece was replaced, the line re-pressurized, and the leak check completed.



Replacing section of damaged waterline

Installation of Duckbills – During a Routine Sanitary Survey by the Washington State Department of Health, it was noted there was a need to protect the horizontal facing overflow discharge points at the 282W and 282E Basins. In response, W&SU installed duckbills to the discharge piping of silver tank overflows at the two basins. Installation of duckbills prevents insects, birds, etc., from entering the sanitary water system.



Duckbill installation in basins

Repair of Fence Along Hanford Boundary – On November 16, 2020, Hanford Patrol identified that a portion of the Hanford Fence Line was down and in need of urgent repair. The section of fence was located at the Vernita Rest Area, at the boundary between the rest area and the Hanford Site. It was essential to repair this fence quickly, because this is a very sensitive location on the Columbia River shoreline. New wire and fence stretching equipment was brought in to complete the work. Following repairs,

the crew walked the entire perimeter fence line to ensure everything was intact prior to leaving. These fence repairs keep the area secure and prevent it from becoming a river access point for visitors parked at the Vernita Rest Area. All work was completed within 24 hours of the initial notification from Hanford Patrol.



Repair of site boundary fence

Preparing Site for Revegetation Efforts – Sites chosen for the fiscal year 2020/2021 planting will be focused in the 100-B/C and 300 Areas, which includes 26 acres of supplemental plantings and 3 acres of total rework. Site preparation for the 3 acres planned for total rework kicked off on November 19, 2020, with the removal of abandoned electrical lines that run through part of the site. As the majority of the revegetation site is covered with gravel, restoration activities include removing the abandoned utility line, ripping/loosening the ground, smoothing the ground, broadcasting seeds of grass and forbs, and then mulching over the seeded area with straw, crimping the straw into the ground.



Preparing site for revegetation

Cement Pads for Chiller Project – Cement Finishers, Riggers, and Carpenters worked through the night to pour and finish cement pads for the new chillers at the Hazardous Materials Management and Emergency Response (HAMMER) facility. Following completion of the cement work, a compression test showed that the pads were above the 3,400 pounds-per-square-inch gauge requirement. The pads are expected to be cured and ready to accept the chillers by the first part of December.



Cement pads for new chillers

1.2 LOOK AHEAD

L-921 Telecom Hut at Met Tower Project Progresses -The fabrication of the Telecom Hut and Quality Assurance (QA) inspection is complete. The hut is expected to ship in early December 2020. MSA received proposals and will perform technical evaluations for the construction portion of the project in early December 2020. The target award date for the construction subcontract is December 31, 2020. The in-house design of the grounding system for the tower and hut is progressing. Wildflower/Motorola provided a review and recommendations for the final design as part of project. The design for Radio Fire Alarm Reporter (RFAR) is complete.



Telecom hut at the Modular Connection facility prepared for shipment.

2.0 ANALYSIS OF FUNDS

Table 2-1. Mission Support Alliance, LLC Funds Management (dollars in thousands).

Funds Source PBS	Title	MSA Expected Funding *	Funds Received **	FYTD Actuals	Remaining Available Funds from Funds Received
ORP-14	ORP – Reliability Projects	\$47.9	\$47.9	\$11.3	\$36.6
RL-0020	Safeguards & Security	\$104,233.0	\$25,910.6	\$12,215.3	\$13,695.3
RL-0040	GSI and Spares Inventory	\$1,173.8	\$1,221.9	(\$426.0)	\$1,647.9
RL-0201	Reliability Projects, HAMMER, B-Reactor	\$113,843.6	\$16,142.0	\$5,485.3	\$10,656.7
SWS	Site-Wide Services	\$236,717.6	\$58,518.0	\$35,798.7	\$22,719.3
Total		\$456,015.9	\$101,840.4	\$53,084.6	\$48,755.8

EAC = Estimate at Completion
 HSPD = Homeland Security Presidential Directive 12
 FYTD = Fiscal Year to Date.
 HAMMER = Volpentest HAMMER Federal Training Center
 PBS = Project Baseline Summary.
 SWS = Site-Wide Services.

* Expected Funding thru CBAG Rev 4 and Prior Year Uncosted Balances

** Funds received through Contract Mod 947 dated December 11, 2020

Based upon FY21 actuals the remaining uncosted balance will fund SWS (including COVID funding) through December 29, 2020 and RL-20 through January 24, 2020.



3.0 SAFETY PERFORMANCE

During the month of November, MSA had no reported incidents that classified as “recordable. Therefore, both the fiscal year 2021 total recordable case (TRC) and the days away, restricted or transferred (DART) rates are 0.0. These rates are below the DOE performance measurement baseline of 1.1 and .60, respectively. Ten First Aid cases were recorded, which is higher than average for a given month. First Aid cases are closely monitored to determine emerging trends and implement awareness activities, as warranted. MSA recognizes employees encounter hazards on a daily basis as conditions change, both within the work place and at home. Safety communications reminding employees of hazard controls that can be applied, such as maintaining situational awareness, assessing physical or mental capabilities, using the correct personal protection equipment, and to be watchful of changing work environments will continue to be distributed for discussion within workgroups. Seasonal personal protection equipment and materials are readily available for all employees, as needed to adapt to approaching fluctuations in environmental conditions.



Table 3-1. Total Recordable Case Rate, (TRC)





Table 3-2. Days Away, Restricted, Transferred, (DART)

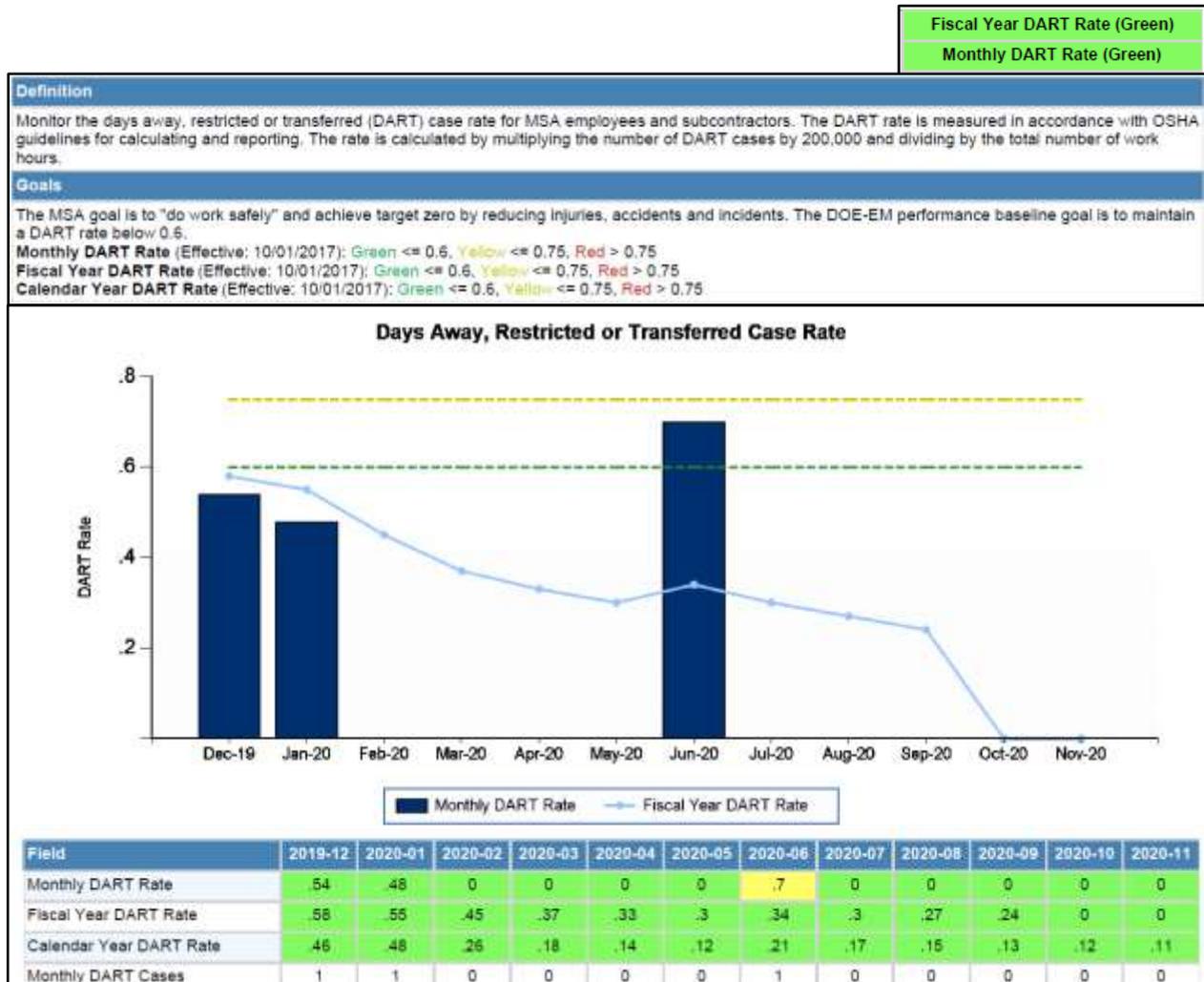
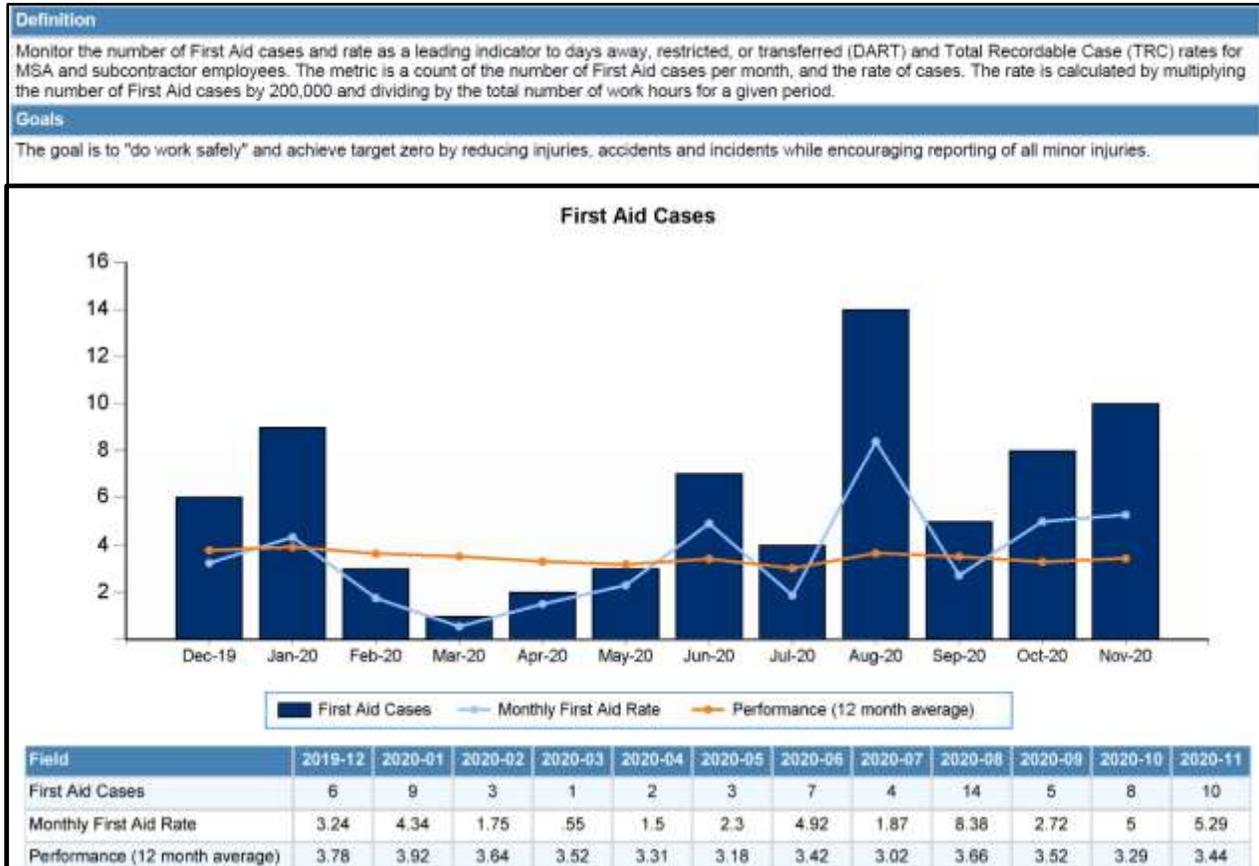




Table 3-3. First-Aid Case Rate





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

Table 4-1. 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 Mission Support Alliance		a. Name Mission Support Contract			a. Name Mission Support Contract				a. From (2020/10/26)							
b. Location (Address and Zip Code) Richland, WA 99352		b. Number RL14728			b. Phase Operations				b. To (2020/11/22)							
c. TYPE CPAF		d. Share Ratio			c. EVMS ACCEPTANCE No X Yes											
5. CONTRACT DATA																
a. QUANTITY N/A	b. NEGOTIATED COST \$4,678,859	c. ESTIMATED COST OF AUTHORIZED UNPRICED WORK \$0		d. TARGET PROFIT/FEE \$254,325	e. TARGET PRICE \$4,933,184	f. ESTIMATED PRICE \$4,816,960	g. CONTRACT CEILING N/A	h. ESTIMATED CONTRACT CEILING N/A	i. DATE OF OTB/OTS N/A							
6. ESTIMATED COST AT COMPLETION						7. AUTHORIZED CONTRACTOR REPRESENTATIVE										
			CONTRACT BUDGET BASE (2)		VARIANCE (3)		a. NAME (Last, First, Middle Initial) Wilkinson, Robert E			b. TITLE MSC Project Manager						
a. BEST CASE \$4,678,859							e. SIGNATURE <i>Robert E Wilkinson</i>			d. DATE SIGNED 12/10/2020						
b. WORST CASE \$4,790,767																
c. MOST LIKELY \$4,562,635			4,678,859		116,224											
8. PERFORMANCE DATA																
Item (1)	Current Period						Cumulative to Date					At Completion				
	Budgeted Cost		Actual Cost Work Performed (4)	Variance		Budgeted Cost		Actual Cost Work 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																
3001.01.01 - Safeguards and Security	7,130	7,150	5,751	20	1,399	695,998	696,022	683,470	24	12,552	706,693	695,124	11,569			
3001.01.02 - Fire and Emergency Response	5,301	5,301	3,336	(0)	1,965	315,686	315,686	313,270	0	2,416	321,738	319,297	2,441			
3001.01.03 - Emergency Management	424	424	442	0	(17)	50,774	50,774	50,499	0	275	51,442	51,286	156			
3001.01.04 - HAMMER	1,011	1,011	920	0	90	85,303	85,303	83,102	0	2,201	86,857	84,771	2,086			
3001.01.05 - Emergency Services Management	79	79	158	0	(79)	18,401	18,401	18,301	0	99	18,607	18,535	71			
3001.02.01 - Site-Wide Safety Standards	14	14	101	0	(86)	10,286	10,286	10,754	0	(468)	10,456	10,932	(476)			
3001.02.02 - Environmental Integration	317	317	310	0	8	61,222	61,222	60,171	0	1,051	61,786	60,837	949			
3001.02.03 - Public Safety & Resource Protection	908	908	939	0	(31)	87,902	87,902	85,652	0	2,250	89,438	87,266	2,172			
3001.02.04 - Radiological Site Services	(0)	(0)	(0)	0	0	5,117	5,117	5,129	0	(12)	5,117	5,129	(12)			
3001.02.05 - WSCF Analytical Services	0	0	0	0	0	50,438	50,438	50,457	0	(19)	50,438	50,457	(19)			
3001.03.01 - IM Project Planning & Controls	117	117	117	0	(0)	35,278	35,278	34,340	0	938	35,497	34,548	949			
3001.03.02 - Information Systems	1,528	1,528	516	(0)	1,012	134,817	134,817	131,411	0	3,406	136,265	132,666	3,599			
3001.03.03 - Infrastructure / Cyber Security	702	702	629	0	72	56,214	56,214	55,300	0	914	57,547	56,814	732			
3001.03.04 - Content & Records Management	682	682	542	0	140	78,536	78,536	78,426	0	110	79,629	79,432	197			
3001.03.05 - IR/CM Management	126	126	351	0	(225)	18,898	18,898	19,826	0	(928)	19,170	20,277	(1,107)			
3001.03.06 - Information Support Services	181	181	193	0	(12)	16,882	16,882	16,820	0	62	17,166	17,107	59			
3001.04.01 - Roads and Grounds Services	759	759	534	0	225	41,609	41,609	39,071	0	2,538	42,392	39,737	2,655			
3001.04.02 - Biological Services	362	362	361	0	0	43,243	43,243	42,972	0	271	43,887	43,681	206			
3001.04.03 - Electrical Services	1,511	1,511	1,450	(0)	60	147,428	147,428	142,235	0	5,193	150,472	145,381	5,091			
3001.04.04 - Water/Sewer Services	1,566	1,566	1,479	0	86	155,082	155,082	152,143	0	2,939	157,933	154,982	2,951			
3001.04.05 - Facility Services	0	0	0	0	0	7,900	7,900	7,900	0	(0)	7,900	7,900	0			
3001.04.06 - Transportation	31	31	33	0	(3)	11,185	11,185	11,099	0	86	11,239	11,165	75			

Table 4-1, cont. 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		a. Name			a. Name			a. From (2020/10/26)																	
Mission Support Alliance		Mission Support Contract			Mission Support Contract																				
b. Location (Address and Zip Code)		b. Number			b. Phase			b. To (2020/11/22)																	
Richland, WA 99352		RL14728			Operations																				
c. TYPE		d. Share Ratio			c. EVMS ACCEPTANCE																				
		CPAF			No X Yes																				
Item (1)	Current Period					Cumulative to Date					At Completion														
	Budgeted Cost		Actual Cost Work Performed (4)	Variance		Budgeted Cost		Actual Cost Work 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 (Cont'd)																									
3001.04.07 - Fleet Services	(0)	(0)	0	0	(0)	7,322	7,322	7,322	0	0	7,322	7,322	(0)												
3001.04.08 - Crane and Rigging	0	0	0	0	0	2,187	2,187	2,187	0	(0)	2,187	2,187	(0)												
3001.04.09 - Railroad Services	7	7	0	0	6	780	780	698	0	82	791	709	82												
3001.04.10 - Technical Services	878	878	887	(0)	(8)	58,069	58,069	59,190	0	(1,121)	59,712	60,995	(1,283)												
3001.04.11 - Energy Management	147	147	101	0	46	14,039	14,039	13,562	0	477	14,265	13,811	454												
3001.04.12 - Hanford Historic Buildings Preservation	912	912	176	(0)	736	29,187	29,187	26,995	0	2,192	29,805	27,735	2,070												
3001.04.13 - Work Management	208	208	255	0	(47)	18,751	18,751	20,329	0	(1,577)	19,121	21,120	(1,999)												
3001.04.14 - Land and Facilities Management	510	510	558	0	(48)	55,038	55,038	53,518	0	1,519	55,897	54,483	1,414												
3001.04.15 - Mail & Courier	58	58	61	0	(3)	8,011	8,011	8,068	0	(57)	8,114	8,186	(72)												
3001.04.16 - Property Systems/Acquisitons	622	622	703	(0)	(81)	71,186	71,186	69,686	0	1,500	72,445	70,772	1,673												
3001.04.17 - General Supplies Inventory	138	138	(318)	0	456	2,240	2,240	1,516	0	724	2,240	2,091	149												
3001.04.18 - Maintenance Management Program Implementation	79	79	75	0	5	11,686	11,686	11,581	0	105	11,827	11,726	101												
3001.06.01 - Business Operations	3,069	3,069	1,388	(0)	1,681	72,692	72,692	70,707	0	1,985	74,345	73,653	692												
3001.06.02 - Human Resources	340	340	324	0	15	31,913	31,913	29,364	0	2,549	32,428	29,934	2,494												
3001.06.03 - Safety, Health & Quality	1,851	1,851	1,922	(0)	(71)	206,649	206,649	203,036	0	3,612	209,445	206,326	3,118												
3001.06.04 - Miscellaneous Support	772	772	660	0	112	59,812	59,812	59,701	0	111	61,018	60,876	141												
3001.06.05 - Presidents Office (G&A nonPMB)	274	274	65	0	209	1,194	1,194	504	0	690	1,333	625	707												
3001.06.06 - Strategy	0	0	0	0	0	2,529	2,529	2,529	0	0	2,529	2,529	0												
3001.07.01 - Portfolio Management	264	264	254	0	10	63,201	63,201	62,241	0	960	63,619	62,689	930												
3001.08.01 - Water System	1,100	916	484	(184)	432	55,076	54,203	39,673	(873)	14,530	57,650	43,249	14,401												
3001.08.02 - Sewer System	97	11	(45)	(86)	56	17,867	17,857	21,908	(10)	(4,051)	18,015	22,022	(4,007)												
3001.08.03 - Electrical System	(1,339)	438	361	1,777	77	33,403	33,105	33,271	(298)	(166)	34,801	34,774	28												
3001.08.04 - Roads and Grounds	(597)	52	36	649	16	11,613	11,299	10,409	(314)	890	11,731	10,993	738												
3001.08.05 - Facility System	2,617	397	540	(2,220)	(143)	19,795	16,323	16,126	(3,472)	196	20,098	19,286	812												
3001.08.06 - Reliability Projects Studies & Estimates	0	0	23	0	(23)	33,471	33,471	35,484	0	(2,013)	33,471	35,484	(2,013)												
3001.08.07 - Reliability Project Spare Parts Inventory	62	62	(6)	0	68	5,641	5,641	3,570	0	2,070	5,721	3,640	2,081												
3001.08.08 - Network & Telecommunications System	(630)	349	360	978	(11)	41,305	38,281	40,049	(3,025)	(1,768)	41,911	43,399	(1,488)												
3001.08.09 - Capital Equipment Not Related to Construction	0	0	0	0	0	18,561	18,561	16,677	0	1,884	18,561	16,677	1,884												
3001.08.10 - WSCF - Projects	0	0	0	0	0	979	979	810	0	169	979	810	169												
3001.08.11 - Support of Infrastructure Interface to ORP	0	0	0	0	0	994	994	775	0	219	994	775	219												
3001.08.12 - Reliability Projects Out Year Planning	0	0	0	0	0	0	0	0	0	0	0	0	0												
3001.90.04 - MSA Transition	0	0	0	0	0	5,868	5,868	5,868	0	0	5,868	5,868	0												
3001.B1.06 - Projects	0	0	0	0	0	(0)	(0)	0	0	(0)	(0)	0	(0)												
b. COST OF MONEY																									
c. GENERAL AND ADMINISTRATIVE																									
d. UNDISTRIBUTED BUDGET																									
e. SUBTOTAL (Performance Measurement Baseline)													34,188	35,123	27,029	935	8,093	3,089,257	3,081,289	3,019,704	(7,968)	61,584	3,163,642	3,082,069	81,573





Table 4-1, cont. 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 Mission Support Alliance		a. Name Mission Support Contract			a. Name Mission Support Contract			a. From (2020/10/26)								
b. Location (Address and Zip Code) Richland, WA 99352		b. Number RL14728			b. Phase Operations			b. To (2020/11/22)								
c. TYPE CPAF		d. Share Ratio			c. EVMS ACCEPTANCE No X Yes											
Item (1)	Current Period					Cumulative to Date					At Completion					
	Budgeted Cost Work Scheduled (2)	Work Performed (3)	Actual Cost Work Performed (4)	Variance Schedule Cost (5) (6)		Budgeted Cost Work Scheduled (7)	Work Performed (8)	Actual Cost Work Performed (9)	Variance Schedule Cost (10) (11)		Budgeted (12)	Estimated (13)	Variance (14)			
a2. WORK BREAKDOWN STRUCTURE ELEMENT																
3001.01.04 - HAMMER	1,220	1,220	1,480	0	(261)	168,058	168,058	165,436	0	2,622	171,078	168,665	2,413			
3001.02.04 - Radiological Site Services	804	804	845	0	(41)	78,888	78,888	76,705	0	2,184	80,631	78,652	1,978			
3001.02.05 - WSCF Analytical Services	0	0	0	0	0	53,176	53,176	53,176	0	0	53,176	53,176	(0)			
3001.03.02 - Information Systems	298	298	281	0	18	13,270	13,270	12,981	0	288	13,909	13,528	381			
3001.03.04 - Content & Records Management	77	77	72	0	6	3,924	3,924	3,891	0	33	4,093	4,104	(11)			
3001.03.06 - Information Support Services	0	0	0	0	0	4,043	4,043	4,043	0	(0)	4,043	4,043	0			
3001.03.07 - Information Technology Services	3,183	3,183	3,016	(0)	167	143,988	143,988	144,798	0	(809)	148,241	150,753	(2,512)			
3001.04.05 - Facility Services	1,176	1,176	1,000	0	176	99,441	99,441	96,118	0	3,322	101,477	98,093	3,384			
3001.04.06 - Transportation	531	531	499	0	32	61,087	61,087	58,886	0	2,202	62,185	60,093	2,092			
3001.04.07 - Fleet Services	1,159	1,159	1,172	0	(13)	169,721	169,721	166,793	0	2,929	172,978	169,904	3,074			
3001.04.08 - Crane and Rigging	952	952	924	(0)	28	139,112	139,112	134,377	0	4,735	141,216	136,278	4,938			
3001.04.10 - Technical Services	251	251	179	0	72	13,071	13,071	11,941	0	1,130	13,506	12,288	1,218			
3001.04.13 - Work Management	66	66	63	0	4	5,219	5,219	5,112	0	107	5,335	5,228	107			
3001.04.14 - Land and Facilities Management	814	814	925	0	(111)	85,725	85,725	84,685	0	1,040	87,350	86,501	849			
3001.04.15 - Mail & Courier	22	22	20	0	2	2,008	2,008	1,947	0	61	2,049	1,987	61			
3001.06.01 - Business Operations	1,001	1,001	1,022	0	(22)	127,189	127,189	126,524	0	665	129,601	128,723	878			
3001.06.02 - Human Resources	370	370	358	0	12	37,057	37,057	36,071	0	986	37,712	36,716	996			
3001.06.03 - Safety, Health & Quality	234	234	134	0	100	17,951	17,951	16,823	0	1,127	18,295	17,078	1,217			
3001.06.04 - Miscellaneous Support	366	366	216	0	150	22,815	22,815	23,394	0	(579)	23,387	24,017	(630)			
3001.06.05 - Presidents Office (G&A nonPMB)	352	352	286	0	66	32,837	32,837	32,282	0	555	33,454	32,843	611			
3001.06.06 - Strategy	31	31	6	0	24	3,395	3,395	3,224	0	170	3,436	3,244	192			
3001.A1.01 - Transfer - CHPRC	6,409	6,409	5,714	0	696	811,025	811,025	785,045	0	25,980	822,459	796,479	25,980			
3001.A1.02 - Transfer - WRPS	4,695	4,695	4,381	0	315	401,130	401,130	392,397	0	8,732	409,564	400,832	8,732			
3001.A1.03 - Transfers - FH Closeout	0	0	0	0	0	228	228	228	0	0	228	228	0			
3001.A1.04 - Transfers - CHG Closeout	0	0	0	0	0	13	13	13	0	0	13	13	0			
3001.A2.01 - Non Transfer - BNI	43	43	116	0	(73)	4,218	4,218	4,570	0	(352)	4,295	4,647	(352)			
3001.A2.02 - Non Transfer - AMH	0	0	0	0	0	954	954	954	0	(0)	954	954	(0)			
3001.A2.03 - Non Transfer - ATL	0	0	0	0	0	702	702	702	0	0	702	702	0			
3001.A2.04 - Non-Transfer - WCH	0	0	0	0	0	41,019	41,019	41,726	0	(707)	41,019	41,726	(707)			
3001.A2.05 - Non-Transfers - HPM	61	61	51	0	9	4,263	4,263	4,163	0	100	4,373	4,272	100			
3001.A2.06 - Non-Transfers - BNI Corp	0	0	0	0	0	7	7	1	0	6	7	1	6			
3001.A2.07 - Non-Transfers-WAI	30	30	38	0	(8)	1,719	1,719	1,708	0	11	1,773	1,762	11			
3001.A4.01 - Request for Services	676	676	435	0	241	125,093	125,093	125,753	0	(660)	126,306	126,965	(660)			
3001.A4.02 - HAMMER RFSS	169	169	110	0	58	36,695	36,695	37,152	0	(458)	36,998	37,456	(458)			
3001.A4.03 - National Guard RFSS	0	0	0	0	0	1,550	1,550	1,550	0	0	1,550	1,550	0			
3001.A4.04 - PNNL RFSS	40	40	(8)	0	48	13,090	13,090	12,986	0	104	13,163	13,059	104			
3001.A5.01 - RL PD	19	19	4	0	14	6,870	6,870	6,794	0	76	6,902	6,840	63			
3001.A5.02 - ORP PD	61	61	54	0	6	9,539	9,539	9,160	0	378	9,649	9,300	349			



Table 4-1, cont. Format 1, DD Form 2734/1, Work Breakdown Structure

CONTRACT PERFORMANCE REPORT													DOLLARS IN Thousands		FORM APPROVED OMB No. 0704-0188	
FORMAT 1 - WORK BREAKDOWN STRUCTURE																
1. Contractor			2. Contract			3. Program			4. Report Period							
a. Name			a. Name			a. Name			a. From (2020/10/26)							
b. Location (Address and Zip Code)			b. Number			b. Phase			b. To (2020/11/22)							
Richland, WA 99352			c. TYPE			d. Share Ratio			c. EVMS ACCEPTANCE							
Item (1)	Current Period					Cumulative to Date					At Completion					
	Budgeted Cost		Actual Cost	Variance		Budgeted Cost		Actual Cost	Variance		Budgeted	Estimated	Variance			
	Work Scheduled (2)	Work Performed (3)	Work Performed (4)	Schedule (5)	Cost (6)	Work Scheduled (7)	Work Performed (8)	Work Performed (9)	Schedule (10)	Cost (11)	(12)	(13)	(14)			
3001.A5.03 - RL Project Funded	426	426	512	(0)	(86)	23,374	23,374	22,334	0	1,040	24,172	24,460	(288)			
3001.A5.04 - ORP Project Funded	271	271	130	(0)	141	10,021	10,021	9,226	0	795	10,507	9,517	989			
3001.A6.01 - Portfolio PMTOs	0	0	0	0	0	1,102	1,102	1,102	0	(0)	1,102	1,102	(0)			
3001.A7.01 - G&A Liquidations	(2,585)	(2,585)	(2,386)	0	(199)	(256,024)	(256,024)	(251,698)	0	(4,326)	(261,098)	(256,859)	(4,240)			
3001.A7.02 - DLA Liquidations	(2,083)	(2,083)	(1,833)	0	(250)	(177,866)	(177,866)	(171,480)	0	(6,387)	(181,808)	(175,193)	(6,615)			
3001.A7.03 - Variable Pools Revenue	(8,220)	(8,220)	(8,189)	0	(31)	(849,195)	(849,195)	(836,672)	0	(12,524)	(865,352)	(855,752)	(9,600)			
3001.B1.01 - UBS Assessments for Other Providers	0	0	0	0	0	0	0	0	0	0	0	0	0			
3001.B1.02 - UBS Other MSC - HAMMER M&O	0	0	0	0	0	(0)	(0)	0	0	(0)	(0)	0	(0)			
3001.B1.03 - Assessment for Other Provided Services	0	0	0	0	0	(0)	(0)	0	0	(0)	(0)	0	(0)			
3001.B1.04 - Assessment for PRC Services to MSC	0	0	0	0	0	(0)	(0)	0	0	(0)	(0)	0	(0)			
3001.B1.07 - Request for Services	0	0	0	0	0	(0)	(0)	0	0	(0)	(0)	0	(0)			
a2. WORK BREAKDOWN STRUCTURE ELEMENT																
b2. COST OF MONEY																
c2. GENERAL AND ADMINISTRATIVE											0	0	0			
d2. UNDISTRIBUTED BUDGET											0	0	0			
e2. SUBTOTAL (Non - Performance Measurement Baseline)	12,918	12,918	11,628	(0)	1,291	1,491,502	1,491,502	1,456,922	0	34,580	1,514,626	1,479,975	34,651			
f. MANAGEMENT RESERVE											591	591	0			
g. TOTAL	47,106	48,041	38,657	935.3	9,384	4,580,758	4,572,791	4,476,626	(7,968)	96,165	4,678,859	4,562,635	116,224			
9. RECONCILIATION TO CONTRACT BUDGET BASE																
a. VARIANCE ADJUSTMENT																
b. TOTAL CONTRACT VARIANCE																



5.0 FORMAT 3, DD FORM 2734/3, BASELINE

Table 5-1. 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 Mission Support Alliance			a. Name Mission Support Contract			a. Name Mission Support Contract			a. From (2020/10/26)									
b. Location (Address and Zip Code) Richland, WA 99352			b. Number RL14728			b. Phase Operations			b. To (2020/11/22)									
c. TYPE CPAF			d. Share Ratio			c. EVMS ACCEPTANCE No <input checked="" type="checkbox"/> Yes												
5. CONTRACT DATA																		
a. ORIGINAL NEGOTIATED COST \$2,854,966			b. NEGOTIATED CONTRACT CHANGES \$1,823,893		c. CURRENT NEGOTIATED COST (a+b) \$4,678,859		d. ESTIMATED COST OF UNAUTHORIZED UNPRICED WORK \$0			e. CONTRACT BUDGET BASE (C+D) \$4,678,859		f. TOTAL ALLOCATED BUDGET \$4,678,859		g. DIFFERENCE (E - F) \$0				
h. CONTRACT START DATE 2009/05/24			i. CONTRACT DEFINITIZATION DATE 2009/05/24			j. PLANNED COMPLETION DATE 2021/01/24			k. CONTRACT COMPLETION DATE 2021/01/24		l. ESTIMATED COMPLETION DATE 2021/01/24							
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 (15)	TOTAL BUDGET (16)		
			Six Month Forecast By Month						Remaining Forecast By Month									
			DEC FY21 (4)	JAN FY21 (5)	FEB FY21 (6)	MAR FY21 (7)	APR FY21 (8)	MAY FY21 (9)	JUN FY21 (10)	JUL FY21 (11)	JUL FY21 (12)	AUG FY21 (13)	NOV FY21 (14)					
a. PERFORMANCE MEASUREMENT BASELINE (Beginning of Period)	3,055,069	32,477	0	0	0	0	0	0	0	0	0	0	0	0	13,075	3,100,621		
b. BASELINE CHANGES AUTHORIZED DURING REPORT PERIOD	34,188	(32,477)	23,786	26,868	0	0	0	0	0	0	0	0	0	0	10,657	63,021		
c. PERFORMANCE MEASUREMENT BASELINE (End of Period)	3,089,257	0	23,786	26,868	0	0	0	0	0	0	0	0	0	0	23,732	3,163,641		



Table 5-1, cont. Format 3, DD Form 2734/3, Baseline

FORM APPROVED
OMB No. 0704-0188

DOLLARS IN Thousands

1. Contractor		2. Contract		3. Program			4. Report Period									
a. Name Mission Support Alliance		a. Name Mission Support Contract		a. Name Mission Support Contract			a. From (2020/10/26)									
b. Location (Address and Zip Code) Richland, WA 99352		b. Number RL14728		b. Phase Operations			b. To (2020/11/22)									
c. TYPE CPAF		d. Share Ratio		c. EVMS ACCEPTANCE No X Yes												
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 (15)	TOTAL BUDGET (16)
			Six Month Forecast By Month						Remaining Forecast By Month							
			DEC FY21 (4)	JAN FY21 (5)	FEB FY21 (6)	MAR FY21 (7)	APR FY21 (8)	MAY FY21 (9)	JUN FY21 (10)	JUL FY21 (11)	JUL FY21 (12)	AUG FY21 (13)	NOV FY21 (14)			
a2. NON - PERFORMANCE MEASUREMENT BASELINE (Beginning of Period)	1,478,583	12,918	0	0	0	0	0	0	0	0	0	0	0	0	0	1,491,502
b2. BASELINE CHANGES AUTHORIZED DURING REPORT PERIOD	12,918	(12,918)	11,118	12,006	0	0	0	0	0	0	0	0	0	0	0	23,124
c2. NON - PERFORMANCE MEASUREMENT BASELINE (End of Period)	1,491,502	0	11,118	12,006	0	0	0	0	0	0	0	0	0	0	0	1,514,626
7. MANAGEMENT RESERVE																592
8. TOTAL	4,580,758	0	34,904	38,874	0	0	0	0	0	0	0	0	0	0	23,732	4,678,859



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

Table 6-1, Format 5, DD Form 2734/5, Explanations and Problem Analysis

1. Contractor	2. Contract	3. Program	4. Report Period
a. Name Mission Support Alliance	a. Name Mission Support Contract	a. Name Mission Support Contract	a. From (2020/10/26)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728	b. Phase - Operations	b. To (2020/11/22)
	c. Type CPAF	d. Share Ratio NO X YES	

5. Evaluation
<p><u>Explanation of Variance /Description of Problem:</u></p> <p>Current Month Cost Variance (CV):</p> <p>3001.01.01 Safeguards and Security – The favorable CM CV is primarily due the definitization of the contract modification (Mod) 938. The current month point adjustment aligned the FYTD baseline with FYTD Integrated Investment Portfolio and moved the MSC End of Contract to January 24, 2021, allowing work to be planned an additional two months.</p> <p>3001.01.02 Fire and Emergency Response – The favorable CM CV is primarily because of the time phasing of a back-payment of firefighter captains overtime pay due to a legal settlement that was budgeted in November but occurred in October.</p> <p>3001.03.02 Information Systems – The favorable CM CV is primarily due to a current period baseline adjustments associated with Mod 938. The current month point adjustment aligned the FYTD baseline with FYTD Integrated Investment Portfolio and moved the MSC End of Contract to January 24, 2021, allowing work to be planned an additional two months.</p> <p>3001.04.12 Hanford Historic Buildings Preservation – The favorable CM CV is due to time phasing of carryover from FY20, and extending costs planned in October and November due to COVID-19.</p> <p>3001.04.17 General Supplies Inventory – The favorable CM CV is due to more items sold from inventory than purchases restocking the inventory account.</p>



Table 6-1, cont. Format 5, DD Form 2734/5, Explanations and Problem Analysis

1. Contractor	2. Contract		3. Program	4. Report Period
a. Name Mission Support Alliance	a. Name Mission Support Contract		a. Name Mission Support Contract	a. From (2020/10/26)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2020/11/22)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NO X YES	
5. Evaluation				
<p>3001.06.01 Business Operations – The favorable CM CV is due to implementation of Mod 938. The current month point adjustment aligned the FYTD baseline with FYTD Integrated Investment Portfolio and moved the MSC End of Contract to January 24, 2021, allowing work to be planned an additional two months.</p> <p>3001.08.01 Water System – The favorable CM CV is primarily due to:</p> <ul style="list-style-type: none"> Project L-781, <i>181D Vertical Turbine Pumps</i>, because the Request For Equitable Adjustment (REA) submitted by the Architect/Engineer (A/E) for the Hydraulic and Economic Analysis of Export Water Pumping Alternatives (HFN-ENG-64490) was lower than expected due to labor hours used by the A/E. The project expected final cost of the REA to be higher, and had an accrual in a previous month that caused a negative cost reversal in Fiscal Month (FM) November. Project L-826, <i>181B Vertical Turbine Pumps</i>, because the request for services (RFS) submitted by the A/E for the Hydraulic and Economic Analysis of Export Water Pumping Alternatives (HFN-ENG-64490) was lower than expected due to labor hours that the A/E used. The project expected the final cost of the REA to be higher and had an accrual in a previous month that caused a negative cost reversal in FM November. <p>3001. A1 – 3001.B1 Non-PMB – The favorable CM CV is primarily due to a reduction in variable services provided to CH2M HILL Plateau Remediation Company (CHPRC) and Washington River Protection Solutions LLC (WRPS) FY21 requesting less usage based services due to the COVID-19 pandemic.</p>				



Table 6-1, cont. Format 5, DD Form 2734/5, Explanations and Problem Analysis

1. Contractor	2. Contract		3. Program	4. Report Period
a. Name Mission Support Alliance	a. Name Mission Support Contract		a. Name Mission Support Contract	a. From (2020/10/26)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2020/11/22)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NO X YES	
5. Evaluation				
<p>Variable Service Pools - Non-PMB – The WBS elements 3001.01.04 – 3001.06.06 represent the usage-based pool, General and Administrative (G&A), and Direct Labor Adder (DLA) accounts. Offsetting liquidation of service to customers occurs with WBS 3001.A7.01 - 3001.A7.03.</p> <p>Impacts – Current Month Cost Variance: No significant impacts are associated with the CM CV.</p> <p>Corrective Action – Current Month Cost Variance: None</p> <p>Current Month Schedule Variance:</p> <p>3001.08.01 Water System – The unfavorable CM SV is primarily due to Project L-897, <i>Central Plateau Water Treatment Facility</i>, because of a delay in awarding the Membrane and Processing Equipment subcontract. The project originally planned the membrane subcontract for award during FM September FY20 with manufacturing activities taking place in the current period. The project expects award of the subcontract during FM December FY21 due to delays incurred from a request to extend the proposal due date and additional time needed to validate assumptions and exceptions for this technical and complex procurement. This is partially offset by the favorable CM SV in Project L-850, <i>Replace 200W 1.1M-gal PW Tank</i>, due to the construction subcontractor completing their bonding & fabrication submittals ahead of schedule in FM November rather than the planned FM December.</p> <p>3001.08.02 Sewer System – The unfavorable CM SV resulted from Project L-854, <i>200E Sewer Consolidation</i>, performing work earlier than planned due to resource readiness/availability as mentioned in previous report(s); specifically, completing the mechanical decommissioning efforts with existing systems.</p>				



Table 6-1, cont. Format 5, DD Form 2734/5, Explanations and Problem Analysis.

1. Contractor	2. Contract		3. Program	4. Report Period
a. Name Mission Support Alliance	a. Name Mission Support Contract		a. Name Mission Support Contract	a. From (2020/10/26)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2020/11/22)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NO X YES	
5. Evaluation				
<p>3001.08.03 Electrical System – The favorable CM SV resulted because of Project L-789, <i>Priorit T&D Sys Wood PP Test & Replace</i>, due to implementation of the BCR that replans remaining corridor work scope. The project plans underground cable for mid-December delivery. Based on expected procurement lead times for necessary materials, corridor fieldwork scope, the project anticipates restart on January 25, 2021 and completion March 8, 2021.</p> <p>3001.08.04 Roads and Grounds – The favorable CM SV resulted from Project L-603, <i>Chip Seal Route 3N (Route 11A to Route 3)</i> because of a point adjustment in the current period as approved per BCR VMSA-21-007. The BCR removed L-603 fieldwork scope planned in previous periods and replanned the scope in the Post Contract Baseline during the 2021 construction season.</p> <p>3001.08.05 Facility System – The unfavorable CM SV resulted from Project L-934, <i>MSC Office Space Gap Reduction - 200E</i>, delayed delivery of the mobile office trailers. The baseline delivery for the trailers was November 2020. The manufacturer identified that the specified electrical panels were not immediately available and proposed to substitute electrical panels. Since delivery is not on the critical path, the project decided to allow the manufacturer to reschedule delivery of the as-specified electrical panels for December 2020.</p> <p>3001.08.08 Network & Telecommunications System – The favorable CM SV resulted from:</p> <ul style="list-style-type: none"> Project H-001, <i>Business Mgmt. Systems Upgrade</i>. The project experienced a current period point adjustment due to realization of risks that precluded the start of execution because the procurement consent package has been in review with DOE. Upon receipt of the consent, the project plans rescheduling to begin, at the earliest, in FM February 2021. The submission of the consent package was initially delayed in the June - August 2020 time periods due to a longer than anticipated duration required to receive final vendor proposals, evaluate proposals, and develop the consent package materials. 				



Table 6-1, cont. Format 5, DD Form 2734/5, Explanations and Problem Analysis

1. Contractor	2. Contract		3. Program	4. Report Period
a. Name Mission Support Alliance	a. Name Mission Support Contract		a. Name Mission Support Contract	a. From (2020/10/26)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2020/11/22)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NO X YES	
5. Evaluation				
<p>The unfavorable CM SV partially offsets the favorable CM SV:</p> <ul style="list-style-type: none"> Project L-921, <i>Telecom Hut at Met Tower</i> due to not beginning construction execution as planned for Task 1 (Site Preparation) and for Task 3 (Fiber Optic Cable Installation). The project has been experiencing delays in getting a construction subcontract awarded. The projects award of the construction subcontract in mid-January 2021 and expects to begin work on Task 1 in February 2021. Project L-937, <i>Gable East Footprint Reduction (Phase 1)</i> due to the late starts with the engineering change requests (ECRs) and work package preparation on the Tower Grooming, Solar Array, Air Sampling Unit, and Seismic Station. The project also added time for subcontractor solicitation that led to a delayed start on construction scheduled to begin in November 2020. Project L-919, <i>Emergency Radio Upgrade</i> delays are due to not beginning construction execution for Task 1 as planned for the Portable Radios, Mobile Radios, and Base station Radios. The project has been experiencing delays in getting a construction subcontract awarded. Once the project awards the construction subcontract in mid-January 2021, the project expects to begin work on Task 1 in February 2021. <p>Impacts – Current Month Schedule Variance: Impacts to Reliability Projects are minimal because most Reliability Projects are independent stand-alone projects.</p> <p>Corrective Action – Current Month Schedule Variance: None.</p> <p>3001.01.01 Safeguard and Security - The favorable CTD CV is due to a 2020 year-end variance distributions, labor underruns resulting from implementation of COVID-19 procedures, anticipated 1.5% retroactive back to Nov 2019 pay increase for Hanford Guard Union (HGU) members that has not taken place, attrition, rate variances, R-Time for hazardous roads and subcontract underruns due to time phasing or realized at lower-than-planned cost and the current month point adjust moved aligned the FYTD baseline with FYTD Integrated Investment Portfolio.</p>				



Table 6-1, cont. Format 5, DD Form 2734/5, Explanations and Problem Analysis

1. Contractor	2. Contract		3. Program	4. Report Period
a. Name Mission Support Alliance	a. Name Mission Support Contract		a. Name Mission Support Contract	a. From (2020/10/26)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2020/11/22)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NO X YES	
5. Evaluation				
<p>3001.004.03 Electrical Services – The favorable CTD CV is primarily due to labor underruns because of COVID-19 stop work and "essential mission critical operations" posture and fewer linemen than normally on site.</p> <p>3001.08.01 Water System – The favorable CTD CV is because of:</p> <ul style="list-style-type: none"> Project L-894, <i>Raw Water Cross Connect Isolation 200E/W</i>. The Engineering Study report cost less than planned, conceptual design used fewer resources than originally planned, the Definitive Design cost underrun, and the firm fixed price construction contract awarded at less than the planned value. <p>In addition, completed projects:</p> <ul style="list-style-type: none"> Project L-449, Mortar Line 12-in Water Line – Baltimore. The variance in this account is due to the approved funding and priority list scope being divergent from the baseline. Project L-419, Line Renovation/Replacement from 2901U to 200E had a fixed price contract that was awarded/completed at a lower cost than budgeted. Project L-840, <i>24in Line Replacement from 2901Y to 200W</i> had savings on construction subcontracts due to the contractor's expertise in this type of construction and encountering significantly less difficult site conditions. Projects L-399, <i>T-Plant Potable & Raw Water Line Rest</i>, and L-525, <i>24-inch Line Replacement from 2901Y to 200W</i>, and L-311, <i>Refurbish 200W Raw Water Reservoir</i> experienced savings on materials and fixed price construction contracts. <p>3001.A1 – 3001.B1 Non-PMB – The favorable CTD CV is primarily due to a reduction in Variable Services provided to CH2M HILL Plateau Remediation Company (CHPRC) work scope related to a site-wide stop work caused by COVID-19. The stop work had a lesser impact on Washington River Protection Solutions LLC (WRPS).</p>				



Table 6-1, cont. Format 5, DD Form 2734/5, Explanations and Problem Analysis

1. Contractor	2. Contract		3. Program	4. Report Period
a. Name Mission Support Alliance	a. Name Mission Support Contract		a. Name Mission Support Contract	a. From (2020/10/26)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2020/11/22)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NO X YES	
5. Evaluation				
<p>Variable Service Pools - Non-PMB. Note that for the non-PMB, the WBS elements 3001.01.04 - 3001.06.06 represent the Usage-Based Pool, General and Administrative (G&A), and Direct Labor Adder (DLA) accounts that are offset by the liquidation of services to customers through WBS 3001.A7.01 – 3001.A7.03. The underruns in the liquidations/revenue accounts (3001.A7.01 – 3001.A7.03) are primarily due to labor underruns in FY 2020 resulting from COVID-19 impacts.</p> <p>Impacts - Cumulative Cost Variance: The favorable CTD CV is primarily due to COVID-19 stop work, and "essential mission critical operations" posture.</p> <p>Corrective Action - Cumulative Cost Variance: None.</p> <p>Cumulative Schedule Variance:</p> <p>3001.08.01 Water System – Unfavorable CTD SV is primarily due to:</p> <ul style="list-style-type: none"> • Project L-897, <i>Central Plateau Water Treatment Facility</i> unfavorable CTD SV is due to a delay in awarding the Membrane and Processing Equipment subcontract. The project planned the membrane subcontract for award during FM September FY20 with manufacturing activities starting in September FY20. Due to delays incurred from a request to extend the proposal due date, and additional time required to validate assumptions and exceptions for this technical and complex procurement, the project expects award of this subcontract during FM December FY21. • Project L-895, <i>Fire Protection Infrastructure for PRW</i>. Delays to several activities scheduled to complete in prior FMs including installation of network switches/hardware and 200W Operational Acceptance Test (OAT) procedure development. The project incurred activity delays because of changes in construction execution sequencing, including critical lift plan development, due to concerns with hoisting and rigging of critical and heavy pump components. 				



Table 6-1, cont. Format 5, DD Form 2734/5, Explanations and Problem Analysis

1. Contractor	2. Contract		3. Program	4. Report Period
a. Name Mission Support Alliance	a. Name Mission Support Contract		a. Name Mission Support Contract	a. From (2020/10/26)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2020/11/22)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NO X YES	
5. Evaluation				
<p>These are partially offset by the favorable CTD SV in Project L-850, <i>Replace 200W 1.1M-gal PW Tank</i>, due to the construction subcontractor completing their bonding & fabrication submittals ahead of schedule in FM November 2020 rather than the planned FM December 2020.</p> <p>3001.08.03 Electrical System – Unfavorable CTD SV is primarily due to:</p> <p>Project L-861, <i>Single-Circuit Distribution Pole Replace</i>. Due to receiving the 30% design media and performing succeeding activities ahead of schedule. The project baseline was revised and structured in November’s contract extension BCR to maintain an agreeable level of confidence throughout the entire design phase.</p> <p>Project L-898, <i>100 Area Mission Crit. Dist. Feeders Repl.</i> Due to additional outreach related to Design-Build delivery and conversion of SOW to BMA format.</p> <p>Project L-720, <i>Outdoor Lighting Reconfiguration and Repl.</i> Due to delays with the construction award due to repeated CSOW revisions required to capture design changes and detail contractor qualifications.</p> <p>Project L-791, <i>RFL Transfer Trip Upgrades</i>. Installation of the A8 Pole Line has been delayed due to the uncertainty of whether the pole line is still required (this is tied to the L-612 project design). To avoid an unnecessary risk of installing the A8 fiber pole line, the project requires the BPA signature for the construction agreement.</p> <p>3001.08.04 Roads and Grounds – Unfavorable CTD SV is primarily due to Project L-603, <i>Chip Seal Route 3N (Route 11A to Route 3)</i> and ongoing discussions with the construction subcontractor regarding the final amount and cost of material procured by the construction subcontractor’s lower tiers in preparation of chip sealing Route 3N prior to subcontract cancellation. Once finalized, the project will take performance for these material amounts and costs.</p>				



Table 6-1, cont. Format 5, DD Form 2734/5, Explanations and Problem Analysis

1. Contractor	2. Contract		3. Program	4. Report Period
a. Name Mission Support Alliance	a. Name Mission Support Contract		a. Name Mission Support Contract	a. From (2020/10/26)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2020/11/22)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NO X YES	
5. Evaluation				
<p>3001.08.05 Facility System – Unfavorable CTD SV resulted from:</p> <ul style="list-style-type: none"> Project L-934, <i>MSC Office Space Gap Reduction - 200E</i>. The unfavorable CTD SV resulted from delayed delivery of the mobile office trailers. The baseline delivery for the trailers was November 2020. The manufacturer identified that the specified electrical panels were not immediately available and proposed to substitute electrical panels. Since delivery is not on the critical path, the project decided to allow the manufacturer to reschedule delivery of the as-specified electrical panels for December 2020. Project L-933, <i>Install Mobile Office Trailers - 200E</i>. Delays occurred relating to construction phase activities planned to start August 25. Four key critical path drivers contributed to the schedule variance. These are: <ol style="list-style-type: none"> MSA determined the need for a topographic survey to ascertain the viability of a gravity-flow sewer line. The subcontract procurement process and lack of timely availability of the survey subcontractor delayed receipt of the survey and advancement of the sewer design process. The sewer design activity required more time than anticipated for completing the review of the draft sewer design ECR. Last minute comments received during the workflow approval process created additional delay to the final sewer design ECR. A Hanford Site Closure for one week delaying the construction request for proposal on-site pre-bid meeting, and the procurement cycle requiring a Best and Final Offer (BAFO) added another week delay. 				



Table 6-1, cont. Format 5, DD Form 2734/5, Explanations and Problem Analysis

1. Contractor	2. Contract	3. Program	4. Report Period
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b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728	b. Phase - Operations	b. To (2020/11/22)
	c. Type CPAF	d. Share Ratio NOX YES	
5. Evaluation			

3001.08.08 Network Telecommunication System – The unfavorable CTD SV is primarily from:

- Project L-919, *Emergency Radio Upgrade*. After a seven-month delay, MSA awarded the service contract that includes design of the core, and a bill of materials for procurement on September 30, 2020. The delay resulted in not receiving Core Materials (\$1.6 M) that were baselined to arrive in October. MSA expects award of the Construction Contract that includes installation of radios in January 2021 and delivery of the core materials in March 2021.
- Project L-937, *Gable East Footprint Reduction (Phase 1)*. CTD SV is because of the cumulative impact described in previous CM variances, and due to the late starts in ECR and work package development. The project uses schedule float for additional time in work planning, and the project forecasts efficiencies going forward with the solicitation process in order to start construction on time. The project expects to meet the milestone on May 27, 2021 to turn off the Generator.
- Project L-921, *Telecom Hut at Met Tower*. CTD SV is due to being behind on construction execution for Task 1 (Site Preparation) and Task 3 (Fiber Optic Cable Installation). The project has been experiencing delays in getting a construction subcontract awarded. The project expects award of the construction subcontract in late December 2020, and plans to begin work on Task 1 & Task 3 in January 2021.

Impacts - Cumulative Schedule Variance: Impacts to Reliability Projects are minimal because most reliability projects are independent stand-alone projects.

Corrective Action – Cumulative Schedule Variance: No corrective action is required because most of these projects are stand-alone.



Table 6-1, cont. Format 5, DD Form 2734/5, Explanations and Problem Analysis

1. Contractor	2. Contract		3. Program	4. Report Period
a. Name Mission Support Alliance	a. Name Mission Support Contract		a. Name Mission Support Contract	a. From (2020/10/26)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2020/11/22)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NOX YES	
5. Evaluation				
<p>Variance at Complete:</p> <p>The favorable VAC in the Performance Measurement Baseline (PMB) and non-PMB is primarily due to underruns associated with the COVID-19 pandemic and affiliate credits on IT scope. On November 18, 2020 MSA submitted a FY20 Cost Variance Proposal that will true-up the contract value associated with the COVID-19 impacts through FY20.</p> <p>Impacts – At Complete Variance: None.</p> <p>Corrective Action - At Complete Variance:</p> <p>The COVID-19 pandemic resulted in the current “essential mission critical operations” posture for MSA that began on March 23, 2020, and continued through fiscal month November 2020. The project expects the variance to decrease in December 2020 due to expected operational productivity efficiencies while COVID-19 Phase 2 operations continue.</p> <p><u>Negotiated Contract Changes:</u></p> <p>The Negotiated Contract Cost for November 2020 increased \$85.7M from \$4,593.2M to \$4,678.9M primarily due to Mod 938 Move MSC End of Contract to Jan 24, 2021.</p> <p><u>Changes in Estimated Cost of Authorized Unpriced Work:</u></p> <p>The Authorized Unpriced Work (AUW) for the reporting period remained at zero.</p>				

Table 6-1, cont. Format 5, DD Form 2734/5, Explanations and Problem Analysis

1. Contractor	2. Contract		3. Program	4. Report Period
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b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2020/11/22)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NOX YES	
5. Evaluation				
<p><u>Changes in Estimated Price:</u></p> <p>The Estimated Price for November 2020 increased \$73.5M from \$4,743.4M to \$4,816.9M. This increase is primarily due Mod 938 Move MSC End of Contract to Jan 24, 2021. The Estimated Price includes the Most Likely Management Estimate at Completion (MEAC) of \$4,562.6M and fee of \$254.3M.</p> <p><u>Changes in Undistributed Budget:</u></p> <p>The UB for this reporting period increased \$10.6M from \$13.1M to \$23.7M. The primary reason for the change was Mod 938 Move MSC End of Contract to Jan 24, 2021 and realigning Reliability Projects. The following BCRs changed the UB:</p> <ul style="list-style-type: none"> • VMSA-21-007 – Mod 938 – Move MSC End of Contract to Jan 24, 2021 for Numerous RP Project in the PMB from the PCB & Align Scope to FY 2021 CBAG Guidance/RP Transition Plan. • VMSA-21-008 – Mod 938 - Move MSC End of Contract to Jan 24, 2021 for LOE Work Scope into the PMB from the PCB and add Fee. <p><u>Changes in Management Reserve:</u></p> <p>The Management Reserve (MR) for this reporting period decreased \$0.48M from \$1.07M to \$0.59M. The primary reason for the change in MR was realigning Reliability Projects. The following BCR changed the MR:</p> <ul style="list-style-type: none"> • VMSA-21-007 – Mod 938 – Move MSC End of Contract to Jan 24, 2021 for Numerous RP Project in the PMB from the PCB & Align Scope to FY 2021 CBAG Guidance/RP Transition Plan. 				





Table 6-1, cont. Format 5, DD Form 2734/5, Explanations and Problem Analysis

1. Contractor	2. Contract		3. Program	4. Report Period
a. Name Mission Support Alliance	a. Name Mission Support Contract		a. Name Mission Support Contract	a. From (2020/10/26)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2020/11/22)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NOX YES	
5. Evaluation				

Differences in the Performance Measurement Baseline:

This reporting period the Performance Measurement Baseline increased \$63.0M from \$3,100.6M to \$3,163.6M Mod 938 Move MSC End of Contract to Jan 24, 2021 allowing work to be planned an additional two months. The following BCRs changed the PMB:

- VMSA-21-007 – Mod 938 – Move MSC End of Contract to Jan 24, 2021 for Numerous RP Project in the PMB from the PCB & Align Scope to FY 2021 CBAG Guidance/RP Transition Plan
- VMSA-21-008 – Mod 938 - Move MSC End of Contract to Jan 24, 2021 for LOE Work Scope into the PMB from the PCB and add Fee

The following BCRs were Administrative in Nature and did not change the PMB:

- VMSA-21-005 – Administrative BCR - Create a Level 3 and Numerous Level 4 for MSC Closeout Office
- VMSA-21-006 Rev 1 – Administrative BCR – Create Lower Level Task Order (LLTO) WBSs for Cost Collection Established in the Month of November.



Table 6-1, cont. Format 5, DD Form 2734/5, Explanations and Problem Analysis

1. Contractor	2. Contract		3. Program	4. Report Period
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b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2020/11/22)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NOX YES	
5. Evaluation				
<p><u>Differences in the Non-Performance Measurement Baseline:</u></p> <p>This reporting period the non-PMB increased \$23.1M from \$1,491.5M to \$1,514.6M primarily due to Mod 938 Move MSC End of Contract to Jan 24, 2021 allowing work to be planned an additional two months. The following BCR changed the PMB:</p> <ul style="list-style-type: none"> • VMSA-21-008 – Mod 938 - Move MSC End of Contract to Jan 24, 2021 for LOE Work Scope into the PMB from the PCB and add Fee <p><u>Best/Worst/Most Likely Management Estimate at Completion (MEAC):</u></p> <p>The Best Case MEAC assumes the completion of the approved work scope at the current negotiated contract value consistent with the Contract Budget Base. The Most Likely MEAC reflects the EAC including MR. The Worst Case Scenario assumes a 5 percent increase to the Most Likely MEAC case scenario.</p>				



7.0 USAGE-BASED SERVICES/DIRECT LABOR ADDER SUMMARY

The Direct Labor Adder (DLA) collects the cost of centralized management, support from others, craft indirect time, and non-labor cost such as training and facilities. These costs are distributed via a rate on direct labor. Usage-Based Services (UBS) are services liquidated to customers (internal and external). The UBS cost is associated with a service and distributed on a unit rate to the customer based upon requests (“pay by the drink”).

Table 7-1. Usage-Based Services/Direct Labor Adder Summary (dollars in thousands).

Fiscal Year 2021 to Date – November 2020					
Account Description	BCWS	BCWP	ACWP	CV	Liquidation
Direct Labor Adder					
Software Engineer Services DLA (3001.03.02.03)	\$492.6	\$492.6	\$508.1	(\$15.5)	(\$563.8)
Content & Records Management DLA (3001.03.01.04)	\$141.6	\$141.6	\$126.2	\$15.4	(\$146.8)
Transportation DLA (3001.04.06.02)	\$963.2	\$963.2	\$845.2	\$118.0	(\$838.3)
Maintenance DLA (3001.04.05.02)	\$1,625.2	\$1,625.2	\$1,252.8	\$372.4	(\$1,437.2)
Janitorial Services DLA (3001.04.05.03)	\$314.2	\$314.2	\$327.8	(\$13.6)	(\$356.4)
Total Direct Labor Adder	\$3,536.8	\$3,536.8	\$3,060.1	\$476.7	(\$3,342.5)

ACWP = Actual Cost of Work Performed
 BCWP = Budgeted Cost of Work Performed

CV = Cost Variance
 BCWS = Budgeted Cost of Work Scheduled

BAC = Budget at Completion
 FYTD = Fiscal Year to Date

Table 7-1, cont. Usage-Based Services/Direct Labor Adder Summary (dollars in thousands).

Fiscal Year 2021 to Date – November 2020					
Account Description	BCWS	BCWP	ACWP	CV	Liquidation
Usage Based Services					
Training (3001.01.04.02)	\$2,346.1	\$2,346.1	\$2,593.5	(\$247.4)	(\$2,708.2)
HRIP (3001.02.04.02)	\$663.1	\$663.1	\$662.2	\$0.9	(\$893.8)
Dosimetry (3001.02.04.03)	\$818.7	\$818.7	\$661.9	\$156.8	(\$727.2)
Information Technology Services (3001.03.07.01)	\$5,413.9	\$5,413.9	\$6,188.2	(\$774.3)	(\$5,848.9)
Work Management (3001.04.13.01)	\$110.7	\$110.7	\$102.4	\$8.3	(\$86.8)
Courier Services (3001.04.15.02)	\$37.8	\$37.8	\$32.6	\$5.2	(\$31.5)
Occupancy (3001.04.14.06)	\$1,501.3	\$1,501.3	\$1,723.2	(\$221.9)	(\$1,733.5)
Crane & Rigging (3001.04.08.02)	\$1,800.1	\$1,800.1	\$1,682.7	\$117.4	(\$2,031.6)
Fleet (3001.04.07.02)	\$2,410.0	\$2,410.0	\$2,107.3	\$302.7	(\$2036.7)
Total UBS	\$15,101.7	\$15,101.7	\$15,754.0	(\$652.3)	(\$16,098.2)
Total DLA/ UBS	\$18,638.5	\$18,638.5	\$18,814.1	(\$175.6)	(\$19,440.7)

ACWP = Actual Cost of Work Performed.

CV = Cost Variance

BAC = Budget at Completion.

BCWP = Budgeted Cost of Work Performed.

BCWS = Budgeted Cost of Work Scheduled.

FYTD = Fiscal Year to Date

Variance (\$0.2M) - The fiscal year to date unfavorable cost variance is driven by the Information Technology UBS account which incurred a higher level of maintenance/license procurement costs than planned. This timing of subcontract license and maintenance costs have resulted in slightly higher costs than plan year-to-date.



8.0 RELIABILITY PROJECT STATUS

Activity in November was centered on continuing progress on projects carried over from FY 2019. (Table 8-1 below.)

Table 8-1. Current Active Reliability Project Summary

Work Scope Description (Reliability Projects)	Projects to be Completed (\$000's)														
	Contract to Date - Performance							PMB Project Baseline				PMB Completion Dates			
	BCWS	BCWP	ACWP	SV	CV	SPI	CPI	BAC	EAC	VAC	% Complete	Forecast Date	Baseline Complete Date	PMB Schedule at Complete	
L-850, Replace 200W 1.1M-gal PW Tank	1,695.2	1,898.7	2,166.2	203.5	(267.5)	1.12	0.88	2,491.4	2,886.6	(395.2)	76%	1/21/2021	1/21/2021	G	
L-849, Replace 200E 1.1M-gal PW Tank	963.8	959.8	804.9	(4.0)	155.0	1.00	1.19	1,035.1	940.5	94.6	93%	1/25/2021	1/21/2021	Y	
L-894, Raw Water Cross Connection Isolation 200E/W	8,310.4	8,310.5	7,132.3	0.0	1,178.2	1.00	1.17	8,348.1	7,173.5	1,174.6	100%	1/21/2021	1/21/2021	G	
L-895, Fire Protection Infrastructure for Plateau Raw Water	10,122.9	9,783.3	9,431.6	(339.6)	351.6	0.97	1.04	10,662.6	10,327.7	334.9	92%	5/4/2021	1/21/2021	R	
L-357, Repl 12-in. Potable Water to 222-S Lab	1,654.4	1,654.4	1,708.8	0.0	(54.5)	1.00	0.97	1,654.4	1,708.8	(54.5)	100%	8/25/2020	7/15/2019	R	
L-781, 181D Vertical Turbine Pumps	721.1	721.1	426.6	0.0	294.5	1.00	1.69	783.2	482.0	301.3	92%	1/26/2021	1/21/2021	Y	
L-897, Central Plateau Water Treatment Facility	4,470.5	3,736.5	3,499.9	(734.0)	236.6	0.84	1.07	5,486.5	5,170.3	316.2	68%	7/1/2021	1/24/2021	R	
L-826, 181B Vertical Turbine Pumps	651.4	651.4	350.7	0.0	300.7	1.00	1.86	695.1	394.3	300.9	94%	1/26/2021	1/21/2021	Y	
L-839, 12" Potable Water Loop Line to WTP	500.0	501.5	357.8	1.4	143.6	1.00	1.40	507.3	371.5	135.7	99%	1/21/2021	1/21/2021	G	
L-853, 200E Sewer Flow Equalization Facility	6,276.0	6,275.8	6,850.7	(0.2)	(574.9)	1.00	0.92	6,312.6	6,881.8	(569.3)	99%	1/21/2021	1/21/2021	G	
L-854, 200E Sewer Consolidations	6,284.4	6,274.3	6,556.7	(10.1)	(282.4)	1.00	0.96	6,395.9	6,639.4	(243.6)	98%	1/21/2021	1/21/2021	G	
L-789, Prioritize T&D Sys Wood PP Test & Replace	7,521.1	7,517.9	8,042.8	(3.2)	(524.9)	1.00	0.93	7,963.6	8,486.0	(522.4)	94%	5/25/2021	1/21/2021	R	
L-898, 100 Area Mission Crit. Dist. Feeders Repl	166.1	43.6	22.9	(122.4)	20.7	0.26	1.91	166.1	145.6	20.5	26%	3/8/2021	11/20/2020	R	
L-801, Upgrade SCADA	1,407.7	1,403.4	1,476.6	(4.3)	(73.2)	1.00	0.95	1,478.2	1,555.6	(77.4)	95%	2/11/2021	1/21/2021	Y	
L-791, RFL Transfer Trip Upgrades	1,112.1	1,003.6	821.6	(108.4)	182.0	0.90	1.22	1,129.4	947.0	182.4	89%	8/9/2021	1/18/2021	R	

*** Excludes Level-of-Effort work scopes

SPI & CPI	
G	>= 0.90
Y	>= 0.70 & < 0.90
R	< 0.70

Schedule at Complete	
G	On schedule
Y	1-30 working days behind schedule
R	>30 working days behind schedule

VAC Cost	
G	Underspent or <100K over
Y	>100K Over Spent
R	>300K Over Spent

Table 8-1. Current Active Reliability Project Summary (cont.)

Projects to be Completed (\$000's)														
Work Scope Description (Reliability Projects)	Contract to Date - Performance							PMB Project Baseline				PMB Completion Dates		
	BCWS	BCWP	ACWP	SV	CV	SPI	CPI	BAC	EAC	VAC	% Complete	Forecast Date	Baseline Complete Date	PMB Schedule at Complete
L-720, Outdoor Lighting Reconfiguration and Repl	322.2	202.7	414.2	(119.5)	(211.5)	0.63	0.49	419.1	632.8	(213.7)	48%	5/5/2021	1/21/2021	R
L-707, Advanced Electrical Metering	30.5	30.0	76.6	(0.5)	(46.6)	0.98	0.39	45.6	92.3	(46.7)	66%	2/10/2021	1/21/2021	Y
H-006, 10 CFR 851	3,094.7	3,010.5	2,642.1	(84.2)	368.3	0.97	1.14	3,399.2	2,795.3	603.9	89%	1/21/2021	1/21/2021	G
L-861, Single Circuit Distribution Pole Replacement	683.8	832.6	818.7	148.8	13.8	1.22	1.02	1,015.1	1,012.6	2.5	82%	1/21/2021	1/21/2021	G
L-612, 230kV Trans Sys Recon & Sustainability	2,367.9	2,364.0	1,714.2	(3.9)	649.8	1.00	1.38	2,488.3	1,864.8	623.5	95%	3/10/2021	1/21/2021	R
L-603, Chip Seal Route 3N (Route 11A to Route 3)	511.5	183.9	199.3	(327.7)	(15.4)	0.36	0.92	528.0	741.8	(213.7)	35%	1/21/2021	1/21/2021	G
L-879, Overlay Cypress Street	1,062.3	1,076.0	738.2	13.7	337.8	1.01	1.46	1,132.2	756.6	375.6	95%	1/25/2021	1/21/2021	Y
L-883, Chip Seal Rt 10, SR-240 to WYE Barricade	12.2	12.2	11.2	0.0	0.9	1.00	1.08	28.1	22.9	5.2	43%	1/21/2021	1/21/2021	G
L-534, Overlay Interior 200 East Roads	12.0	12.0	12.0	(0.0)	0.0	1.00	1.00	27.7	23.6	4.1	43%	1/21/2021	1/21/2021	G
L-888, 400 Area Fire Station	1,764.7	1,764.9	1,802.2	0.2	(37.3)	1.00	0.98	1,874.8	1,900.3	(25.5)	94%	1/21/2021	1/21/2021	G
L-796, Key Facilities Roof Replacements	2,092.1	2,092.1	2,213.5	0.0	(121.3)	1.00	0.95	2,092.1	2,213.5	(121.3)	100%	10/1/2020	8/20/2020	R
L-907, Fleet Complex Site Development	54.7	28.6	22.9	(26.1)	5.7	0.52	1.25	63.4	57.7	5.7	45%	2/18/2021	1/21/2021	Y
L-798, 2101M HVAC Replacement	265.3	264.7	160.5	(0.6)	104.2	1.00	1.65	265.3	164.2	101.1	99.8%	12/1/2020	7/6/2020	R
L-797, Key Facilities HVAC Replacements	409.5	408.7	310.7	(0.8)	98.0	1.00	1.32	409.5	312.2	97.3	99.8%	12/1/2020	7/29/2020	R
L-933, Install Mobile Office Trailers - 200E	2,162.7	1,161.0	1,181.9	(1,001.8)	(20.9)	0.54	0.98	2,162.7	2,157.9	4.8	54%	1/21/2021	11/19/2020	R

*** Excludes Level-of-Effort work scopes

SPI & CPI	
G	>= 0.90
Y	>= 0.70 & < 0.90
R	< 0.70

SPI & CPI	
G	>= 0.90
Y	>= 0.70 & < 0.90
R	< 0.70

SPI & CPI	
G	>= 0.90
Y	>= 0.70 & < 0.90
R	< 0.70

Table 8-1. Current Active Reliability Project Summary (cont.)

Projects to be Completed (\$000's)														
Work Scope Description (Reliability Projects)	Contract to Date - Performance							PMB Project Baseline				PMB Completion Dates		
	BCWS	BCWP	ACWP	SV	CV	SPI	CPI	BAC	EAC	VAC	% Complete	Forecast Date	Baseline Complete Date	PMB Schedule at Complete
L-934, MSC Office Space Gap Reduction - 200E	2,538.4	95.5	119.0	(2,443.0)	(23.5)	0.04	0.80	2,722.7	2,164.8	557.9	4%	1/21/2021	1/21/2021	G
H-008 EVOC Track Resurfacing	1,203.5	1,203.5	621.4	0.0	582.1	1.00	1.94	1,203.5	621.4	582.1	100%	10/6/2020	11/19/2020	G
L-905, FARS & RFARS Replacement & Upgrade	244.8	195.7	258.6	(49.1)	(62.9)	0.80	0.76	524.4	586.2	(61.8)	37%	2/22/2021	1/21/2021	Y
L-921, Telecom Hut at Met Tower	931.4	344.5	517.4	(586.9)	(172.9)	0.37	0.67	931.4	1,106.0	(174.7)	37%	2/11/2021	11/19/2020	R
L-919, Emergency Radio Upgrade	5,941.3	4,174.1	4,527.1	(1,767.2)	(352.9)	0.70	0.92	5,941.3	6,199.2	(257.9)	70%	3/25/2021	11/19/2020	R
H-002, Enterprise Health Record System	3,960.4	3,960.4	3,798.6	0.0	161.9	1.00	1.04	4,142.2	3,941.9	200.3	96%	1/21/2021	1/21/2021	G
H-003, ABCASH	1,994.4	1,994.4	2,360.3	0.0	(366.0)	1.00	0.84	1,994.4	2,360.3	(366.0)	100%	8/6/2020	8/6/2020	G
H-001, BMS Upgrade	1,241.7	1,241.7	859.8	0.0	381.9	1.00	1.44	1,241.7	875.2	366.6	100%	1/21/2021	1/21/2021	G
L-819, High Capacity Fiber Optic (300 Area)	0.0	0.0	0.0	0.0	0.0	N/A	N/A	0.0	0.0	0.0	0%	9/18/2020	9/18/2020	G
H-007, IT & IM Infrastructure Upgrade and Improvement	2,725.7	2,725.7	2,531.1	0.0	194.5	1.00	1.08	2,725.7	2,531.1	194.5	100%	9/28/2020	9/23/2020	Y
L-937, Gable East Footprint Reduction (Phase 1)	1,143.1	521.4	91.9	(621.7)	429.5	0.46	5.67	1,287.2	694.6	592.5	41%	2/4/2021	1/21/2021	Y
Crane & Rigging System - CENRTC (EC14)	8,329.6	8,329.6	8,141.8	(0.0)	187.8	1.00	1.02	8,329.6	8,141.8	187.8	100%	9/17/2020	9/30/2020	G
Hanford Fire Department - CENRTC (EF32)	5,026.7	5,026.7	1,988.2	0.0	3,038.5	1.00	2.53	5,026.7	1,988.2	3,038.5	100%	4/28/2020	10/17/2019	R
Transportation System - CENRTC (ER16)	1,480.4	1,480.4	2,027.9	(0.0)	(547.6)	1.00	0.73	1,480.4	2,027.9	(547.6)	100%	7/23/2020	9/30/2020	G
Total	103,464.7	95,473.1	89,811.5	(7,991.5)	5,661.6	0.92	1.06	108,611.89	102,098.14	6,513.74	88%			

*** Excludes Level-of-Effort work scopes

VAC Cost	
G	Underspent or <100K over
Y	>100K Over Spent
R	>300K Over Spent

SPI & CPI	
G	>= 0.90
Y	>= 0.70 & < 0.90
R	< 0.70

VAC Cost	
G	Underspent or <100K over
Y	>100K Over Spent
R	>300K Over Spent



RELIABILITY STATUS, CONT.

Reliability Projects Variance Explanations

Contract-to-Date (CTD) Schedule Variances (SV) (Threshold: +/- \$500K):

- L-897, *Central Plateau Water Treatment Facility*: The unfavorable CTDSV is primarily due to a delay in awarding the Membrane and Processing Equipment subcontract. The project originally planned the membrane subcontract for award during FM September FY20 with manufacturing activities taking place in the current period. The project expects award of the subcontract during FM December FY21 due to delays incurred from a request to extend the proposal due date and additional time needed to validate assumptions and exceptions for this technical and complex procurement.
- L-933, *Install Mobile Office Trailers - 200E*: The unfavorable CTD SV is due to the delay of construction phase activities planned to start on August 25th. Five key critical path drivers that contribute to the schedule variance are: 1) Determining a topographic survey needed to ascertain the viability of a gravity flow sewer line. The subcontract procurement process and lack of timely availability of the survey subcontractor delayed receipt of the survey and advancement of the sewer design process. 2) After receiving the topographic survey, the sewer Design Architect (DA) required additional time to complete review of the draft sewer design Engineering Change Request (ECR). 3) Receiving late comments in the workflow approval process caused additional delay for the final sewer design ECR. 4) Hanford Site Closure for one week delayed the construction request for proposal on-site pre-bid meeting. 5) The procurement cycle required a best and final offer (BAFO) that added another week delay.
- L-934, *MSC Office Space Gap Reduction – 200E*: The unfavorable CTD SV is due to the delayed delivery of the mobile office trailers. The baseline delivery for the trailers was November 2020. The manufacturer identified that the specified electrical panels were not immediately available and proposed to substitute electrical panels. Since delivery is not on the critical path, the project decided to allow the manufacturer to reschedule delivery of the as-specified electrical panels for December 2020.
- L-919, *Emergency Radio Upgrade*: The unfavorable CTD SV is due to not beginning construction execution for Task 1 as planned for the Portable Radios, Mobile Radios, and Base-Station Radios. The project has been experiencing delays in getting a construction subcontract awarded. Once the project awards



the construction subcontract in mid-January 2021, the project expects to begin work on Task 1 in February 2021.

- L-937, *Gable East Footprint Reduction (Phase 1)*: The unfavorable CTD SV is due to the due to the late starts with the engineering change requests (ECRs) and work package preparation on the Tower Grooming, Solar Array, Air Sampling Unit, and Seismic Station. The project also added time for subcontractor solicitation that led to a delayed start on construction scheduled to begin in November 2020.

CTD Cost Variances (CV) (Threshold: +/- \$500K):

- L-894, *Raw Water Cross Connection Isolation 200E/W*: The favorable CTD CV is due to the Engineering Study report costing less than planned (\$176K), conceptual design utilizing less resources than originally planned (\$110K), the Definitive Design cost underrun (\$256K), and the firm fixed price construction contract awarded at less than planned value (\$636K).
- L-853, *200E Sewer Flow Equalization Facility*: The unfavorable CTD CV is driven by MSA labor overruns specific to engineering & professional administrator disciplines related to effort expended on change orders (over 50 on this job), compliance requirements, and/or other work associated with project execution. Design change notices (DCN) resulted in unplanned subcontract costs in the form of change orders to execute the construction work associated with each change. The project has also experienced unplanned training & material costs.
- L-789, *Prioritize T&D Sys Wood Test & Replace*: The unfavorable CTD CV is due to higher than anticipated costs for MSA/ Electrical Utilities (EU) lineman supporting the project, minimal work performed in March due to the pause on all hot work, and standby costs because of the work pause. During late winter, the contractor was called onto their mutual aid agreement in support of the Public Utility District (PUD) restoration work north of Seattle. The construction support Architect/Engineer (A/E) worked on several new DCNs and MSA staff continued to support work and charge the project during this period.
- L-612, *230kV Trans Sys Recon & Sustainability*: The favorable CTD CV is due to contract work on the 30% Design costing less than planned. The project had basis for \$2M in design and \$1M in Construction Oversight by the A/E. The total cost for both was \$603K.
- H-008, *EVOC Track Resurfacing*: The favorable CTD CV is primarily due to the Project H-008 “EVOC Track Resurfacing” contract award at a significantly lower cost than anticipated given the aggressive timeline of the project.



- *Hanford Fire Department – CENRTC (EF32)*: The favorable CTD CV is due to EF07, *Replace Ambulance MED-94*, and EF05, *Replace MED-92, 68G-3979 (2000)* costing less than planned. The project completed these procurements in 2010 and 2011.
- *Transportation System – CENRTC (ER16)*: The unfavorable CTD CV is due to The contract to date unfavorable cost variance is due to ER49, *Front End Loader/Water Truck/Trailer* costing more than planned (\$459.5K). The project completed this procurement in 2010 and 2011.

Variances at Completion (VAC) (Threshold: +/- \$750K)

- *L-894, Raw Water Cross Connection Isolation 200E/W*: The favorable VAC is due to the Engineering Study report costing less than planned (\$176K), conceptual design utilizing less resources than originally planned (\$110K), the Definitive Design cost underrun (\$256K), and due to the firm fixed price construction contract being awarded at less than the planned value (\$636K).
- *Hanford Fire Department –CENRTC (EF32)*: The favorable VAC is due to EF07, *Replace Ambulance MED-94*, costing less than planned (\$1,334.0K), and EF05, *Replace MED-92, 68G-3979 (2000)* costing less than (\$1,396.5K).

Table 8 -2. Reliability Projects Schedule

RL-40RP CU-November - RL-40 Reliability Projects - Current - Nov 20 Layout: MSA - Summ RP Schedule - PMB CU		Mission Support Alliance					Page 1 of 3		
Activity Name	OO	RD	Forecast Start	Forecast Finish	Baseline Start	Baseline Finish	2019	2020	2021
EC02, Replace Regulated 30-Ton Crane with an 30-Ton Crane - HO 17T-19986 (1993)	34	0	20-Feb-20 A	27-Aug-20 A	18-Feb-20	15-Apr-20			
EF32, Replace Hazmat 92, (Re-chassis only), HO 68D-3892 (1990) HO 68D-3892 (1990)	8	0	27-Apr-20 A	28-Apr-20 A	07-Oct-19	17-Oct-19			
ER16, Replace Caterpillar D-8 Dozer HO 63-05580 (1985)	7	0	02-Jul-20 A	23-Jul-20 A	21-Sep-20	30-Sep-20			
H-001, BMS Upgrade - Phase II	432	39	20-May-19 A	21-Jan-21	20-May-19	21-Jan-21			
H-002, Enterprise Health Record System	150	39	22-Jun-20 A	21-Jan-21	17-Jun-20	21-Jan-21			
H-003, ABCASH	41	0	15-Jun-20 A	06-Aug-20 A	10-Jun-20	06-Aug-20			
H-006, 10 CFR 851	462	32	01-Oct-18 A	21-Jan-21	01-Oct-18	21-Jan-21			
H-007, IT & IM Infrastructure and Improvement	46	0	06-Jul-20 A	28-Sep-20 A	06-Jul-20	23-Sep-20			
H-008, EVOC Track Resurfacing	79	0	06-Jul-20 A	06-Oct-20 A	06-Jul-20	19-Nov-20			
L-357, Replace 12-in. Potable Water Line to 222-S Lab	410	0	29-Jun-17 A	25-Aug-20 A	03-Jul-17	15-Jul-19			
L-534, Inlay Interior 200 East Roads	181	26	02-Mar-20 A	21-Jan-21	02-Mar-20	21-Jan-21			
L-603, Overlay Route 3N (Route 11A to Route 3)	229	39	02-Mar-20 A	21-Jan-21	02-Mar-20	21-Jan-21			
L-612, 230kV Transmission System Reconditioning and Sustainability Upgrades - MSA	288	58	01-Oct-19 A	10-Mar-21	30-Sep-19	21-Jan-21			
L-707, Advanced Electrical Metering	457	43	15-Jun-20 A	10-Feb-21	26-May-20	21-Jan-21			
L-720, Outdoor Lighting Reconfiguration and Replacement	644	112	01-Oct-18 A	05-May-21	15-Oct-18	21-Jan-21			
L-781, 181D Pump House Vertical Turbine Pump Design	2094	42	01-Oct-12 A	26-Jan-21	01-Oct-12	21-Jan-21			

▼ Summary

■ Baseline

MSC - Reliability Projects
Summary Schedule
Data Date: 22-Nov-20

Table 8 -2. Reliability Projects Schedule Cont.

RL-40RP CU-November - RL-40 Reliability Projects - Current - Nov 20 Layout: MSA - Summ RP Schedule - PMB CU		Mission Support Alliance					Page 2 of 3		
Activity Name	OO	RO	Forecast Start	Forecast Finish	Baseline Start	Baseline Finish	2019	2020	2021
L-789, Prioritized T&D System Wood Power Poles Testing & Replacement (DFLAW Priority)	1439	126	10-Aug-15 A	25-May-21	10-Aug-15	21-Jan-21			
L-791, RFL Transfer Trip Upgrades	822	178	07-May-18 A	09-Aug-21	07-May-18	18-Jan-21			
L-796, Key Facilities Roof Replacements	560	0	29-May-18 A	01-Oct-20 A	04-Jun-18	20-Aug-20			
L-797, Key Facilities HVAC replacements	157	4	24-Feb-20 A	01-Dec-20	24-Feb-20	29-Jul-20			
L-798, 2101M HVAC Replacement	98	4	23-Jan-20 A	01-Dec-20	03-Feb-20	06-Jul-20			
L-801, Upgrade SCADA	488	44	05-Sep-18 A	11-Feb-21	04-Sep-18	21-Jan-21			
L-819, High Capacity Fiber Optic ((300 Area - Central Plateau)	63	0	22-Jun-20 A	18-Sep-20 A	22-Jun-20	18-Sep-20			
L-826, 181 B Vertical Turbine Pumps, Header, Instrumentation, Commission	464	34	01-Oct-18 A	26-Jan-21	01-Oct-18	21-Jan-21			
L-839, 12in Potable Water Loop-Line to WTP	342	32	24-Jun-19 A	21-Jan-21	24-Jun-19	21-Jan-21			
L-849, Replace 200E 1.1M-gal PW Tank	1083	33	10-Aug-15 A	25-Jan-21	24-Aug-15	21-Jan-21			
L-850, Replace 200W 1.1M-gal PW Tank	1372	39	29-Jul-15 A	21-Jan-21	10-Aug-15	21-Jan-21			
L-853, 200E Sewer Flow Equalization Facility	1399	39	17-Aug-15 A	21-Jan-21	17-Aug-15	21-Jan-21			
L-854, 200E Sewer Consolidations	1367	39	17-Aug-15 A	21-Jan-21	17-Aug-15	21-Jan-21			
L-861, Single Circuit Distribution Pole Replacement	208	32	07-Jan-20 A	21-Jan-21	13-Jan-20	21-Jan-21			
L-879, Overlay Cypress Street	228	41	02-Mar-20 A	25-Jan-21	02-Mar-20	21-Jan-21			
L-883, Chip Seal Rt 10, SR-240 to WYE Barric	181	26	02-Mar-20 A	21-Jan-21	02-Mar-20	21-Jan-21			

Summary

Baseline

MSC - Reliability Projects

Summary Schedule

Data Date: 22-Nov-20

Table 8 -2. Reliability Projects Schedule Cont.

RL-40RP CU-November - RL-40 Reliability Projects - Current - Nov 20 Layout: MSA - Summ RP Schedule - PMB CU		Mission Support Alliance						Page 3 of 3		
Activity Name	OO	RO	Forecast Start	Forecast Finish	Baseline Start	Baseline Finish	2019	2020	2021	
L-888, 400 Area Fire Station	688	39	30-Apr-18 A	21-Jan-21	30-Apr-18	21-Jan-21				
L-894, Raw Water Cross Connection Isolation 200E/W	1106	39	29-Aug-16 A	21-Jan-21	29-Aug-16	21-Jan-21				
L-895, Fire Protection Infrastructure for Plateau Raw Water	1291	111	09-Jan-17 A	04-May-21	09-Jan-17	21-Jan-21				
L-897, 200 Area Water Treatment Plant	905	152	29-Nov-17 A	01-Jul-21	29-Nov-17	24-Jan-21				
L-898, 100 Area Mission Critical Distribution Feeders Replacement	675	70	01-Oct-18 A	08-Mar-21	02-Jul-18	20-Nov-20				
L-905, Fire Alarm Report System (FARS) and Radio Fire Alarm Reporter (RFAR) Replacement and	509	48	06-Aug-18 A	22-Feb-21	06-Aug-18	21-Jan-21				
L-907, Fleet Complex Site Development	210	47	24-Feb-20 A	18-Feb-21	24-Feb-20	21-Jan-21				
L-919, Emergency Radio Upgrades	383	67	29-Apr-19 A	25-Mar-21	29-Apr-19	19-Nov-20				
L-921, Telecom Hut at Met Tower	384	44	18-Mar-19 A	11-Feb-21	18-Mar-19	19-Nov-20				
L-933, Installation of Mobile Office Trailers - 200E	118	32	22-Jun-20 A	21-Jan-21	22-Jun-20	19-Nov-20				
L-934, MSC Office Space Gap Reduction - 200E	147	39	04-Aug-20 A	21-Jan-21	22-Jun-20	21-Jan-21				
L-937, Gable East Footprint Reduction (Phase 1)	97	40	31-Aug-20 A	04-Feb-21	24-Aug-20	21-Jan-21				

Summary
 Baseline

MSC - Reliability Projects
Summary Schedule
Data Date: 22-Nov-20



9.0 BASELINE CHANGE REQUEST LOG (BCR)

Baseline Change Request Log for November 2020

Processed Four Baseline Change Requests (BCRs) in November.

One BCR Authorized by a Contract Modification or RL Direction:

- VMSA-21-008 – Mod 938 - Move MSC End of Contract to Jan 24, 2021 for LOE Work Scope into the PMB from the PCB and add Fee

One BCR was related to Reliability Projects:

- VMSA-21-007 – Mod 938 – Move MSC End of Contract to Jan 24, 2021 for Numerous RP Project in the PMB from the PCB & Align Scope to FY 2021 CBAG Guidance/RP Transition Plan

Two BCRs were Administrative in Nature:

- VMSA-21-005 – Administrative BCR - Create a Level 3 and Numerous Level 4 for MSC Closeout Office
 - VMSA-21-008 Rev 1 – Administrative BCR - Create Lower Level Task Order
- Baseline Change Request Log for November

Table 9-1. Consolidated Baseline Change Log

Consolidated Baseline Change Log											
\$ in thousands											
						POST CONTRACT BUDGET					
PBS / Other	Reporting Baseline	Contract PMB	Contract PMB Mgmt Reserve	Contract Performance Budget (CPB)	Cum Contract Period	FY21 Budget	FY21 Management Reserve	Post Contract Budget	Post Contract Mgmt Reserve	Total Lifecycle	Cum Lifecycle Budget
Prior PMB Total	Oct 2020	1,230,506		1,230,506	1,230,506	71,207		1,870,116		3,100,621	3,100,621
VMSA-21-005						0		0		0	3,100,621
VMSA-21-006 Rev 1						0		0		0	3,100,621
VMSA-21-007						478		478		478	3,101,099
VMSA-21-008						62,543		62,543		62,543	3,163,641
Revised PMB Total	Nov 2020	1,230,506		1,230,506	1,230,506	134,228		1,933,136		3,163,641	
Prior Non-PMB Total	Oct 2020	604,007		604,007		23,061		887,496		1,491,502	1,491,502
VMSA-21-006 Rev 1						0		0		0	1,491,502
VMSA-21-008						23,124		23,124		23,124	1,514,626
Revised Non-PMB Total	Nov 2020	604,007		604,007		46,185		910,620		1,514,626	
Total Contract Performance Baseline	Nov 2020	1,834,513		1,834,513	1,834,513	180,413		2,843,756		4,678,267	
Management Reserve	Oct 2020		0	0			1,070		1,070	1,070	1,070
VMSA-21-007							(478)		(478)	(478)	591
Revised Management Reserve	Nov 2020		0	0			591		591	591	
Total Contract Budget Base	Nov 2020			1,834,513				2,844,347		4,678,859	
Prior Fee Total	Oct 2020	109,961		109,961		3,600		140,066		250,027	250,027
VMSA-21-008						4,298		4,298		4,298	254,325
Revised Fee Total	Nov 2020	109,961		109,961		7,898		144,364		254,325	
Change Log Total	Nov 2020			1,944,473				2,988,712		4,933,184	



10.0 RISK MANAGEMENT

November Risk Management efforts, aiding in completing the overall MSA risk determination, included the following:

Mission Risk Management:

- Due to the continued teleworking directive, Mission risk reviews were performed via Teams¹ and email communication. Mission risks were reviewed by their risk owners. Due to the continued directive to telework, no Risk Management Board (RMB) meeting was held. The RMB Presentation will be sent out via electronic RMB approval correspondence, instead of by way of an in-person meeting.

Project Risk Management:

- Reliability Project Risk Review and Updates: A monthly risk review was performed with the Project Managers to review and revise the Reliability Project risk registers for all active projects. Updates to these risk registers were captured as appropriate.
 - Final risk register for project L-838, *Water feeds to 622R, 6608 facility and 200W Sewer Lagoons*, was completed in November.
 - Risk elicitation for project L-937, *Gable East Footprint Reduction (Phase 1)* was performed. Risk register developed started.
- Risk Management staff reviewed the monthly Operations Project Reports for each Reliability Project, and any related Key Risks for monthly reporting to DOE-RL.

Other Support:

- Baseline Change Request Support
- Enterprise Risk and Opportunity Management System (EROMS):
 - Final Regression Test Cases were released and completed in October. The development team finalized the disposition identified issues. The software documentation will be finalized and reviewed in PRRB in early December.

¹ Microsoft Teams (also known just as “Teams”) is a unified communication and collaboration software that combines workplace chat, video meetings, and file storage. Developed by Microsoft Corporation Redmond, WA..



- Sprint 14 is expected to push in early December
 - Ongoing meetings were held with software engineers and Risk representatives from DOE-RL and the other Hanford contractors to discuss the status of the ongoing requests in the newest version, as well as future item prioritization.
- Safran² Risk Analysis Software:
 - Continuous testing is still currently underway, including testing of the new Alpha version that has additional analytical capabilities; such as Probabilistic Cash Flow (PCF). Updates and improvements are continuously being made to the draft desktop instructions and import templates, based on previous webinars and trainings.
 - Interface with the Safran vendors on requested enhancements and other action items is ongoing.
 - Ongoing team trainings are being conducted to familiarize the Risk team with the new features and processes.

² Safran software, a quantitative risk analysis software, is a product of Safran Software Solutions AS, headquartered in Stavenger, Norway.



11.0 DASHBOARD SUMMARY

Table 11-1. Performance Evaluation and Measurement Plan (PEMP)

November Fiscal Year 2021 PEMP, Rev 3 Mod 913		Deliverables	YTD	Nov	
1.0 Effective Site Cleanup - Achievement of cleanup contractors' key milestones and regulatory commitments					
1.1	Demonstrate that the following performance measure targets were met.				
	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; ≥85% on-time campaign fulfillment; Selective; ≥85% on-time campaign fulfillment; Non-Selective; ≥85% on-time campaign fulfillment			
	d	Contractor Assurance - Causal Analysis ≥80% causal analysis completed within 45 days			
	e	Contractor Assurance - Issues Resolved ≥90% of issues screened within 5 days of initiation			
	f	Crane and Crew Support: ≥85% 2-business-day turnaround time and ≥85% 1-business-day turnaround time (emergency requests)			
	g	Facilities Maintenance ≥85% on-time completion			
	h	Fire Protection System Maintenance ≥90% of annual goal of 2,639 activities			
	i	Fire Systems - Priority 1 Emergency Impairments ≤3 open Emergency Impairments at month end			
	j	Fire Systems - Priority 2 System Restrictions ≤18 total System Restrictions Priority 2 (SR-2) at end of each month			
	k	Fire Systems - Priority 3 System Restrictions ≤40 total System Restrictions Priority 3 (SR-3) at end of each month			
	l	Fleet Services – Heavy Equipment Cranes; ≥70% in service - Cranes			
	m	Fleet Services – Heavy Equipment Excavators ≥90% in service - Excavators			
	n	Fleet Services – Heavy Equipment General Purpose; ≥90% in service			
	o	Fleet Services – Light Equipment Hanford Patrol; ≥90% in-service			
	p	Fleet Services – Light Equipment Hanford Fire; ≥85% in-service			
	q	Fleet Services – Light Equipment Special Purpose; ≥90% in-service			
	r	IT-Cyber Security – System Patching: ≥97% 7-business-day turnaround time (desktops) and ≥97% 14-business-day turnaround time (databases/servers)			
	s	RSS - Dosimetry External Services: ≥95% 10-business-day turnaround time (routine exchanges) and ≥95% 30-business-day turnaround time (annual exchanges)			
t	RSS - Instrumentation Calibration ≥90% 10-day turnaround time				

LEGEND

= On Schedule

= Objective missed

= Not Applicable (Updated quarterly)

= Complete

= In jeopardy

Performance Notes:

1.1h Red in November, green overall. Red due to access availability in customer controlled facilities due to Site essential mission critical posture and shortage of MSA resources. Backlog continues to grow and will be challenging even if Site opens fully due to resource issue.

1.1k Red in November, green overall. Red due to access availability in customer controlled facilities when the Site was at essential mission critical posture; implementation of social distancing impacting the number of individuals and time to process and recent attrition of firefighter and paramedic personnel requiring the HFD to operate at reduced levels.



Table 11-1, cont. Performance Evaluation and Measurement Plan (PEMP).

November Fiscal Year 2021 PEMP, Rev 3 Mod 913			Deliverables		YTD	Nov	
1.0 Effective Site Cleanup - Achievement of cleanup contractors' key milestones and regulatory commitments							
1.2	Water	Demonstrate effective management of electric, water and sewer utilities to maximize reliability and redundancy					
		Maintain Raw Water Pressure at ICD Level					
		Maintain Potable Water Pressure at ICD Level					
		Perform Preventative maintenance at 90% or better each month					
		Zero regulatory permit violations that result from a failure to complete permit required work package.					
		Ensure all water quality samples are completed on time					
	Sewer	Quarterly System Health Report by Engineering submitted one calendar month after each quarter					
		Perform Preventative maintenance at 90% or better each month					
		Zero regulatory permit violations that result from a failure to complete permit required work package.					
	Electric	Quarterly System Health Report by Engineering submitted one calendar month after each quarter					
		Electrical power availability					
		Perform Preventative maintenance at 90% or better each month					
		Zero regulatory permit violations that result from a failure to complete permit required work package.					
1.3		Maximize efficient MSA use of resources to meet the other Hanford contractors' changing project needs.					
2.0 Efficient Site Cleanup - Align resources and capabilities to support the site cleanup mission							
2.1		Demonstrate effective Hanford Site integration to include, but not limited to, identify longstanding or emerging issues that affect efficient site operations and provide recommendations for improvement.					
	a	Update the Hanford Site 5 Year Plan, as Hanford budgets are confirmed					
	b	Issue the Hanford Life-Cycle Cost Baseline (HLCCB) Rev. 0.					
	c	Establish an HLCCB Rev. 0 Dashboard					
2.2		Demonstrate consolidation of the Hanford Site infrastructure footprint.					
	a	Implementation of a Coarse Wave Division Multiplexing (CWDM) system between the North Richland 1220 Network and Telecommunications facility and the 2220E Central Plateau Network and Telecommunications facility					
	b	Implement a new Essential Services Local Area Network (ES-LAN) as the major hosting and data transport solution.					
	c	Modernize Virtual Desktop Infrastructure					

LEGEND

= On Schedule

= Objective missed

= Not Applicable (Updated quarterly)

= Complete

= In jeopardy



Table 11-1, cont. Performance Evaluation and Measurement Plan (PEMP).

November Fiscal Year 2021 PEMP, Rev 3 Mod 913		YTD Nov
Deliverables		
2.0 Efficient Site Cleanup - Align resources and capabilities to support the site cleanup mission		
	Demonstrate effective development and management of reliability projects that ensure mission milestones and regulatory commitments are met.	
2.3	a Project L-897, "200 Area Water Treatment Plant," Award construction contract (Schedule ID L897-5060)	
	b Project L-853, "200E Sewer Flow Equalization Facility" and L-854, "200E Sewer Consolidation," Sewer system fully operational	
	c Route 2S/4S Road Study, Brief DOE-RL on completed 2S/4S Road Study and recommendation	
	d Project L-801, "Upgrade SCADA," 100% design from A&E approved.	
	e Project L-861, "Single Circuit Distribution Pole Replacement," Initiate 60% (definitive) design	
	f Project L-888, "400 Area Fire Station," MSA completes Design Revision/Cost Estimate	
3.0 Comprehensive Performance		
	Execute the balance of contract work scope within the contract requirements, terms, and conditions, demonstrating excellence in quality, schedule, management, cost control, small business utilization, and regulatory compliance.	
	Provide leadership to improve management effectiveness and collaborate and participate proactively with customers.	
	Work with DOE and the other Hanford contractors in a spirit of cooperation to demonstrate operational excellence to include, but not limited to, the following areas:	
a	Business and financial management using approved purchasing, estimating, property, budget, planning, billing, labor, accounting, and performance measurement systems, providing visibility and transparency to DOE with respect to each of the forgoing	
b	Contract change management and subcontract administration and consent activities, e.g., proposal review and negotiation process, including timely and adequate submission of proposals and requests for additional data, timely counteroffers, and attaining small business goals	
c	Safeguards and security, fire department operations, emergency response, and emergency operations/emergency management	
d	Land Management	
e	Infrastructure and services program management, operations and maintenance	
f	Effective contractor human resources management	
g	Problem identification and corrective action implementation	
	Perform work safely and in a compliant manner that assures the workers, public, environment, and national security assets are adequately protected while meeting the performance expectations of the contract. This element includes the Contractor's responsiveness to the novel coronavirus pandemic. Complete Essential services and COVID 19 Planning as defined by the COVID 19 Partial Stop Work Execution Plan and through interaction with DOE and OHC Leadership. Coordinate and integrate the Hanford Site response to both COVID 19 Partial Stop Work services and Implementation of the Hanford Site Remobilization Plan.	
	Take proactive and effective actions to ensure and accomplish a smooth contract transition.	
	Take proactive and effective actions to close and reduce contract closeout actions to effectively reduce efforts needed when the MSC enters its closeout period.	
	Demonstrate effective subcontract management, including award of subcontracts as scheduled, inclusion of all requirements, subcontractor audits, and subcontract administration. Contractor will monitor subcontractor performance to ensure compliance with all requirements including small business subcontracting plans, Buy American Act, and applicable labor statutes.	

LEGEND

= On Schedule

= Objective missed

N/A = Not Applicable (Updated quarterly)

= Complete

= In jeopardy

12.0 CONTRACT DELIVERABLES STATUS

The following itemizes the contract deliverables as due to RL in November 2020, and provides a look ahead through December 2020.

Table 12-1. November 2020 – December 2020 Contract Deliverables

CDRL	Deliverable	Responsible	Date Due	Date Submitted to DOE	RL Action	Response Time	Date Due from DOE	Date Approved by DOE
CD0112	GSA Non-Federal Recipients and Exchange Sale Reports	Millikin	11/01/20	10/28/20	Review	10 days		
CD0113	Inventory Accuracy Reports	Millikin	11/01/20	10/28/20	Information	N/A		
CD0114	Disposal of Excess and Surplus Personal Property Report	Millikin	11/01/20	10/28/20	Information	N/A		
CD0123	Monthly Billing Reports for DOE Services	Eckman	11/05/20	11/03/20	Information	N/A		
CD0144	Monthly Performance Report	Millikin	11/10/20	11/03/20	Review	None		
CD0046	Self-Assessment and Corrective Actions	Walton	11/15/20	11/19/20	Review	30 days		
CD0182	Site-Wide Assessment of Institutional Controls	Walton	11/15/20	11/11/20	N/A	N/A		
CD0084	BPA Power and Transmission Service invoice verification and breakdown of site contractor costs	Synoground	11/30/20	11/30/20	Review	30 days		
CD0189	Site Suitability Plan	Wilson	12/04/20	12/02/20	Review	N/A		
CD0123	Monthly Billing Reports for DOE Services	Eckman	12/05/20	12/02/20	Information	N/A		
CD0144	Monthly Performance Report	Millikin	12/10/20	12/03/20	Review	None		

Key:
Approved
Awaiting Approval
Not Submitted
Submitted

NOTES: Areas shaded in gray indicate delivery to DOE, and when the "Date Approved by DOE" is shaded, approval has been received in return. "Review" responses from DOE are not documented with dates, but shaded when complete.

IAMIT = Interagency Management Integration Team.

TPA = Tri-Party Agreement.

N/A = No action.



12.1 GOVERNMENT-FURNISHED SERVICES/INFORMATION AND DOE DECISIONS

Due to a change to the Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement), Government-Furnished Services and Information (GFS/I) items will no longer be due to MSA this year. Previously, two GFS/I items had been due to MSA:

- GF049, due June 1: DOE to provide a Hanford “planning case” budget to prepare the updated Hanford Lifecycle Scope, Schedule, and Cost Report (Lifecycle Report), and
- GF050, due October 31: DOE Approval of the DRAFT Hanford Lifecycle Scope, Schedule, and Cost Report.

However, the Lifecycle Report has been placed on a three-year cycle to align with the Tank Waste system-planning schedule. As such, the next Hanford Lifecycle Report is now to be submitted by January 31, 2022.



13.0 SELF-PERFORMED WORK

Table 13-1. Mission Support Contract Socioeconomic Reporting.

Through November 2020

Plan Category	MSA Goal	FY 2021 Actual To-Date	Cumulative %
Small Business	50.0%	50.8%	82.7%
Small Disadvantaged Business	10.0%	13.9%	19.8%
Small Women-Owned Business	6.8%	14.8%	16.8%
HubZone	2.7%	6.5%	7.1%
Small Disadvantaged, Service Disabled	2.0%	4.5%	8.3%
Veteran-Owned Small Business	2.0%	5.6%	9.5%

Prime Contract Targets:

- At least 40% Contract Out Beyond MSA, LLC 36.1% (\$1.782B/\$4.933B)
- Small Business 25% of Total MSC Value 29.9% (\$1.473B/\$4.933B)

Disclaimer: A correction of previously reported large business subcontract costs has been incorporated as of August 2019 per MSA Letter MSA-1902252A R3. However, a dispute currently exists regarding the categorization of certain costs as subcontractor costs versus self-performed costs. MSA maintains the costs are accurate as reported but understands DOE may dispute the categorization of costs. See DOE OIG Draft Report issued May 31, 2019. MSA reserves all rights and remedies related to its subcontractor/self-performance reporting.