

MISSION SUPPORT ALLIANCE

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



Monthly Performance Report January 2020

R. E. Wilkinson
President

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



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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
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
HAMMER	Volpentest Hazardous Materials Management and Emergency Response Training and Education Center

ACRONYMS LISTING



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
PFP	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
PW	Public Works
RES	Real Estate Services

ACRONYMS LISTING



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



1.0 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 contract with 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 January 2020.

1.1 KEY ACCOMPLISHMENTS

DOE Headquarters Quarterly Accountability Drill – MSA Emergency Management Program (EMP) staff participated in the DOE Headquarters Quarterly Accountability Drill on Thursday, January 9, 2020. These quarterly drills are conducted to test processes and procedures for conducting human capital accountability during emergency events. This drill included accountability of the DOE-RL, DOE Office of River Protection (ORP), and MSA Continuity of Operations Program Emergency Response Group (CERG) members. The Hanford Site Emergency Alerting System was used to send direction and instructions for conducting CERG accountability. One hundred percent (100%) accountability of the CERG was achieved and reported to DOE Headquarters within two hours.

Memorandum of Understanding (MOU) Approved – DOE approved the DOE MOU with Benton and Franklin County (WA) Emergency Services. The MOU describes the areas of cooperation between the counties and their incorporated jurisdictions and DOE Hanford (RL, ORP, and the Pacific Northwest Site Office) in their planning for and response to emergencies on site.

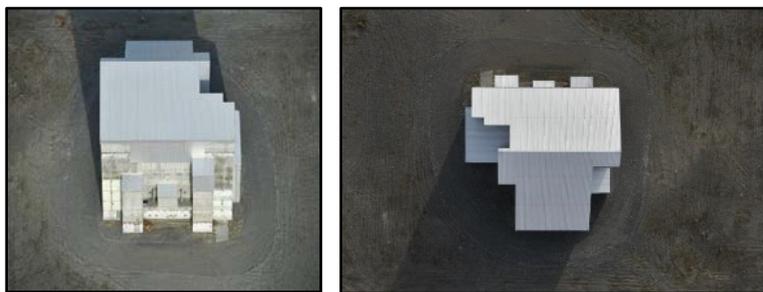
Contract/Baseline Alignment Guidance (CBAG), Revision 2 – DOE-RL and MSA negotiated a contract value change for the Period 2 Extension through May 25, 2020. The contract value change enables MSA to execute the Fiscal Year (FY) 2020 Integrated Investment Portfolio (IIP) and Usage Based Service (UBS) work to other Hanford contractors through the period of performance.

Telephone Public Interface Transition Complete – Hanford’s legacy Public Switched Telephone Network (PSTN) circuits for offsite local calling were discontinued from service by XO Communications¹ on January 31, 2020. MSA worked with DOE HQ to

¹ XO Communications LLC, is a telecommunications company owned by Verizon Communications, headquartered in Herndon, VA.

award a new task order to Century Link² to provide newer technology (Session Initiation Protocol [SIP]) circuits. The SIP circuits were installed and tested. The site's 27,300 telephone numbers were then successfully ported from XO over to CenturyLink during three different maintenance windows. These new IP (Internet Protocol) based circuits extend the Hanford sites' Voice over Internet Protocol telephone infrastructure to the PTSN.

Aerial Imagery of Reactors – During January, high-resolution aerial imagery was captured for each of the six 100 Area reactor safe storage enclosures (SSEs), including 105-C, 105-D, 105-DR, 105-F, 105-H, and 105-N/109-N. Oblique images were captured from the north, south, east, and west for each SSE. Vertical images were also obtained to support assessments of roof conditions. Condition assessments of the buildings' exteriors are routinely conducted on an annual basis. These images can serve as a benchmark for future comparison as high-resolution images can provide a detailed picture of a building – such as roof-panel screws at 4-inch spacing. Annual assessments of the SSE exteriors will continue for at least 40 more years until final disposition of the reactors.

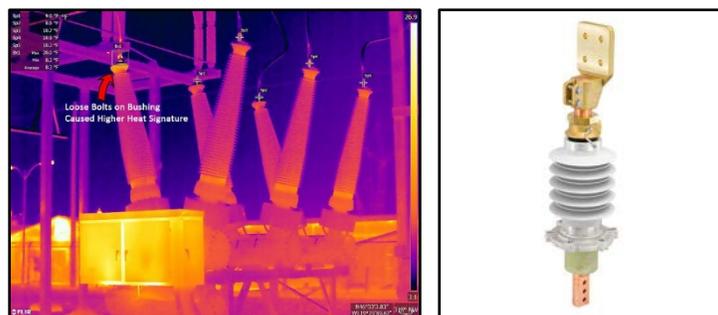


Oblique images of 105-H Reactor

Puerto Rico Earthquake Response – In response to the 6.4 magnitude earthquake which struck Puerto Rico on January 7, 2020, Volpentest HAMMER Federal Training Center (HAMMER) staff supported the Emergency Support Function #12 (ESF #12) activation by deploying and monitoring responder health and safety, facilitating intra-team communications, managing the financial aspects of the response with the Federal Emergency Management Agency (FEMA), and supporting the coordination and analysis of data from the energy sector on Puerto Rico. Since the earthquake, energy systems, including power generation, are now restored through the assistance of the ESF #12 team. The team has demobilized and all responders returned home on January 17, 2020.

² CenturyLink, Inc. is a global technology company headquartered in Monroe, Louisiana.

Predictive Maintenance Identifies Hot Spot – During infrared (IR) surveillances, a part of the MSA Electrical Utilities (EU) Predictive Maintenance Program, EU Substation Electricians discovered a hot spot on an A6 Substation yard gas circuit breaker. With the use of IR cameras, EU personnel were able to detect a potential issue before it led to possible dangerous failures. It was determined that the hot spot was due to loose bolts from material expansion and contraction caused by outdoor temperature changes. The bolts were tightened, IR photographs were retaken, and the new photos showed no further issue.



Loose bolts on bushing caused higher heat signature

The A6 Substation is a critical facility feeding power to the Waste Treatment Plant and the cleanup mission of processing waste. By not detecting issues early, unplanned outages and costly repairs could occur. Modern technology is helping EU to be more efficient in predicting failures before they occur, and allowing Hanford Contractors to complete their work safely and efficiently.

B Plant Water Line Repair – On January 3, 2020, Pipefitters, Heavy Equipment Operators, and Crane & Rigging workers responded to reports of a water line leak near B-Plant. Excavating the area revealed that the leak was caused by a failed lead joint at the bottom of a 16-inch raw water main line. The leak was successfully repaired using a joint repair clamp. Repairing the leak allowed MSA Water Utilities to put fire suppression systems and hydrants back in service.



Area excavated and repair clamp secured

Annual Emergency Management Program (EMP) Self-Assessment – MSA EMP staff prepared the annual Emergency Management Program Self-Assessment and submitted it to DOE-RL/ORP on January 23, 2020. The assessment is required by DOE Order 151.1C, and is used to evaluate whether appropriate plans, processes, and procedures are in place, and executed to ensure effective implementation required for emergency management programs and contractor improvement. The assessment identified four opportunities for improvement.

Hanford Fire Department New Ladder Truck – The Hanford Fire Department acquired a new 75-foot ladder fire truck in January, that is equipped with many improved safety features, including wireless communication system, collision airbags, automatic tire chains, and light-emitting diode (LED) ladder lighting.



New Ladder Truck for the Hanford Fire Department

Vans Upfitted for Electricians – During January, MSA Fleet Services staff upfitted several vans for use by MSA electricians. The vans started out empty, but were installed with wall insulation, rubber floor matting, LED lighting, a bulk head to protect the driver, shelves, hangers, tool boxes, and bins. These modifications will ensure that materials and tools can be accessed quickly and efficiently during routine work activities, and in the event of an emergency.



Before and After van customization efforts

Withdrawal of Waste Boxes from Warehouse – In January, MSA Warehouse Management staff supported CH2M HILL Plateau Remediation Company (CHPRC) workers as they withdrew 40 Standard Waste Boxes (SWBs) from MSA’s warehouse in the 400 Area. The SWBs were taken to Perma-Fix Northwest, Inc.³, where they will be filled with waste, and ultimately transported to the Central Waste Complex in the 200 West Area.



SWBs being withdrawn from 400 Area Warehouse

HFD Supports Tumbleweed Burn – During January, Hanford Fire Department personnel, in coordination with the United States Fish and Wildlife Services, United States Department of Defense, Yakima Firing Center Fire Department, and the Washington State Department of Transportation, helped to safely eliminate tumbleweeds along State Route 240 near the Rattlesnake Barricade. This joint effort successfully burned along approximately 1.5 miles of roadway.



Tumbleweed burn

³ The PermaFix Northwest, Inc. facility, located in Richland, WA, manages and treats both low-level and mixed low-level radioactive wastes.



Transformer Received – MSA Property & Warehouse Management (P&WM) received a large transformer in support of MSA Electrical Utilities organization projects. The transformer was so large that MSA Crane and Rigging staff provided off-loading support. The transformer is the third of three to be received, all of which will be inspected for compliance with purchasing specifications by quality engineers, and then transported to the field for installation.

MSA Ethics and Compliance Program – The MSA Ethics and Compliance Program (EACP) is designed to implement an effective and progressive program, ensuring that MSA organizations are:

Operating in accordance with applicable laws and regulations

- Creating a culture of honesty and integrity
- Meeting high ethical and professional standards
- Preventing waste, fraud, and abuse of government property and resources
- Establishing methods and metrics for detecting compliance issues
- Implementing prompt corrective actions when issues are identified
- Consistently evaluating business risks and program effectiveness

MSA announced the appointment of its new Ethics Officer on January 7, 2020. This individual will be responsible for the coordination and oversight of MSA’s integrated Ethics and Compliance Program, evaluation of program effectiveness, and employee outreach.

An additional element of the program is the Ethics and Compliance Committee (EACC). The initial Ethics and Compliance Committee meeting was held on Wednesday, January 29, 2020, and will be recurring monthly.

Direct-Feed Low-Activity Waste (DFLAW) Dashboard – The DFLAW Dashboard received approval from the Production Readiness Review Board (PRRB) on January 8, 2020, and, with customer concurrence, was released to the production environment on January 13, 2020. MSA Portfolio Management staff will be working with customers to outline development efforts for future enhancements as the customers use the Dashboard and provide feedback.

Training Support to WRPS – HAMMER accommodated a request from Washington River Protection Solutions LLC (WRPS), scheduling four consecutive weeks of block training for 14 construction workers (February through March 2020). HAMMER staff



added 14 classes to make the training possible, and will use Fridays to meet WRPS' target date. The students include pipefitters, laborers, crane operators, carpenters, and an electrician. Of the students, some need only a few classes, while others require more extensive training.

Hanford Site Tours – During January, MSA External Affairs assisted in the planning and organizing of five Site tours. Visitors were from the United Kingdom Sellafield; the Nuclear Safety EA-31 group (to the Waste Encapsulation and Storage Facility only); members of the National Park Service; a 17-member Japanese delegation, Rokkasho-Mura Village Councilors and Office staff; and staff members from U.S. Congressman Daniel Newhouse's office. MSA personnel worked closely with the DOE Foreign National Visits and Assignments Office in coordinating details of the UK Sellafield and Japanese delegation tour groups, and acted as foreign national escort on behalf of DOE for both foreign national visits.

STEPS Launch - On January 7, 2020, MSA's Human Resources organization kicked-off its fifth class of Supporting Talent & Engaging Professionals for Success (STEPS). The class will complete a six-month development program, consisting of outside leadership training, internal MSA business development, and one-on-one mentorship assignments with MSA's High-Potential (Hi-Pot) professionals. MSA's senior leadership and Hi-Pot mentors attended the kick-off event in support of the 21 new participants.



1.2 LOOK AHEAD

Acquisition Management Forum – A subcontractor forum has been scheduled for February 4, 2020. The intent of the forum is to discuss the following:

- Recent changes when doing business with MSA (i.e. pre-employment screenings for staff augmentation, new exhibits to be completed and submitted with proposals, etc.);
- Provide a 90-day look ahead of procurement opportunities with MSA;
- Discuss top internal audit findings that MSA Internal Audit has been observing recently;
- Discussion on upcoming changes on doing business at Hanford due to new prime contract requirements; and
- Discuss contract types and the associated risks each party accepts depending on the type.

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	\$154.8	\$355.0	\$87.0	\$268.0
RL-0020	Safeguards & Security	\$91,005.3	\$41,052.8	\$27,085.6	\$13,967.2
RL-0040	GSI and Spares Inventory	\$1,708.5	\$1,708.5	(\$204.2)	\$1,912.7
RL-0201	Reliability Projects, HAMMER, B-Reactor	\$98,707.9	\$46,649.7	\$16,289.2	\$30,360.5
SWS	Site-Wide Services	\$229,296.7	\$100,165.5	\$69,333.2	\$30,832.3
Total		\$420,873.2	\$189,931.5	\$112,590.8	\$77,340.7

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.

* Funds received through Contract Modification 874, dated February 24, 2020.

Based upon FY20 forecast the remaining uncosted balance will fund SWS through March 11, 2020 and RL-20 through March 17, 2020.



3.0 SAFETY PERFORMANCE

During the month of January, MSA experienced one injury that classified as Recordable, and as Days Away, Restricted or Transferred (DART). Therefore, the fiscal year 2020 total recordable case (TRC) rate is 0.69 and the DART rate is 0.55. Both rates are below the DOE performance measurement baseline of 1.1 and 0.60, respectively. Nine First Aid cases were recorded, which is above average for a given month. MSA will continue to closely monitor First Aid cases to determine emerging trends and implement awareness activities, as warranted.

Last month, MSA performed an analysis of all injuries occurring in calendar year 2019 to determine common factors and trends. Although most injuries were unrelated, improvement actions were identified, and will be incorporated into MSA's 2020 Safety Improvement Goals.



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

Objective

Monitor the Total Recordable Case (TRC) rate for MSA employees and subcontractors (Note: does not include independent subcontractors)

Measure

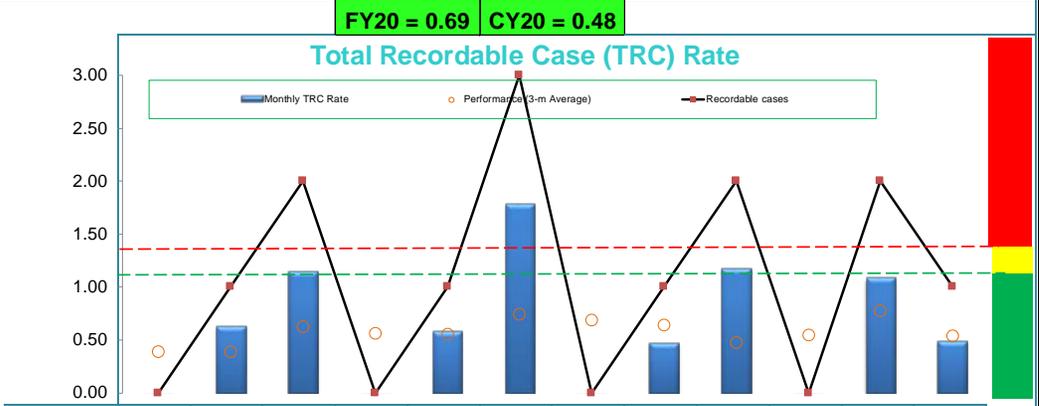
The TRC is measured in accordance with OSHA guidelines for reporting and calculating. The rate is calculated by multiplying the number of Recordable cases by 200,000 and dividing by the total number of work hours.

Performance Thresholds

Adverse	> 1.3
Cautionary	1.1 - 1.3
Meets	< 1.1

Performance Data

	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20
Monthly Recordable Cases	0	1	2	0	1	3	0	1	2	0	2	1
Monthly TRC Rate	0.00	0.62	1.15	0.00	0.58	1.78	0.00	0.47	1.17	0.00	1.08	0.48
Performance (3-m Average)	0.39	0.39	0.63	0.56	0.55	0.74	0.69	0.64	0.48	0.55	0.77	0.54
Performance (12-m Average)	0.45	0.47	0.47	0.42	0.42	0.51	0.51	0.50	0.46	0.55	0.55	0.59



Specific Goal to Achieve

The MSA goal is to "do work safely" and achieve target zero by reducing injuries, accidents and incidents. The DOE-EM goal is to maintain a TRC rate below 1.1.

Leading Indicator Description

Performance Indicator Information

PI Owner:	Lanette Adams
Data Analyst:	Terri Martinez
Data Source:	MSMET
PI Basis:	MSC-PLN-WP-003, Sect. 4.0
Date:	1/9/2020

Analysis

During the month of January, MSA had one injury that classified as "Recordable". An employee was training on the range when they twisted and felt a "pop" and pain in their knee. This injury also classified as days away, restricted or transferred (DART). FYTD, MSA has experienced 5 OSHA Recordable injuries, corresponding to a TRC rate of 0.69.

- Types of injuries MSA has experienced during FY2020 that classified as Recordable:
 - overexertion (2), body motion (2), struck against (1)
- Body parts that have been affected in FY2020:
 - back (1), arm (1), neck (1), elbow (1), knee (1)

Note: FY2019 Recordable Cases: 11 (TRC = 0.46)

Action

Injury Prevention Actions:

- Evaluated all 2018 and 2019 recordable injuries to determine emerging trends and implement awareness activities, as warranted
- In light of the HMEESC contract announcement, the MSA President and COO distributed all employee messages encouraging employees to remain focused on the current mission and continue to be diligent when it comes to safety of themselves and colleagues
- Enhanced communications regarding traffic safety in support of implementing Hanford traffic safety initiatives
- Discussed injuries and injury rates, including prevention measures to avoid workplace accidents and incidents, at EZAC/PZAC and organizational-level safety meetings
- Highlighted the following 24/7 safety topics at back to work meetings for all employees: 1) Employee Concerns Program; 2) handling icy conditions; 3) shoveling snow safely; and, 4) proper way to use a fire extinguisher

Additional Info

None

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

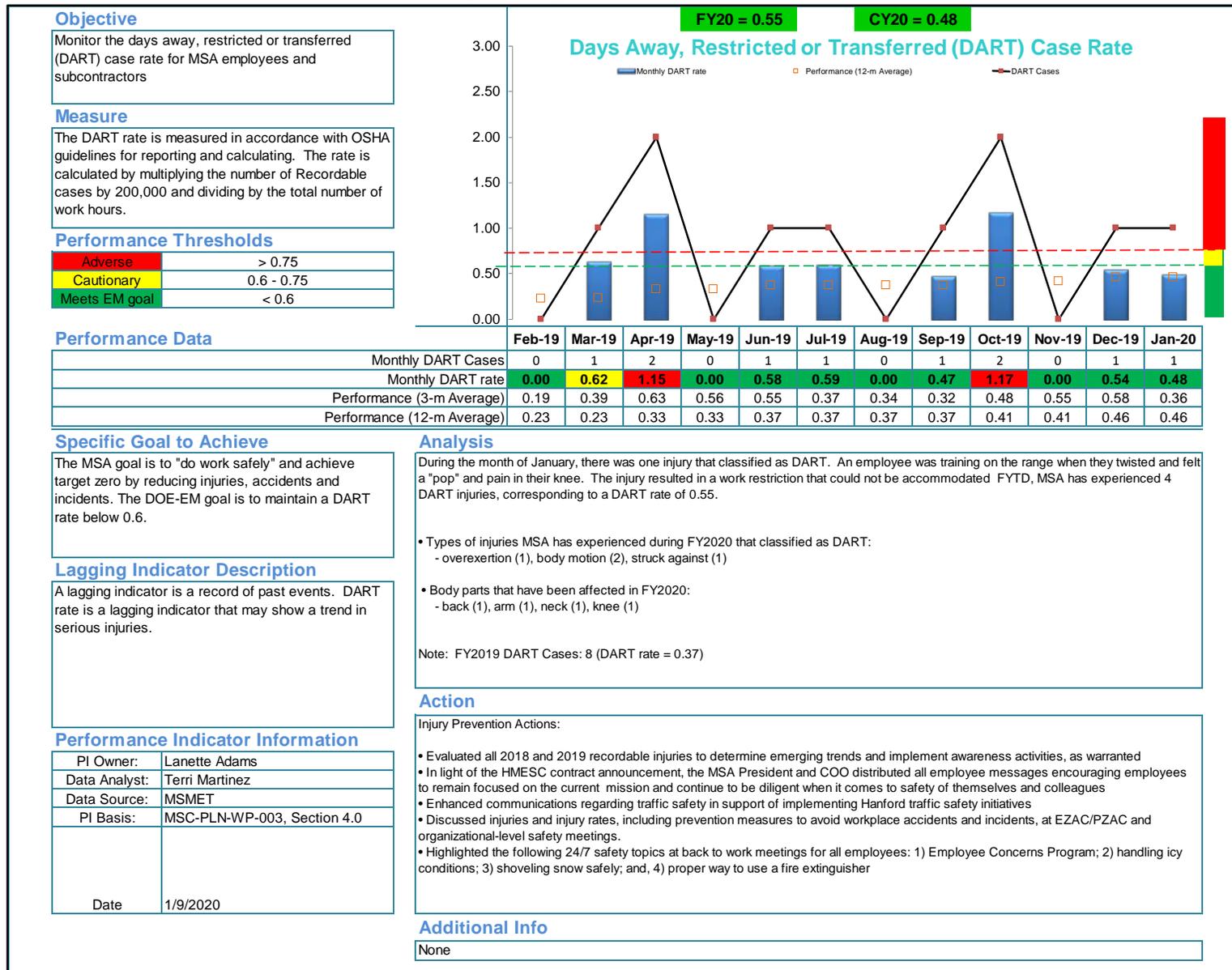
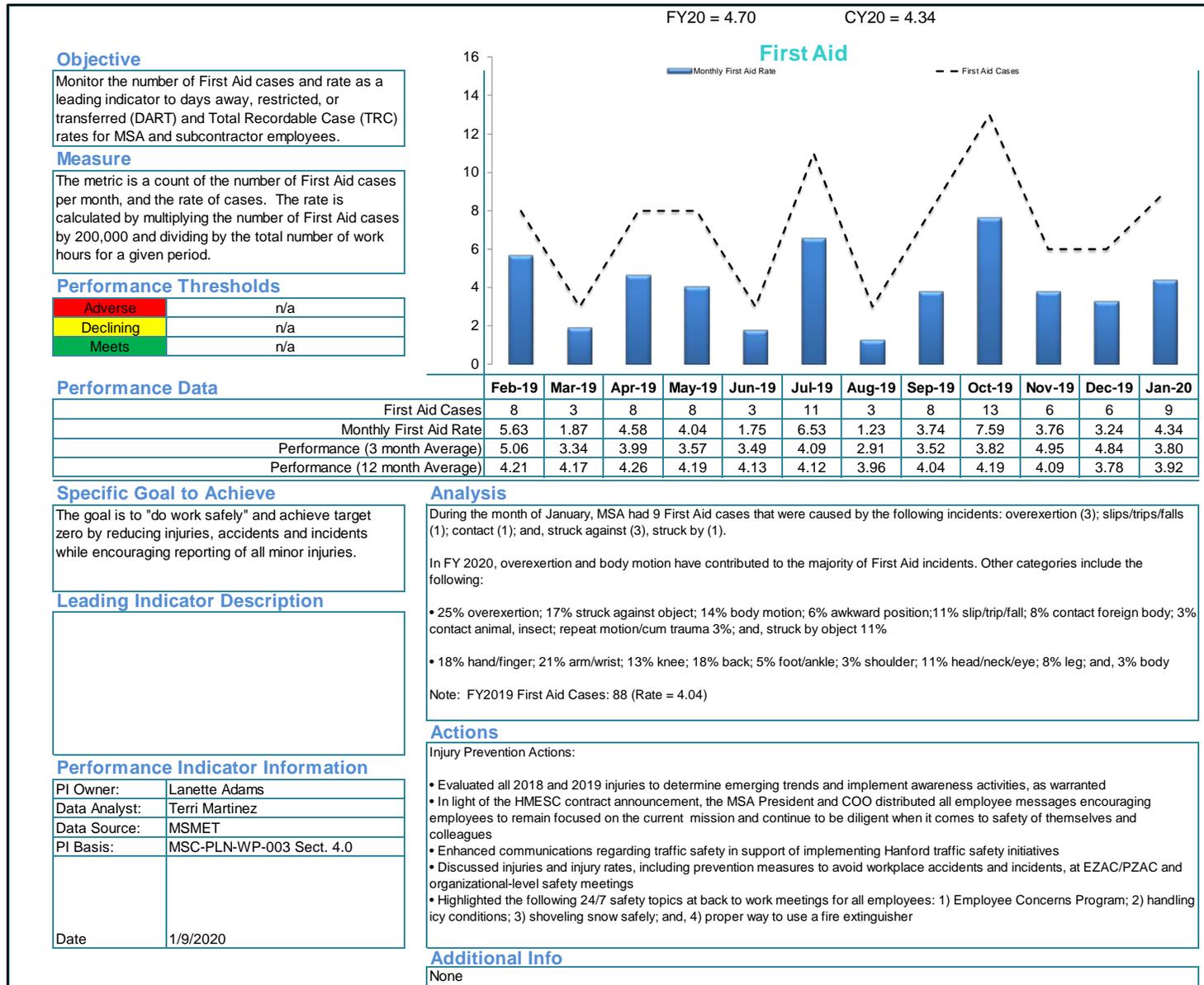




Table 3-3. First-Aid Case Rate





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 (2019/12/23)							
b. Location (Address and Zip Code) Richland, WA 99352		b. Number RL14728			b. Phase Operations			b. To (2020/01/26)							
c. TYPE CPAF		d. Share Ratio			c. EVMS ACCEPTANCE No X Yes										
5. CONTRACT DATA															
a. QUANTITY	b. NEGOTIATED COST	c. ESTIMATED COST OF AUTHORIZED UNPRICED WORK	d. TARGET PROFIT/FEE	e. TARGET PRICE	f. ESTIMATED PRICE	g. CONTRACT CEILING	h. ESTIMATED CONTRACT CEILING	i. DATE OF OTB/OTS							
N/A	\$4,202,870	\$1,828	\$223,247	\$4,426,117	\$4,479,042	N/A	N/A	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				\$4,204,699				SIGNATURE <i>Robert E. Wilkinson</i>				d. DATE SIGNED 2/24/2020			
b. WORST CASE				\$4,468,585											
c. MOST LIKELY				\$4,255,795		4,204,698		(51,097)							
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	6,365	6,365	5,705	0	660	639,949	639,949	633,010	0	6,940	663,933	656,837	7,096		
3001.01.02 - Fire and Emergency Response	3,508	3,508	3,543	0	(35)	280,888	280,888	281,403	0	(515)	293,952	294,405	(454)		
3001.01.03 - Emergency Management	374	374	360	0	14	46,873	46,873	46,750	0	123	48,415	48,239	176		
3001.01.04 - HAMMER	850	850	803	0	47	79,495	79,495	75,933	0	3,562	82,945	79,371	3,574		
3001.01.05 - Emergency Services Management	158	158	236	0	(78)	16,916	16,916	16,820	0	96	17,646	17,605	42		
3001.02.01 - Site-Wide Safety Standards	109	109	92	0	17	9,083	9,083	9,977	0	(894)	9,579	10,401	(821)		
3001.02.02 - Environmental Integration	294	294	318	0	(24)	58,470	58,470	57,203	0	1,267	59,678	58,407	1,271		
3001.02.03 - Public Safety & Resource Protection	1,001	1,001	822	0	179	77,772	77,772	76,617	0	1,155	81,907	80,536	1,371		
3001.02.04 - Radiological Site Services	0	0	(0)	0	0	5,242	5,242	5,129	0	113	5,242	5,129	113		
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	112	112	115	0	(3)	33,948	33,948	33,188	0	759	34,407	33,631	775		
3001.03.02 - Information Systems	777	777	668	0	109	124,477	124,477	122,728	0	1,749	127,102	126,675	427		
3001.03.03 - Infrastructure / Cyber Security	1,079	1,079	546	0	533	50,125	50,125	48,714	0	1,411	52,832	52,211	621		
3001.03.04 - Content & Records Management	486	486	424	0	62	72,598	72,598	71,913	0	685	74,684	74,001	682		
3001.03.05 - IR/CM Management	179	179	274	0	(95)	15,765	15,765	15,763	0	2	16,400	16,714	(314)		
3001.03.06 - Information Support Services	140	140	153	0	(13)	15,327	15,327	15,362	0	(35)	15,897	15,924	(27)		
3001.04.01 - Roads and Grounds Services	280	280	323	0	(43)	34,252	34,252	35,196	0	(945)	36,186	37,130	(944)		
3001.04.02 - Biological Services	332	332	526	0	(194)	40,149	40,149	39,829	0	321	41,432	41,221	211		
3001.04.03 - Electrical Services	1,820	1,820	1,627	0	194	131,412	131,412	131,273	0	139	137,518	137,670	(152)		
3001.04.04 - Water/Sewer Services	1,604	1,604	1,613	0	(9)	140,194	140,194	139,027	0	1,167	146,708	145,442	1,265		
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	30	30	34	0	(4)	10,926	10,926	10,870	0	55	11,048	10,993	55		



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 (2019/12/23)																	
Mission Support Alliance		Mission Support Contract			Mission Support Contract																					
b. Location (Address and Zip Code)		b. Number			b. Phase				b. To (2020/01/26)																	
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	9	9	7	0	2	749	749	676	0	74	785	719	66													
3001.04.10 - Technical Services	466	466	662	0	(196)	52,423	52,423	53,632	0	(1,209)	54,427	55,689	(1,262)													
3001.04.11 - Energy Management	127	127	130	0	(3)	12,904	12,904	12,487	0	417	13,398	13,052	347													
3001.04.12 - Hanford Historic Buildings Preservation	283	283	105	0	178	26,767	26,767	25,699	0	1,069	27,741	26,830	911													
3001.04.13 - Work Management	457	457	416	0	41	17,017	17,017	18,511	0	(1,494)	17,913	19,387	(1,475)													
3001.04.14 - Land and Facilities Management	470	470	510	0	(40)	51,792	51,792	49,617	0	2,175	54,311	52,210	2,102													
3001.04.15 - Mail & Courier	56	56	102	0	(46)	7,468	7,468	7,473	0	(5)	7,694	7,723	(29)													
3001.04.16 - Property Systems/Acquisitons	596	596	535	0	62	64,886	64,886	64,700	0	186	67,400	67,257	142													
3001.04.17 - General Supplies Inventory	76	76	(140)	0	216	2,370	2,370	1,099	0	1,271	2,678	999	1,679													
3001.04.18 - Maintenance Management Program Implementation	73	73	72	0	1	10,942	10,942	10,909	0	34	11,243	11,214	29													
3001.06.01 - Business Operations	1,171	1,171	645	0	525	63,863	63,863	22,704	0	41,159	68,291	27,341	40,950													
3001.06.02 - Human Resources	307	307	317	0	(10)	28,846	28,846	26,666	0	2,180	30,146	27,958	2,188													
3001.06.03 - Safety, Health & Quality	2,285	2,285	1,752	0	533	190,686	190,686	188,105	0	2,581	197,221	194,627	2,595													
3001.06.04 - Miscellaneous Support	359	359	369	0	(10)	55,297	55,297	55,921	0	(624)	56,748	57,286	(538)													
3001.06.05 - Presidents Office (G&A nonPMB)	0	0	1	0	(1)	516	516	88	0	427	823	396	427													
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	257	257	204	0	53	61,395	61,395	60,206	0	1,189	62,436	61,201	1,235													
3001.08.01 - Water System	(105)	511	739	615	(229)	48,631	45,999	33,366	(2,631)	12,633	50,818	38,152	12,666													
3001.08.02 - Sewer System	0	0	118	0	(118)	17,321	17,058	21,027	(263)	(3,969)	17,321	21,510	(4,189)													
3001.08.03 - Electrical System	657	889	665	232	224	28,881	27,951	28,336	(930)	(385)	32,194	32,262	(68)													
3001.08.04 - Roads and Grounds	0	0	0	0	0	10,015	10,015	9,448	0	567	10,015	9,448	567													
3001.08.05 - Facility System	3	9	33	6	(24)	12,927	12,892	13,195	(34)	(303)	13,775	14,049	(274)													
3001.08.06 - Reliability Projects Studies & Estimates	714	714	760	0	(46)	27,242	27,242	28,679	0	(1,438)	30,192	31,638	(1,446)													
3001.08.07 - Reliability Project Spare Parts Inventory	47	47	0	0	46	4,961	4,961	3,723	0	1,238	5,148	3,903	1,245													
3001.08.08 - Network & Telecommunications System	(356)	168	153	524	15	33,289	32,798	35,136	(491)	(2,338)	34,225	36,972	(2,747)													
3001.08.09 - Capital Equipment Not Related to Construction	0	0	0	0	(0)	15,110	15,104	13,713	(6)	1,391	15,110	13,713	1,397													
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	125	0	0	(125)	0	125	126	(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)														27,452	28,830	26,338	1,377	2,492	2,808,496	2,804,015	2,729,667	(4,480)	74,348	2,835,905	2,846,051	(10,146)



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 Mission Support Alliance		a. Name Mission Support Contract				a. Name Mission Support Contract				a. From (2019/12/23)									
b. Location (Address and Zip Code) Richland, WA 99352		b. Number RL14728				b. Phase Operations				b. To (2020/01/26)									
c. TYPE CPAF		d. Share Ratio				c. EVMS ACCEPTANCE 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)									
a2. WORK BREAKDOWN STRUCTURE ELEMENT																			
3001.01.04 - HAMMER	1,410	1,410	1,362	0	48	153,759	153,759	153,341	0	417	159,493	159,121	372						
3001.02.04 - Radiological Site Services	827	827	812	0	15	70,207	70,207	69,996	0	211	73,694	73,260	433						
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	268	268	227	0	41	10,527	10,527	10,245	0	281	11,614	11,272	342						
3001.03.04 - Content & Records Management	73	73	74	0	(1)	3,178	3,178	3,208	0	(29)	3,473	3,514	(41)						
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	2,181	2,181	1,916	0	264	114,885	114,885	115,507	0	(622)	129,504	129,824	(320)						
3001.04.05 - Facility Services	959	959	1,011	0	(53)	89,280	89,280	88,770	0	510	93,213	92,883	331						
3001.04.06 - Transportation	511	511	530	0	(19)	55,233	55,233	54,841	0	391	57,638	56,944	694						
3001.04.07 - Fleet Services	1,477	1,477	1,562	0	(85)	154,950	154,950	156,046	0	(1,096)	160,914	162,476	(1,562)						
3001.04.08 - Crane and Rigging	1,027	1,027	1,081	0	(54)	128,675	128,675	128,149	0	526	132,835	132,435	400						
3001.04.10 - Technical Services	258	258	208	0	50	10,489	10,489	10,146	0	343	11,538	11,134	404						
3001.04.13 - Work Management	61	61	55	0	6	4,596	4,596	4,553	0	43	4,843	4,793	51						
3001.04.14 - Land and Facilities Management	856	856	893	0	(36)	77,192	77,192	77,220	0	(28)	80,642	80,790	(147)						
3001.04.15 - Mail & Courier	19	19	21	0	(2)	1,811	1,811	1,802	0	9	1,888	1,882	6						
3001.06.01 - Business Operations	986	986	985	0	1	117,363	117,363	117,397	0	(34)	121,178	121,271	(93)						
3001.06.02 - Human Resources	352	352	329	0	23	33,427	33,427	33,198	0	229	34,830	34,606	224						
3001.06.03 - Safety, Health & Quality	126	126	118	0	8	16,540	16,540	15,511	0	1,029	17,065	16,062	1,003						
3001.06.04 - Miscellaneous Support	321	321	186	0	135	19,555	19,555	20,198	0	(643)	20,860	21,473	(614)						
3001.06.05 - Presidents Office (G&A nonPMB)	318	318	296	0	21	29,425	29,425	29,327	0	98	30,689	30,613	76						
3001.06.06 - Strategy	21	21	19	0	2	3,178	3,178	3,092	0	87	3,263	3,174	89						
3001.A1.01 - Transfer - CHPRC	6,976	6,976	6,134	0	842	740,625	740,625	740,492	0	134	768,911	767,086	1,825						
3001.A1.02 - Transfer - WRPS	4,648	4,648	4,881	0	(233)	355,372	355,372	354,024	0	1,347	374,219	372,015	2,204						
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	48	48	51	0	(3)	3,650	3,650	3,738	0	(87)	3,844	3,950	(106)						
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	41,023	41,023	41,726	0	(703)	41,023	41,726	(703)						
3001.A2.05 - Non-Transfers - HPM	54	54	50	0	4	3,584	3,584	3,684	0	(101)	3,802	3,919	(117)						
3001.A2.06 - Non-Transfers - BNI Corp	0	0	(75)	0	75	7	7	1	0	6	7	1	6						
3001.A2.07 - Non-Transfers-WAI	33	33	41	0	(8)	1,472	1,472	1,379	0	93	1,607	1,534	74						
3001.A4.01 - Request for Services	586	586	553	0	33	119,251	119,251	119,456	0	(205)	121,627	121,234	394						
3001.A4.02 - HAMMER RFSs	141	141	190	0	(49)	36,716	36,716	35,252	0	1,464	37,287	35,744	1,544						
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	49	49	37	0	13	11,434	11,434	12,746	0	(1,312)	11,635	12,890	(1,256)						
3001.A5.01 - RL PD	24	24	40	0	(16)	6,785	6,785	6,648	0	136	6,882	6,746	136						
3001.A5.02 - ORP PD	75	75	45	0	30	8,731	8,731	8,724	0	7	9,033	9,010	23						



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 (2019/12/23)								
b. Location (Address and Zip Code)		b. Number				b. Phase				b. To (2020/01/26)								
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 (12)	Estimated (13)	Variance (14)			
	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)								
3001.A5.03 - RL Project Funded	451	451	428	0	23	19,532	19,532	17,886	0	1,646	21,299	19,878	1,421					
3001.A5.04 - ORP Project Funded	143	143	130	0	14	8,637	8,637	8,173	0	463	9,217	8,704	512					
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	(2,381)	(2,381)	(2,340)	0	(41)	(231,687)	(231,687)	(229,859)	0	(1,828)	(241,132)	(239,778)	(1,354)					
3001.A7.02 - DLA Liquidations	(1,811)	(1,811)	(1,772)	0	(39)	(158,362)	(158,362)	(156,515)	0	(1,847)	(166,083)	(164,331)	(1,753)					
3001.A7.03 - Variable Pools Revenue	(7,858)	(7,858)	(8,921)	0	1,063	(762,549)	(762,549)	(765,244)	0	2,696	(800,290)	(799,973)	(316)					
3001.B1.01 - UBS Assessments for Other Providers	0	0	0	0	0	0	0	0	0	0	0	12	(12)					
3001.B1.02 - UBS Other MSC - HAMMER M&O	0	0	0	0	0	0	0	0	0	0	0	3	(3)					
3001.B1.03 - Assessment for Other Provided Services	0	0	0	0	0	1	1	0	0	1	1	0	1					
3001.B1.04 - Assessment for PRC Services to MSC	0	0	0	0	0	1	1	0	0	1	1	0	1					
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					
d2. UNDISTRIBUTED BUDGET											(45,120)	0	(45,120)					
e2. SUBTOTAL (Non - Performance Measurement Baseline)	13,228	13,228	11,157	0	2,071	1,360,259	1,360,259	1,356,626	0	3,633	1,368,714	1,409,665	(40,951)					
f. MANAGEMENT RESERVE											79	79	0					
g. TOTAL	40,681	42,058	37,495	1,377.0	4,563	4,168,755	4,164,274	4,086,293	(4,480)	77,982	4,204,699	4,255,795	(51,096)					
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															FORM APPROVED			
FORMAT 3 - BASELINE															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 (2019/12/23)									
b. Location (Address and Zip Code) Richland, WA 99352			b. Number RL14728			b. Phase Operations			b. To (2020/01/26)									
c. TYPE CPAF			d. Share Ratio			c. EVMS ACCEPTANCE No X Yes												
5. CONTRACT DATA																		
a. ORIGINAL NEGOTIATED COST \$2,854,966				b. NEGOTIATED CONTRACT CHANGES \$1,347,904		c. CURRENT NEGOTIATED COST (a+b) \$4,202,870		d. ESTIMATED COST OF UNAUTHORIZED UNPRICED WORK \$1,828			e. CONTRACT BUDGET BASE (C+D) \$4,204,698		f. TOTAL ALLOCATED BUDGET \$4,204,698		g. DIFFERENCE (E - F) \$0			
h. CONTRACT START DATE 2009/05/24				i. CONTRACT DEFINITIZATION DATE 2009/05/24			j. PLANNED COMPLETION DATE 2020/05/25			k. CONTRACT COMPLETION DATE 2020/05/25		l. ESTIMATED COMPLETION DATE 2020/05/25						
6. PERFORMANCE DATA																		
ITEM (1)	BCWS CUMULATIVE TO DATE (2)	BCWS FOR REPORT PERIOD (3)	BUDGETED COST FOR WORK SCHEDULED (BCWS) (Non-Cumulative)															
			Six Month Forecast By Month						Remaining Forecast By Month								UNDISTRIBUTED BUDGET (15)	TOTAL BUDGET (16)
			FEB FY20 (4)	MAR FY20 (5)	APR FY20 (6)	MAY FY20 (7)	JUN FY20 (8)	AUG FY20 (9)	SEP FY20 (10)	OCT FY21 (11)	NOV FY21 (12)	DEC FY21 (13)	JAN FY22 (14)					
a. PERFORMANCE MEASUREMENT BASELINE (Beginning of Period)	2,781,044	27,822	23,295	25,845	30,843	26,017	0	0	0	0	0	0	0	0	(92,813)	2,822,052		
b. BASELINE CHANGES AUTHORIZED DURING REPORT PERIOD	27,452	(27,822)	448	805	970	1,186	0	0	0	0	0	0	0	0	10,815	13,853		
c. PERFORMANCE MEASUREMENT BASELINE (End of Period)	2,808,496		23,742	26,650	31,813	27,202	0	0	0	0	0	0	0	0	(81,998)	2,835,905		



Table 5-1, cont. Format 3, DD Form 2734/3, 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 (2019/12/23)									
b. Location (Address and Zip Code) Richland, WA 99352		b. Number RL14728			b. Phase Operations				b. To (2020/01/26)									
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)															
			Six Month Forecast By Month						Remaining Forecast By Month								UNDISTRIBUTED BUDGET (15)	TOTAL BUDGET (16)
			FEB FY20 (4)	MAR FY20 (5)	APR FY20 (6)	MAY FY20 (7)	JUN FY20 (8)	AUG FY20 (9)	SEP FY20 (10)	OCT FY21 (11)	NOV FY21 (12)	DEC FY21 (13)	JAN FY22 (14)					
a2. NON - PERFORMANCE MEASUREMENT BASELINE (Beginning of Period)	1,347,031	13,228	11,779	12,953	16,099	12,745	0	0	0	0	0	0	0	0	(52,088)	1,361,747		
b2. BASELINE CHANGES AUTHORIZED DURING REPORT PERIOD	13,228	(13,228)	0	0	0	0	0	0	0	0	0	0	0	0	6,968	6,968		
c2. NON - PERFORMANCE MEASUREMENT BASELINE (End of Period)	1,360,259		11,779	12,953	16,099	12,745	0	0	0	0	0	0	0	(45,120)	1,368,714			
7. MANAGEMENT RESERVE																79		
8. TOTAL	4,168,755	0	35,521	39,603	47,911	39,947	0	0	0	0	0	0	0	(127,119)	4,204,698			



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 (2019/12/23)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728	b. Phase - Operations	b. To (2020/01/26)
	c. Type CPAF	d. Share Ratio NO X YES	
5. Evaluation			

Explanation of Variance /Description of Problem:

Current Month Cost Variance (CV):

3001.01.01 Safeguards and Security – A favorable CM CV is due to labor underruns resulting from rate variances, and attrition; material and subcontract underruns due to time phasing, or realized at lower-than-planned cost.

3001.03.03 Infrastructure/Cyber Security – The favorable CM CV is primarily due to a software underrun driven by an extensive alternatives procurement analysis process. The Cyber Security organization is in the final stages of sole-source procurement of the new Industrial Control System Threat Protection Software and expect an invoice for these costs in early March.

3001.06.01 Business Operations – A favorable CM CV resulted because of planned procurements for Acumen and P6 Loader site licenses not occurring as planned. CM underruns in labor due to delays in hiring plans and Software Engineering Services (SES) resources for planned projects expected to occur in the out months.

3001.06.03 Safety, Health & Quality – A favorable CM CV resulted because MSA implemented a BCR per CBAG Rev 2 adding the Integrated Contractor Assurance System (iCAS) as a current-month point adjustment.

3001.A1 – 3001.B1 Non-PMB – The favorable CM CV is primarily due to a CM point adjustment implementing Contract Mod 864 for the MSA Contract extension through May 25, 2020.

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 occur with WBS 3001.A7.01 - 3001.A7.03.



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 (2019/12/23)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2020/01/26)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NO X YES	
5. Evaluation				

Impacts – Current Month Cost Variance: No significant impacts associated with this favorable CM CV.

Corrective Action – Current Month Cost Variance: None

Current Month Schedule Variance:

3001.08.01 Water System – Favorable CM SV is because:

- Project L-894 “Raw Water Cross Connect Isolation 200E/W” execution strategy was revised to begin demolishing the existing Reduced Pressure Backflow Assemblies (RPBAs) inside 282WC & performing cut & caps outside 282WC by installing new RPBAs outside 282WC. This revised strategy eliminated the need to wait until L-895 installs new fire pumps in 200 West. Based on this revised execution strategy, the original intent of activity “1894-5180, L-894” was not met therefore performance was not taken, but re-planned via BCR VMSA-020-021 based on the new strategy.
- Project L-895 “Fire Protection Infrastructure for Plateau Raw Water” work was completed in this reporting period that was planned in a prior period, including the wiring of the switchgear and wiring up to the 282E & 282W pump house, installation of HVAC in the 282EF building, transformer wiring, and duct bank completion and backfill.

3001.08.03 Electrical System – The favorable CM SV resulted because project L-612 “230kV Trans Sys Recon & Sustainability” performed design contract scope in January for work planned in a prior period.

3001.08.08 Network & Telecommunications System – The favorable CM SV is due to an execution strategy revision for Project L-919 “Emergency Radio Upgrade” because of the new radio system requirement of UHF frequencies. BCR VMSA-20-019 re-planned design/construction activities.



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 (2019/12/23)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2020/01/26)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NO X YES	
5. Evaluation				

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 occur with WBS 3001.A7.01 - 3001.A7.03.

Impacts – Current Month Schedule Variance: Impacts to Reliability Projects are minimal because most Reliability Projects are independent stand-alone projects.

Corrective Action – Current Month Schedule Variance: None.

Cumulative Cost Variance:

3001.01.01 Safeguard and Security - The favorable CTD CV is due to FY19 year-end variance distributions; labor underruns resulting from rate variances, attrition and R-Time for hazardous roads; and material and subcontract underruns due to time phasing, or associated with acquisitions deferred until FY20 or realized at lower than planned cost.

3001.06.01 Business Operations – The favorable CTD CV is primarily due to affiliate credits on Information Technology (IT) scope and training on overtime. The affiliate credits on IT scope are pending final resolution.

3001.08.01 Water System - Favorable CTD CV is because:

- Awarding the Engineering Study on Project L-894 “Raw Water Cross Connect Isolation 200 E/W” for less than planned, the conceptual design utilizing fewer resources than originally planned, the Definitive Design experiencing cost underruns and awarding the construction contract for less than the planned value. Approved BCR VMSA-20-021 modified the scope, schedule and budget from SWS-UB.



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 (2019/12/23)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2020/01/26)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NO X YES	
5. Evaluation				

Completed projects with CTD CV include the following:

- 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 “24in Line Replacement from 2901Y to 200W” 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 “T-Plant Potable & Raw Water Line Rest”, L-525 “24-inch Line Replacement from 2901Y to 200W”, and L-311 “Refurbish 200W Raw Water Reservoir” had savings on materials, and fixed price construction contracts.

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.

Impacts - Cumulative Cost Variance: The overall favorable CV is primarily due to affiliate credit for IT scope and underruns during the execution of the FY 2019 work scope. MSA is in the process of re-submitting a credit cost variance proposal for the FY 2019 underruns by incorporating comments from DOE-RL. MSA does not anticipate resolution of the affiliate credit on IT scope prior to the end of the MSA contract.

Corrective Action - Cumulative Cost Variance: None.

Cumulative Schedule Variance:

3001.08.01 Water System – Unfavorable CTD SV is primarily due to Project L-895, “Fire Protection Infrastructure for PRW,” construction activity delays, including erection of the 282WF building, anchoring and wiring of several major components, and Programmable Logic Controllers (PLC) procurement and pre-programming.



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 (2019/12/23)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2020/01/26)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NO X YES	
5. Evaluation				

3001.08.02 Sewer System – The unfavorable CTD SV on project L-854, “200E Sewer Consolidations” is due to adjusting the pipe installation for Phases 5 and 6 to accommodate the operation schedule of other Hanford contractors.

3001.08.03 Electrical System – Unfavorable CTD SV is because:

- Project L-789 “Prioritize T&D Sys Wood PP Test & Replace” planned pole replacement activities were not completed on schedule due to constrained resources during the month of January.
- Project H-006 “10 CFR 851” encountered breaker maintenance outage challenges with scheduling the actual outage in the field.

3001.08.08 Network Telecommunication System – Unfavorable CTD SV on Project L-905 “FARS & RFARS Replacement & Upgrade” due to delayed approval of both the Facility Management Plan and final review of the Statement of Work resulted in a two-month schedule slip.

Impacts - Cumulative Schedule Variance: Impacts to Reliability Projects are minimal because most reliability projects are independent stand-alone projects with the exception of L-789 & L-854 that are tied to the DFLAW program schedule.

- Project L-789 “Prioritize T&D Sys Wood PP Test & Replace” schedule impacts are minimal as critical path activities are currently on schedule.
- Project L-854, “200E Sewer Consolidations” final tie-in cannot occur until after operations buyoff on L-853, delaying the completion of the decommissioning activities on L-854.

Corrective Action – Cumulative Schedule Variance: No corrective action is required because most of these projects are stand-alone with the exception of L-789 & L-854 that are tied to the DFLAW program schedule.



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 (2019/12/23)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728	b. Phase - Operations	b. To (2020/01/26)
	c. Type CPAF	d. Share Ratio NO X YES	

- Project L-789 “Prioritize T&D Sys Wood PP Test & Replace” will continue the installation of new poles and distribution cable and prepare for final tie-ins.
- Project L-854, “200E Sewer Consolidations”. In order to mitigate the impact, actions will be taken to coordinate acceptance-testing activities with construction to reallocate resources, coordinate with operations to expedite buyoff on L-853 such as parallel commissioning of L-853 & L-854 components, and obtain required permits well in advance of construction.

Variance at Complete:

The current unfavorable VAC in the Performance Measurement Baseline (PMB) and non-PMB is primarily due to extending the forecast through May 25, 2020, consistent with the period of performance extension from Contract Mod 852. Although this modification extended the period of performance, MSA has only received a total of \$95M (\$75M from Mod 852 and \$20M from Mod 864) of additional budget, pending bilateral agreement on the extension price.

Impacts – At Complete Variance: None.

Corrective Action - At Complete Variance:

MSA anticipates reaching a bilateral agreement in February 2020 on the contract extension price, through May 25, 2020, resulting in additional contract price. MSA does not anticipate resolution of the affiliate credit on IT scope prior to the end of the MSA contract. MSA is in the process of re-submitting the FY 2019 Cost Variance Credit Proposal based on comments from DOE-RL.

Negotiated Contract Changes:

The Negotiated Contract Cost for January 2020 had an increase of \$20.0M from \$4,182.9M to \$4,202.9M. The increase was associated with Contract Mod 864 that increased the Not To Exceed (NTE) budget due to the contract extension. Contract Mod 864 provided an additional \$20.0M in contract value pending bilateral agreement on the extension price in prior to January 31, 2020.



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 (2019/12/23)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2020/01/26)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NO X YES	
5. Evaluation				

Changes in Estimated Cost of Authorized Unpriced Work:

The Authorized Unpriced Work (AUW) for the reporting period increased \$0.8M from \$1.0M to \$1.8M. Although Contract Mod 852 extended the MSA Period of Performance, the budget for this BCR comes from AUW. DOE-RL gave authorization not to exceed of \$4.3M issued in Mod 823 for work necessary for L-612. MSA initially established \$4.3M of AUW, but reduced the AUW down to \$1,007K based on the work that could be detail planned through the MSA period of performance, which at that time ended on November 25, 2019. Consistent with the contract extension through May 25, 2020, AUW was increase by \$0.8M.

Changes in Estimated Price:

The Estimated Price for January 2020 decreased \$0.7M from \$4,479.7M to \$4,479.0M. The Estimated Price includes the Most Likely Management Estimate at Completion (MEAC) of \$4,255.8M and fee of \$223.2M. The decrease in estimated price is due to minor change in the forecast through May 25, 2020.

Changes in Undistributed Budget:

The Undistributed Budget (UB) for this reporting period increased by \$17.8M from (\$144.9M) to (\$127.1M). Contract Mod 864 provided MSA with an additional \$20.0M for the extension from November 25, 2019 to May 25, 2020, pending bilateral agreement on the extension price. The negative balance in UB reflects MSA extending the baseline through May 25, 2020, which is consistent with the extended period of performance, and utilizing an offsetting credit to align the baseline with the contract value. During January 2020, this negative balance was reduced based on Modification 864, and BCRs processed during January. The remaining negative balance in UB will be eliminated in February 2020 with the processing of MOD 871, which definitizes the contract extension through May 25, 2020.



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 (2019/12/23)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728	b. Phase - Operations	b. To (2020/01/26)
	c. Type CPAF	d. Share Ratio NO X YES	

5. Evaluation

The following BCRs changed the UB:

- VMSA-20-012 – Implement CBAG Rev 2 – Step 2 and Move Budget from Other WBSs and SWS-UB
- VMSA-20-023 – Mod 864 – Increase the NTE Budget for MSC Contract Extensions Period from November 25, 2019 to May 25, 2020 Reducing the UB Credit Balance
- VMSA-20-018 – Create a Level 4 & 5 WBS for L-798, 2101M HVAC Replacement and Move Budget from SWS-UB for Procurements
- VMSA-20-019 – Re-Plan L-919 Design/Construct Activities for MSA Contract Extended Period of Performance and Move Budget in to SWS-UB
- VMSA-20-020 – Move Additional L-921 Design/Construct Activities and Budget into MSA Contract Extended Period of Performance from SWS-UB
- VMSA-20-021 – Add & Modify Scope, Schedule & Budget to L-850, L-894, L-895, & L-897 from SWS-UB

Changes in Management Reserve:

The MR for this reporting period remained the same at \$0.08M.

Differences in the Performance Measurement Baseline:

This reporting period the Performance Measurement Baseline increased \$13.9M from \$2,822.0M to \$2,835.9M. The primary reason for the increase was due to contract Mod 864, which provided additional budget for the contract extension.

The following BCRs changed the PMB:

- VMSA-20-012 – Implement CBAG Rev 2 – Step 2 and Move Budget from Other WBSs and SWS-UB
- VMSA-20-023 – Mod 864 – Increase the NTE Budget for MSC Contract Extensions Period from November 25, 2019 to May 25, 2020 Reducing the UB Credit Balance



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 (2019/12/23)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2020/01/26)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NO X YES	
5. Evaluation				

- VMSA-20-009 – AUW – Add Additional L-612 Design Activities & Budget in to the MSA Contract Extension Period of Performance

The following Reliability Projects BCRs adjusted time phasing, but did not change the PMB:

- VMSA-20-018 – Create a Level 4 & 5 WBS for L-798, 2101M HVAC Replacement and Move Budget from SWS-UB for Procurements
- VMSA-20-019 – Re-Plan L-919 Design/Construct Activities for MSA Contract Extended Period of Performance and Move Budget in to SWS-UB
- VMSA-20-020 – Move Additional L-921 Design/Construct Activities and Budget into MSA Contract Extended Period of Performance from SWS-UB
- VMSA-20-021 – Add & Modify Scope, Schedule & Budget to L-850, L-894, L-895, & L-897 from SWS-UB

Differences in the Non - Performance Measurement Baseline:

This reporting period the non-PMB increased \$7.0M from \$1,361.7M to \$1,368.7M. The primary reason for the increase was due to contract Mod 864, which provided additional budget for the contract extension.

The following BCR changed the non-PMB:

- VMSA-20-012 – Implement CBAG Rev 2 – Step 2 and Move Budget from Other WBSs and SWS-UB
- VMSA-20-023 – Mod 864 – Increase the NTE Budget for MSC Contract Extensions Period from November 25, 2019 to May 25, 2020 Reducing the UB Credit Balance

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

The Best Case MEAC assumes the completion of the approved work scope at the current negotiated contract value consistent with the Contract Budget Base. 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.

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 2020 to Date – January 2020					
Account Description	BCWS	BCWP	ACWP	CV	Liquidation
Direct Labor Adder					
Software Engineer Services DLA (3001.03.02.03)	\$1,000.8	\$1,000.8	\$835.3	\$165.5	(\$926.5)
Content & Records Management DLA (3001.03.01.04)	\$277.3	\$277.3	\$275.9	\$1.4	(\$267.6)
Transportation DLA (3001.04.06.02)	\$1,907.9	\$1,907.9	\$1,904.6	\$3.3	(\$2,118.9)
Maintenance DLA (3001.04.05.02)	\$3,319.8	\$3,319.8	\$3,329.1	(\$9.3)	(\$3,199.2)
Janitorial Services DLA (3001.04.05.03)	\$448.1	\$448.1	\$448.4	(\$0.3)	(\$410.1)
Total Direct Labor Adder	\$6,953.9	\$6,953.9	\$6,793.3	\$160.6	(\$6,922.3)

ACWP = Actual Cost of Work Performed.

CV = Cost Variance

BAC = Budget at Completion.

FYTD = Fiscal Year to Date

BCWP = Budgeted Cost of Work Performed.

BCWS = Budgeted Cost of Work Scheduled.



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

Fiscal Year 2020 to Date – January 2020					
Account Description	BCWS	BCWP	ACWP	CV	Liquidation
Usage Based Services					
Training (3001.01.04.02)	\$5,226.9	\$5,226.9	\$5,181.4	\$45.5	(\$5,080.5)
HRIP (3001.02.04.02)	\$1,399.6	\$1,399.6	\$1,400.1	(\$0.5)	(\$1,273.7)
Dosimetry (3001.02.04.03)	\$1,691.7	\$1,691.7	\$1,704.9	(\$13.2)	(\$2,375.5)
Information Technology Services (3001.03.07.01)	\$9,410.6	\$9,410.6	\$9,450.3	(\$39.7)	(\$11,009.0)
Work Management (3001.04.13.01)	\$228.1	\$228.1	\$229.0	(\$0.9)	(\$212.3)
Courier Services (3001.04.15.02)	\$71.6	\$71.6	\$75.5	(\$3.9)	(\$74.0)
Occupancy (3001.04.14.06)	\$3,299.4	\$3,299.4	\$3,424.1	(\$124.7)	(\$3,442.0)
Crane & Rigging (3001.04.08.02)	\$3,852.9	\$3,852.9	\$3,856.0	(\$3.1)	(\$4,230.1)
Fleet (3001.04.07.02)	\$5,526.3	\$5,526.3	\$5,766.9	(\$240.6)	(\$5,546.8)
Total UBS	\$30,707.1	\$30,707.1	\$31,088.2	(\$381.1)	(\$33,243.9)
Total DLA / UBS	\$37,661.0	\$37,661.0	\$37,881.5	(\$220.5)	(\$40,166.2)

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) – Variance within threshold. The fiscal year to date minimal unfavorable cost variance is driven by the Fleet Services Usage Based Accounts. The increased Site demand for Fleet materials, fuel and mechanic labor has resulted in costs exceeding plan.



8.0 RELIABILITY PROJECT STATUS

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

Table 8-1. Current Active Reliability Project Summary

Projects to be Completed (\$000's)															
Work Scope Description (Reliability Projects)	Contract to Date - Performance							Project Baseline				Completion Dates			
	BCWS	BCWP	ACWP	SV	CV	SPI	CPI	BAC	EAC	VAC	% Complete	Baseline Complete Date	Forecast Date	Schedule at Complete	VAC Cost
L-850, Replace 200W 1.1M-gal PW Tank	944.9	936.2	1,130.6	(8.6)	(194.4)	0.99	0.83	1,172.5	1,359.6	(187.1)	79.9%	5/21/20	5/21/20	G	Y
L-849, Replace 200E 1.1M-gal PW Tank	767.3	498.6	664.2	(268.7)	(165.6)	0.65	0.75	767.3	811.2	(43.9)	65.0%	11/05/18	6/08/20	R	G
L-894, Raw Water Cross Connection Isolation 200E/W	7,879.0	7,878.5	6,615.7	(0.4)	1,262.8	1.00	1.19	8,015.6	7,185.2	830.3	98.3%	5/21/20	5/21/20	G	G
L-895, Fire Protection Infrastructure for Plateau Raw Water	7,573.7	5,718.8	6,415.1	(1,854.9)	(696.3)	0.76	0.89	8,708.9	8,999.9	(291.1)	65.7%	9/17/19	5/04/21	R	Y
L-357, Replace 12" Potable Water Line to 222-S Lab	1,654.4	1,639.7	1,672.7	(14.7)	(33.0)	0.99	0.98	1,654.4	1,689.5	(35.1)	99.1%	7/15/19	3/09/20	R	G
L-781, 181D Vertical Turbine Pumps	605.7	378.5	321.0	(227.2)	57.4	0.62	1.18	605.7	625.4	(19.7)	62.5%	5/23/19	7/28/20	R	G
L-897, Central Plateau Water Treatment Facility	2,484.8	2,443.9	2,321.2	(40.9)	122.7	0.98	1.05	3,051.1	2,939.0	112.1	80.1%	5/21/20	7/23/20	R	G
L-826, 181B Vertical Turbine Pumps	605.7	319.5	304.8	(286.2)	14.6	0.53	1.05	605.7	597.2	8.5	52.7%	5/23/19	7/28/20	R	G
L-839, 12" Potable Water Loop Line to WTP	129.2	199.4	126.2	70.1	73.2	1.54	1.58	250.5	150.8	99.7	79.6%	5/21/20	2/10/20	G	G
L-853, 200E Sewer Flow Equalization Facility	6,054.1	6,008.1	6,513.5	(46.0)	(505.4)	0.99	0.92	6,054.2	6,698.1	(644.0)	99.2%	1/28/19	6/18/20	R	R
L-854, 200E Sewer Consolidations	5,960.6	5,743.2	6,012.6	(217.4)	(269.4)	0.96	0.96	5,960.7	6,311.6	(350.9)	96.4%	4/16/19	7/08/20	R	R
L-789, Prioritize T&D Sys Wood PP Test & Replace	6,264.3	5,778.1	6,375.6	(486.3)	(597.5)	0.92	0.91	8,552.1	8,559.1	(7.0)	67.6%	5/21/20	5/21/20	G	G

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							Project Baseline				Completion Dates			
	BCWS	BCWP	ACWP	SV	CV	SPI	CPI	BAC	EAC	VAC	% Complete	Baseline Complete Date	Forecast Date	Schedule at Complete	VAC Cost
L-801, Upgrade SCADA	1,131.0	1,097.0	1,158.8	(34.0)	(61.8)	0.97	0.95	1,131.0	1,225.1	(94.1)	97.0%	11/25/19	5/21/20	R	G
L-791, RFL Transfer Trip Upgrades	943.6	943.6	752.2	(0.0)	191.4	1.00	1.25	943.6	752.2	191.4	100.0%	5/23/19	1/23/20	R	G
L-720, Outdoor Lighting Reconfiguration and Repl	203.0	189.5	287.0	(13.4)	(97.5)	0.93	0.66	203.0	344.1	(141.1)	93.4%	5/29/19	4/13/20	R	Y
H-006, 10 CFR 851	2,556.2	2,072.1	2,055.2	(484.0)	16.9	0.81	1.01	2,556.2	2,649.2	(93.0)	81.1%	11/25/19	4/20/20	R	G
L-861, Single Circuit Distribution Pole Replacement	2.1	2.3	0.7	0.2	1.6	1.11	3.49	283.1	281.7	1.4	0.8%	5/19/20	5/06/20	G	G
L-612, 230kV Trans Sys Recon & Sustainability	1,084.0	1,171.9	465.1	87.9	706.7	1.08	2.52	1,828.3	1,208.9	619.5	64.1%	5/21/20	5/21/20	G	G
L-888, 400 Area Fire Station	1,542.5	1,504.0	1,409.2	(38.5)	94.9	0.98	1.07	1,542.5	1,425.2	117.3	97.5%	11/25/19	5/13/20	R	G
L-796, Key Facilities Roof Replacements	2,080.3	2,078.7	2,092.0	(1.6)	(13.4)	1.00	0.99	2,670.1	2,684.1	(14.1)	77.9%	5/21/20	5/21/20	G	G
L-798, 2101M HVAC Replacement	0.0	5.8	0.0	5.8	5.8	0.00	0.00	258.8	258.8	(0.0)	2.2%	5/18/20	5/18/20	G	G
L-905, FARS & RFARS Replacement & Upgrade	641.9	159.9	191.0	(482.0)	(31.1)	0.25	0.84	641.9	679.5	(37.7)	24.9%	11/25/19	6/09/20	R	G
L-921, Telecom Hut at Met Tower	51.0	47.6	105.7	(3.4)	(58.1)	0.93	0.45	231.2	303.6	(72.4)	20.6%	5/21/20	5/27/20	Y	G
L-919, Emergency Radio Upgrade	3,822.9	3,822.9	4,089.7	(0.0)	(266.8)	1.00	0.93	3,961.9	4,239.5	(277.6)	96.5%	5/21/20	5/21/20	G	Y
H-001, BMS Upgrade	512.0	506.2	426.5	(5.8)	79.7	0.99	1.19	760.6	725.7	34.9	66.5%	5/21/20	8/27/20	R	G
Total	55,493.9	51,143.8	51,506.5	(4,350.0)	(362.6)	0.92	0.99	62,410.7	62,704.2	(293.6)	81.9%				

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



RELIABILITY STATUS, CONT.

Reliability Projects Variance Explanations

Contract-to-Date (CTD) Schedule Variances (SV) (Threshold: +/- \$250K):

- L-849, *Fire Protection Infrastructure for Plateau Water*: Unfavorable CTD SV is due to additional analysis of fire water demands on the Central Plateau, sequencing the 60% design resubmittal to resume after the Project L-850 design was completed, design change orders, and realized risks.
- L-895, *Fire Protection Infrastructure for Plateau Water*: Unfavorable CTD SV is due to several construction and procurement activity delays including erection of the 282WF building, anchoring and wiring of several major components, and Programmable Logic Controllers (PLC) procurement and pre-programming subcontract.
- L-826, *181B Vertical Turbine Pumps*: Unfavorable CTD SV is due to a delay in awarding the Architectural/Engineering design contract. The Project identified an inefficient hydraulic pump design during the hydraulic analysis review that delayed submittal of the 30% design.
- H-006, *10CFR 851*: Unfavorable CTD SV is because of encountering breaker maintenance outage challenges with scheduling the actual outage in the field.
- L-905, *FARS & RFARS Replacement & Upgrade*: Unfavorable CTD SV is due to delayed approval of both the Facility Management Plan and final review of the Statement of Work resulting in a two-month schedule slip.

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

- L-894, *Raw Water Cross Connection Isolation 200E/W*: Favorable CTD CV is due to the Engineering Study report costing less than planned (~\$180K), Conceptual Design utilizing fewer resources than originally planned (~\$110K), the Definitive Design cost underrun (~\$205K), and the construction contract being awarded for less than the planned value (~\$820K).
- L-895, *Fire Protection Infrastructure for Plateau Raw Water*: Unfavorable CTD CV is due to cumulative existing Architecture/Engineering internal labor cost overruns as well as actual costs exceeding the work performed on several current construction and procurement activities.



- L-853, *200E Sewer Flow Equalization Facility*: Unfavorable CTD CV is due to overruns in MSA labor, unplanned training costs, and subcontract cost that exceeded expectations due to change orders.
- L-789, *Prioritize T&D Sys Wood Test & Replace*: Unfavorable CTD CV is due to higher than anticipated costs for lineman supporting the project, as well as minimal work being performed by the subcontractor during the December holiday season and minimal work performed in January due to their mutual aid agreement in support of the Public Utility District restoration work North of Seattle..
- L-612, *230kV Trans Sys Recon & Sustainability*: Favorable CTD CV is due to 30% Design Contract efficiencies.

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

- L-894, *Raw Water Cross Connection Isolation 200E/W*: Favorable VAC is primarily due to the firm fixed price construction contract being awarded at less than the planned value, and Architectural/Engineering costs being less than planned.

Table 8 -2. Reliability Projects Schedule

RPSUM CU - Summary RP Schedule for Melodee - Current Layout: MSA - Summ RP Sched - Melodee - CU		Mission Support Alliance							Page 1 of 2			
Activity ID	Activity Name	OD	RD	% Comp	Baseline Start	Baseline Finish	Forecast Start	Forecast Finish	2017	2018	2019	2020
H-001	H-001, BMS Upgrade	133	151	66.5%	20-May-19	21-May-20	20-May-19 A	27-Aug-20				
H-006	H-006, 10 CFR 851	292	60	81.1%	01-Oct-18	25-Nov-19	01-Oct-18 A	20-Apr-20				
L-357	L-357, Replace 12" Potable Water Line to 222-S Lab	512	30	99.1%	03-Jul-17	15-Jul-19	29-Jun-17 A	09-Mar-20				
L-612	L-612, 230kV Trans Sys Recon & Sustainability	41	83	64.1%	30-Sep-19	21-May-20	01-Oct-18 A	21-May-20				
L-720	L-720, Outdoor Lighting Reconfiguration and Repl	147	55	93.4%	15-Oct-18	29-May-19	01-Oct-18 A	13-Apr-20				
L-781	L-781, 181D Vertical Turbine Pumps	163	129	62.5%	01-Oct-18	23-May-19	01-Oct-18 A	28-Jul-20				
L-789	L-789, Prioritized T&D System Wood Pole Upgrades	398	83	67.6%	01-May-18	21-May-20	03-May-18 A	21-May-20				
L-791	L-791, RFL Transfer Trip Upgrades	265	0	100%	07-May-18	23-May-19	07-May-18 A	23-Jan-20 A				
L-796	L-796, Key Facilities Roof Replacements	265	83	77.9%	04-Dec-19	21-May-20	07-May-18 A	21-May-20				
L-798	L-798, 2101M HVAC Replacement	265	80	2.2%	03-Feb-20	18-May-20	07-May-18 A	18-May-20				
L-801	L-801, Upgrade SCADA	76	83	97%	04-Sep-18	25-Nov-19	05-Sep-18 A	21-May-20				
L-826	L-826, 181B Vertical Turbine Pumps	163	129	52.7%	01-Oct-18	23-May-19	01-Oct-18 A	28-Jul-20				
L-839	L-839, 12" Potable Water Loop Line to WTP	109	11	79.6%	24-Jun-19	21-May-20	24-Jun-19 A	10-Feb-20				
L-849	L-849, Replace 200E 1.1M-gal PW Tank	216	94	65%	02-Jan-18	05-Nov-18	02-Jan-18 A	08-Jun-20				
L-850	L-850, Replace 200W 1.1M-gal PW Tank	480	83	79.9%	02-Jan-18	21-May-20	02-Jan-18 A	21-May-20				

 Remaining Work
 Baseline

MSC - Reliability Projects
Summary Schedule
Data Date: 26-Jan-20



Table 8 -2. Reliability Projects Schedule Cont.

RPSUM CU - Summary RP Schedule for Melodee - Current Layout: MSA - Summ RP Sched - Melodee - CU		Mission Support Alliance							Page 2 of 2			
Activity ID	Activity Name	OD	RD	% Comp	Baseline Start	Baseline Finish	Forecast Start	Forecast Finish	2017	2018	2019	2020
L-853	L-853, 200E Sewer Flow Equalization Facility	867	102	99.2%	17-Aug-15	28-Jan-19	17-Aug-15 A	18-Jun-20				
L-854	L-854, 200E Sewer Consolidations	922	115	96.4%	17-Aug-15	16-Apr-19	17-Aug-15 A	08-Jul-20				
L-861	L-861, Single Circuit Distribution Pole Replacement	265	72	0.8%	13-Jan-20	19-May-20	07-May-18 A	06-May-20				
L-888	L-888, 400 Area Fire Station	399	77	97.5%	30-Apr-18	25-Nov-19	30-Apr-18 A	13-May-20				
L-894	L-894, Raw Water Cross Connection Isolation 200EW	527	83	98.3%	04-Apr-17	21-May-20	30-Mar-17 A	21-May-20				
L-895	L-895, Fire Protection Infrastructure for Plateau Raw Water	605	322	65.7%	05-Jul-17	17-Sep-19	05-Jul-17 A	04-May-21				
L-897	L-897, Central Plateau Water Treatment Facility	503	126	80.1%	29-Nov-17	21-May-20	29-Nov-17 A	23-Jul-20				
L-905	L-905, FARS & RFARS Replacement & Upgrade	331	95	24.9%	06-Aug-18	25-Nov-19	06-Aug-18 A	09-Jun-20				
L-919	L-919, Emergency Radio Upgrade	90	83	96.5%	22-Jul-19	21-May-20	22-Jul-19 A	21-May-20				
L-921	L-921, Telecom Hut at Met Tower	178	86	20.6%	18-Mar-19	21-May-20	18-Mar-19 A	27-May-20				

Remaining Work
 Baseline

**MSC - Reliability Projects
Summary Schedule
Data Date: 26-Jan-20**





9.0 BASELINE CHANGE REQUEST LOG (BCR)

Baseline Change Request Log for January 2020.

Eight Baseline Change Requests (BCRs) were processed in January.

Two BCRs Authorized by a Contract Modification or RL Direction:

- VMSA-20-012 – Implement CBAG Rev 2 – Step 2 and Move Budget from Other WBSs and SWS-UB
- VMSA-20-023 – Mod 864 – Increase the NTE Budget for MSC Contract Extensions Period from November 25, 2019 to May 25, 2020 Reducing the UB Credit Balance

Five BCRs related to Reliability Projects:

- VMSA-20-018 – Create a Level 4 & 5 WBS for L-798, 2101M HVAC Replacement and Move Budget from SWS-UB for Procurements
- VMSA-20-009 – AUW – Add Additional L-612 Design Activities & Budget in to the MSA Contract Extension Period of Performance
- VMSA-20-019 – Re-Plan L-919 Design/Construct Activities for MSA Contract Extended Period of Performance and Move Budget in to SWS-UB
- VMSA-20-020 – Move Additional L-921 Design/Construct Activities and Budget into MSA Contract Extended Period of Performance from SWS-UB
- VMSA-20-021 – Add & Modify Scope, Schedule & Budget to L-850, L-894, L-895, & L-897 from SWS-UB

One BCR was Administrative in Nature:

- VMSA-20-004 Rev 3 – Administrative BCR – Create Lower Level Task Order (LLTO) WBSs for Cost Collection Established in the Month of January

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	FY20 Budget	FY20 Management Reserve	Post Contract Budget	Post Contract Mgmt Reserve	Total Lifecycle	Cum Lifecycle Budget
Prior PMB Total	Dec 2019	1,230,506		1,230,506	1,230,506	122,593		1,591,545		2,822,051	2,822,051
VMSA-20-004 Rev 3						0		0		0	2,822,051
VMSA-20-009						821		821		821	2,822,872
VMSA-20-012						0		0		0	2,822,872
VMSA-20-018						0		0		0	2,822,872
VMSA-20-019						0		0		0	2,822,872
VMSA-20-020						0		0		0	2,822,872
VMSA-20-021						0		0		0	2,822,872
VMSA-20-023						13,032		13,032		13,032	2,835,905
Revised PMB Total	Jan 2020	1,230,506		1,230,506	1,230,506	136,447		1,605,399		2,835,905	
Prior Non-PMB Total	Dec 2019	604,007		604,007		50,510		757,740		1,361,747	1,361,747
VMSA-20-023						6,968		6,968		6,968	1,368,714
Revised Non-PMB Total	Jan 2020	604,007		604,007		57,477		764,708		1,368,714	
Total Contract Performance Baseline	Jan 2020	1,834,513		1,834,513	1,834,513	193,924		2,370,107		4,204,619	
Management Reserve	Dec 2019		0	0			79		79	79	79
Revised Management Reserve	Jan 2020		0	0			79		79	79	
Total Contract Budget Base	Jan 2020			1,834,513				2,370,186		4,204,698	
Prior Fee Total	Dec 2019	109,961		109,961		3,712		113,286		223,247	223,247
Revised Fee Total	Jan 2020	109,961		109,961		3,712		113,286		223,247	
Change Log Total	Jan 2020			1,944,473				2,483,472		4,427,945	



10.0 RISK MANAGEMENT

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

- Mission Risk Management:
 - Mission risk review/updates: Risk register reviews and elicitations were held with the MSA Environmental, Safety, Health & Quality (ESH&Q), Emergency Services (ES), Information Management (IM), Site Services and Infrastructure Management (SS&IM), and Public Works (PW) organizations. Revisions to the associated risk registers were captured as appropriate.
 - The Mission level reviews did not result in any changes to the overall risk posture. As a result, the Risk Management Board was not held for January.
- 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.
 - Six Project Risks were closed, including two for Project L-888, *400 Area Fire Station*.
 - Risk Management staff reviewed the monthly Operations Project Reports for each Reliability Project, and any related Key Risks for monthly reporting to RL.
- Other Support:
 - Enterprise Risk and Opportunity Management System (EROMS):
 - Ongoing meetings were held with software engineers and Risk representatives from DOE-RL and the other Hanford contractors to finalize the implementation of the updated version.
 - Additional meetings were held to discuss the specific requests in the newest version. This version is schedule to be implemented in late spring.
 - Completed Risk Analysis Reports for all Phase 1 BCR projects



- Completed 24 Hour Operations Mitigation Plan (DFLAW) template
- Conducted Risk Elicitation for Projects L-907, *Fleet Complex Site Development*; L-603, *Chip Seal Rte 3, Rte 11A to Rte 4S*; and L-883, *Chip Seal Rte 10, SR240 to Wye Barricade*, scope



11.0 DASHBOARD SUMMARY

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

January FY 2020		YTD Jan
Deliverables		
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	
	b Biological Controls – Tumbleweed Removal	
	c Biological Controls – Vegetation	
	d Contractor Assurance System - Assessments	
	e Contractor Assurance System - Causal Analysis	
	f Contractor Assurance - Issue Resolved	
	g Crane and Crew Support	
	h Facilities Maintenance	
	i Fire Systems - Inspection, Testing and Maintenance	
	j Fire Systems - Priority 1 Emergency Impairments	
	k Fire Systems - Priority 2 Emergency Impairments	
	l Fire Systems - Priority 3 Emergency Impairments	
	m Fleet Services – Heavy Equipment (Cranes)	
	n Fleet Services – Heavy Equipment (Evacuators)	
	o Fleet Services – Heavy Equipment (General Purpose)	
	p Fleet Services – Light Equipment (Hanford Patrol)	
	q Fleet Services – Light Equipment (Hanford Fire)	
	r Fleet Services – Light Equipment (Special Purpose Trucks)	
	s IT - Cyber Security – System Patching	
t RSS - Dosimetry External Services		
u RSS - Instrument Calibration		

LEGEND

= On Schedule

= Objective missed

N/A = Not Applicable (Updated quarterly)

= Complete

= In jeopardy



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

January FY 2020		YTD Jan	
Deliverables			
1.0 Effective Site Cleanup - Achievement of cleanup contractors' key milestones and regulatory commitments			
1.2	Demonstrate effective management of electric, water and sewer utilities to maximize reliability and redundancy		
	Water	Maintain Raw Water Pressure at ICD Level	
		Maintain Potable Water Pressure at ICD Level	
		Perform Preventative maintenance at 90% or better each month	
		Maintain backlog corrective maintenance average age of open work packages to 300 days or less	
		Ensure all water quality samples are completed on time	
	Quarterly System Health Report by Engineering submitted one calendar month after each quarter		
	Sewer	Perform Preventative maintenance at 90% or better each month	
		Maintain backlog corrective maintenance average age of open work packages to 300 days or less	
		Quarterly System Health Report by Engineering submitted one calendar month after each quarter	
	Electric	Electric power availability	
		Perform Preventative maintenance at 90% or better each month	
Quarterly System Health Report by Engineering submitted one calendar month after each quarter			
1.3	Maximize efficient MSA use of resources to meet the other Hanford contractors' changing project needs.		
TOTAL OBJECTIVE FEE POOL			
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		
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		
Performed work safely and in a compliant manner that assures the workers, public, and environment are protected from adverse consequences			
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.			
TOTAL SUBJECTIVE FEE POOL			
TOTAL FEE POOL* (Adjusted for Contract Modifications: N/A)			

LEGEND

= On Schedule

= Objective missed

N/A = Not Applicable (Updated quarterly)

= Complete

= In jeopardy

1.3 - Yellow for January, Green overall. The overall Pool status stands at (5.7%) over liquidated fiscal year-to-date, exceeding the 5% goal. The time-phased plan reflects a forecast, which continues to exceed the 5% level in the upcoming quarter, due to high dollar procurements later in year. Pools are evaluated quarterly to determine if any rate changes are warranted.

12.0 CONTRACT DELIVERABLES STATUS

The following itemizes the contract deliverables due to RL in January 2020, and also provides a look ahead through February 2020.

Table 12-1. January 2020 – February 2020 Contract Deliverables

CDRL	Deliverable	Responsible	Date Due	Date Submitted to DOE	RL Action	Response Time	Date Due from DOE	Date Approved by DOE
CD0123	Monthly Billing Reports for DOE Services - Dec	Eckman / Combs	01/05/20	12/31/19	Information	N/A		
CD0124	Quarterly Service Level Report	Eckman / Combs	01/10/20	01/09/20	Information	N/A		
CD0144	Monthly Performance Report - Nov	Millikin / Benham	01/10/20	01/07/20	Review	N/A		
CD0178	Quarterly Manpower Reports and Budget Forecasts	Walton / Giulio	01/15/20	01/09/20	N/A	N/A		
CD0023a	National Security System (NSS) - Quarterly Status Report	Walton / Bernard	01/23/20	01/09/20	Review	N/A		
CD0084	BPA Power and Transmission Service invoice verification and breakdown of site contractor costs - Nov	Synoground / Caudill	01/30/20	01/30/20	Review	N/A		
CD0039	Mutual Aid Agreements	Walton / Kuhman	01/31/20	01/30/20	Review	N/A		
CD0064	Hanford Site Environmental Surveillance Master Sampling Schedule	Wilson / Teel	01/31/20	01/22/20	Approve	30 days	02/21/20	
CD0080	Replacement of GSA Leased Vehicles Report	Von Bargaen / Baie	02/04/20	01/27/20	Review	N/A		
CD0123	Monthly Billing Reports for DOE Services - Jan	Eckman/Combs	02/05/20	02/05/20	Information	N/A		
CD0051	Milestone Review and IAMIT Meeting Minutes - October	Wilson / Turner	02/11/20	02/11/20	Information	N/A		
CD0144	Monthly Performance Report - Dec.	Millikin / Benham	02/10/20	02/06/20	Review	None		
CD0038	Summary of Fire and Other Property Damage Experienced	Walton / Kuhman	02/15/20	02/11/20	Review	30 days		
CD0084	Bonneville Power Administration (BPA) Power and Transmission Service invoice verification and breakdown of site contractor costs - Dec	Synoground / Caudill	02/28/20		Review	30 days		

NOTE: 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 in 2019:

- GF049, due June 1, 2019: 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, 2019: 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.

Plan Category	MSA Goal	FY 2020 Actual To-Date	Cumulative %
Small Business	50.0%	77.5%	83.5%
Small Disadvantaged Business	10.0%	22.2%	20.3%
Small Women-Owned Business	6.8%	29.4%	16.3%
HubZone	2.7%	16.4%	7.0%
Small Disadvantaged, Service Disabled	2.0%	11.5%	7.7%
Veteran-Owned Small Business	2.0%	11.6%	8.9%

Through January 2020

Prime Contract Targets:

- At least 40% contracted out beyond MSA, LLC = 36.4% (\$1.611B/\$4.428B)
- Small Business 25% of Total Mission Support Contract (MSC) Value = 30.4% (\$1.344B/\$4.428B)

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.



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