

MISSION SUPPORT ALLIANCE

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



Monthly Performance Report

May 2019

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 May 2019.

1.1 KEY ACCOMPLISHMENTS

Data Center Migration Complete – MSA recently closed the doors on an aging data center in the 300 Area of the Hanford Site. Working with area public utility districts (PUD) and a telecommunications company, MSA moved out of the 4,800-square-foot data center and into a 480-square-foot room in a Franklin County (WA) PUD facility with space allocated specifically for Hanford. The servers and storage were relocated on May 3, 2019, with the primary routing transferred on May 4, 2019.



Technicians relocate old datacenter equipment and servers into new facility

FY 2019 Hanford Site Annual Field Exercise – On May 30, 2019, MSA Emergency Management Program (EMP) personnel conducted the Hanford FY 2019 Site Field Exercise at the Canister Storage Building (CSB) and Interim Storage Area Facility. EMP staff worked with participating organizations to develop an exercise that enables the CSB facility emergency response organization, Hanford emergency services organizations, and offsite agencies to demonstrate responses to a simulated malevolent event causing release of hazardous materials. Offsite participants included the states of Washington and Oregon; Washington’s Benton, Franklin and Grant Counties; and Trios Hospital (Pasco, WA).



Emergency Medical Management Personnel Site Field Exercise

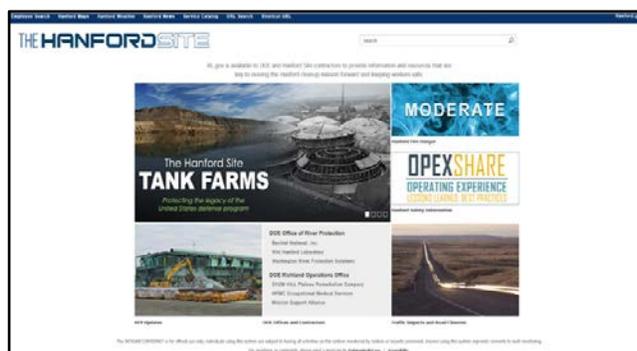


HAMMER Trains Nearly 2,000 Workers to New Electrical Standards – The Volpentest Hazardous Materials Management and Emergency Response Federal Training Center (HAMMER), managed by MSA, recently trained 2,494 Hanford Site workers over 67 instructional days. The training resulted from the need for the workers to implement the latest National Fire Protection Association (NFPA) standard on workplace electrical safety. For the coursework, HAMMER staff revised six existing curricula and developed one new program. Class formats are now more collaborative and focus on practical application, since demonstrations are key to satisfying the new NFPA training requirements.

Mid-Year Rates Changes/Implementation – Following a mid-year review of the MSA Forward Pricing Rates and Usage Based Service (UBS) rates, MSA prepared and submitted to DOE-RL a forward priced rate change package (Revision 1 for FY 2019) for all the Labor, Continuity of Service, Absence Adder, Transportation Direct Labor Adder, and General and Accounting (G&A) rates. With RL’s concurrence to the changes, the rates were implemented in May, distributing the passback to all appropriate customers.

Energy Efficiency Incentives - Through May 2019, the Site earned \$141,445 in Bonneville Power Administration incentives for completing energy saving projects. The Site is on track to receive 100% of the fiscal year (FY) 2018 – FY 2019 biennial budget of \$420,612.30. With the completion of this biennial budget period, the Site will have received over \$1,000,000 in energy incentives since the program’s inception in 2012.

Richland Operations Office Web Portal Redesign – A newly redesigned www.RL.gov web portal was launched in May. The RL.gov portal page is the main starting web page, and viewed more than four million times a year by the Hanford workforce. The www.RL.gov web portal redesign is to be used to communicate Hanford related information including safety, fire danger, related Hanford projects and links to contractor web sites.



Assistance to Waste Treatment Plant (WTP) Fiber Installation – MSA Information Management is responsible for the installation of fiber around the perimeter of the WTP construction site to the A6 substation. Installation included putting in fiber cable from

the west side of the WTP site to the A6 substation on the east side of the WTP site. The fiber terminations are now complete at the A6 substation.

Automated Hot Stick Testing – MSA

Electrical Utilities (EU) is responsible for the safe, reliable, and compliant operation of a variety of electrical protective equipment including hot sticks. These important potentially lifesaving tools require periodic testing in accordance with Occupational Safety and Health Administration (OSHA), American Society for Testing and Materials (ASTM), Institute of Electrical and Electronics Engineers (IEEE), and other standards.



New hot stick testing machine

For the past several years, EU staff have used a manual process for testing hundreds of hot sticks with their different sizes, functions, and types. With the recent purchase of a new testing machine, EU workers will now be able to test up to 12 sticks at a time. The automatic high-voltage testing machine will: 1) raise and lower the voltage to a setpoint, 2) provide automatic timing of a test, and 3) provide automatic visual and audible indication of pass or fail. Automating this labor-intensive process will save time and offer a uniform approach to improve equipment safety and reliability.

Repairs of Water Valve Leaks – On May 20, 2019, MSA Water and Sewer Utilities (W&SU) was notified of a water leak at valve 357S. A walk down confirmed the valve was broken and leaking at a rate of one-half to one gallon per minute. The 12-inch potable water line was immediately isolated, which impacted hydrants and domestic water service to a number of buildings. Due to the location, an ERMA (expedited repair maintenance activity) was declared.



Sanitary water line break

Repairs were then completed, bacti samples taken, and the line put back in service. On May 23, 2019, W&SU was notified of another water leak at valve 197S. A walk down confirmed a leak of one-half gallon per minute at the upstream side of the valve. Crews immediately isolated the two-inch potable water line, which impacted hydrants and domestic water service to several facilities. The release's location required notification to the State of Washington, Department of Ecology (Ecology). Due to the location, an ERMA was declared. Subsequently, repairs were completed, bacti samples taken, and the line put back into service.

Hanford Fire Operations Administration Facility Repairs – During May, carpenters, pipefitters, and sheet metal workers performed repair work at the Hanford Fire Operations Administration Facility. Crews removed the ice machine from the kitchen, removed restroom partitions as necessary, and built containment in the kitchen and bathrooms. Damaged flooring and joists were then removed, along with wet insulation. The rooms were then "wet wiped" in order for the containment to be removed.

Facility repairs in progress



Brush Truck Paint Repairs– MSA Fleet Services and Maintenance Services repaired fire damage to the paint of a "Brush Truck" operated by the Hanford Fire Department (HFD). The damage at the rear of the vehicle occurred while responding to a wildland fire in 2018. Repainting the tank involved completely stripping old and burned paint, sanding those areas, and then priming and painting. Once painting was complete, MSA Maintenance Services sign painters re-stripped the truck to include a new design chevron as well.



Repairs made to HFD truck with fire damage

Support to Clear Path VII National Exercise – At the request of DOE Headquarters' Infrastructure Security and Energy Restoration (ISER) Division, HAMMER staff helped conduct, facilitate, and assist with logistics during the 2019 Clear Path VII National Level Exercise in Memphis, Tennessee, from April 29, 2019 through May 2, 2019. There were 120 participants from various state, county, private sector and government agencies. The exercise examined the energy sector's response and restoration roles, responsibilities, plans and procedures following a major earthquake along the New Madrid Seismic Zone, stressing interdependencies between multiple critical infrastructure sectors.



Region 8 Radiological Assistance Program (RAP) – A Region 8 RAP team was deployed, and assisted in assessing the extent of contamination at the Harbor View Research and Training Building in Seattle, WA, on May 3, 2019. The team received notification of a release of cesium chloride powder. The Region 8 RAP team members supported the cleanup efforts and assessment monitoring activities throughout the month of May.

Upgrade of Receiving and Inspection System – The Receiving Inspection Tracking System (RITS) completed final testing, Software Quality Assurance documentation review, Production Readiness Review, and is now available. User training is ongoing. RITS aggregates supply chain data from the Warehouse Receiving Inventory System, offering near real-time status updates of package progress, a user-friendly overview of receiving activities, and the ability to generate metrics to identify areas for improvement in the business process.

Contractor Assurance Support – MSA Portfolio Management staff continued to provide subject matter expertise to DOE-RL by supporting the following areas:

- Conducted an Integrated Contractor Assurance System (iCAS) briefing for DOE-RL's Assistant Manager Business and Financial Operations organization.
- Completed General Task Tracker module implementation review.
- Completed compilation of the oversight requirements developed from DOE directives to establish an Integrated Oversight Schedule for FY 2020, and delivered it (draft) to DOE.

High School Job Shadow Day – On May 15, 2019, MSA Human Resources (HR) staff, in partnership with other MSA organizations, conducted an all day job shadowing experience for students attending Delta High School (Kennewick, WA). The event was hosted by HAMMER, and was developed with the intent of providing students with the opportunity to learn more about MSA, its scope of work, and opportunities for students interested in Science, Technology, Engineering, & Math (STEM)-related career paths through hands-on activities and demonstrations. The event expanded outreach efforts and afforded Delta High School students the opportunity to better plan for their career aspirations while learning about the overall mission at Hanford.

MSA Hanford Site Tours – MSA hosted nearly 75 visitors in May for the DOE Hanford Site Cleanup Tours #4-7. The tours provide public insight into the progress of Hanford's environmental cleanup projects. This year's tour program highlights the Cold Test Facility; 324 Building Disposition Project; the 200 West Groundwater Treatment system; the sludge removal in 100K area; the Waste Treatment and



Immobilization Plant; and the Plutonium Uranium Extraction Plant (PUREX) tunnels stabilization progress.

Additionally, MSA coordinated a number of Hanford Site tours on behalf of DOE in May including:

- Defense Contract Auditing Agency/Defense Management Auditing Agency (DCAA/DCMA) visitors
- Faculty and students from Oregon State University and Western Washington University
- Washington State Congressman Newhouse and staff tour (logistics support)
- Energy Facility Contractors Group (EFCOG) Project Delivery Working Group members.

1.2 LOOK AHEAD

Conditions of Asphalt Barrier Over Waste Information Data System (WIDS) Sites –

On April 10, 2019, Long Term Stewardship (LTS) staff met with points of contact for the 324 and 325 Buildings to review current conditions of the asphalt barrier over WIDS sites assigned to LTS with enhanced recharge institutional controls. Remediation activities at the 324 Building will involve pipes being pulled from underneath a portion of a removed facility. The asphalt barrier surrounding the 325 Building is showing "alligator cracks" to be resolved by patching a larger area as opposed to crack sealing. Work planning has begun for crack sealing and patching around the building and will complete in late spring/early summer.

3-D Technology Supports Building Design – MSA Project Services is using industry best practices and 3-D modeling software to aid in the design of a new water treatment facility. The plan for the facility is to provide around-the-clock treatment of Hanford's tank waste and other priority cleanup projects. Similar to a 3-D video game, the software allows the project team to walk through a virtual rendering of the facility to identify and fix potential issues before construction begins. Design of the facility is nearly 90 percent complete, and construction is expected to begin late this year. The \$10.8 million project will provide reliable water to users in the center of the Hanford Site. In addition, it will support the Direct Feed Low-Activity Waste (DFLAW) program for starting around-the-clock operations to mix waste from large underground tanks with glass during treatment in Hanford's Waste Treatment and Immobilization Plant by the end of 2023.

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-0014	Radiological Liquid Tank Waste Stabilization and Disposition Operations	\$1,401.2	\$1,398.4	\$543.3	\$855.1
RL-0020	Safeguards & Security	\$90,966.6	\$72,613.6	\$51,477.2	\$21,136.4
RL-0040	Reliability Projects/HAMMER/ Inventory	\$3,672.0	\$3,672.0	\$1,740.8	\$1,931.2
RL-0201	Hanford Site-Wide Services	\$72,709.0	\$56,123.2	\$34,007.9	\$22,115.3
RL-0041	B Reactor	\$3,298.5	\$3,298.5	\$(1.1)	\$3,299.6
SWS	Site-Wide Services	\$213,620.9	\$186,581.0	\$125,429.2	\$61,151.8
Total		\$385,668.2	\$323,686.7	\$213,197.3	\$110,489.4

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 808, received May 30, 2019

Based upon FY19 forecast the remaining uncosted carryover balance will fund SWS through August 26, 2019 and RL-20 through August 15, 2019.



3.0 SAFETY PERFORMANCE

During the month of May, none of MSA's reported injuries were classified as "Recordable." As a result, the fiscal year 2019 Total Recordable Case (TRC) rate is 0.43 and Days Away, Restricted or Transferred (DART) rate is 0.36. These rates are below the DOE performance measurement baselines of 1.1 and 0.60, respectively. Seven First Aid cases were recorded during May, which is average for a given month. First Aids are non-reportable precursors, and used as a leading indicator to reportable events; an increase in the number of First Aid cases could indicate a potential increase of more significant incidents. All First Aid cases are evaluated to determine emerging trends, and implement awareness activities as warranted.

MSA continues to stress the need for situational awareness when performing work activities. As seasonal changes progress, new hazards are introduced into the work environment. Safety topics that focus on environmental conditions and injury prevention measures are discussion points at Monday back-to-work and other meetings. Additionally, continual notifications that report when wet-bulb globe temperature (WBGT) thresholds are exceeded are available to all employees.



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

	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19
Monthly Recordable Cases	1	1	0	1	1	0	1	1	0	1	2	0
Monthly TRC Rate	0.61	0.62	0.00	0.49	0.65	0.00	0.60	0.48	0.00	0.62	1.15	0.00
Performance (3-m Average)	0.76	0.58	0.36	0.33	0.34	0.37	0.40	0.36	0.39	0.39	0.63	0.56
Performance (12-m Average)	0.65	0.65	0.54	0.46	0.46	0.41	0.41	0.45	0.45	0.47	0.47	0.42

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

TRC is a lagging indicator.

Performance Indicator Information

PI Owner:	Lanette Adams
Data Analyst:	Ron Wight
Data Source:	MSMET
PI Basis:	MSC-PLN-WP-003, Sect. 4.0
Date:	6/10/2019

Analysis

There were no recordable injuries during the month of May. FYTD, MSA has experienced 6 OSHA recordable injuries resulting in a TRC rate of 0.43.

2018 FY Recordable Cases: 10 (TRC = 0.46)
 2017 FY Recordable Cases: 14 (TRC = 0.67)

- Types of injuries MSA has experienced during FY 2019 that were classified as Recordable:
 - overexertion (1), struck against (1), body motion (1), fall/trip/slip (3)
- Body parts that have been affected FY2019:
 - arm (1), head (1), shoulder (1), body (rib) (1), ankle (1), finger (1), knee (1)

Note: one injury affected both a knee and a finger

Action

Injury Prevention Actions:

- All First Aid cases are closely monitored to determine emerging trends and implement awareness activities, as warranted
- MSA continues to emphasize the importance of timely reporting for all injuries and has realized an increase of the reporting of minor injuries
- Discussed injuries and injury rates, including prevention measures to avoid workplace accidents and incidents, EZAC/PZAC and organizational-level safety meetings
- Continued campaign to increase employee awareness of workplace hazards and the importance of safety inspections
- Discussed the following topics at back to work meetings for all employees: motorcycle safety; work zone safety; MSA safety improvement goals for 2019; and, appropriate footwear/PPE

Additional Info

None

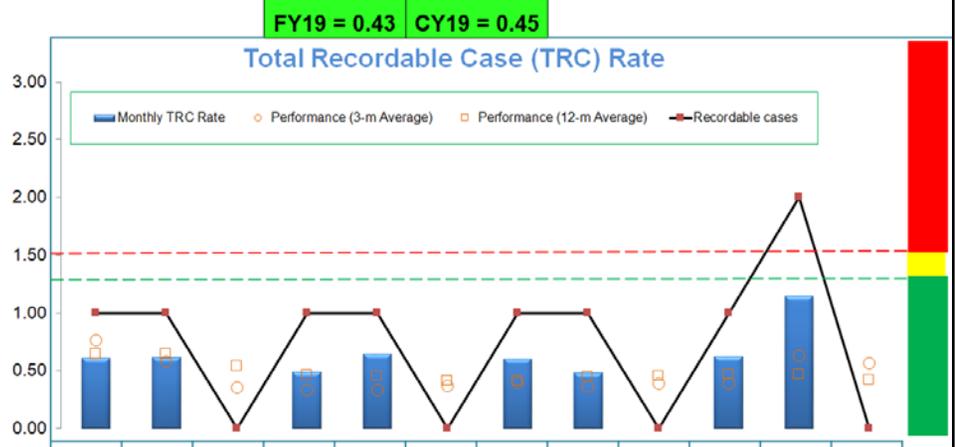




Table 3-2. Days Away, Restricted, Transferred, (DART)

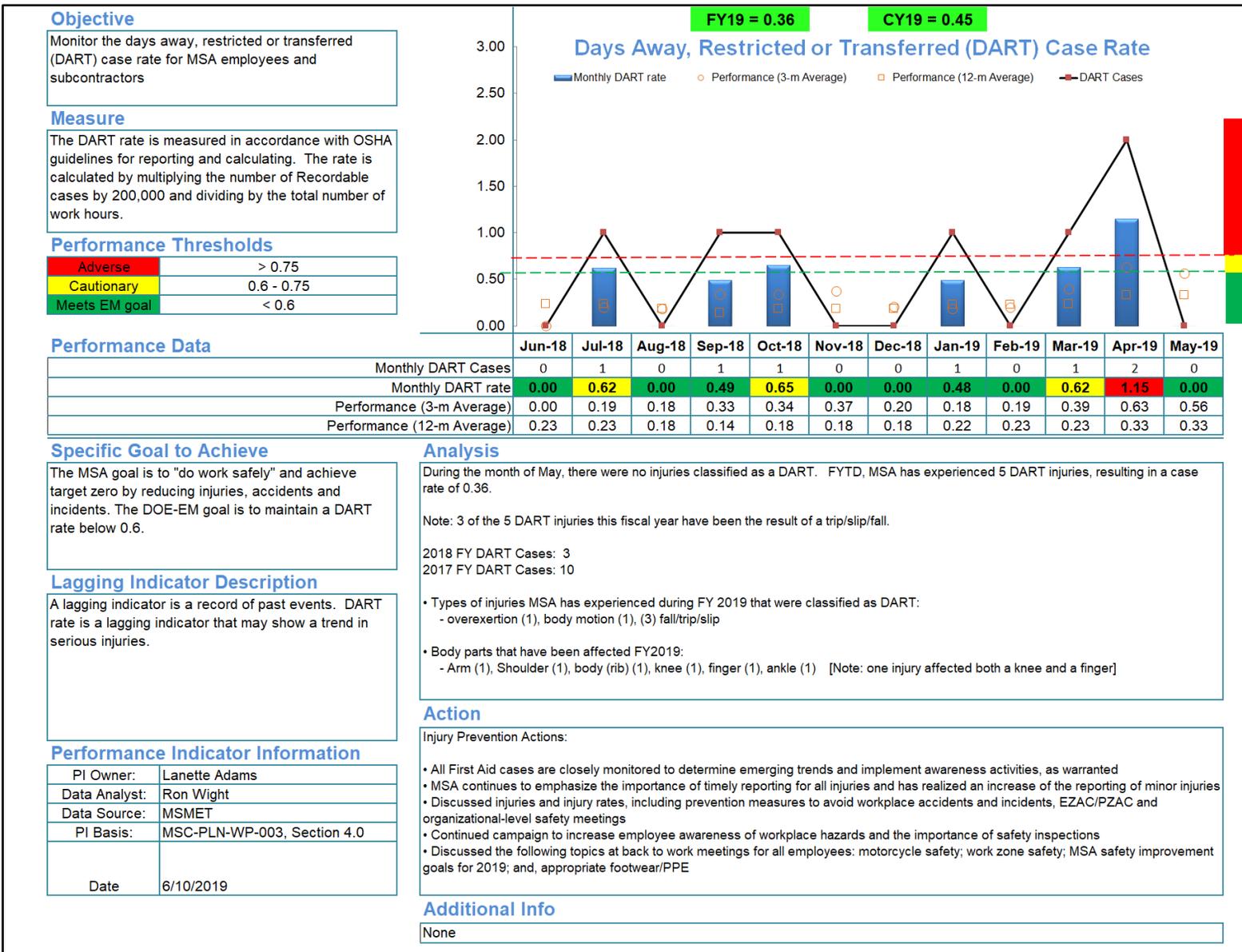




Table 3-3. First-Aid Case Rate

Objective

Monitor the number of First Aid cases and rate as a leading indicator to days away, restricted, or transferred (DART) and Total Recordable Case (TRC) rates for MSA and subcontractor employees.

Measure

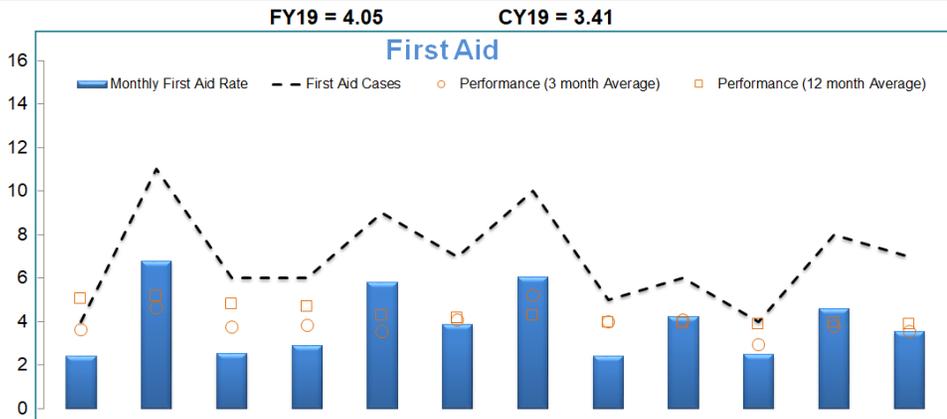
The metric is a count of the number of First Aid cases per month, and the rate of cases. The rate is calculated by multiplying the number of First Aid cases by 200,000 and dividing by the total number of work hours for a given period.

Performance Thresholds

Adverse	n/a
Declining	n/a
Meets	n/a

Performance Data

	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19
First Aid Cases	4	11	6	6	9	7	10	5	6	4	8	7
Monthly First Aid Rate	2.44	6.79	2.56	2.92	5.82	3.89	6.04	2.42	4.22	2.50	4.58	3.54
Performance (3 month Average)	3.62	4.65	3.75	3.82	3.53	4.07	5.20	3.99	4.09	2.95	3.78	3.57
Performance (12 month Average)	5.04	5.18	4.82	4.67	4.29	4.17	4.27	3.97	3.90	3.89	3.97	3.87



Specific Goal to Achieve

The goal is to "do work safely" and achieve target zero by reducing injuries, accidents and incidents while encouraging reporting of all minor injuries.

Leading Indicator Description

Non-reportable precursors are a leading indicator to reportable events. An increase in the number of First Aid cases could indicate a potential increase of more significant events.

Performance Indicator Information

PI Owner:	Lanette Adams
Data Analyst:	Ron Wight
Data Source:	MSMET
PI Basis:	MSC-PLN-WP-003 Sect. 4.0
Date	6/10/019

Analysis

MSA experienced 7 First Aid cases in May. The injuries were caused by the following incidents: body motion (3); struck by (1); struck against (2); and, overexertion (1).

Year to date, body motion has contributed to the majority of First Aid injuries.

- 25% by body motion; 21% by slips/trips/falls; 18% contact (rub/abrade/cut); 11% from being struck by; 10% by overexertion; 11% from being struck against; and, 4% from contact with an insect.

- 45% arm/hand, 23% leg/foot, 16% back, 7% head, 9% whole body.

FY 2018 First Aid Cases: 102 (Rate = 4.67)

FY 2017 First Aid Cases: 110 (Rate = 5.23)

Actions

Injury Prevention Actions:

- All First Aid cases are closely monitored to determine emerging trends and implement awareness activities, as warranted
- MSA continues to emphasize the importance of timely reporting for all injuries and has realized an increase of the reporting of minor injuries
- Discussed injuries and injury rates, including prevention measures to avoid workplace accidents and incidents, EZAC/PZAC and organizational-level safety meetings
- Continued campaign to increase employee awareness of workplace hazards and the importance of safety inspections
- Discussed the following topics at back to work meetings for all employees: motorcycle safety; work zone safety; MSA safety improvement goals for 2019; and, appropriate footwear/PPE



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												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 (2018/04/22)								
Mission Support Alliance			Mission Support Contract			Mission Support Contract											
b. Location (Address and Zip Code)			b. Number			b. Phase			b. To (2019/05/26)								
Richland, WA 99352			RL14728			Operations											
c. TYPE			d. Share Ratio			c. EVMS ACCEPTANCE											
CPAF						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		\$4,069,560		\$0		\$222,966		\$4,292,525		\$4,237,181		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)			b. TITLE		
												Wilkinson, Robert E			MSC Project Manager		
a. BEST CASE						\$4,069,560						c. SIGNATURE			d. DATE SIGNED		
b. WORST CASE						\$4,214,926									6/24/19		
c. MOST LIKELY						\$4,014,215			4,069,560			55,345					
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	8,084	8,084	7,243	0	841	590,537	590,537	586,743	0	3,794	615,344	614,383	961				
3001.01.02 - Fire and Emergency Response	3,047	3,047	4,216	0	(1,169)	254,964	254,964	254,006	0	958	267,697	267,828	(132)				
3001.01.03 - Emergency Management	459	459	490	0	(32)	43,910	43,910	43,788	0	123	45,487	45,428	58				
3001.01.04 - HAMMER	1,425	1,425	744	0	681	72,938	72,938	70,871	0	2,067	76,255	75,535	721				
3001.01.05 - Emergency Services Management	988	988	205	0	782	15,838	15,838	15,330	0	508	16,215	16,480	(265)				
3001.02.01 - Site-Wide Safety Standards	(88)	(88)	147	0	(235)	8,269	8,269	9,107	0	(838)	8,681	9,550	(869)				
3001.02.02 - Environmental Integration	474	474	397	0	76	55,755	55,755	54,795	0	960	57,287	56,257	1,030				
3001.02.03 - Public Safety & Resource Protection	545	545	1,126	0	(581)	69,191	69,191	69,856	0	(665)	73,400	74,558	(1,157)				
3001.02.04 - Radiological Site Services	(0)	0	0	0	(0)	5,282	5,282	5,129	0	153	5,282	5,253	29				
3001.02.05 - WSCF Analytical Services	0	0	0	0	0	50,212	50,212	50,457	0	(244)	50,212	50,457	(244)				
3001.03.01 - IM Project Planning & Controls	117	117	125	0	(8)	33,058	33,058	32,192	0	866	33,463	32,583	880				
3001.03.02 - Information Systems	935	935	781	0	154	115,106	115,106	114,587	0	519	120,936	120,582	354				
3001.03.03 - Infrastructure / Cyber Security	1,027	1,027	974	0	53	44,245	44,245	42,929	0	1,316	46,542	46,965	(422)				
3001.03.04 - Content & Records Management	516	516	505	0	11	67,349	67,349	67,309	0	40	70,007	69,941	66				
3001.03.05 - IR/CM Management	421	421	360	0	61	13,990	13,990	13,721	0	268	14,560	15,400	(840)				
3001.03.06 - Information Support Services	171	171	178	0	(7)	14,099	14,099	14,101	0	(2)	14,710	14,788	(78)				
3001.04.01 - Roads and Grounds Services	736	736	862	0	(126)	31,302	31,302	31,557	0	(255)	33,044	33,604	(561)				
3001.04.02 - Biological Services	401	401	402	0	(1)	37,031	37,031	36,782	0	249	38,578	38,453	126				
3001.04.03 - Electrical Services	2,489	2,489	2,148	0	340	120,967	120,967	119,466	0	1,501	127,108	126,255	853				
3001.04.04 - Water/Sewer Services	2,877	2,877	1,866	0	1,011	129,329	129,329	125,809	0	3,520	135,807	133,792	2,015				
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	39	39	43	0	(4)	10,729	10,729	10,660	0	69	10,863	10,792	70				



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 a. Name Mission Support Alliance		2. Contract a. Name Mission Support Contract			3. Program a. Name Mission Support Contract				4. Report Period a. From (2018/04/22)							
b. Location (Address and Zip Code) Richland, WA 99352		b. Number RL14728			b. Phase Operations				b. To (2019/05/26)							
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	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)			
a. WORK BREAKDOWN STRUCTURE ELEMENT (Cont'd)																
3001.04.07 - Fleet Services	0	0	0	0	0	7,220	7,220	7,322	0	(102)	7,220	7,322	(102)			
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	14	14	31	0	(17)	680	680	649	0	32	728	699	29			
3001.04.10 - Technical Services	311	311	840	0	(529)	49,238	49,238	49,332	0	(94)	51,082	52,215	(1,133)			
3001.04.11 - Energy Management	235	235	133	0	103	11,607	11,607	11,494	0	112	12,176	12,065	111			
3001.04.12 - Hanford Historic Buildings Preservation	325	325	246	0	79	25,121	25,121	24,169	0	953	25,939	25,570	369			
3001.04.13 - Work Management	(1,942)	(1,942)	180	0	(2,122)	15,123	15,123	16,718	0	(1,595)	15,753	17,538	(1,785)			
3001.04.14 - Land and Facilities Management	909	909	570	0	339	47,720	47,720	45,322	0	2,398	49,355	48,408	947			
3001.04.15 - Mail & Courier	59	59	54	0	5	6,932	6,932	7,005	0	(73)	7,160	7,239	(79)			
3001.04.16 - Property Systems/Acquisitions	894	894	855	0	39	60,097	60,097	59,209	0	888	62,758	62,639	119			
3001.04.17 - General Supplies Inventory	59	59	(236)	0	296	1,825	1,825	1,081	0	744	2,029	1,502	527			
3001.04.18 - Maintenance Management Program Implementation	89	89	103	0	(14)	10,147	10,147	10,375	0	(228)	10,452	10,689	(237)			
3001.06.01 - Business Operations	494	494	1,012	0	(518)	55,079	55,079	16,728	0	38,351	60,241	21,404	38,837			
3001.06.02 - Human Resources	365	365	359	0	6	26,395	26,395	24,246	0	2,150	27,683	25,664	2,019			
3001.06.03 - Safety, Health & Quality	1,483	1,483	1,823	0	(340)	176,842	176,842	175,350	0	1,492	183,367	182,052	1,315			
3001.06.04 - Miscellaneous Support	424	424	417	0	7	52,707	52,707	53,035	0	(328)	54,180	54,590	(410)			
3001.06.05 - Presidents Office (G&A nonPMB)	0	0	0	0	0	16	16	16	0	0	16	16	0			
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	336	336	225	0	110	59,268	59,268	58,507	0	760	60,421	59,986	435			
3001.08.01 - Water System	1,300	702	854	(598)	(151)	43,061	40,807	27,563	(2,254)	13,243	43,303	34,114	9,189			
3001.08.02 - Sewer System	0	103	442	103	(339)	17,321	17,017	19,916	(305)	(2,899)	17,321	20,557	(3,235)			
3001.08.03 - Electrical System	651	698	786	47	(88)	23,251	21,374	21,618	(1,878)	(245)	23,251	26,068	(2,817)			
3001.08.04 - Roads and Grounds	7	5	9	(2)	(4)	9,153	9,148	8,548	(5)	600	10,015	9,409	606			
3001.08.05 - Facility System	635	466	813	(169)	(347)	11,528	11,386	11,800	(142)	(414)	12,426	13,696	(1,270)			
3001.08.06 - Reliability Project Studies & Estimates	773	779	952	6	(173)	21,423	21,429	22,485	6	(1,057)	24,639	26,099	(1,460)			
3001.08.07 - Reliability Project Spare Parts Inventory	133	133	186	0	(54)	4,194	4,194	3,675	0	519	4,774	4,370	404			
3001.08.08 - Network & Telecommunications System	401	513	385	112	128	26,899	26,892	29,004	(7)	(2,112)	28,243	31,768	(3,525)			
3001.08.09 - Capital Equipment Not Related to Construction	1,310	0	0	(1,310)	0	13,318	12,008	10,835	(1,310)	1,173	13,318	10,835	2,483			
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	1,434	5,756	(4,322)			
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)																
	33,926	32,115	33,853	(1,811)	(1,738)	2,580,721	2,574,827	2,505,262	(5,895)	69,564	2,755,229	2,691,240	63,990			



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 (2018/04/22)								
b. Location (Address and Zip Code) Richland, WA 99352		b. Number RL14728			b. Phase Operations				b. To (2019/05/26)								
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	1,695	2,327	1,766	632	561	142,544	142,544	142,604	0	(60)	148,532	148,910	(378)				
3001.02.04 - Radiological Site Services	886	920	920	35	1	63,955	63,955	63,193	0	762	67,116	66,836	280				
3001.02.05 - WSCF Analytical Services	(0)	(1,023)	0	(1,023)	(1,023)	53,176	53,176	53,176	0	0	53,176	53,176	(0)				
3001.03.02 - Information Systems	273	305	269	32	36	8,549	8,549	8,456	0	93	9,526	9,423	103				
3001.03.04 - Content & Records Management	80	79	84	(1)	(4)	2,616	2,616	2,620	0	(5)	2,901	2,913	(13)				
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	5,725	5,620	5,334	(105)	286	96,053	96,053	94,507	0	1,546	105,474	105,205	270				
3001.04.05 - Facility Services	1,107	1,501	1,015	393	486	81,618	81,618	81,310	0	308	85,512	85,080	431				
3001.04.06 - Transportation	638	1,003	555	364	448	51,125	51,125	50,375	0	750	53,325	53,053	273				
3001.04.07 - Fleet Services	1,731	2,456	1,764	725	691	143,434	143,434	143,423	0	11	149,424	149,993	(570)				
3001.04.08 - Crane and Rigging	1,339	1,604	1,439	266	165	120,342	120,342	119,538	0	804	124,822	124,093	729				
3001.04.10 - Technical Services	307	567	326	260	242	8,443	8,443	8,307	0	136	9,533	9,533	(0)				
3001.04.13 - Work Management	61	109	58	48	51	4,159	4,159	4,120	0	39	4,368	4,339	29				
3001.04.14 - Land and Facilities Management	955	1,179	771	224	409	70,410	70,410	69,894	0	515	73,892	73,948	(55)				
3001.04.15 - Mail & Courier	23	23	23	0	1	1,656	1,656	1,649	0	7	1,739	1,728	11				
3001.06.01 - Business Operations	934	1,075	1,215	141	(140)	109,593	109,593	109,337	0	256	113,850	113,597	253				
3001.06.02 - Human Resources	405	586	438	181	148	30,631	30,631	30,473	0	159	32,117	31,968	149				
3001.06.03 - Safety, Health & Quality	225	238	105	13	133	15,251	15,251	14,585	0	665	16,027	15,089	939				
3001.06.04 - Miscellaneous Support	259	392	347	133	45	17,456	17,456	18,225	0	(768)	18,352	19,811	(1,459)				
3001.06.05 - Presidents Office (G&A nonPMB)	328	291	330	(37)	(40)	27,031	27,031	26,741	0	290	28,267	28,113	154				
3001.06.06 - Strategy	27	25	26	(2)	(1)	3,009	3,009	2,950	0	59	3,101	3,035	66				
3001.A1.01 - Transfer - CHPRC	6,914	6,914	6,580	0	335	688,365	688,365	690,295	0	(1,930)	715,156	717,228	(2,071)				
3001.A1.02 - Transfer - WRPS	5,801	5,801	4,851	0	950	318,684	318,684	317,470	0	1,214	338,054	336,914	1,140				
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	33	33	71	0	(37)	3,394	3,394	3,394	0	(0)	3,481	3,483	(2)				
3001.A2.02 - Non Transfer - AMH	(1)	(1)	0	0	(1)	954	954	954	0	0	954	954	0				
3001.A2.03 - Non Transfer - ATL	(1)	(1)	0	0	(1)	702	702	702	0	0	702	702	0				
3001.A2.04 - Non-Transfer - WCH	(27)	(27)	0	0	(27)	41,022	41,022	41,726	0	(704)	41,022	41,726	(704)				
3001.A2.05 - Non-Transfers - HPM	54	54	51	0	3	3,096	3,096	3,259	0	(163)	3,380	3,614	(234)				
3001.A2.06 - Non-Transfers - BNI Corp	0	0	0	0	0	1	1	1	0	0	1	1	0				
3001.A2.07 - Non-Transfers-WAI	50	50	30	0	20	1,206	1,206	1,140	0	65	1,344	1,247	97				
3001.A4.01 - Request for Services	1,383	1,383	515	0	868	110,353	110,353	113,998	0	(3,645)	112,938	116,653	(3,715)				
3001.A4.02 - HAMMER RFSS	426	426	239	0	186	30,472	30,472	34,005	0	(3,533)	31,994	34,714	(2,720)				
3001.A4.03 - National Guard RFSSs	(0)	(0)	0	0	(0)	1,551	1,551	1,550	0	1	1,551	1,550	1				
3001.A4.04 - PNNL RFSSs	(100)	(100)	36	0	(135)	10,727	10,727	12,391	0	(1,664)	10,884	12,561	(1,678)				
3001.A5.01 - RLPD	68	68	(61)	0	129	6,496	6,496	6,446	0	50	6,641	6,548	93				
3001.A5.02 - ORP PD	108	108	91	0	16	8,303	8,303	8,308	0	(5)	8,569	8,599	(30)				

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 (2018/04/22)								
b. Location (Address and Zip Code)		b. Number			b. Phase			b. To (2019/05/26)								
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	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	1,463	1,463	611	0	853	15,864	15,864	14,615	0	1,249	17,990	16,783	1,207			
3001.A5.04 - ORP Project Funded	249	249	88	0	161	7,935	7,935	7,430	0	505	8,396	7,892	505			
3001.A6.01 - Portfolio PMTOs	118	118	96	0	22	1,158	1,158	1,093	0	65	1,158	1,150	8			
3001.A7.01 - G&A Liquidations	(2,520)	(3,210)	(1,995)	(689)	(1,215)	(213,123)	(213,123)	(211,852)	0	(1,272)	(222,958)	(221,999)	(959)			
3001.A7.02 - DLA Liquidations	(2,064)	(2,860)	(2,031)	(796)	(829)	(144,051)	(144,051)	(142,335)	0	(1,716)	(151,408)	(150,081)	(1,326)			
3001.A7.03 - Variable Pools Revenue	(12,407)	(13,203)	(8,711)	(796)	(4,492)	(699,027)	(699,027)	(697,401)	0	(1,626)	(731,842)	(732,372)	531			
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	(1)	(1)	0	0	(1)	0	0	0	0	0	0	0	0			
3001.B1.03 - Assessment for Other Provided Services	(10)	(10)	0	0	(10)	1	1	0	0	1	1	0	1			
3001.B1.04 - Assessment for PRC Services to MSC	(6)	(6)	0	0	(6)	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											10,903	10,903	0			
e2. SUBTOTAL (Non - Performance Measurement Baseline)	16,527	16,527	17,244	(2)	(717)	1,249,415	1,249,415	1,256,955	0	(7,540)	1,314,252	1,322,896	(8,645)			
f. MANAGEMENT RESERVE											79	79	0			
g. TOTAL	50,453	48,642	51,097	(1,813.0)	(2,455)	3,830,136	3,824,242	3,762,218	(5,895)	62,024	4,069,560	4,014,215	55,345			
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			a. Name				a. Name				a. From (2019/04/22)							
Mission Support Alliance			Mission Support Contract				Mission Support Contract											
b. Location (Address and Zip Code)			b. Number				b. Phase				b. To (2019/05/26)							
Richland, WA 99352			RL14728				Operations											
c. TYPE			d. Share Ratio				c. EVMS ACCEPTANCE											
CPAF							No <input type="checkbox"/> Yes <input checked="" type="checkbox"/>											
5. CONTRACT DATA																		
a. ORIGINAL NEGOTIATED COST				b. NEGOTIATED CONTRACT CHANGES		c. CURRENT NEGOTIATED COST (a+b)		d. ESTIMATED COST OF UNAUTHORIZED UNPRICED WORK			e. CONTRACT BUDGET BASE (C+D)		f. TOTAL ALLOCATED BUDGET		g. DIFFERENCE (E - F)			
\$2,854,966				\$1,214,594		\$4,069,560		\$0			\$4,069,560		\$4,069,560		\$0			
h. CONTRACT START DATE				i. CONTRACT DEFINITIZATION DATE				j. PLANNED COMPLETION DATE			k. CONTRACT COMPLETION DATE		l. ESTIMATED COMPLETION DATE					
2009/05/24				2009/05/24				2019/11/25			2019/11/25		2019/11/25					
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									
			JUN FY19 (4)	JUL FY19 (5)	AUG FY19 (6)	SEP FY19 (7)	OCT FY20 (8)	NOV FY20 (9)	DEC FY20 (10)	(11)	(12)	(13)	(14)					
a. PERFORMANCE MEASUREMENT BASELINE (Beginning of Period)	2,546,795	43,952	0	0	0	0	0	0	0	0	0	0	0	0	0	0	164,482	2,755,229
b. BASELINE CHANGES AUTHORIZED DURING REPORT PERIOD	33,926	(43,952)	24,208	22,218	28,874	33,702	171	1,321	2	0	0	0	0	0	0	0	(100,470)	(0)
c. PERFORMANCE MEASUREMENT BASELINE (End of Period)	2,580,722		24,208	22,218	28,874	33,702	171	1,321	2	0	0	0	0	0	0	0	64,012	2,755,229



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 (2019/04/22)									
b. Location (Address and Zip Code) Richland, WA 99352		b. Number RL14728		b. Phase Operations			b. To (2019/05/26)									
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)												UNDISTRIBUTED BUDGET (15)	TOTAL BUDGET (16)
			Six Month Forecast By Month						Remaining Forecast By Month							
			JUN FY19 (4)	JUL FY19 (5)	AUG FY19 (6)	SEP FY19 (7)	OCT FY20 (8)	NOV FY20 (9)	DEC FY20 (10)	(11)	(12)	(13)	(14)			
a2. NON - PERFORMANCE MEASUREMENT BASELINE (Beginning of Period)	1,232,888	14,691	0	0	0	0	0	0	0	0					66,673	1,314,252
b2. BASELINE CHANGES AUTHORIZED DURING REPORT PERIOD	16,527	(14,691)	11,722	11,218	15,035	15,959	0	0	0	0	0	0	0	0	(55,769)	0
c2. NON - PERFORMANCE MEASUREMENT BASELINE (End of Period)	1,249,415		11,722	11,218	15,035	15,959	0	0	0						10,903	1,314,252
7. MANAGEMENT RESERVE																79
8. TOTAL	3,830,137	0	35,930	33,435	43,909	49,661	171	1,321	2	0	0	0	0	74,916	4,069,560	



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 (2019/04/22
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728	b. Phase - Operations	b. To (2019/05/26)
	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 – Favorable CM CV is because of a materials underrun due to intrusion detection upgrades and computer aided dispatch (CAD) work, budgeted in May but currently forecast to be completed later this year. Another underrun was due to May separation costs not occurring because of the contract extension. These underruns partially offset an overrun in labor adder cost pass backs.

3001.01.02 Fire and Emergency – Unfavorable CM CV is primarily due to seasonal fleet parts and maintenance for accelerated acquisition of Hanford Fire Department materials and supplies, higher than planned occupancy costs, and labor adder cost pass backs.

3001.01.04 HAMMER – Favorable CM CV is primarily due to project slippages because of higher priorities and backlog in the MSA Engineering, Projects and Procurement groups. Projects expected for completion in May included the Field Exercise Parking Lot, A/V and IT Upgrades, replace HVAC units in three mobile offices/classrooms, and Maintenance Storage building modifications. A modular classroom, planned to be complete in June, is behind schedule and now forecast for September.

3001.01.05 Emergency Services Management – Favorable CM CV is primarily due to a May budget point adjustment resulting from implementation of contract Mod 793 via BCR VMSA-19-029, which added budget for MSC contract extension through September 30, 2019.

3001.02.03 Public Safety & Resource Protection – Unfavorable CM CV is primarily due to contract Mod 793 that provided MSA with an extension through September 30, 2019. This modification resulted in a May point adjustment to fully align baseline accounts with the IIP.

3001.04.03 Electrical Systems – Favorable CM CV is primarily due to solar light purchases planned for April that slipped to June.



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 (2019/04/22
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2019/05/26)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NO X YES	
5. Evaluation				
<p>3001.04.04 Water/Sewer Systems – Favorable CM CV is primarily due to reduced engineering support and delays in material procurements that delayed the planned start of corrective maintenance activities.</p> <p>3001.04.10 Technical Services – Unfavorable CM CV is primarily due to May costs, previously planned for HoloLens procurement and development.</p> <p>3001.04.13 Work Management – Unfavorable CM CV is primarily due to contract Mod 793 that provided MSA with an extension through September 30, 2019. This modification resulted in a May point adjustment to fully align baseline accounts with the IIP.</p> <p>3001.04.14 Land and Facilities Management – Favorable CM CV is primarily due to project delays on the TRIDEC Land Transfer Project and the Long Term Stewardship Program.</p> <p>3001.04.17 General Supplies Inventory – Favorable CM CV is primarily due to contract Mods 760 (January) and 793 (May) that aligned the baseline and period of performance with the IIP through November 25, 2019. Fluctuations in this inventory account will recover by year-end.</p> <p>3001.06.01 Business Operations – Unfavorable CM CV is primarily due to contract Mod 793 that provided MSA with an extension through September 30, 2019. This modification resulted in a May point adjustment to fully align baseline accounts with the IIP.</p> <p>3001.06.03 Safety, Health and Quality – Unfavorable CM CV is primarily due to contract Mod 793 that provided MSA with an extension through September 30, 2019. This modification resulted in a May point adjustment to fully align baseline accounts with the IIP.</p> <p>3001.08.02 Sewer System – Unfavorable CM CV is due to Projects L-854 “200E Sewer Consolidations” and L-853 “200E Sewer Flow Equalization Facility” because realized costs from subcontractor change orders and actuals from MSA labor exceeded performance.</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 (2019/04/22
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2019/05/26)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NO X YES	
5. Evaluation				

3001.08.05 Facility System – Unfavorable CM CV is primarily due to the early completion of 100% design review on Project L-888 “400 Area Fire Station”.

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.

3001.A1 – 3001.B1 Non-PMB – Favorable CM CV is primarily due to a May point adjustment for BCR VMSA-19-029 Rev 1 which added budget for the MSC contract extension through September 30, 2019.

Impacts – Current Month Cost Variance:

There are no significant impacts associated with this favorable CM CV.

Corrective Action – Current Month Schedule Variance: None.

Cumulative Cost Variance:

3001.08.01 Water System – Unfavorable CM SV is primarily due to the following conditions:

- Project L-897 “Central Plateau Water Treatment Facility”. The unfavorable CM SV is because the Architectural/Engineering (A/E) vendor needed to resubmit certain 90% design submittals that delayed the development of the Final Design.
- Project L-895 “Fire Protection Infrastructure for PRW”. The unfavorable CM SV is due to claiming less performance on Construction Support. A June adjustment corrects this issue. The remainder is due to behind-schedule status on 200E fieldwork mobilization and initial instrumentation/water local area network (WLAN) activities. Mobilization in 200E will complete in June and correct this portion of the variance as well.
- Project L-781 “181D Vertical Turbine Pumps”. The unfavorable CM SV is due to delay of the 30% design submittal until resolution of the export water hydraulic analysis pump design issue.
- Project L-826 “181B Vertical Turbine Pumps”. The unfavorable CM SV is due to delay of the 30% design submittal until resolution of the export water hydraulic analysis pump design issue.



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 (2019/04/22
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2019/05/26)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NO X YES	
5. Evaluation				

3001.08.02 Sewer System – Favorable CM SV is due to completion of L-854 “200E Sewer Consolidations” construction activities planned in a prior period.

3001.08.05 Facility System – Unfavorable CM SV on Project L-796 “Key Facilities Roof Replacements” is primarily due to completion of construction in prior months so reduced performance taken this month on the planned activities.

3001.08.08 Network & Telecommunications Systems – Favorable CM SV is primarily due to Project L-905 “FARS & RFARS Replacement & Upgrade” for a baseline change request point-adjustment implemented in May.

3001.08.09 Capital Equipment Not Related to Construction – Unfavorable CM SV is primarily due to the Hanford Fire Department planned receipt in May of a large procurement that will occur in March 2020 due to contract completion.

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:

3001.06.01 Business Integration & Operations - 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:

- Project L-894 “Raw Water Cross Connect Isolation 200 E/W”. The Engineering Study cost less than planned, the conceptual design utilized fewer resources than originally planned, the Definitive Design experienced cost underruns and the construction contract award was less than the planned value.

Completed projects with CTD CV include the following:

- Project L-419 “Line Renovation/Replacement from 2901U to 200E” had a fixed price contract, which 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.



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 (2019/04/22
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728	b. Phase - Operations	b. To (2019/05/26)
	c. Type CPAF	d. Share Ratio NO X YES	
5. Evaluation			

- 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" also contributed to this favorable variance.

3001.A1 – 3001.B1 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.

3001.A1 – 3001.B1 Non-PMB – Unfavorable CTD CV is primarily due to the following:

- 3001.A4 Request For Services (Non-PMB) - The amount of services requested in FY 2017 were higher than the baseline amount. The MSA letter MSA-1804933, *Request for Not to Exceed*, dated November 27, 2018 did not address the FY 2017 RFS variance. MSA submitted a proposal to address this variance on February 21, 2019.

Impacts - Cumulative Cost Variance: The overall favorable CV is primarily due to affiliate credit for IT scope and training on overtime. MSA does not anticipate resolution of the affiliate credit on IT scope during FY 2019.

Corrective Action - Cumulative Cost Variance: MSA submitted a proposal to address the RFS variance on February 21, 2019.

Cumulative Schedule Variance:

3001.08.01 Water System – Unfavorable CTD SV is primarily due to the following:

Project L-894 "Raw Water Cross Connect Isolation 200E/W Project" has an unfavorable CTD SV due to contractor downtime because of inclement weather.

- During preparation of a Design Change Notice and Facility Management Plan, the project placed 283W fieldwork on hold.
- Project L-826 "181B Vertical Turbine Pumps" has an unfavorable CTD SV due to a delay in awarding the A/E design contract. The Project identified an inefficient hydraulic pump design during the hydraulic analysis review, resulting in a delayed submittal of the 30% design.
- Project L-781 "181D Vertical Turbine Pumps" has an unfavorable CTD SV due to a delay in awarding the A/E design contract. The Project identified an inefficient hydraulic pump design during the hydraulic analysis review, resulting in a delayed submittal of the 30% design.



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 (2019/04/22
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2019/05/26)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NO X YES	
5. Evaluation				
<ul style="list-style-type: none"> Project L-357 “Repl 12-in Potable Water to 222-S Lab” has an unfavorable CTD SV because of delays in the final installation of reduced pressure backflow assemblies for redesign of enclosures to accommodate changes in end-user requirements. Project L-849 “Replace 200E 1.1M-gal PW Tank” has an unfavorable CTD SV due to additional analysis of Fire Water demand on the Central Plateau and resequencing the 60% design resubmittal to accommodate Project L-850 design. <p>3001.08.02 Sewer System – Unfavorable CTD SV on project L-854, “200E Sewer Consolidations” is due to adjusting the pipe and structure installation for Phases 5 and 6 to accommodate the operation schedule of other Hanford contractors.</p> <p>3001.08.03 Electrical System – Unfavorable CTD SV is due to the following projects:</p> <ul style="list-style-type: none"> Project H-006 “10 CFR 851”. Unfavorable CTD SV is because of scheduling delays on planned outages that prevented commencing field work activities. Project L-801, “Upgrade SCADA”. Unfavorable CTD SV is because MSA Contracts directed creation of a new Request for Proposal (RFP) Statement of Work (SOW) to be re-competed from the end of the original subcontract (definitive design through installation and project closeout). The former contract modification and the successive decision process to re-compete took six months to develop which prevented field activities from starting. 3001.08.05 Facility System – Unfavorable CTD SV is because on Project L-906 “HFD Station 92 Expansion” inclement weather delayed issuance of the design services Request for Proposal. 3001.08.09 Capital Equipment Not Related to Construction – Unfavorable CM SV is primarily due to the Hanford Fire Department planned receipt in May of a large procurement that will occur in March 2020 due to contract completion. 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 (2019/04/22
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728	b. Phase - Operations	b. To (2019/05/26)
	c. Type CPAF	d. Share Ratio NO X YES	
5. Evaluation			

Variance at Complete:

The current favorable VAC in the Performance Measurement Baseline (PMB) is primarily due to the Affiliate & Overtime credits. The Non-PMB unfavorable VAC is primarily due to Request for Services (RFS) customers requesting support services above the amounts estimated in the baseline for FY 2017.

Impacts – At Complete Variance: None.

Corrective Action - At Complete Variance:

MSA submitted a contract proposal to address the cost variances for the FY 2017 RFS accounts on February 21, 2019. MSA does not anticipate resolution of the affiliate credit on IT scope during FY 2019. MSA updated the PMB Undistributed Budget (UB) Estimate at Completion (EAC) to be lower than the Budget at Completion (BAC) due to timing differences. MSA updated the EAC for the Reliability Projects (3001.08) during May to reflect the contract extension primarily through September 2019, with some projects forecasted through November 2019.

Since the EAC in the PMB for Reliability Projects already reflects these increases, MSA reduced the UB EAC. Baseline Change requests are in process to reduce the UB BAC to align the Reliability Project budget and forecast and realign with the UB EAC. Several key examples include L-895 - Fire Water Protection Infrastructure for PRW, L-789 - Priority T&D Sys Wood PP Test & Replace L-919 - Emergency Radio Upgrade.

Negotiated Contract Changes:

The Negotiated Contract Cost for May 2019 remained the same. MSA is currently working Mod 794 for 10CFR851 as a continuation of direction to Contract Mod 760, as undistributed budget.

Changes in Estimated Cost of Authorized Unpriced Work:

The Authorized Unpriced Work (AUW) for the reporting period remained at \$0.0M.

Changes in Estimated Price:

The Estimated Price for May 2019 had an increase of \$18.1M from \$4,219.1M to \$4,237.2M. The Estimated Price includes the Most Likely Management Estimate at Completion (MEAC) of \$4,014.2M and fee of \$223.0M.



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 (2019/04/22)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728	b. Phase - Operations	b. To (2019/05/26)
	c. Type CPAF	d. Share Ratio NO X YES	
5. Evaluation			

Differences between Current Month and Prior Month EAC's Format 1, Column (13) (e):

During this reporting period, the Estimate at Completion (EAC) increased by \$18.0M from \$3,996.2M to \$4,014.2M: \$19.5M in the Performance Measurement Baseline (PMB), and a decrease by (\$1.5M) in the non-PMB. The increase in the PMB EAC during May 2019 is primarily due to timing delays for non-discrete work scope that was not included in the EAC last month, and now are included because of the contract extension.

Changes in Undistributed Budget:

The Undistributed Budget for this reporting period decreased \$156.3M from \$231.2M to \$74.9M due to BCR VMSA-19-029, Rev 1 and 2 - Option to Extend Services to November 25, 2019 on unilateral Contract Mod 793.

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 remained the same at \$2,755.2M.

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

Contract Modification:

- VMSA-19-029 Rev 1 – Move Mod 793 Out of Undistributed Budget and Move to the Baseline for MSA Contract Extension through November 25, 2019. This BCR added budget through September 30, 2019.

Reliability Projects:

- VMSA-19-029 Rev 2 – Move Reliability Project Budget from Mod 793 SWS-UB to Reliability Project Level of Effort WBSs for MSA Contract Extension through November 25, 2019. This BCR added budget through September 30, 2019.



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 (2019/04/22)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728	b. Phase - Operations	b. To (2019/05/26)
	c. Type CPAF	d. Share Ratio	
5. Evaluation			

- VRL0201RP-19-008 Rev 2 – Increase Budget and Scope for L-796 Adding Buildings 2719WB, MO276 & 6266; Move Budget from Reliability Project Out-Year Planning & Modify Schedule
- VRL0201RP-19-011 Rev 1 – Add Remainder of Budget from L-859 Construction & Closeout from Reliability Project Out-Year Planning Package Due to Contract Extension
- VRL0201RP-19-013 – Rename Two Level 5 L-850 WBSs and Move Budget from PP-L-850 and Reliability Project Out-Year Planning to L-850 for Construction
- VRL0201RP-19-015 Rev 1 – Move Budget from Reliability Project Out-Year Planning Package to L-357 and Extend Project Schedule to Complete Project within Contract Extension
- VRL0201RP-19-021 – Create Three Level 5 WBSs for L-905; Re-Plan Design; Add Budget for Construction (MSA and Fixed Price) and Closeout; and Move Budget from Reliability Project Out-Year Planning Package
- VRL0201RP-19-022 – Move Three Reliability Project Planning Packages from May to September and One from May to November Due to the MSA Contract Extension

Differences in the Non - Performance Measurement Baseline:

This reporting period the Non-PMB remained the same at \$1314.3M. The increase was due to the following BCRs:

The following BCRs adjusted time phasing, but did not change the non-PMB:

VMSA-19-029 Rev 1 – Move Mod 793 Out of Undistributed Budget and Move to the Baseline for MSA Contract Extension through November 25, 2019. This BCR added budget through September 30, 2019.

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 2019 to Date – May 2019					
Account Description	BCWS	BCWP	ACWP	CV	Liquidation
Direct Labor Adder					
Software Engineer Services DLA (3001.03.02.03)	\$2,007.4	\$2,007.4	\$1,775.8	\$231.6	(\$1,752.6)
Content & Records Management DLA (3001.03.01.04)	\$387.9	\$387.9	\$548.3	(\$160.4)	(\$526.9)
Transportation DLA (3001.04.06.02)	\$14,173.5	\$14,173.5	\$3,677.0	\$10,496.5	(\$4,262.1)
Maintenance DLA (3001.04.05.02)	\$14,921.1	\$14,921.1	\$6,634.1	\$8,287.0	(\$6,391.4)
Janitorial Services DLA (3001.04.05.03)	\$1,148.1	\$1,148.1	\$867.0	\$281.1	(\$823.0)
Total Direct Labor Adder	\$32,638.0	\$32,638.0	\$13,502.2	\$19,135.8	(\$13,756.0)

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 2019 to Date – May 2019					
Account Description	BCWS	BCWP	ACWP	CV	Liquidation
Usage Based Services					
Training (3001.01.04.02)	\$25,026.1	\$25,026.1	\$10,993.3	\$14,032.8	(\$11,823.0)
HRIP (3001.02.04.02)	(\$857.8)	(\$857.8)	\$2,725.0	(\$3,582.8)	(\$3,114.7)
Dosimetry (3001.02.04.03)	\$846.3	\$846.3	\$3,395.7	(\$2,549.4)	(\$4,065.6)
Information Technology Services (3001.03.07.01)	\$24,550.0	\$24,550.0	\$21,433.5	\$3,116.5	(\$21,128.4)
Work Management (3001.04.13.01)	\$1,483.6	\$1,483.6	\$352.9	\$1,130.7	(\$341.0)
Courier Services (3001.04.15.02)	\$137.2	\$137.2	\$145.4	(\$8.2)	(\$146.0)
Occupancy (3001.04.14.06)	\$10,868.6	\$10,868.6	\$6,161.1	\$4,707.5	(\$6,735.2)
Crane & Rigging (3001.04.08.02)	\$14,223.2	\$14,223.2	\$7,931.1	\$6,292.1	(\$7,824.9)
Guzzler Trucks (3001.04.06.03)	(\$167.4)	(\$167.4)	\$-	(\$167.4)	\$-
Fleet (3001.04.07.02)	\$29,551.5	\$29,551.5	\$11,246.8	\$18,304.7	(\$11,204.1)
Total UBS	\$105,661.3	\$105,661.3	\$64,384.8	\$41,276.5	(\$66,382.9)
Total DLA / UBS	\$138,299.3	\$138,299.3	\$77,887.0	\$60,412.3	(\$80,138.9)

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 \$60.4M – May’s favorable cost variance is a result of a BCWS point adjustments in the prior months involving the FY18/FY19 Pension Proposal Contract Mod and the Contract Mod 760 which incorporated the FY17-FY19 Cost Variance and Request for Equitable Adjustment Proposal. These multi-year impacts, now reflected in the FY19 FYTD BCWS, have resulted in the current substantial FY19 positive variance. The largest impacts are seen in Fleet Services, Training, Crane & Rigging, and Transportation.



8.0 RELIABILITY PROJECT STATUS

Activity in May was centered on continuing progress on projects carried over from FY 2018. (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 Lifecycle (thru September 2019)				Completion Dates			VAC Cost	
	BCWS	BCWP	ACWP	SV	CV	SPI	CPI	BAC	EAC	VAC	% Complete	Baseline Complete Date	Forecast Date	Schedule at Complete		
L-850, Replace 200W 1.1M-gal PW Tank	828.6	807.7	827.7	(20.9)	(20.0)	0.97	0.98	899.8	993.8	(94.0)	89.8%	11/21/19	11/21/19	G	G	
L-849, Replace 200E 1.1M-gal PW Tank	767.3	491.8	554.8	(275.4)	(63.0)	0.64	0.89	767.3	736.2	31.1	64.1%	11/05/18	10/29/19	R	G	
L-894, Raw Water Cross Connection Isolation 200E/W	8,012.4	7,482.3	6,047.0	(530.1)	1,435.3	0.93	1.24	8,012.4	6,210.6	1,801.8	93.4%	5/06/19	9/05/19	R	G	
L-895, Fire Protection Infrastructure for Plateau Raw Water	2,837.0	2,656.7	3,208.7	(180.2)	(552.0)	0.94	0.83	2,837.0	7,269.2	(4,432.3)	93.6%	5/23/19	7/17/19	R	R	
L-357, Replace 12" Potable Water Line to 222-S Lab	1,516.7	1,235.7	1,169.8	(281.1)	65.9	0.81	1.06	1,654.4	1,552.8	101.5	74.7%	7/15/19	8/05/19	Y	G	
L-781, 181D Vertical Turbine Pumps	605.7	259.3	154.6	(346.4)	104.7	0.43	1.68	605.7	316.5	289.2	42.8%	5/23/19	10/17/19	R	G	
L-897, Central Plateau Water Treatment Facility	1,901.3	1,703.5	1,656.3	(197.8)	47.2	0.90	1.03	1,901.3	2,248.8	(347.5)	89.6%	5/23/19	10/30/19	R	R	
L-826, 181B Vertical Turbine Pumps	605.7	183.6	150.6	(422.2)	33.0	0.30	1.22	605.7	294.0	311.7	30.3%	5/23/19	10/17/19	R	G	
L-853, 200E Sewer Flow Equalization Facility	6,054.1	6,000.6	6,145.3	(53.5)	(144.8)	0.99	0.98	6,054.2	6,330.1	(275.9)	99.1%	1/28/19	7/29/19	R	Y	
L-854, 200E Sewer Consolidations	5,960.6	5,709.5	5,269.7	(251.1)	439.8	0.96	1.08	5,960.7	5,726.1	234.6	95.8%	4/16/19	7/24/19	R	G	
L-789, Prioritize T&D Sys Wood PP Test & Replace	2,505.6	2,444.5	2,178.4	(61.1)	266.2	0.98	1.12	2,505.6	3,319.5	(813.9)	97.6%	5/23/19	7/24/19	R	R	
L-612, 230kV Transmission System Reconditioning and Sustainability Repairs	1,211.4	1,211.4	1,060.3	0.0	151.1	1.00	1.14	1,211.4	1,123.4	88.0	100.0%	5/23/19	5/19/19	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 Lifecycle (thru September 2019)				Completion Dates			VAC Cost
	BCWS	BCWP	ACWP	SV	CV	SPI	CPI	BAC	EAC	VAC	% Complete	Baseline Complete Date	Forecast Date	Schedule at Complete	
L-801, Upgrade SCADA	726.4	73.1	360.0	(653.3)	(286.9)	0.10	0.20	726.4	930.7	(204.3)	10.1%	12/20/18	10/10/19	R	Y
L-791, RFL Transfer Trip Upgrades	943.6	888.7	619.7	(54.9)	269.0	0.94	1.43	943.6	776.9	166.6	94.2%	5/23/19	7/25/19	R	G
L-720, Outdoor Lighting Reconfiguration and Repl	203.0	133.2	188.2	(69.8)	(55.0)	0.66	0.71	203.0	218.1	(15.1)	65.6%	5/15/19	9/12/19	R	G
H-006, 10 CFR 851	2,176.0	1,137.4	1,063.7	(1,038.6)	73.7	0.52	1.07	2,176.0	2,465.3	(289.4)	52.3%	5/23/19	7/01/19	Y	Y
L-859, 1st St frm Canton Ave to IDF Entrance Rd	333.5	328.3	287.2	(5.2)	41.1	0.98	1.14	1,195.2	1,148.8	46.3	27.5%	9/23/19	9/24/19	Y	G
L-888, 400 Area Fire Station	936.6	916.8	974.1	(19.7)	(57.3)	0.98	0.94	936.6	1,134.5	(198.0)	97.9%	5/21/19	7/01/19	Y	Y
S-245, Live Fire Shoot House	3,653.2	3,653.0	3,841.4	(0.3)	(188.4)	1.00	0.95	3,653.2	3,844.1	(190.9)	99.99%	10/10/18	6/27/19	R	Y
L-796, Key Facilities Roof Replacements	1,177.4	1,181.7	1,255.8	4.3	(74.2)	1.00	0.94	2,075.3	2,033.2	42.1	56.94%	9/26/19	9/19/19	G	G
L-906, HFD Station 92 Expansion	149.5	23.3	77.5	(126.2)	(54.2)	0.16	0.30	149.5	369.7	(220.2)	15.6%	4/10/19	9/18/19	R	Y
H-001, BMS Upgrade	1,250.0	1,250.0	903.2	0.0	346.8	1.00	1.38	1,250.0	913.2	336.8	100.0%	5/23/19	5/23/19	G	G
L-905, FARS & RFARS Replacement & Upgrade	68.1	84.4	120.1	16.3	(35.7)	1.24	0.70	369.4	397.8	(28.4)	22.8%	11/25/19	11/25/19	G	G
L-921, Telecom Hut at Met Tower	27.5	3.9	12.3	(23.7)	(8.4)	0.14	0.31	27.5	104.2	(76.7)	14.1%	5/23/19	7/23/19	R	G
Total	44,450.9	39,860.4	38,126.3	(4,590.5)	1,734.1	0.90	1.05	46,720.9	50,457.7	(3,736.8)					

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

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):

- L-849, *Replace 200E 1.1M-gal PW Tank*: Unfavorable SV is due to additional analysis of fire water demands on the Central Plateau, which delayed design progress. The SV is unrecoverable during current baseline design activities. There is no current impact to the construction schedule because there is no funding for construction in FY 2019.
- L-894, *Raw Water Cross Connection Isolation 200E/W*: Unfavorable SV is primarily a result of contractor down-time in April due to differing site conditions at the 283W filter plant. Field work was on hold during preparation of a Design Change Notice and Facility Management Plan.
- L-895, *Fire Protection Infrastructure for Plateau Raw Water*: Unfavorable CM SV is due to claiming less performance on Construction Support. A June adjustment corrects this issue. The remainder is due to behind-schedule status on 200E fieldwork mobilization and initial instrumentation/water local area network (WLAN) activities. Mobilization in 200E will complete in June and correct this portion of the variance as well.
- L-357, *Replace 12" Potable Water Line to 222-S Lab*: Unfavorable SV is primarily because of delays in final installation of Reduced-Pressure Back-flow Prevention Assemblies due to redesign of enclosures to accommodate end-user requirement changes.
- L-781, *181-D Vertical Turbine Pumps*: Unfavorable SV is due to delays in awarding the Architecture/Engineering (A/E) design contract. The Baseline schedule delay is not recoverable within the MSA Contract period.
- L-897, *Central Plateau Water Treatment Facility*: Unfavorable SV is primarily because development delays of the A/E design contract and required resubmittals of certain 90% designs.
- L-826, *181-B Vertical Turbine Pumps*: Unfavorable SV is due to delays in awarding the A/E design contract. The Baseline schedule delay is not recoverable within the MSA Contract period.
- L-853, *200E Sewer Flow Equalization Facility*: Unfavorable SV is because work scheduled on Phase 6 was re-planned to accommodate construction activities



associated with areas managed by OHCs. Subcontract issues with construction of the main lift station overhead hoist have delayed certification.

- L-854, *200E Sewer Consolidations*: Unfavorable SV is because work scheduled on Phases 5 and 6 was re-planned to accommodate construction activities associated with areas managed by OHCs. The adjustment to the schedule has affected completion of subsequent activities.
- L-789, *Prioritize T&D Sys Wood PP Test & Replace*: Unfavorable SV is due to delay to the bid/evaluation/award of Task 4 Construction. The activity is a month behind schedule.
- L-801, *Upgrade SCADA*: Unfavorable SV is due to the current contract modification because Contracts directed creating a new RFP Statement of Work to be re-competed from the end of the original contract (definitive design through installation and project closeout). The former contract modification and the successive decision process to re-compete took six months to develop which prevented field activities from starting.
- L-791, *RFL Transfer Trip Upgrades*: Unfavorable SV is because of procurement relay delays and adverse weather conditions. Accelerating Phase 1 resulted in partial schedule recovery.
- L-720, *Outdoor Lighting Configuration and Replacement*: Unfavorable SV is because the 60% design package is behind schedule preventing the 100% design package to start. This delay is due to resources being diverted to support higher priority work.
- H-006, *10 CFR 851*: Unfavorable SV is because challenges relating to scheduling actual outages for the breaker maintenance outages are not occurring as planned.
- L-906, *HFD Station 92 Expansion*: Unfavorable SV is due to late issuance of the design services request for proposal, and February/March weather delays that impacted the bid/evaluate/award process.

CTD Cost Variances (CV):

- L-849, *Fire Protection Infrastructure for Plateau Raw Water*: Unfavorable CV is attributable to additional analysis of Fire Water Demands on the Central Plateau that delayed design progress. CV is unrecoverable during current baselined design activities.
- L-894, *Raw Water Cross Connection Isolation 200E/W*: Favorable CV is due to the Engineering Study report costing less than planned, the conceptual design utilizing



fewer resources than originally anticipated, a Definitive Design cost underrun, and the construction contract being awarded at lower than planned value.

- L-895, *Fire Protection Infrastructure for Plateau Raw Water*: Unfavorable CV is related to decisions regarding the number of pumps required. The work became more complex requiring more labor resources than planned due to the addition of upgraded instrumentation and more documents/rigor associated with construction and testing.
- L-357, *Replace 1" Potable Water Line to 222-S Lab*: Favorable CV is attributable to the subcontractor having Hanford site experience and utilizing their own heavy equipment to complete the construction activities.
- L-781, *181D Vertical Turbine Pumps*: Favorable CV is because the A/E contract submittal was less than planned. The A/E contractor is currently behind in finishing/submitting deliverables.
- L-853, *200E Sewer Flow Equalization Facility*: Unfavorable CV is attributable to unplanned complexity of construction activities, differing site conditions, subcontractor change orders, and unanticipated training and material costs.
- L-854, *200E Sewer Consolidations*: Favorable CV is because the fixed price subcontract was awarded for less than the planned value. The favorable CV is forecast to remain through the life of the project.
- L-789, *Prioritize T&D Sys Wood PP Test & Replace*: Favorable CV is because an accrual was not completed for subcontractor procurement activities. Appropriate cost adjustments will occur in June.
- L-612, *230kV Transmission System Reconditioning and Sustainability Repairs*: Favorable CV is due to costs being less than planned because the project is delayed until MSA obtains a definite scope of work for BPA requirements.
- L-801, *Upgrade SCADA*: Unfavorable CV is because of performance not taken on 60% design activities. A BCR is in process to align the MSA schedule activities with the subcontractor activity values.
- L-791, *RFL Transfer Trip Upgrades*: Favorable CV is because Phase 1 construction activities were less complex than planned.
- L-720, *Outdoor Lighting Reconfiguration and Repl*: Unfavorable CV is due to extended labor on the 60% Design.



- H-006, *10 CFR 851*: Favorable CV is due to performing activities more efficiently than planned.
- L-888, *400 Area Fire Station*: Unfavorable CV is because of performance not taken on 100% design activities. The project is aligning the MSA scope/schedule activities with the subcontractor activity values.
- S-245, *Live Fire Shoot House (LFSH)*: Unfavorable CV is because of costs from City of Richland to modify power to the LFSH site, additional change orders, training expenses, and additional value-added labor hours for project support that were not captured in the baseline.
- L-796, *Key Facilities Roof Replacements*: Unfavorable CV is because of subcontractor change orders and overtime labor to complete field activities.
- L-906, *HFD Station 92 Expansion*: Unfavorable CV is because of labor complexities required to complete current project activities.
- H-001, *BMS Upgrade*: Favorable CV is because of efficiencies in subcontract support, and less support required for business case and procurement study details. Existing subcontractor and labor resources have been leveraged to provide necessary support and input.



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

- L-894, *Raw Water Cross Connection Isolation 200E/W*: Favorable VAC is due to the firm fixed price construction contract awarded at less than the planned value, and A/E costs being less than planned.
- L-895, *Fire Protection Infrastructure for Plateau Raw Water*: Unfavorable VAC is because the project is currently baselined through May 2019; however, the EAC is through Nov 2019. A BCR will be implemented in Fiscal Month June to baseline the project through the Contract End Date of Nov 25, 2019.
- L-789, *Prioritize T&D Sys Wood PP Test & Replace*: Unfavorable VAC is because the project is currently baselined through May 2019; however, the EAC is through November 2019. A BCR will be implemented in Fiscal Month June to baseline the project through the Contract End Date of Nov 25, 2019.



9.0 BASELINE CHANGE REQUEST LOG (BCR)

Baseline Change Request Log for May 2019.

Eleven Baseline Change Requests (BCRs) were processed in May.

One BCR Authorized by a Contract Modification:

- VMSA-19-029 Rev 1 – Move Mod 793 Out of Undistributed Budget and Move to the Baseline for MSA Contract Extension through November 25, 2019

Seven BCRs related to Reliability Projects:

- VMSA-19-029 Rev 2 – Move Reliability Project Budget from Mod 793 SWS-UB to Reliability Project Level of Effort WBSs for MSA Contract Extension through November 25, 2019
- VRL0201RP-19-008 Rev 2 – Increase Budget and Scope for L-796 Adding Buildings 2719WB, MO276 & 6266; Move Budget from Reliability Project Out-Year Planning & Modify Schedule
- VRL0201RP-19-011 Rev 1 – Add Remainder of Budget from L-859 Construction & Closeout from Reliability Project Out-Year Planning Package Due to Contract Extension
- VRL0201RP-19-013 – Rename Two Level 5 L-850 WBSs and Move Budget from PP-L-850 and Reliability Project Out-Year Planning to L-850 for Construction
- VRL0201RP-19-015 Rev 1 – Move Budget from Reliability Project Out-Year Planning Package to L-357 and Extend Project Schedule to Complete Project within Contract Extension
- VRL0201RP-19-021 – Create Three Level 5 WBSs for L-905; Re-Plan Design; Add Budget for Construction (MSA and Fixed Price) and Closeout; and Move Budget from Reliability Project Out-Year Planning Package
- VRL0201RP-19-022 – Move Three Reliability Project Planning Packages from May to September and One from May to November Due to the MSA Contract Extension

Three BCRs were Administrative in Nature:

- VMSA-19-004 Rev 7 – Administrative BCR – Create Lower Level Task Order (LLTO) WBSs for Cost Collection Established in the Month of May



- VMSA-19-017 Rev 7 – Correct Mod 760 Distribution to RL-ORP CAS and Min-Safety & Essential Services DDWS Accounts
- VSWS-19-008 – Create a Level 4 and Two Level 5 WBSs Due to Organizational Change of Prime Contracts & Program Controls and Create New Cost Centers and Move Budget

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	FY19 Budget	FY19 Management Reserve	Post Contract Budget	Post Contract Mgmt Reserve	Total Lifecycle	Cum Lifecycle Budget
Prior PMB Total	Apr 2019	1,230,506		1,230,506	1,230,506	495,434		1,524,723		2,755,229	2,755,229
VMSA-19-004 Rev 7						0		0		0	2,755,229
VMSA-19-029 Rev 1						(9,098)		(9,098)		(9,098)	2,746,130
VMSA-19-029 Rev 2						0		0		0	2,746,130
VRL0201RP-19-008 Rev 2						0		0		0	2,746,130
VRL0201RP-19-011 Rev 1						0		0		0	2,746,130
VRL0201RP-19-013						(33)		0		0	2,746,130
VRL0201RP-19-015 Rev 1						0		0		0	2,746,130
VRL0201RP-19-021						(272)		0		0	2,746,130
VRL0201RP-19-022						(1,188)		0		0	2,746,130
VSWs-19-008						0		0		0	2,746,130
Revised PMB Total	May 2019	1,230,506		1,230,506	1,230,506	484,842		1,515,624		2,746,130	
Prior Non-PMB Total	Apr 2019	604,007		604,007		255,331		710,246		1,314,252	1,314,252
VMSA-19-017 Rev 7						0		0		0	1,314,252
VMSA-19-029 Rev 1						9,098		9,098		9,098	1,323,351
Revised Non-PMB Total	May 2019	604,007		604,007		264,430		719,344		1,323,351	
Total Contract Performance Baseline	May 2019	1,834,513		1,834,513	1,834,513	749,272		2,234,968		4,069,481	
Management Reserve	Apr 2019		0	0			79		79	79	79
Revised Management Reserve	May 2019		0	0			79		79	79	
Total Contract Budget Base	May 2019			1,834,513				2,235,047		4,069,560	
Prior Fee Total	Apr 2019	109,961		109,961		26,673		113,005		222,965	222,965
VMSA-19-029 Rev 1						(3,667)		0		0	222,965
Revised Fee Total	May 2019	109,961		109,961		23,006		113,005		222,965	
Change Log Total	May 2019			1,944,473				2,348,052		4,292,525	



10.0 RISK MANAGEMENT

May risk management efforts, aiding in completing the overall MSA risk determination, included the following:

- The Risk Management Board was held to review and approve the proposed new and closed risks, and review the overall company risk posture associated with March and April data. The following items were approved:
 - Two new Mission Risk and associated Risk Handling Plans related to the MSA Public Works (PW) organization.
 - Two significant Mission Risk re-characterizations related to PW.
 - 17 new Reliability Project risks: 15 for Project L-839, *12" Potable Water Loop-Line to WTP (DFLAW Priority)*, and two for Project L-791, *RFL Transfer Trip Upgrades*.
 - Seven Project Risks were significantly re-characterized: one each for projects L-357, *Replace 12-in. Potable Water Line to 222-S Lab (DFLAW High Priority)*, L-612, *230kV Transmission System Reconditioning and Sustainability Repairs (DFLAW High Priority)*, and L-853, *200E Sewer Flow Equalization Facility (DFLAW High Priority)*; and two each for projects L-781, *181D Vertical Turbine Pumps, Header, Instrumentation, Commission*, and L-826, *181B Vertical Turbine Pumps, Header, Instrumentation, Commission*.
 - 13 Project Risks were closed: two each related to Projects L-612, L-853, L-791, L-854, *200E Sewer Consolidations*, and L-801, *Upgrade SCADA*, and three for L-905, *Fire Alarm Report System (FARS) and Radio Fire Alarm Reporter (RFARS) Replacement and Upgrade*.
- Risk Reporting – In May, in accordance with the MSC-PLN-RIM-42375, *Hanford Mission Support Contract Risk Management Plan*, the monthly Risk Management report was submitted to the RL Contracting Office; this report consisted of April data.
- Mission Risk Management:
 - Operations Change Control Board (OCCB) Packet Review: The OCCB packet was reviewed and assessed for risks for new work scope.



- Mission Risk Review/Updates: Risk register reviews and elicitations were held with two MSA Information Management (IM) divisions, two PW divisions, and two MSA Environmental, Safety, Health & Quality divisions. Revisions to the associated risk registers were captured as appropriate, and new risks are in development.
- Project Risk Management:
 - Monte Carlo Quantitative Risk Analysis: Risk Management completed the Preliminary and Final quantitative risk analyses for Project L-919, *Emergency Radio Upgrades*.
 - 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.
 - 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:
 - Contract Change Proposal Support: Risk Management performed a risk elicitation for the MSC Closeout scope proposal. Relevant risks were identified, and associated risk mitigations developed.
 - Risk Register Replacement Software Initiative: Enterprise Risk Opportunity Management System (EROMS) acceptance testing for the multi-tenant version is still underway. Due to bugs identified during testing as well as missing functionality, the expected release has been delayed to at least June.
 - Request for Services (RFS) Proposal Support: Performed risk review of three RFS Proposals: one for providing M19009 National Nuclear Security Site (NNSS) Strike Support; one for providing 10th & 94th Civil Support Team (CST) Training at HAMMER and the Patrol Training Academy; and one related to M19011 350 Hills to Ashe Substation - Add Dark Fiber Path. These proposals had appropriate scope assumptions, and no expected risk impacts.



11.0 DASHBOARD SUMMARY

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

May FY 2019 Fiscal Year 2019 PEMP		Status	
Deliverables		YTD	May
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

1.1e -- This metric is Yellow for the reporting period with a completion rate of seventy-eight percent (78%). Seven (7) of nine (9) causal analyses conducted during the reporting period were completed within 45 days of initiation. In December, an apparent cause analysis was completed in 47 days (2 days late) due to slow response to review comments from Performance Oversight. In April, a root cause analysis of subcontractor-incurred costs exceeded 45 days due to the high visibility and complexity of the issue and the inconsistent availability of key personnel to provide input to the analysis.



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

May FY 2019 Fiscal Year 2019 PEMP			Status		
Deliverables			YTD	May	
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 October - December			
		Quarterly System Health Report January - March			
	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 October - December			
		Quarterly System Health Report January - March			
	Electric	Electrical power availability			
		Perform Preventative maintenance at 90% or better each month			
		Reduce corrective maintenance backlog identified as of October 1, 2018 by 20% no later than May 1, 2019			
Quarterly System Health Report October - December					
Quarterly System Health Report January - March					
1.3	Demonstrate effective development and management of reliability projects that assure mission milestones and regulatory commitments are met				
	a	L-894, Raw Water Cross Connections - Complete construction of the cross tie line.			
	b	L-897, Central Plateau Water Treatment Facility (DFLAW Essential) - Complete 90% of design.			
	c	L-850, Replace 200W 1.1M-gal PW tank (DFLAW Essential) - Complete 100% of design.			
	d	L-791, RFL Transfer Trip - Complete design and installation of fiber optic cable from fox box 6FX2 on Pole E2476 to the A6 substation			

LEGEND

= On Schedule

= Objective missed

N/A = Not Applicable (Updated quarterly)

= Complete

= In jeopardy

1.2 -- Green for the month of May; due to the number of overall outages year-to-date, MSA considers this PI Yellow overall. A bird caused an outage to 41 important transformers on April 17, 2019. Birdguarding pole transformers has been a priority, but this event occurred on a switch. Going forward, EU will research improving guarding these switches where necessary.



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

Deliverables		Status	
		YTD	May
2.0 Efficient Site Cleanup - Align resources and capabilities to support the site cleanup mission			
2.1	Maximize efficient MSA use of resources to meet the other Hanford contractors' changing project needs.		
2.2	Demonstrate effective Hanford Site integration to include, but not limited to, identifying longstanding or emerging issues that affect efficient site operations and provide recommendations for improvement.		
	a Through the CLC and CIB processes, provide DOE-RL with an unfiltered, forward looking view of emerging operational, budget, regulatory, or contractual issues.		
	b Conduct Operational Excellence Events: 40% of MSA's FY19 Operational Excellence events will be focused on crosscutting inter-contractor Site Integration opportunities.		
	c Full implementation of the MSA Assurance system to cover Operations, Financial, Maintenance, Work Management, Emergency Management, Safety and Environmental.		
	d Conduct monthly performance reviews using the Mission Assurance System demonstrating achievement of MSA's service levels, key milestones and regulatory commitments using a fully Implemented system.		
	e Prepare Transition Plan for contract turnover,		
	f Prepare Closeout Plan for MSC closeout. Support activities associated with Contract Closeout (subcontracts, incurred cost submissions/audits, accounting reconciliations, etc.).		
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:		
	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		
	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		
	Safeguards and security, fire department operations, emergency response, and emergency operations/emergency management		
	Land Management		
	Infrastructure and services program management, operations and maintenance		
	Effective contractor human resources management		
	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		

LEGEND

= On Schedule

= Objective missed

= Not Applicable (Updated quarterly)

= Complete

= In jeopardy

12.0 CONTRACT DELIVERABLES STATUS

Table 12-1. May 2019-June 2019 Contract Deliverables

CDRL	Deliverable	Responsible	Date Due	Date Submitted to DOE	Action	Response Time	Date Due from DOE	Date Approved by DOE
CD0051	Milestone Review and IAMIT Meeting Minutes - Mar	Wilson	05/05/19	05/14/19	Information			
CD0123	Monthly Billing Reports for DOE Services - Apr	Eckman	05/05/19	04/30/19	Information			
CD0043	Limited Emergency Preparedness Evaluation / Training Exercise Reports	Walton	05/07/19	05/07/19	Approve	45 days	06/21/19	
CD0144	Monthly Performance Report - Mar	Olsen	05/10/19	05/09/19	Review			
CD0035	Hanford Site Wild Land Fire Plan	Walton	05/15/19	05/14/19	Approve	30 days	06/13/19	
CD0084	Bonneville Power Administration (BPA) Power and Transmission Service invoice verification and breakdown of site contractor costs - Feb	Synoground	05/30/19	05/30/19				
CD0047	Radiological Assistance Program Response Plan for RAP Region 8	Walton	06/01/19	05/30/19	Approve	30 days	06/13/19	
CD0008	Force-On-Force Test Results	Walton	06/03/19	05/30/19				
CD0051	Milestone Review and IAMIT Meeting Minutes - Apr	Wilson	06/05/19	awaiting report				
CD0123	Monthly Billing Reports for DOE Services - May	Eckman	06/05/19	06/04/19				
CD0144	Monthly Performance Report - Apr	Olsen	06/10/19	06/05/19				
CD0083	Annual Electrical Load Forecasts	Synoground	06/15/19	06/11/19				
CD0042	Annual Field Emergency Preparedness Evaluation Exercise Report	Walton	06/22/19					
CD0084	Bonneville Power Administration (BPA) Power and Transmission Service invoice verification and breakdown of site contractor costs - Apr	Synoground	06/30/19					
CD0129	Content (Records) Management Security Plan	Eckman	06/30/19					
CD0169	Hanford Site Interface Management Plan	Von Bargaen	06/30/19					

The following itemizes the contract deliverables due to RL in May 2019, and provides a look ahead through June 2019.

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.



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