

# MISSION SUPPORT ALLIANCE

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



# Monthly Performance Report June 2019

**R. E. Wilkinson**  
**President**

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



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## CONTENTS

### EXECUTIVE OVERVIEW

1.0	INTRODUCTION.....	1
1.1	Key Accomplishments.....	1
1.2	Look Ahead.....	5
2.0	ANALYSIS OF FUNDS.....	7
3.0	SAFETY PERFORMANCE .....	8
4.0	FORMAT 1, DD FORM 2734/1, WORK BREAKDOWN STRUCTURE .....	12
5.0	FORMAT 3, DD FORM 2734/3, BASELINE .....	16
6.0	FORMAT 5, DD FORM 2734/5, EXPLANATIONS AND PROBLEM ANALYSIS .....	18
7.0	USAGE-BASED SERVICES/DIRECT LABOR ADDER SUMMARY.....	27
8.0	RELIABILITY PROJECT STATUS.....	29
9.0	BASELINE CHANGE REQUEST LOG (BCR) .....	36
10.0	RISK MANAGEMENT.....	39
11.0	DASHBOARD SUMMARY .....	41
12.0	CONTRACT DELIVERABLES STATUS .....	45
12.1	Government-Furnished Services/Information and DOE Decisions .....	46



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 June 2019.

### 1.1 KEY ACCOMPLISHMENTS

**Plutonium Finishing Plant (PFP) Support** – By providing oversight and approval of accounting data, MSA Safeguards and Security (SAS) personnel supported CH2M HILL Plateau Remediation Company (CHPRC) personnel in reducing the physical boundary of the PFP Material Balance Area (MBA) footprint, significantly shrinking the area subject to enhanced controls.

**Hanford Site Population Projections** – MSA Land Stewardship staff completed the annual update of the Hanford Site Population Projections report. The report provides a detailed analysis of the Hanford Site population, including both the personnel who support the DOE Office of Environmental Management (EM) mission and those who support other non-DOE EM mission activities (i.e., Energy Northwest) that are located on the Hanford Site. The population data includes the population for fiscal year (FY) 2019, as well as a 10-year projection for FYs 2020 through 2029. The report presents the results of the analyses conducted to support Site planning efforts; describes the areas, organizations, and worker types considered in each of the analyses; and identifies the overall trends observed. The report also explains how the data can be used to support multiple planning efforts at the Hanford Site.

**New Sitewide Risk Software** – In June, the sitewide quantitative risk analysis software, *Safran*,<sup>1</sup> was successfully installed. Efforts are currently underway to finalize testing and documentation prior to production release, which is slated for July. Sitewide training is scheduled the week of July 8, 2019. Development of the draft Hanford Integrated Priority List (HIPL) documentation has been initiated, including process flow, project-ranking criteria and template.

**Memorandums of Agreement (MOAs) Signed** – MSA is committed to maintaining a work environment that promotes and assures the safety, health and welfare of all

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<sup>1</sup> Safran, is a risk analysis software product from Safran Software Solutions AS, of London, Greater London, UK



employees. To this end, MSA Human Resources (HR) personnel successfully negotiated an MOA with the Hanford Atomic Metal Trades Council (HAMTC) regarding the use of Global Positioning System (GPS) Tracking and Telemetry Devices for the purpose of: 1) tracking employees for non-disciplinary purposes, especially when an employee is working in a remote location and 2) using the information derived from the devices to validate speeding violations. The information can be used, cited, referenced or relied upon in any disciplinary action in which speeding is proven. Because the Agreement also contains a discipline component, the signing of this Agreement helps to ensure compliance with posted speed limits on the Hanford Site.

MSA HR staff successfully negotiated a second MOA with the International Union of Operating Engineers Local 280, that dealt with the call out of overtime. This Agreement allows employees in the back up overtime group to be called out prior to forcing employees in the primary overtime group to work. This Agreement helps with employee work/life balance, and ensures that overtime will first be offered to all eligible employees volunteering for such work.

**Environmental Surveillance Soil and Vegetation Sampling** – In June, MSA Environmental Integration Services (EIS) staff completed the 2019 on-site soil and vegetation sample collections as identified in the Hanford Site Master Sampling Schedule. EIS staff facilitated a co-sampling event with Washington State Department of Health (WDOH) personnel at five predetermined sites. Onsite soil and vegetation sampling is conducted annually and is required by WDOH as a qualitative indicator of the environmental monitoring program. It is also a recommended practice per the DOE handbook, *Environmental Radiological Effluent Monitoring and Environmental Surveillance*.

**Revised DOE-RL Administrative Record Website** – A two-year multidisciplinary initiative has culminated with the launch of an updated Hanford Site Administrative Record/Public Information Repository website. Managed by MSA, the Administrative Record website provides the public the ability to search for and view documents that the Tri-Party Agreement agencies consider when making cleanup and permitting decisions.

The upgraded site replaces an outdated application that was difficult to search, had security vulnerabilities, and lacked some features today's information consumers expect. MSA replaced the site with a combination of two software products --a content management system and a modular digital authoring framework. Combined, the tools create a flexible and highly scalable content management solution that not only



improves search efficiencies, but also provides a ready set of tools for future records projects.

The website's updated interface provides the same functionality as its predecessor, but adds the ability to search the full text of the collection, then sort, filter, export and download search results.

**HFD Mutual Aid Support** – MSA's HFD personnel provided a mutual aid response to the Yakima (WA) Training Center for a natural groundcover fire of more than 3,500 acres on June 20, 2019. HFD's response efforts were instrumental in stopping the forward progress of the fire, containment and eventual extinguishment. Support was provided by one Type 3 Brush Truck and one Type 5 Grass Truck. No equipment issues and no injuries to HFD personnel were incurred.

**HAMMER Participates in 2019 Exercise** – Hazardous Materials Management and Emergency Response (HAMMER) staff participated in the "Shaken Fury 2019" exercise May 29 through June 7, 2019, in Nashville, Tennessee. The exercise was conducted in partnership with DOE, the U.S. Department of Defense - U.S. Northern Command, state and local governments, and the private sector. The exercise focused on a scenario in which a massive 7.7 magnitude earthquake ruptured along the southwest segment of the New Madrid Seismic Zone near Memphis, Tennessee, prompting response and recovery missions. The exercise was a culmination of one year of planning in which HAMMER staff served as exercise controllers in the Master Control Cell, and actively supported planning and preparation efforts. These efforts included coordinating roles for over 1,700 injects, tasks, or conditions which prompted player action, allowing response plans to be tested and evaluated to ensure optimal preparedness for response to an actual event. Exercises such as Shaken Fury 2019 are essential to national preparedness, and provide an opportunity for the response community and stakeholders to prepare, evaluate capabilities, and identify areas for improvement.

**Fire Protection System Footprint Reduction Study** - Hanford Fire Department (HFD) personnel submitted the "Fire Protection System Footprint Reduction Study" to DOE-RL on June 26, 2019. The study provides a comprehensive analysis for Hanford Site protection systems, specifically reviewing the site fire systems against codes, standards and DOE Fire Protection Program Requirements. The analysis also evaluated the fire protection systems for facilities that are shutdown, deactivated, without future mission, or awaiting decontamination or demolition. Submittal of the document completed a major action in the DOE-RL approved Corrective Action Plan to address fire systems

maintenance issues, and simultaneously provided information to DOE-RL in response to a DOE Headquarters action.

**APEX Implementation** - The APEX-InVivo<sup>2</sup> computer program, used to run the Whole Body Counter (WBC), was placed into full production mode in the iron room at the WBC. This is the first WBC cell to fully utilize the APEX System. Along with the completion of testing in June, acceptance of the system from the DOE Laboratory Accreditation Program was also received.

**Fiscal Year (FY) 2019-2020 Contract/Baseline Alignment Guidance (CBAG, Rev. 3)** – MSA provided responses to the DOE-RL regarding FY 2019-2020 CBAG, Revision 3 direction. Funding sources for the CBAG directing new work scope were identified. An updated FY 2019 Integrated Investment Portfolio (IIP), in accordance with Rev. 3, is targeted for July 15, 2019, delivery to DOE-RL.

**Transport of 75-Ton Crane** – MSA workers provided support for a Washington River Protection Solutions (WRPS) work evolution that involved removing a 75-ton regulated crane from A-Farm. The crane had experienced a complete engine failure and needed to be hoisted onto a tractor-trailer and then transported to the 2711E Fleet Maintenance Facility for repairs. MSA Crane & Rigging staff performed the task of assembly/disassembly of the 150-ton crane needed to perform the lift, while Teamsters located and delivered a tractor-trailer to the job site for transport of the crane.



*75-ton crane transported to Fleet Maintenance Facility*

**Management Assessment Program (MAP) Conversion** – MSA Portfolio Management staff completed training on June 13, 2019 for users of the new DevonWay<sup>3</sup> software now used as part of the DOE-RL integrated Contractor Assurance System (iCAS).

<sup>2</sup> APEX-InVivo (a whole body and lung counting productivity software) is a product of Mirion Technologies, San Ramon, CA.

<sup>3</sup> DevonWay is a commercial off-the-shelf software product from DevonWay, Inc. of Portland, OR

DevonWay personnel were on site to lead the training, and assist with final configuration of the system; a total of 116 people attended.

The final upload of MAP data was completed on June 17, 2019. Users had been instructed to input their monthly data into MAP prior to that date. Data input after June 17<sup>th</sup> was to be done in both DevonWay and MAP to keep the systems in alignment for the remainder of June. DevonWay went fully operational on June 17, 2019, and MAP was closed down on June 28, 2019. The MAP icons were all removed from users' desktops and further edit permissions were revoked.

**Site Tours Support** – MSA hosted approximately 60 visitors in June for the Hanford Site Cleanup Tours #8-10. The tours provide members of the public insight into the progress of Hanford's environmental cleanup projects. This year's tour program highlights several facilities and locations, including 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 PUREX tunnels stabilization progress.

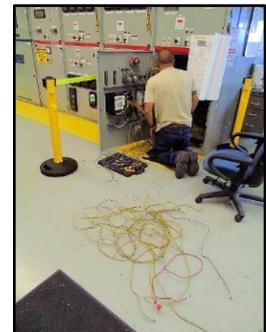
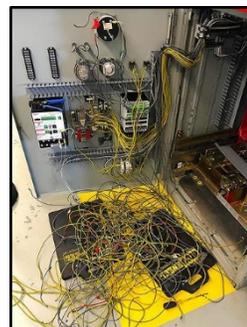
## 1.2 LOOK AHEAD

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**HAMMER Prepares for Surge in Site Electrical Training Demand** – HAMMER is preparing for a significant increase in electrical training demand this fall and winter. The demand is driven by Hanford's urgent need to train workers according to the changes in the updated national electric code, in which all electrical practitioners are required to take either the National Fire Protection Association (NFPA) 2018 or DOE-0359 course to maintain compliance with the program.

**Digital Devices at A8 Substation** – MSA Electrical Utilities (EU) staff are continuing the conversion of electromechanical equipment to digital. EU is 50% complete with installing all new meters for the cubicle upgrades at the A8 251W Substation. Each cubicle will remove five antiquated relays and replace them with new ones which will be more powerful, functional, and sensitive. A significant amount of wiring changes, including consolidations, reconfigurations, and terminations will occur to finalize the upgrades. This effort will make the systems more reliable and mission ready.

*Converting electromechanical equipment to digital.*





**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	\$621.2	\$777.2
RL-0020	Safeguards & Security	\$90,966.6	\$83,904.6	\$58,263.7	\$25,640.9
RL-0040	Reliability Projects/HAMMER/ Inventory	\$3,672.0	\$3,672.0	\$1,628.7	\$2,043.3
RL-0201	Hanford Site-Wide Services	\$72,709.0	\$67,466.1	\$38,641.3	\$28,824.8
RL-0041	B Reactor	\$3,298.5	\$3,298.5	\$(1.1)	\$3,299.6
SWS	Site-Wide Services	\$213,620.9	\$198,619.7	\$144,063.4	\$54,556.3
<b>Total</b>		<b>\$385,668.2</b>	<b>\$358,359.3</b>	<b>\$243,217.2</b>	<b>\$115,142.1</b>

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 824, received July 22, 2019

Based upon FY19 forecast the remaining uncosted carryover balance will fund SWS through September 11,2019 and RL-20 through September 24, 2019.



## 3.0 SAFETY PERFORMANCE

During the month of June, one of MSA's reported injuries classified as both "Recordable" and "Days Away, Restricted or Transferred (DART)." Therefore, the fiscal year 2019 total recordable case (TRC) rate is 0.45 and DART rate is 0.39. These rates are below the DOE performance measurement baselines of 1.1 and 0.60, respectively. Three First Aid cases were recorded, which is below the average for a given month. First Aid cases are evaluated to determine emerging trends and implement awareness activities, as warranted.

MSA did not experience a vehicle accident during June. The site-wide traffic safety initiatives, including frequent communication, increased enforcement, and the addition of telemetry to government vehicles, appear to be having a positive impact on driving behaviors.



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**

	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
Monthly Recordable Cases	1	0	1	1	0	1	1	0	1	2	0	1
Monthly TRC Rate	0.62	0.00	0.49	0.65	0.00	0.60	0.48	0.00	0.62	1.15	0.00	0.58
Performance (3-m Average)	0.58	0.36	0.33	0.34	0.37	0.40	0.36	0.39	0.39	0.63	0.56	0.55
Performance (12-m Average)	0.65	0.54	0.46	0.46	0.41	0.41	0.45	0.45	0.47	0.47	0.42	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:	Terri Martinez
Data Source:	MSMET
PI Basis:	MSC-PLN-WP-003, Sect. 4.0
Date:	7/9/2019

**FY19 = 0.45    CY19 = 0.47**

**Total Recordable Case (TRC) Rate**

**Analysis**  
There was 1 recordable injuries during the month of June. FYTD, MSA has experienced 7 OSHA recordable injuries resulting in a TRC rate of 0.45.  
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 (2), 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), body (abdomen) (1), (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)

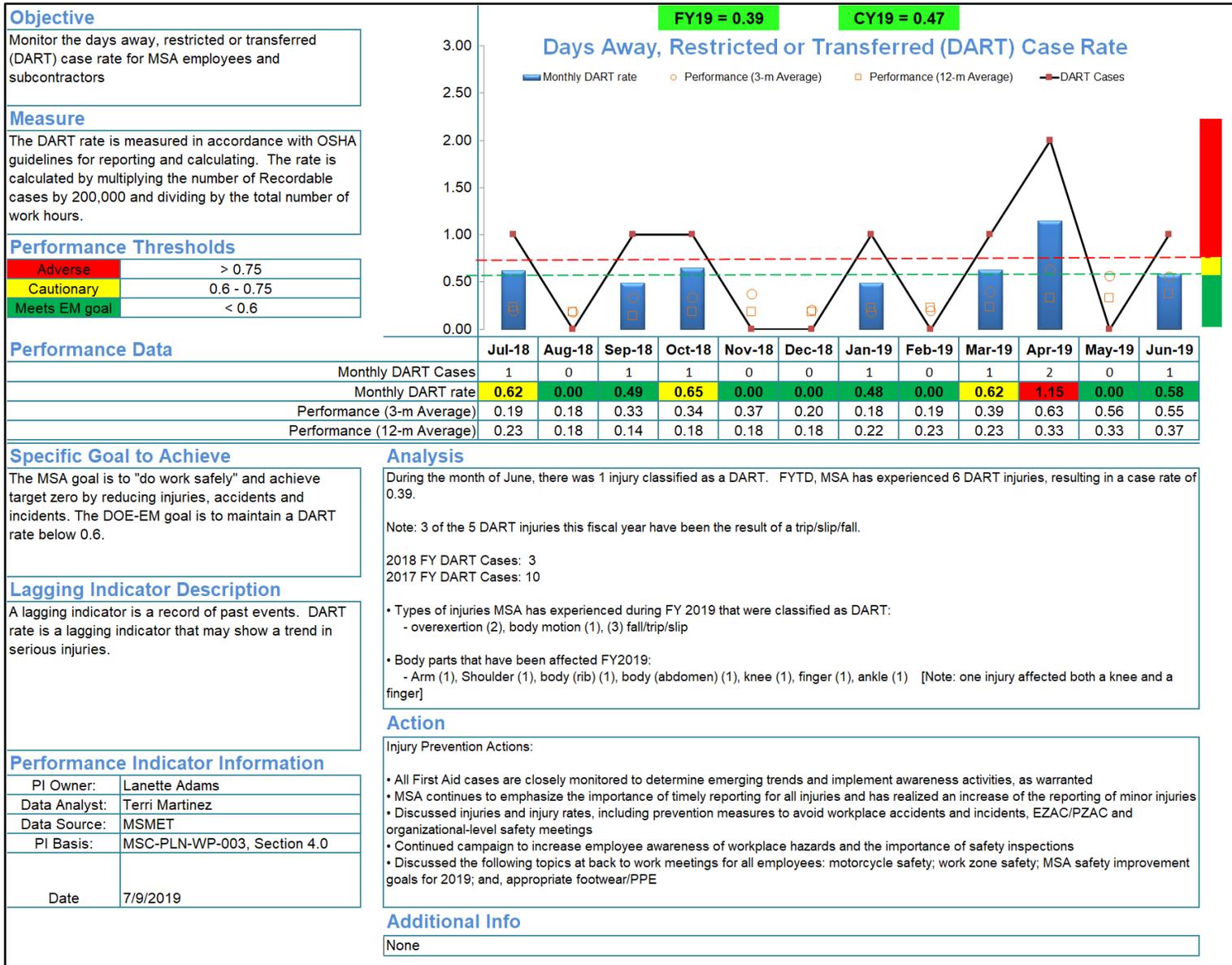




Table 3-3. First-Aid Case Rate

**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**

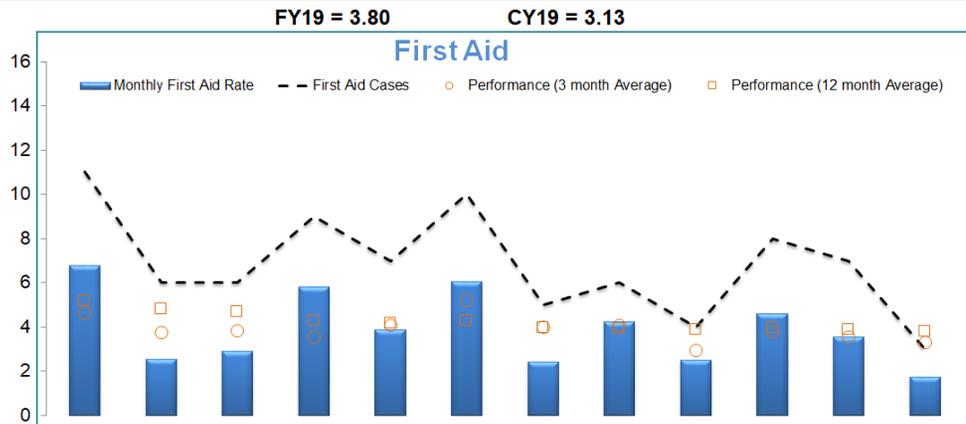
The metric is a count of the number of First Aid cases per month, and the rate of cases. The rate is calculated by multiplying the number of First Aid cases by 200,000 and dividing by the total number of work hours for a given period.

**Performance Thresholds**

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

**Performance Data**

	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
First Aid Cases	11	6	6	9	7	10	5	6	4	8	7	3
Monthly First Aid Rate	6.79	2.56	2.92	5.82	3.89	6.04	2.42	4.22	2.50	4.58	3.54	1.75
Performance (3 month Average)	4.65	3.75	3.82	3.53	4.07	5.20	3.99	4.09	2.95	3.78	3.57	3.31
Performance (12 month Average)	5.18	4.82	4.67	4.29	4.17	4.27	3.97	3.90	3.89	3.97	3.87	3.81



**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:	Terri Martinez
Data Source:	MSMET
PI Basis:	MSC-PLN-WP-003 Sect. 4.0
Date	7/9/2019

**Analysis**

MSA experienced 3 First Aid cases in June. The injuries were caused by the following incidents: struck against (2); and, slip, trip & fall (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 a. Name Mission Support Alliance b. Location (Address and Zip Code) Richland, WA 99352			2. Contract a. Name Mission Support Contract b. Number RL14728 c. TYPE CPAF			3. Program a. Name Mission Support Contract b. Phase Operations c. EVMS ACCEPTANCE No X Yes			4. Report Period a. From (2018/05/27) b. To (2019/06/23)								
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		\$4,238,852		N/A		N/A		N/A	
6. ESTIMATED COST AT COMPLETION												7. AUTHORIZED CONTRACTOR REPRESENTATIVE					
				CONTRACT BUDGET BASE (2)		VARIANCE (3)		a. NAME (Last, First, Middle Initial) Wilkinson, Robert E				b. TITLE MSC Project Manager					
a. BEST CASE				\$4,074,958				c. SIGNATURE <i>Robert E Wilkinson</i>				d. DATE SIGNED 7-29-19					
b. WORST CASE				\$4,216,681													
c. MOST LIKELY				\$4,015,886		4,069,560		53,673									
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	4,894	4,894	5,634	0	(739)	595,431	595,431	592,376	0	3,054	617,097	614,503	2,593				
3001.01.02 - Fire and Emergency Response	2,835	2,835	3,215	0	(380)	257,799	257,799	257,222	0	578	267,853	267,889	(36)				
3001.01.03 - Emergency Management	325	325	348	0	(23)	44,235	44,235	44,135	0	100	45,468	45,424	44				
3001.01.04 - HAMMER	995	995	552	0	443	73,933	73,933	71,423	0	2,510	76,285	75,535	750				
3001.01.05 - Emergency Services Management	82	82	180	0	(99)	15,919	15,919	15,510	0	409	16,213	16,154	58				
3001.02.01 - Site-Wide Safety Standards	79	79	129	0	(51)	8,348	8,348	9,236	0	(888)	8,672	9,616	(943)				
3001.02.02 - Environmental Integration	407	407	276	0	130	56,161	56,161	55,072	0	1,090	57,361	56,260	1,101				
3001.02.03 - Public Safety & Resource Protection	851	851	784	0	66	70,042	70,042	70,640	0	(598)	73,471	74,335	(865)				
3001.02.04 - Radiological Site Services	(40)	(40)	0	0	(40)	5,242	5,242	5,129	0	113	5,242	5,129	113				
3001.02.05 - WSCF Analytical Services	225	225	0	0	225	50,438	50,438	50,457	0	(19)	50,438	50,457	(19)				
3001.03.01 - IM Project Planning & Controls	138	138	128	0	10	33,196	33,196	32,320	0	876	33,512	32,698	814				
3001.03.02 - Information Systems	2,295	2,295	1,988	0	307	117,402	117,402	116,576	0	826	121,200	120,567	632				
3001.03.03 - Infrastructure / Cyber Security	390	390	876	0	(487)	44,635	44,635	43,805	0	830	47,245	46,767	478				
3001.03.04 - Content & Records Management	526	526	428	0	98	67,875	67,875	67,737	0	138	70,080	69,954	126				
3001.03.05 - IR/CM Management	119	119	371	0	(252)	14,109	14,109	14,093	0	16	14,551	15,377	(826)				
3001.03.06 - Information Support Services	161	161	146	0	14	14,260	14,260	14,247	0	13	14,743	14,791	(48)				
3001.04.01 - Roads and Grounds Services	423	423	559	0	(136)	31,725	31,725	32,115	0	(391)	33,039	33,799	(760)				
3001.04.02 - Biological Services	411	411	307	0	104	37,442	37,442	37,089	0	353	38,526	38,370	157				
3001.04.03 - Electrical Services	(39)	(39)	1,380	0	(1,418)	120,928	120,928	120,846	0	82	125,696	126,110	(414)				
3001.04.04 - Water/Sewer Services	(180)	(180)	1,600	0	(1,781)	129,148	129,148	127,409	0	1,739	134,139	133,073	1,066				
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	(22)	(22)	23	0	(45)	10,707	10,707	10,684	0	24	10,812	10,787	25				



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 (2018/05/27)																		
b. Location (Address and Zip Code) Richland, WA 99352		b. Number RL14728		b. Phase Operations			b. To (2019/06/23)																		
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)															
a. WORK BREAKDOWN STRUCTURE ELEMENT (Cont'd)																									
3001.04.07 - Fleet Services	102	102	0	0	102	7,322	7,322	7,322	0	0	7,322	7,322	(0)												
3001.04.08 - Crane and Rigging	0	0	0	0	0	2,187	2,187	2,187	0	(0)	2,187	2,187	(0)												
3001.04.09 - Railroad Services	(1)	(1)	3	0	(4)	680	680	652	0	28	717	707	10												
3001.04.10 - Technical Services	66	66	540	0	(474)	49,304	49,304	49,873	0	(569)	50,745	52,165	(1,420)												
3001.04.11 - Energy Management	377	377	121	0	256	11,984	11,984	11,616	0	368	12,441	12,034	407												
3001.04.12 - Hanford Historic Buildings Preservation	101	101	229	0	(128)	25,223	25,223	24,398	0	824	25,859	25,570	289												
3001.04.13 - Work Management	85	85	147	0	(62)	15,208	15,208	16,865	0	(1,657)	15,696	17,476	(1,780)												
3001.04.14 - Land and Facilities Management	640	640	461	0	178	48,359	48,359	45,783	0	2,576	49,638	48,365	1,273												
3001.04.15 - Mail & Courier	140	140	52	0	88	7,072	7,072	7,058	0	15	7,246	7,237	9												
3001.04.16 - Property Systems/Acquisitons	474	474	700	0	(226)	60,571	60,571	59,909	0	662	62,623	62,644	(21)												
3001.04.17 - General Supplies Inventory	100	100	(117)	0	217	1,925	1,925	963	0	961	2,084	1,502	582												
3001.04.18 - Maintenance Management Program Implementation	279	279	60	0	219	10,426	10,426	10,435	0	(9)	10,664	10,679	(15)												
3001.06.01 - Business Operations	1,054	1,054	683	0	371	56,133	56,133	17,410	0	38,722	60,305	21,190	39,115												
3001.06.02 - Human Resources	245	245	302	0	(57)	26,640	26,640	24,548	0	2,092	27,641	25,666	1,975												
3001.06.03 - Safety, Health & Quality	2,148	2,148	1,452	0	697	178,990	178,990	176,801	0	2,189	184,045	182,223	1,822												
3001.06.04 - Miscellaneous Support	101	101	313	0	(212)	52,808	52,808	53,348	0	(540)	53,956	54,567	(611)												
3001.06.05 - Presidents Office (G&A nonPMB)	21	21	0	0	21	37	37	16	0	21	516	516	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	267	267	246	0	21	59,534	59,534	58,753	0	781	60,436	59,816	621												
3001.08.01 - Water System	390	1,269	1,189	879	80	43,450	42,076	28,752	(1,374)	13,324	48,735	34,587	14,148												
3001.08.02 - Sewer System	0	15	204	15	(189)	17,321	17,031	20,119	(290)	(3,088)	17,321	20,638	(3,316)												
3001.08.03 - Electrical System	(542)	271	647	813	(376)	22,709	21,645	22,265	(1,065)	(621)	23,631	24,168	(536)												
3001.08.04 - Roads and Grounds	10	111	191	101	(79)	9,164	9,259	8,738	96	521	10,015	9,448	567												
3001.08.05 - Facility System	336	715	598	379	117	11,864	12,101	12,398	237	(297)	12,802	13,192	(390)												
3001.08.06 - Reliability Projects Studies & Estimates	681	675	754	(6)	(79)	22,104	22,104	23,239	0	(1,135)	24,639	26,017	(1,379)												
3001.08.07 - Reliability Project Spare Parts Inventory	120	120	54	0	66	4,314	4,314	3,729	0	586	4,774	4,370	404												
3001.08.08 - Network & Telecommunications System	226	243	261	17	(18)	27,125	27,134	29,265	9	(2,131)	32,909	35,611	(2,702)												
3001.08.09 - Capital Equipment Not Related to Construction	0	0	0	0	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	8,664	5,156	3,508												
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)													22,294	24,492	28,017	2,198	(3,525)	2,603,015	2,599,318	2,533,280	(3,697)	66,039	2,744,442	2,684,965	59,477



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

CONTRACT PERFORMANCE REPORT														DOLLARS IN Thousands			FORM APPROVED OMB No. 0704-0188	
FORMAT 1 - WORK BREAKDOWN STRUCTURE																		
1. Contractor		2. Contract				3. Program				4. Report Period								
a. Name Mission Support Alliance		a. Name Mission Support Contract				a. Name Mission Support Contract				a. From (2018/05/27)								
b. Location (Address and Zip Code) Richland, WA 99352		b. Number RL14728				b. Phase Operations				b. To (2019/06/23)								
c. TYPE CPAF		d. Share Ratio				c. EVMS ACCEPTANCE No X Yes												
Item (1)	Current Period			Variance		Cumulative to Date					At Completion							
	Budgeted Cost		Actual Cost Work Performed (4)	Schedule (5)	Cost (6)	Budgeted Cost		Actual Cost Work Performed (9)	Variance		Budgeted (12)	Estimated (13)	Variance (14)					
	Work Scheduled (2)	Work Performed (3)				Work Scheduled (7)	Work Performed (8)		Schedule (10)	Cost (11)								
a2. WORK BREAKDOWN STRUCTURE ELEMENT																		
3001.01.04 - HAMMER	1,277	1,277	1,179	0	98	143,821	143,821	143,783	0	38	148,532	150,089	(1,557)					
3001.02.04 - Radiological Site Services	716	716	772	0	(56)	64,671	64,671	63,965	0	706	67,116	67,608	(492)					
3001.02.05 - WSCF Analytical Services	0	0	0	0	0	53,176	53,176	53,176	0	0	53,176	53,176	(0)					
3001.03.02 - Information Systems	222	222	242	0	(20)	8,770	8,770	8,698	0	72	9,526	9,665	(139)					
3001.03.04 - Content & Records Management	64	64	65	0	(1)	2,680	2,680	2,686	0	(5)	2,901	2,978	(78)					
3001.03.06 - Information Support Services	0	0	0	0	0	4,043	4,043	4,043	0	(0)	4,043	4,043	(0)					
3001.03.07 - Information Technology Services	2,271	2,271	1,884	0	387	98,323	98,323	96,391	0	1,933	105,474	107,089	(1,614)					
3001.04.05 - Facility Services	846	846	880	0	(34)	82,464	82,464	82,190	0	274	85,512	85,961	(449)					
3001.04.06 - Transportation	496	496	591	0	(94)	51,621	51,621	50,965	0	656	53,325	53,643	(318)					
3001.04.07 - Fleet Services	1,304	1,304	1,496	0	(192)	144,738	144,738	144,919	0	(182)	149,424	151,490	(2,066)					
3001.04.08 - Crane and Rigging	996	996	1,070	0	(74)	121,338	121,338	120,608	0	730	124,822	125,163	(341)					
3001.04.10 - Technical Services	250	250	222	0	28	8,693	8,693	8,528	0	165	9,533	9,755	(222)					
3001.04.13 - Work Management	46	46	67	0	(21)	4,205	4,205	4,186	0	18	4,368	4,406	(38)					
3001.04.14 - Land and Facilities Management	806	806	1,051	0	(245)	71,215	71,215	70,945	0	270	73,892	74,999	(1,106)					
3001.04.15 - Mail & Courier	18	18	18	0	(1)	1,674	1,674	1,667	0	7	1,739	1,746	(7)					
3001.06.01 - Business Operations	850	850	743	0	107	110,443	110,443	110,080	0	363	113,850	114,340	(490)					
3001.06.02 - Human Resources	312	312	334	0	(21)	30,944	30,944	30,806	0	137	32,117	32,302	(185)					
3001.06.03 - Safety, Health & Quality	171	171	81	0	90	15,421	15,421	14,666	0	755	16,027	15,169	858					
3001.06.04 - Miscellaneous Support	196	196	180	0	16	17,653	17,653	18,405	0	(752)	18,352	19,992	(1,640)					
3001.06.05 - Presidents Office (G&A nonPMB)	251	251	261	0	(10)	27,282	27,282	27,001	0	280	28,267	28,374	(106)					
3001.06.06 - Strategy	20	20	15	0	5	3,029	3,029	2,965	0	64	3,101	3,050	51					
3001.A1.01 - Transfer - CHPRC	5,787	5,787	5,885	0	(98)	694,153	694,153	696,181	0	(2,028)	715,156	717,228	(2,071)					
3001.A1.02 - Transfer - WRPS	4,218	4,218	4,431	0	(213)	322,901	322,901	321,901	0	1,000	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	19	19	70	0	(51)	3,413	3,413	3,464	0	(51)	3,481	3,516	(36)					
3001.A2.02 - Non Transfer - AMH	0	0	0	0	0	954	954	954	0	0	954	954	0					
3001.A2.03 - Non Transfer - ATL	0	0	0	0	0	702	702	702	0	0	702	702	0					
3001.A2.04 - Non-Transfer - WCH	1	1	0	0	1	41,023	41,023	41,726	0	(703)	41,023	41,726	(703)					
3001.A2.05 - Non-Transfers - HPM	62	62	48	0	14	3,158	3,158	3,307	0	(149)	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	30	30	22	0	8	1,236	1,236	1,162	0	74	1,344	1,214	130					
3001.A4.01 - Request for Services	3,899	3,899	1,060	0	2,839	114,252	114,252	115,058	0	(806)	116,264	116,804	(540)					
3001.A4.02 - HAMMER RFSs	4,539	4,539	141	0	4,398	35,011	35,011	34,146	0	865	36,160	34,567	1,593					
3001.A4.03 - National Guard RFSs	(1)	(1)	0	0	(1)	1,550	1,550	1,550	0	0	1,550	1,550	0					
3001.A4.04 - PNNL RFSs	401	401	57	0	343	11,128	11,128	12,448	0	(1,321)	11,250	12,557	(1,307)					
3001.A5.01 - RL PD	84	84	8	0	76	6,579	6,579	6,454	0	126	6,695	6,532	163					
3001.A5.02 - ORP PD	(54)	(54)	50	0	(105)	8,248	8,248	8,358	0	(110)	8,447	8,584	(137)					



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

CONTRACT PERFORMANCE REPORT													DOLLARS IN Thousands		FORM APPROVED OMB No. 0704-0188	
FORMAT 1 - WORK BREAKDOWN STRUCTURE																
1. Contractor			2. Contract			3. Program			4. Report Period							
a. Name			a. Name			a. Name			a. From (2018/05/27)							
b. Location (Address and Zip Code)			b. Number			b. Phase			b. To (2019/06/23)							
Richland, WA 99352			c. TYPE			d. Share Ratio			c. EVMS ACCEPTANCE							
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)						
3001.A5.03 - RL Project Funded	(19)	(19)	365	0	(384)	15,844	15,844	14,980	0	865	17,547	16,850	696			
3001.A5.04 - ORP Project Funded	(155)	(155)	86	0	(241)	7,780	7,780	7,516	0	263	8,136	7,863	273			
3001.A6.01 - Portfolio PMTOs	0	0	11	0	(11)	1,158	1,158	1,103	0	55	1,158	1,108	50			
3001.A7.01 - G&A Liquidations	(2,051)	(2,051)	(2,273)	0	222	(215,174)	(215,174)	(214,125)	0	(1,049)	(222,958)	(224,272)	1,314			
3001.A7.02 - DLA Liquidations	(1,629)	(1,629)	(1,837)	0	208	(145,680)	(145,680)	(144,172)	0	(1,508)	(151,408)	(151,918)	510			
3001.A7.03 - Variable Pools Revenue	(7,433)	(7,433)	(8,158)	0	725	(706,460)	(706,460)	(705,559)	0	(901)	(731,842)	(740,530)	8,689			
3001.B1.01 - UBS Assessments for Other Providers	0	0	0	0	0	0	0	0	0	0	0	0	0			
3001.B1.02 - UBS Other MSC - HAMMER M&O	0	0	0	0	0	0	0	0	0	0	0	0	0			
3001.B1.03 - Assessment for Other Provided Services	0	0	0	0	0	1	1	0	0	1	1	0	1			
3001.B1.04 - Assessment for PRC Services to MSC	0	0	0	0	0	1	1	0	0	1	1	0	1			
3001.B1.07 - Request for Services	0	0	0	0	0	0	0	0	0	0	0	0	0			
a2. WORK BREAKDOWN STRUCTURE ELEMENT																
b2. COST OF MONEY																
c2. GENERAL AND ADMINISTRATIVE											0		0			
d2. UNDISTRIBUTED BUDGET											20,002	20,002	0			
e2. SUBTOTAL (Non - Performance Measurement Baseline)	18,808	18,808	11,116	0	7,693	1,268,223	1,268,223	1,268,071	0	152	1,330,436	1,330,842	(406)			
f. MANAGEMENT RESERVE											79	79	0			
g. TOTAL	41,102	43,300	39,133	2,198.0	4,167	3,871,238	3,867,541	3,801,350	(3,697)	66,191	4,074,958	4,015,886	59,071			
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																	
<b>1. Contractor</b>		<b>2. Contract</b>				<b>3. Program</b>				<b>4. Report Period</b>							
a. Name		a. Name				a. Name				a. From (2019/05/27)							
Mission Support Alliance		Mission Support Contract				Mission Support Contract											
b. Location (Address and Zip Code)		b. Number		b. Phase		b. To (2019/06/23)											
Richland, WA 99352		RL14728		Operations													
c. TYPE		d. Share Ratio		c. EVMS ACCEPTANCE													
CPAF				No <input checked="" type="checkbox"/> Yes													
<b>5. CONTRACT DATA</b>																	
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				\$1,219,991		\$4,074,957		\$0		\$4,074,957		\$4,074,957		\$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	
<b>6. PERFORMANCE DATA</b>																	
ITEM	BCWS CUMULATIVE TO DATE (2)	BCWS FOR REPORT PERIOD (3)	BUDGETED COST FOR WORK SCHEDULED (BCWS) (Non-Cumulative)														
			Six Month Forecast By Month						Remaining Forecast By Month					UNDISTRIBUTED BUDGET (15)	TOTAL BUDGET (16)		
			JUL FY19 (4)	AUG FY19 (5)	SEP FY19 (6)	OCT FY20 (7)	NOC FY20 (8)	DEC FY20 (9)	(10)	(11)	(12)	(13)	(14)				
a. PERFORMANCE MEASUREMENT BASELINE (Beginning of Period)	2,580,722	24,208	22,218	28,874	33,702	171	1,321	2	0	0					64,012	2,755,229	
b. BASELINE CHANGES AUTHORIZED DURING REPORT PERIOD	22,294	(24,208)	808	2,584	16,384	1,401	344	17	0	0	0	0	0	0	(30,411)	(10,787)	
c. PERFORMANCE MEASUREMENT BASELINE (End of Period)	2,603,016		23,026	31,458	50,087	1,572	1,664	19	0	0					33,601	2,744,442	



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

DOLLARS IN Thousands																FORM APPROVED OMB No. 0704-0188	
1. Contractor		2. Contract			3. Program				4. Report Period								
a. Name Mission Support Alliance		a. Name Mission Support Contract			a. Name Mission Support Contract				a. From (2019/05/27)								
b. Location (Address and Zip Code) Richland, WA 99352		b. Number RL14728			b. Phase Operations				b. To (2019/06/23)								
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								
			JUL FY19 (4)	AUG FY19 (5)	SEP FY19 (6)	OCT FY20 (7)	NOC FY20 (8)	DEC FY20 (9)	(10)	(11)	(12)	(13)	(14)				
a2. NON - PERFORMANCE MEASUREMENT BASELINE (Beginning of Period)	1,249,415	11,722	11,218	15,035	15,959	0	0	0	0	0	0	0	0	0	0	10,903	1,314,252
b2. BASELINE CHANGES AUTHORIZED DURING REPORT PERIOD	18,808	(11,722)	(0)	0	0	0	0	0	0	0	0	0	0	0	0	9,098	16,185
c2. NON - PERFORMANCE MEASUREMENT BASELINE (End of Period)	1,268,223		11,218	15,035	15,959	0	0	0	0	0	0	0	0	0	0	20,002	1,330,436
7. MANAGEMENT RESERVE																	79
8. TOTAL	3,871,239	0	34,244	46,492	66,046	1,572	1,664	19	0	0	0	0	0	0	53,603	4,074,957	



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 (2019/05/27)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728	b. Phase - Operations	b. To (2019/06/23)
	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** – Unfavorable CM CV is due to a replanning of to the June Reliability Project budget for upgrading the emergency radio system, and also due to intrusion detection upgrades and material purchases that were budgeted earlier in the fiscal year and completed in June.

**3001.01.02 Fire and Emergency** – Unfavorable CM CV is primarily due to seasonal fleet maintenance costs and accelerated acquisition of Hanford Fire Department material procurements.

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

**3001.03.02 Information Systems** – Favorable CM CV is primarily due to the current month point-adjustment for implementation of Contract Modification 810 for definitization of the FY2018 Cost Variance Proposal.

**3001.03.03 Infrastructure/Cyber Security** – Unfavorable CM CV is primarily due to the current month receipt of a procurement planned in a prior month, as well as the current month point-adjustment for implementation of Contract Modification 810 for definitization of the FY2018 Cost Variance Proposal.

**3001.03.05 IR/CM Management** – Unfavorable CM CV is primarily due to the current month receipt of a procurement planned in a prior month.

**3001.04.03 Electrical Systems** – Unfavorable CM CV is primarily due to solar light purchases, planned in April but received in 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 (2019/05/27)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2019/06/23)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NO X YES	
<b>5. Evaluation</b>				
<p><b>3001.04.04 Water/Sewer Systems</b> – Unfavorable CM CV is primarily due to the current month point-adjustment for implementation of Contract Modification 810 to incorporate the definitization of the FY 2018 Cost Variance.</p> <p><b>3001.04.10 Technical Services</b> – Unfavorable CM CV is primarily due to costs for HoloLens procurement and development planned in prior months, as well as the current month point-adjustment for implementation of Contract Modification 810 to incorporate the definitization of FY 2018 Cost Variance.</p> <p><b>3001.04.11 Energy Management</b> – Favorable CM CV is primarily due to the current month point-adjustment for implementation of Contract Modification 810 for definitization of the FY2018 Cost Variance Proposal.</p> <p><b>3001.06.01 Business Operations</b> – Favorable CM CV is primarily due to the delay of Site Mission and Integration’s Knowledge Relay Phase One implementation based on additional requirements. In addition, delays in Site Mission Integration &amp; Analysis (SMI&amp;A)’s Risk and Performance subcontract awards are also reflected in the cost variance.</p> <p><b>3001.06.03 Safety, Health and Quality</b> – Favorable CM CV is primarily due to the current month point-adjustment for implementation of Contract Modification 810 for definitization of the FY2018 Cost Variance Proposal.</p> <p><b>3001.08.03 Electrical System</b> – Primary reasons for an unfavorable CM CV:</p> <ul style="list-style-type: none"> <li>• Project L-801 “Upgrade SCADA”. The unfavorable CM CV is due to misalignment of the subcontractor schedule of values with the MSA’s project schedule.</li> <li>• Project L-789 “Prioritize T&amp;D Sys Wood PP Test &amp; Replace”. The unfavorable CM CV is due to incurring May subcontractor costs in June.</li> </ul> <p><b>Variable Service Pools - Non-PMB</b> – The WBS elements 3001.01.04 – 3001.06.06 represent the usage-based pool, General and Administrative (G&amp;A), and Direct Labor Adder (DLA) accounts. Offsetting liquidation of service to customers occur with WBS 3001.A7.01-3001.A7.03.</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 (2019/05/27)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2019/06/23)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NO X YES	
5. Evaluation				

**3001.A1 – 3001.B1 Non-PMB** – Favorable CM CV is primarily due to a June point adjustment for implementation of Contract Mod 807 for the definitization of the FY 2017 Cost Variance Proposal for WBS 3001.A4 and Mod 814 for the definitization of the FY 2018 Cost Variance Proposal WBS 3001.A4.

**Impacts – Current Month Cost Variance:**

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

**Corrective Action – Current Month Cost Variance:** None

**Current Month Schedule Variance:**

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

- Project L-895 “Fire Protection Infrastructure tor PRW”. The favorable CM SV is due to receiving the procurement of the metal buildings, HVAC units and backup generator ahead of schedule.
- Project L-897 “Central Plateau Water Treatment Facility”. The favorable CM SV is due to a point adjustment to re-plan the project consistent with the scope definitized in contact Mod 794.

**3001.08.03 Electrical System** – Favorable CM SV on project H-006 “10 CFR 851” is due to approval of VRL0201RP-19-026 which incorporated Contract Mod 794 for definitization of this project.

**3001.08.04 Roads and Grounds** – Favorable CM SV is due to project L-859 “1<sup>st</sup> St from Canton Ave to IDF Entrance Rd” starting construction earlier than planned.

**3001.08.05 Facility System** – Favorable CM SV on Project L-796 “Key Facilities Roof Replacements” is primarily due to mobilizing and beginning roofing early. The subcontractor utilized the same crew who worked on a similar roofing project that eliminated the four weeks scheduled for training and submittals.

**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.



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 (2019/05/27)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2019/06/23)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NO X YES	
5. Evaluation				

**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 that was awarded/completed at a lower cost than budgeted.
- Project L-840 "24in Line Replacement from 2901Y to 200W" had savings on construction subcontracts due to the contractor's expertise in this type of construction and encountering significantly less difficult site conditions.
- Projects L-399 "T-Plant Potable & Raw Water Line Rest", L-525 "24-inch Line Replacement from 2901Y to 200W", and L-311 "Refurbish 200W Raw Water Reservoir" 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.

**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:** None.



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 (2019/05/27)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728	b. Phase - Operations	b. To (2019/06/23)
	c. Type CPAF	d. Share Ratio NO X YES	
5. Evaluation			

**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. The vendor experienced April down time to ensure thorough understanding of and accounting for Site conditions. In June, the project placed fieldwork on hold during preparation of a Design Change Notice and Facility Management Plan.
- Project L-895 “Fire Protection Infrastructure for PRW” has a favorable CTD SV primarily due to completed activities performed ahead of schedule on various construction activities including initiating and/or receiving the procurement of the metal buildings, HVAC units and backup generator.
- 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 that 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 that delayed submittal of the 30% design.

**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.

**3001.08.03 Electrical System** – Unfavorable CTD SV is due to the following projects:

- Project L-801, “Upgrade SCADA” - Unfavorable CTD SV 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.
- Project H-006 “10 CFR 851”. Unfavorable CTD SV is because of scheduling delays on breaker maintenance outages that prevented commencing field work activities.



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

1. Contractor	2. Contract		3. Program	4. Report Period
a. Name Mission Support Alliance	a. Name Mission Support Contract		a. Name Mission Support Contract	a. From (2019/05/27)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2019/06/23)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NO X YES	
5. Evaluation				

**3001.08.05 Facility System** – Favorable CTD SV on Project L-796 “Key Facilities Roof Replacements” is primarily due to mobilizing and beginning roofing early. The subcontractor utilized the same crew who worked on a similar roofing project that eliminated the four weeks scheduled for training and submittals.

**3001.08.09 Capital Equipment Not Related to Construction** – Unfavorable CTD SV is primarily due to the Hanford Fire Department planned receipt in May of the 65 foot Telesquirt now scheduled to occur in March 2020.

**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.

**Variance at Complete:**

The current favorable VAC in the Performance Measurement Baseline (PMB) is primarily due to the Affiliate & Overtime credits.

**Impacts – At Complete Variance:**

None.

**Corrective Action - At Complete Variance:**

MSA does not anticipate resolution of the affiliate credit on IT scope during FY 2019.

**Negotiated Contract Changes:**

The Negotiated Contract Cost for June 2019 had an increase of \$5.3M from \$4,069.6M to \$4,074.9M. e. The increase was associated with the Contract Mods 807, 810, and 814 definitizing the Proposal for the FY17 RFS and FY 2018 Cost Variance Proposals.

**Changes in Estimated Cost of Authorized Unpriced Work:**

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



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

<b>1. Contractor</b>	<b>2. Contract</b>		<b>3. Program</b>	<b>4. Report Period</b>
a. Name Mission Support Alliance	a. Name Mission Support Contract		a. Name Mission Support Contract	a. From (2019/05/27)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2019/06/23)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NO X YES	
<b>5. Evaluation</b>				

**Changes in Estimated Price:**

The Estimated Price for June 2019 had an increase of \$1.6M from \$4,237.2M to \$4,238.8M. The Estimated Price includes the Most Likely Management Estimate at Completion (MEAC) of \$4,015.8M and fee of \$223.0M.

**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 \$1.6M from \$4,014.2M to 4,015.8M: The increase in the PMB EAC during June 2019 is primarily due to minor changes in Reliability Projects.

**Changes in Undistributed Budget:**

The Undistributed Budget for this reporting period decreased \$21.3M from \$74.9M to \$53.6M due to Reliability Project related BCRs.

**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 decreased \$10.8M from \$2,755.2M to 2,744.4M. The decrease is primarily due to over reporting \$9.9M in PMB UB, which moved to Non-PMB UB in June.

The following BCRs changed the PMB:

- VMSA-19-017 Rev 8 – Mod 810 - Definitization of FY 2018 Cost Variance Proposal
- VRL0201RP-19-026 – Mod 794, Definitization of H-006, 10 CFR 851 and Move from SWS Undistributed Budget; Delete SWS-UB and Change WBS Titles



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 (2019/05/27)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728	b. Phase - Operations	b. To (2019/06/23)
	c. Type CPAF	d. Share Ratio	
5. Evaluation			

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

- VMSA-19-018 Rev 1 – Move Budget to L-921 Design/Construct from SWS Undistributed Budget Due to MSA Contract Extension
- VMSA-19-026 – Create One Level 4 and Six Level 5 WBSs for L-919, Emergency Radio Upgrades and Move Budgets from Planning Packages PP-L-919 (RL-0201), PP-L-919 (RL-20), Emergency Services Underruns (RL-20) & SWS-UB for Conceptual Design and Design /Construct
- VRL0201RP-19-003 Rev 1 – Move Budget to L-888 Definitive Design from SWS Undistributed Budget
- VRL0201RP-19-012 – Move Budget to L-897, Water Treatment Plant for Definitive Design from SWS Undistributed Budget
- VRL0201RP-19-020 Rev 2 – Extend L-895 Construction from May to November and Move Budget from SWS Undistributed Budget
- VRL0201RP-19-023 – Create One Level 4 & Four Level 5 WBSs for L-839 & Move Budget for Conceptual Design from SWS Undistributed Budget
- VRL0201RP-19-024 – Create One Level 4 and Four Level 5 WBS for H-001, BMS Upgrade for Partial Execution and Move Budget from RP Out-Year Planning Package
- VRL0201RP-19-026 – Mod 794, Definitization of H-006, 10 CFR 851 and Move from SWS Undistributed Budget; Delete SWS-UB and Change WBS Titles
- VRL0201RP-19-027 – Create 9 Level 5 WBSs for Various Project Planning Packages and Move Budgets from SWS-UB to Planning Packages for Contract Extension

**Differences in the Non - Performance Measurement Baseline:**

This reporting period the Non-PMB increased \$16.2M from \$1,314.2 to \$1,330.4M. As identified under Differences in the PMB, \$9.9M was due to over reporting the UB in the PMB and under reporting UB in the Non-PMB.

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 (2019/05/27)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2019/06/23)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NO X YES	
5. Evaluation				

The following BCRs changed the Non-PMB:

- VMSA-19-017 Rev 8 – Mod 810 - Definitization of FY 2018 Cost Variance Proposal
- VMSA-19-017 Rev 9 – Mod 814 – Definitization of FY 2018 Cost Variance Proposal WBS 3001.A4
- VRFS-19-001 – Mod 807 – Definitization of FY 2017 Cost Variance Proposal for WBS 3001.A4

**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 – June 2019					
Account Description	BCWS	BCWP	ACWP	CV	Liquidation
<b>Direct Labor Adder</b>					
Software Engineer Services DLA (3001.03.02.03)	\$2,229.1	\$2,229.1	\$2,017.8	\$211.3	(\$1,977.3)
Content & Records Management DLA (3001.03.01.04)	\$452.3	\$452.3	\$613.3	(\$161.0)	(\$587.7)
Transportation DLA (3001.04.06.02)	\$14,669.7	\$14,669.7	\$4,267.6	\$10,402.1	(\$4,791.2)
Maintenance DLA (3001.04.05.02)	\$15,671.1	\$15,671.1	\$7,406.1	\$8,265.0	(\$7,311.9)
Janitorial Services DLA (3001.04.05.03)	\$1,244.5	\$1,244.5	\$975.4	\$269.1	(\$924.6)
<b>Total Direct Labor Adder</b>	<b>\$34,266.7</b>	<b>\$34,266.7</b>	<b>\$15,280.2</b>	<b>\$18,986.5</b>	<b>(\$15,592.7)</b>

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 – June 2019					
Account Description	BCWS	BCWP	ACWP	CV	Liquidation
<b>Usage Based Services</b>					
Training (3001.01.04.02)	\$26,303.3	\$26,303.3	\$12,172.0	\$14,131.3	(\$13,011.4)
HRIP (3001.02.04.02)	(\$543.5)	(\$543.5)	\$3,055.0	(\$3,598.5)	(\$3,450.0)
Dosimetry (3001.02.04.03)	\$1,248.1	\$1,248.1	\$3,837.7	(\$2,589.6)	(\$4,535.4)
Information Technology Services (3001.03.07.01)	\$26,820.4	\$26,820.4	\$23,317.1	\$3,503.3	(\$23,786.5)
Work Management (3001.04.13.01)	\$1,529.1	\$1,529.1	\$419.5	\$1,109.6	(\$395.4)
Courier Services (3001.04.15.02)	\$154.9	\$154.9	\$163.9	(\$9.0)	(\$162.3)
Occupancy (3001.04.14.06)	\$11,674.2	\$11,674.2	\$7,212.1	\$4,462.1	(\$7,588.1)
Crane & Rigging (3001.04.08.02)	\$15,219.2	\$15,219.2	\$9,001.0	\$6,218.2	(\$8,920.5)
Guzzler Trucks (3001.04.06.03)	(\$167.4)	(\$167.4)	\$-	(\$167.4)	\$-
Fleet (3001.04.07.02)	\$30,855.8	\$30,855.8	\$12,743.2	\$18,112.6	(\$12,691.6)
<b>Total UBS</b>	<b>\$113,094.1</b>	<b>\$113,094.1</b>	<b>\$71,921.5</b>	<b>\$41,172.6</b>	<b>(\$74,541.2)</b>
<b>Total DLA / UBS</b>	<b>\$147,360.8</b>	<b>\$147,360.8</b>	<b>\$87,201.7</b>	<b>\$60,159.1</b>	<b>(\$90,133.9)</b>

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 \$60.2M – June’s favorable cost variance is a result of 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 June 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	846.3	827.7	923.2	(18.6)	(95.4)	0.98	0.90	933.2	992.3	(59.0)	88.7%	11/21/19	11/26/19	Y	G
L-849, Replace 200E 1.1M-gal PW Tank	767.3	492.4	558.7	(274.9)	(66.3)	0.64	0.88	767.3	740.3	27.0	64.2%	11/05/18	11/13/19	R	G
L-894, Raw Water Cross Connection Isolation 200E/W	8,012.4	7,482.3	6,076.8	(530.1)	1,405.5	0.93	1.23	8,012.4	6,202.5	1,810.0	93.4%	5/06/19	1/28/20	R	G
L-895, Fire Protection Infrastructure for Plateau Raw Water	3,025.0	3,417.8	3,978.9	392.8	(561.1)	1.13	0.86	7,573.7	7,610.2	(36.6)	45.1%	11/25/19	12/10/19	Y	G
L-357, Replace 12" Potable Water Line to 222-S Lab	1,635.0	1,432.2	1,265.5	(202.9)	166.6	0.88	1.13	1,654.4	1,564.9	89.5	86.6%	7/15/19	9/03/19	Y	G
L-781, 181D Vertical Turbine Pumps	605.7	284.7	215.7	(321.0)	69.0	0.47	1.32	605.7	558.1	47.6	47.0%	5/23/19	10/21/19	R	G
L-897, Central Plateau Water Treatment Facility	1,966.7	1,926.7	1,726.1	(40.0)	200.6	0.98	1.12	2,484.8	2,446.9	37.9	77.5%	11/25/19	11/25/19	G	G
L-826, 181B Vertical Turbine Pumps	605.7	225.8	213.3	(380.0)	12.5	0.37	1.06	605.7	566.6	39.1	37.3%	5/23/19	10/21/19	R	G
L-853, 200E Sewer Flow Equalization Facility	6,054.1	6,008.1	6,196.4	(46.0)	(188.3)	0.99	0.97	6,054.2	6,342.2	(288.0)	99.2%	1/28/19	9/23/19	R	Y
L-854, 200E Sewer Consolidations	5,960.6	5,716.9	5,422.3	(243.7)	294.6	0.96	1.05	5,960.7	5,794.8	165.9	95.9%	4/16/19	10/09/19	R	G
L-789, Prioritize T&D Sys Wood PP Test & Replace	2,505.6	2,457.3	2,283.7	(48.3)	173.6	0.98	1.08	2,505.6	2,539.8	(34.2)	98.1%	5/23/19	7/29/19	R	G
L-612, 230kV Transmission System Reconditioning and Sustainability Repairs	1,211.4	1,211.4	1,096.3	0.0	115.1	1.00	1.11	1,211.4	1,096.3	115.1	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	85.9	549.5	(640.5)	(463.6)	0.12	0.16	726.4	748.4	(22.0)	11.8%	12/20/18	10/10/19	R	G
L-791, RFL Transfer Trip Upgrades	943.6	898.4	656.3	(45.2)	242.1	0.95	1.37	943.6	762.0	181.6	95.2%	5/23/19	7/25/19	R	G
L-720, Outdoor Lighting Reconfiguration and Repl	203.0	133.4	213.5	(69.6)	(80.2)	0.66	0.62	203.0	259.4	(56.4)	65.7%	5/15/19	10/31/19	R	G
H-006, 10 CFR 851	1,634.2	1,372.9	1,317.9	(261.3)	54.9	0.84	1.04	2,556.2	2,553.8	2.4	53.7%	11/25/19	11/25/19	G	G
L-859, 1st St frm Canton Ave to IDF Entrance Rd	343.8	439.8	478.1	95.9	(38.3)	1.28	0.92	1,195.2	1,187.4	7.8	36.8%	9/23/19	8/29/19	G	G
L-888, 400 Area Fire Station	1,112.9	1,150.1	1,092.9	37.2	57.1	1.03	1.05	1,312.5	1,302.0	10.6	87.6%	11/25/19	11/26/19	Y	G
S-245, Live Fire Shoot House	3,653.2	3,653.0	3,841.2	(0.3)	(188.2)	1.00	0.95	3,653.2	3,843.9	(190.6)	99.99%	10/10/18	7/08/19	R	Y
L-796, Key Facilities Roof Replacements	1,337.1	1,662.6	1,702.8	325.4	(40.3)	1.24	0.98	2,075.3	2,063.6	11.7	80.1%	9/26/19	9/23/19	G	G
L-906, HFD Station 92 Expansion	149.5	24.1	109.8	(125.4)	(85.8)	0.16	0.22	149.5	331.7	(182.3)	16.1%	4/10/19	10/02/19	R	Y
L-905, FARS & RFARS Replacement & Upgrade	100.5	156.2	132.8	55.7	23.5	1.55	1.18	641.9	639.2	2.6	24.3%	11/25/19	11/25/19	G	G
L-921, Telecom Hut at Met Tower	27.5	6.7	21.1	(20.8)	(14.4)	0.24	0.32	128.4	162.5	(34.1)	5.2%	11/25/19	11/25/19	G	G
L-919, Emergency Radio Upgrade	25.0	2.3	2.7	(22.7)	(0.4)	0.09	0.86	4,232.8	4,209.5	23.3	0.1%	11/25/19	1/27/20	R	G
H-001, BMS Upgrade	29.0	26.0	6.0	(3.0)	20.0	0.90	4.34	332.5	309.5	23.0	7.8%	9/30/19	9/30/19	G	G
<b>Total</b>	<b>43,481.5</b>	<b>41,094.6</b>	<b>40,081.6</b>	<b>(2,386.9)</b>	<b>1,013.0</b>	<b>0.95</b>	<b>1.03</b>	<b>56,519.4</b>	<b>54,827.6</b>	<b>1,691.8</b>					

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*: Favorable SV is due to claiming performance on or ahead of schedule on various construction activities, including initiating and/or receiving the procurement of the Variable Frequency Drive metal buildings, HVAC units, and backup generator.
- L-357, *Replace 12" Potable Water Line to 222-S Lab*: Unfavorable SV is primarily due to outage delay to tie-in remaining service connections conflicting with other Hanford contractor operations and delay in final installation of Reduced-Pressure Back-flow Prevention Assemblies (RPBA)s due to redesign of enclosures to accommodate change in end-user requirements.
- L-781, *181-D Vertical Turbine Pumps*: Unfavorable SV is due to delays in awarding the Architecture/Engineering (A/E) design contract and in submitting 30% design due to the inefficient pumping design identified in the preliminary export water (EW) hydraulic analysis.
- L-826, *181-B Vertical Turbine Pumps*: Unfavorable SV is due to delay in awarding the A/E design contract and submitting 30% design due to the inefficient pumping design identified in the preliminary EW hydraulic analysis.
- L-854, *200E Sewer Consolidations*: Unfavorable SV is due to re-planning of pipe installations on Phase(s) 5 and 6 to accommodate the operation schedule of the other Hanford contractors has affected completion of subsequent completion activities.
- L-801, *Upgrade SCADA*: Unfavorable SV is due to the current contract modification because Contracts directed creating a new Request for Proposal (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.

- H-006, *10CFR 851*: Unfavorable SV is because scheduling actual outages for the breaker maintenance are not occurring as planned.
- H-796, *Key Facilities Roof Replacements* : Favorable SV is due to mobilizing and beginning roofing early. The subcontractor utilized the same crew who worked on a similar roofing project that eliminated the four weeks scheduled for training and submittals.
- 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-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 because 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-897, *Central Plateau Water Treatment Facility*: Favorable CV is because of performance on Design and design Support activities planned in prior periods.
- L-853, *200E Sewer Flow Equalization Facility*: Unfavorable CV is attributable to complexity of construction activities that increased labor, training, fleet 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 the fixed price subcontract was awarded for less than the planned value.
- L-801, *Upgrade SCADA*: Unfavorable CV is because performance deferred until schedule analysis completed.
- L-791, *RFL Transfer Trip Upgrades*: Favorable CV is because the fixed price subcontract was awarded for less than the planned value.
- S-245, *Live Fire Shoot House*: Unfavorable CV is because costs from the City of Richland (WA) to modify power to the site, additional change orders, training expenses, and additional project support not captured in the baseline.

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

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







## 9.0 BASELINE CHANGE REQUEST LOG (BCR)

Baseline Change Request Log for June 2019.

Fifteen Baseline Change Requests (BCRs) were processed in June.

Four BCRs Authorized by a Contract Modification or RL Direction:

- VMSA-19-017 Rev 8 – Mod 810 - Definitization of FY 2018 Cost Variance Proposal
- VMSA-19-017 Rev 9 – Mod 814 – Definitization of FY 2018 Cost Variance Proposal WBS 3001.A4
- VRL20-19-002 – Move Budget from SWS-UB to ES and IM for Additional RL-20 CBAG Rev 3 Scope
- VRFS-19-001 – Mod 807 – Definitization of FY 2017 Cost Variance Proposal for WBS 3001.A4

Nine BCRs related to Reliability Projects:

- VMSA-19-018 Rev 1 – Move Budget to L-921 Design/Construct from SWS Undistributed Budget Due to MSA Contract Extension
- VMSA-19-026 – Create One Level 4 and Six Level 5 WBSs for L-919, Emergency Radio Upgrades and Move Budgets from Planning Packages PP-L-919 (RL-0201), PP-L-919 (RL-20), Emergency Services Underruns (RL-20) & SWS-UB for Conceptual Design and Design /Construct
- VRL0201RP-19-003 Rev 1 – Move Budget to L-888 Definitive Design from SWS Undistributed Budget
- VRL0201RP-19-012 – Move Budget to L-897, Water Treatment Plant for Definitive Design from SWS Undistributed Budget
- VRL0201RP-19-020 Rev 2 – Extend L-895 Construction from May to November and Move Budget from SWS Undistributed Budget
- VRL0201RP-19-023 – Create One Level 4 & Four Level 5 WBSs for L-839 & Move Budget for Conceptual Design from SWS Undistributed Budget
- VRL0201RP-19-024 – Create One Level 4 and Four Level 5 WBS for H-001, BMS Upgrade for Partial Execution and Move Budget from RP Out-Year Planning Package
- VRL0201RP-19-026 – Mod 794, Definitization of H-006, 10 CFR 851 and Move from SWS Undistributed Budget; Delete SWS-UB and Change WBS Titles



- VRL0201RP-19-027 – Create 9 Level 5 WBSs for Various Project Planning Packages and Move Budgets from SWS-UB to Planning Packages for Contract Extension

Two BCRs were Administrative in Nature:

- VMSA-19-004 Rev 8 – Administrative BCR – Create Lower Level Task Order (LLTO) WBSs for Cost Collection Established in the Month of June
- VMSA-19-031 – Create a Level 4 & 5 WBS for MSC Outgoing Transition and Move Budget from Reliability Project Out-Year Planning Package

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
<b>Prior PMB Total</b>	<b>May 2019</b>	1,230,506		1,230,506	1,230,506	484,842		1,515,624		2,746,130	2,746,130
VMSA-19-004 Rev 8						0		0		0	2,746,130
VMSA-19-017 Rev 8						(1,492)		(1,492)		(1,492)	2,744,638
VMSA-19-018 Rev 1						(38)		0		0	2,744,638
VMSA-19-026						(109)		0		0	2,744,638
VMSA-19-031						500		0		0	2,744,638
VRL20-19-002						0		0		0	2,744,638
VRL0201RP-19-003 Rev 1						(34)		0		0	2,744,638
VRL0201RP-19-012						(184)		0		0	2,744,638
VRL0201RP-19-020 Rev 2						(1,985)		0		0	2,744,638
VRL0201RP-19-023						(80)		0		0	2,744,638
VRL0201RP-19-024						333		0		0	2,744,638
VRL0201RP-19-026 (delete SWS-UB)						(196)		(196)		(196)	2,744,441
VRL0201RP-19-026 (move SWS-UB to H-006)						(163)		0		0	2,744,441
VRL0201RP-19-027						0		0		0	2,744,441
<b>Revised PMB Total</b>	<b>Jun 2019</b>	1,230,506		1,230,506	1,230,506	481,392		1,513,936		2,744,441	
<b>Prior Non-PMB Total</b>	<b>May 2019</b>	604,007		604,007		264,430		719,344		1,323,350	1,323,350
VMSA-19-017 Rev 8						(7,166)		(7,166)		(7,166)	1,316,184
VMSA-19-017 Rev 9						6,212		6,212		6,212	1,322,396
VRFS-19-001						8,040		8,040		8,040	1,330,436
<b>Revised Non-PMB Total</b>	<b>Jun 2019</b>	604,007		604,007		271,516		726,430		1,330,436	
<b>Total Contract Performance Baseline</b>	<b>Jun 2019</b>	1,834,513		1,834,513	1,834,513	752,908		2,240,366		4,074,878	
<b>Management Reserve</b>	<b>May 2019</b>		0	0			79		79	79	79
<b>Revised Management Reserve</b>	<b>Jun 2019</b>		0	0			79		79	79	
<b>Total Contract Budget Base</b>	<b>Jun 2019</b>			1,834,513				2,240,444		4,074,957	
<b>Prior Fee Total</b>	<b>May 2019</b>	109,961		109,961		23,006		113,005		222,965	222,965
VRL0201RP-19-026						135		154		154	223,119
<b>Revised Fee Total</b>	<b>Jun 2019</b>	109,961		109,961		23,141		113,158		223,119	
<b>Change Log Total</b>	<b>Jun 2019</b>			1,944,473				2,353,603		4,298,076	



## 10.0 RISK MANAGEMENT

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

- 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: A risk register review was held with MSA Emergency Services (ES). Revisions to the associated risk registers were captured as appropriate.
- Project Risk Management:
  - Monte Carlo Quantitative Risk Analysis: Risk Management completed the Preliminary quantitative risk analyses for Project L-839, *12" Potable Water Loop-Line to WTP (DFLAW Priority)*. The final analysis was put on hold, due to the limited amount of scope that will be completed within the MSC period of performance.
  - 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:
  - Risk Register Replacement Software Initiative: Enterprise Risk Opportunity Management System (EROMS) functionality coding and acceptance testing for the multi-tenant version (v2.5) was completed. This version is scheduled to be released in early July 2019.
  - EROMS Governance Board: In support of the EROMS-GB, a SharePoint<sup>4</sup> site was set up to house all relevant documentation for this board.

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<sup>4</sup> SharePoint is a web-based collaborative platform (freeware), developed by the Microsoft Corporation, Redmond, WA



Additionally, the associated e-mail address was set up to allow for submittal of EROMS software change requests.

- Business Management System (BMS): MSA Risk Management supported the testing of the new sitewide quantitative risk software in the Hanford Local Area Network environment to support training planned in early July 2019.
- Budget Exercise Support: MSA Risk Management supported the resubmittal of the FY19 Integrated Investment Portfolio (IIP) budget deliverable.
- The Risk Management Board materials were provided via email for members to review the overall company risk posture associated with May data reflecting the efforts detailed above. The following items were approved:
  - Fifteen new Reliability Project risks: One for Project L-801, *Upgrade SCADA*; seven for Project L-879, *Inlay Cypress Street (Route 4S to GW Way Ext)*; and seven for Project L-534, *Inlay Interior 200 East Roads*.
  - Three new Project Risk Handling Plans: One for Project L-897, *200 Area Water Treatment Plant (DFLAW Essential)*; and two for Project L-895, *Fire Protection Infrastructure for Plateau Raw Water*.
  - Ten Project Risks were significantly re-characterized: Four related to Project L-905, *Fire Alarm Report System (FARS) and Radio Fire Alarm Reporter (RFARS) Replacement and Upgrade*; two related to Project L-781, *181D Vertical Turbine Pumps, Header, Instrumentation, Commission*; one related to Project L-826, *181B Vertical Turbine Pumps, Header, Instrumentation, Commission*; two related to Project L-897, and one related to Project L-895.
  - Two Project Risks were closed: one each related to Projects L-791, *RFL Transfer Trip Upgrades*; L-849, *Replace 200E 1.1M gallon PW tank*.
- Risk Reporting – In June, 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 May data reflecting the efforts detailed above.



## 11.0 DASHBOARD SUMMARY

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

June FY 2019 Fiscal Year 2019 PEMP						
Deliverables			Due Date	YTD	Jun	
<b>1.0 Effective Site Cleanup - Achievement of cleanup contractors' key milestones and regulatory commitments</b>						
1.1	Demonstrate that the following performance measure targets were met.			9/30/2019	█	█
	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 Red for the reporting period, due to an Issue Identification Form (IIF) system issue. This has been determined to be a negative trend so a Causal Analysis is being performed to determine the corrective actions necessary to prevent recurrence.



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

June FY 2019 Fiscal Year 2019 PEMP					
Deliverables			Due Date	YTD	Jun
<b>1.0 Effective Site Cleanup - Achievement of cleanup contractors' key milestones and regulatory commitments</b>					
1.2	Water	Demonstrate effective management of electric, water and sewer utilities to maximize reliability and redundancy	9/30/2019		
		Maintain Raw Water Pressure at 110 – 130 PSI	9/30/2019		
		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	1/25/2019		
		Quarterly System Health Report January - March	4/25/2019		
		Quarterly System Health Report April - June	7/25/2019		N/A
	Sewer	Perform Preventative maintenance at 90% or better each month	9/30/2019		
		Maintain backlog corrective maintenance average age of open work packages to 300 days or less			
		Quarterly System Health Report October - December	1/25/2019		
		Quarterly System Health Report January - March	4/25/2019		
		Quarterly System Health Report April - June	7/25/2019		N/A
	Electric	Electrical power availability	9/30/2019		
		Perform Preventative maintenance at 90% or better each month			
		Reduce corrective maintenance backlog identified as of October 1, 2018 by 65% no later than September 30, 2019			
Quarterly System Health Report October - December		1/25/2019			
Quarterly System Health Report January - March		4/25/2019			
Quarterly System Health Report April - June	7/25/2019		N/A		
1.3	Demonstrate effective development and management of reliability projects that assure mission milestones and regulatory commitments are met		9/30/2019		
	a	L-894, Raw Water Cross Connections - Complete construction of the cross tie line.	4/8/2019		
	b	L-897, Central Plateau Water Treatment Facility (DFLAW Essential) - Complete 90% of design.	4/30/2019		
	c	L-850, Replace 200W 1.1M-gal PW tank (DFLAW Essential) - Complete 100% of design.	3/1/2019		
	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	4/30/2019		
	e	L-357, Obtain signed Construction Completion Document (CCD) for water line at 222-S Complex	8/12/2019		
	f	L-859, Obtain signed Construction Completion Document (CCD) for first street rebuild from Canton Ave to IDF entrance intersection	9/30/2019		
	g	L-854, Obtain signed Construction Completion Document (CCD) for 200E Sewer Consolidations	7/15/2019		

**LEGEND**

= On Schedule

= Objective missed

= Not Applicable (Updated quarterly)

= Complete

= In jeopardy



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

June FY 2019 Fiscal Year 2019 PEMP					
Deliverables			Due Date	YTD	Jun
<b>2.0 Efficient Site Cleanup - Align resources and capabilities to support the site cleanup mission</b>					
2.1	Maximize efficient MSA use of resources to meet the other Hanford contractors' changing project needs.		9/30/2019		
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.		9/30/2019		
	a	Through the CLC and CIB processes, provide DOE-RL with an unfiltered, forward looking view of emerging operational, budget, regulatory, or contractual issues.	9/30/2019		
	b	Conduct Operational Excellence Events: 40% of MSA's FY19 Operational Excellence events will be focused on crosscutting inter-contractor Site Integration opportunities.	9/30/2019		
	c	Full implementation of the MSA Assurance system to cover Operations, Financial, Maintenance, Work Management, Emergency Management, Safety and Environmental.	5/25/2019		
	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.	9/30/2019		
	e	Prepare Transition Plan for contract turnover,	2/28/2019		
	f	Prepare Closeout Plan for MSC closeout. Support activities associated with Contract Closeout (subcontracts, incurred cost submissions/audits, accounting reconciliations, etc.).	4/1/2019		
	One Hanford Approach and End States		9/30/2019		
	g	1) Develop draft integrated Hanford life cycle schedule and brief RL	7/31/2019		
		2) Develop integrated Hanford Life Cycle Cleanup Baseline (HLCCB) key assumption list and submit to RL.	7/31/2019	N/A	
		3) Develop integrated Hanford site 2030 storyboard "placemat" and submit to RL.	7/31/2019		
		4) Coordinate and develop the Hanford Integrated Priority List (HIPL)	9/30/2019		
	h	Improving Services Through Efficiency and Technology - Implement Site Integrated Risk Management software	9/30/2019	N/A	
	Implement DOE Integrated Contractor Assurance System (iCAS)		7/31/2019		
	i	1) DevonWay Software Acquisition, Objective 1: MSA will obtain and activate the DevonWay software suite "subscription".		7/16/2019	
2) DevonWay Software Training, Objective 2: MSA Performance Oversight personnel will train on the use of the DevonWay software suite.		7/31/2019	N/A		
3) DevonWay Software Configuration, Objective 3: MSA Performance Oversight personnel will begin process mapping to identify required reconfiguration of the "baseline" DevonWay software suite to meet MSA's needs.		7/31/2019			
j	Develop and deploy new cloud-based sitewide Learning Management system	9/30/2019	N/A		
k	Develop an integrated Hanford resource webpage to provide streamlined access to multi-contractor and DOE hazard communication and information resources.	9/30/2019	N/A		
l	Create a draft Hanford Site Unmanned Aerial Vehicle (UAV) Program Plan for DOE review	7/31/2019	N/A		
m	Complete the pilot development and field demonstration of the HoloLens technology.	9/30/2019	N/A		

**LEGEND**

= On Schedule

= Objective missed

N/A = Not Applicable (Updated quarterly)

= Complete

= In jeopardy



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

June FY 2019 Fiscal Year 2019 PEMP					
Deliverables			Due Date	YTD	Jun
<b>2.0 Efficient Site Cleanup - Align resources and capabilities to support the site cleanup mission</b>					
2.3	Demonstrate consolidation of the Hanford Site infrastructure footprint		9/30/2019	N/A	
	a	Eliminate 339a as a data center; 339a will store equipment & contain passive fiber cross-connect. Move all HLAN servers and storage to alternate locations including G4 & FPU locations; Move backbone routers and ISP service interfaces to Building 1220.	9/30/2019		
	b	Transformer downsize at 242-BL; Downsize 3 phase bank 112.5kVA to 30kVA.	9/30/2019		
	c	11-mile pole removal	9/30/2019		
	d	Remove 2 10kVA services to Navy SALT Site and 618-7 (with MO420) in the 300 Area.	9/30/2019		
	e	Consolidate MO-730 holding tank to 6607-11. Remove holding tank and tie sewer to septic tank and drain field	9/30/2019		
	f	Remove sewer system drain field from service at 182B	9/30/2019		
	g	U Plant disconnect 1 of 3 services	9/30/2019		
	h	Phase 1 Riverland Feeder line removal, to include removal of conductor and hardware	9/30/2019		
	i	Remove 14 abandoned light fixtures at A9 (WO 503634)	9/30/2019		
j	Remove 2 old guard rails from 7th & Baltimore - ~75 feet total	9/30/2019			
<b>TOTAL OBJECTIVE FEE POOL</b>					
<b>3.0 Comprehensive Performance</b>					
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.			9/30/2019		
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					
<b>TOTAL SUBJECTIVE FEE POOL</b>					
<b>TOTAL FEE POOL* (Adjusted for Contract Modifications: n/a)</b>					

**LEGEND**

= On Schedule

= Objective missed

= Not Applicable (Updated quarterly)

= Complete

= In jeopardy

## 12.0 CONTRACT DELIVERABLES STATUS

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

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

CDRL	Deliverable	Responsible	Date Due	Date Submitted to DOE	Action	Response Time	Date Due from DOE	Date Approved by DOE
CD0047	Radiological Assistance Program Response Plan for RAP Region 8	Walton	06/01/19	05/30/19	Approve	60 days	07/29/19	
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	06/27/19				
CD0123	Monthly Billing Reports for DOE Services - May	Eckman	06/05/19	06/05/19				
CD0144	Monthly Performance Report - Apr	Olsen	06/10/19	06/05/19				
CD0083	Annual Electrical Load Forecasts	Synoground	06/15/19	06/11/19				
CD0084	Bonneville Power Administration (BPA) Power and Transmission Service invoice verification and breakdown of site contractor costs - Apr	Synoground	06/30/19	06/27/19				
CD0129	Content (Records) Management Security Plan	Eckman	06/30/19	06/26/19	Approve	45 days	08/10/19	
CD0169	Hanford Site Interface Management Plan	Von Bargaen	06/30/19	06/06/19	Approve	30 days	07/06/19	
CD0088	Electrical Metering Plan Progress Report	Synoground	07/01/19	07/01/19				
CD0042	Annual Field Emergency Preparedness Evaluation Exercise Report	Walton	07/03/19	07/03/19	Approve	45 days	08/17/19	
CD0051	Milestone Review and IAMIT Meeting Minutes - May	Wilson	07/05/19					
CD0123	Monthly Billing Reports for DOE Services - Jun	Eckman	07/05/19	07/01/19				
CD0124	Quarterly Service Level Report	Eckman	07/10/19	07/10/19				
CD0144	Monthly Performance Report - May	Olsen	07/10/19	07/10/19				
CD0178	Quarterly Manpower Reports and Budget Forecasts	Walton	07/16/19	07/08/19				
CD0023A	National Security System (NSS) - Quarterly Status Report	Walton	07/23/19					
CD0084	Bonneville Power Administration (BPA) Power and Transmission Service invoice verification and breakdown of site contractor costs - Jul	Synoground	07/30/19					
CD0034	Annual Training Needs Forecast and Plan	Metzger	07/31/19					

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.