

# MISSION SUPPORT ALLIANCE

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



## Monthly Performance Report December 2018

**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.....	6
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.....	28
8.0	RELIABILITY PROJECT STATUS .....	30
9.0	BASELINE CHANGE REQUEST LOG (BCR) .....	37
10.0	RISK MANAGEMENT .....	41
11.0	DASHBOARD SUMMARY .....	43
12.0	CONTRACT DELIVERABLES STATUS .....	46
12.1	Government-Furnished Services/Information and DOE Decisions .....	47
13.0	SELF-PERFORMED WORK.....	48



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 December 2018.

### 1.1 KEY ACCOMPLISHMENTS

**1.1 Million Safe Work Hours Achieved** – During December, MSA’s Safeguards and Security (SAS) organization surpassed 1.1 million safe work hours without a lost workday injury. This achievement is exceptional considering some of the high-risk activities performed by SAS, and showcases the organization’s commitment to safety.

**Implementation of Contract Modification 760** –In December, Program Controls personnel implemented five BCRs related to Contract Modification 760, “Incorporates MSA Letter MSA-1804933 Request for Not to Exceed (NTE) Increase in Contract Value.” The full value of the modification is \$241M and the BCRs processed this month incorporated \$237M associated with the FY 2017, FY 2018, and FY 2019 Cost Variance and Request for Equitable Adjustment proposals. The remaining \$4M is specifically associated with new scope and will be incorporated during the month of January 2019. Prior to this contract modification, MSA’s contract value was estimated to run out on December 20, 2018. With the receipt and implementation of this modification, MSA will have sufficient contract value through the remainder of the current Mission Support Contract (May 2019).

**Access Layer Upgrade Complete** – Reliability Project Investment Portfolio (RPIP) project ET-51, *HLAN Network Upgrade – Phase 2a*, consists of upgrading access layer network switches in various Hanford facilities. Switch installations were completed on December 11, 2018. A total of 854 switches were installed. The baseline date for completing installation was December 31, 2018; the installations were completed 20 days ahead of schedule. Project closeout activities are forecasted to complete in early March.

**2019 Hanford Lifecycle Scope, Schedule and Cost Report (Lifecycle Report)** – The final report, Contract Deliverable CD0187b, was submitted to DOE ahead of schedule on December 27, 2018. The report is submitted by DOE to the U.S. Environmental Protection Agency (EPA), and the State of Washington, Department of Ecology in



accordance with milestone, M-036-01I, *Submit to EPA & Ecology Lifecycle Scope, Schedule & Cost Report*, that requires the annual submittal of a Lifecycle Report by January 31<sup>st</sup>. The Lifecycle Report summarizes the remaining work scope, schedule and cost estimates for the Hanford Site cleanup.

**Fiscal Year (FY) 2019 Integrated Infrastructure Portfolio (IIP) Guidance – MSA** received the *Contract/Baseline Alignment Guidance (CBAG) Rev. 2* from RL on November 20, 2018. This revision included a significant increase to Infrastructure Reliability Projects and other minor increases associated with Safeguards and Security, the Volpentest HAMMER Federal Training Center (HAMMER), and B-Reactor. During December, MSA Program Controls staff implemented 21 BCRs and 27 Transactional Requests (TRs), most of them related to the revised CBAG guidance. In January 2019, Program Controls will incorporate final changes to the IIP narratives and documentation, and will submit an updated Fiscal Year (FY) 2019 IIP by January 23, 2019.

**Transition of B Reactor** – RL has authorized MSA to provide support on transition/reassignment of Hanford Manhattan Project National Historical Park facilities and lands from the DOE Office of Environmental Management (EM) to the DOE Office of Legacy Management (LM). On December 11-13, 2018, MSA supported this effort with a site visit and a workshop with LM personnel. MSA subject matter experts on the B-Reactor, Cultural Resources, Emergency Operations, Roads, Interface Management, Land Management, and Long-Term Stewardship participated in the meetings with RL and LM.

**Early Project Notification Packages** – On December 11, 2018, working with MSA Projects staff, MSA Interface Management personnel distributed 11 early notification packages to CH2M HILL Plateau Remediation Company (CHPRC) and Washington River Protection Solutions LLC (WRPS) Interface Management employees. The purpose of the early notification packages was to notify WRPS and CHPRC as early as possible of the MSA infrastructure projects that they can expect to see in the near future. The early notification packages include project-specific information such as project scope, site maps, interference analysis, Waste Information Data System (WIDS) site maps, and utility systems maps. In the future, MSA will distribute the early notification packages on a quarterly basis.

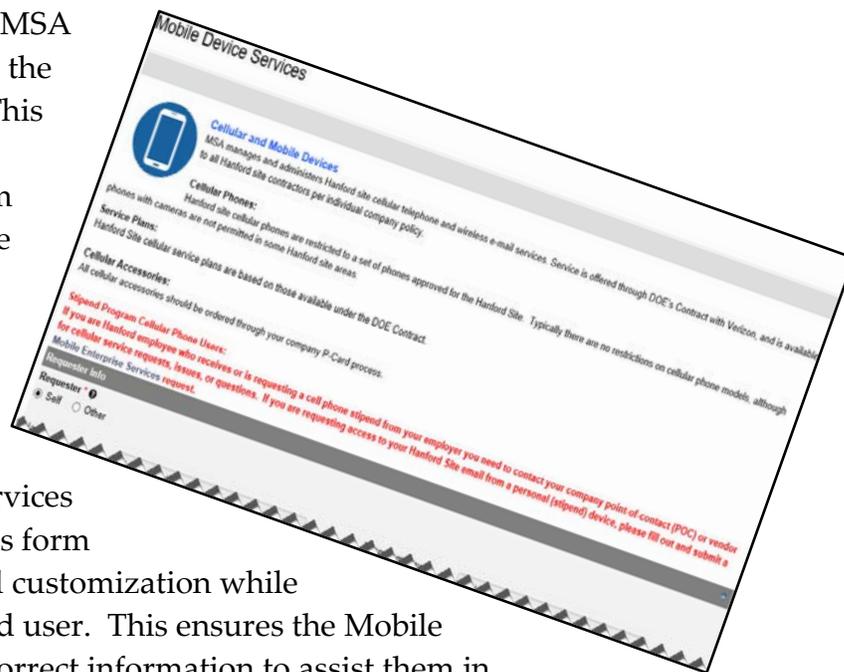
**Mission Service Desk Migration** – MSA Software Engineering Services (SES) successfully migrated the Mission Service Desk (MSD) to the Case Management module in the Enterprise Service Platform (ESP). The change in ticketing systems allows the

Mission Service Desk to give customers more access and visibility into their service requests by utilizing the ticket details page in the ESP. Having the Service Desk in the ESP also allows flexibility and transparency with the teams that have already migrated to using it as their end user support and tracking tool.

**New Vulnerability Scanning System Deployed** – The new vulnerability scanning system, *Tenable Security Center*<sup>1</sup> (TSC), with updated custom software “ReportLoader,” was successfully deployed to production Wednesday, December 19, 2018. The original vulnerability scanning system was set to expire on December 31, 2018. The new TSC solution will provide both the current functionality plus additional capability for insight into our network. This should facilitate improved vulnerability resolution on the Hanford Local Area Network (HLAN).

### Mobile Device Form Created – MSA

SES staff placed into production the Mobile Device Services form. This form replaces what was in the Service Catalog to get work from an end user to the Mobile Device Services group at the Mission Service Desk. The migration of the Mission Service Desk to the Enterprise Service Platform (ESP) also included migrating the Mobile Device Services team from Remedy<sup>2</sup> to ESP. This form provides more functionality and customization while processing a request from an end user. This ensures the Mobile Device team gets accurate and correct information to assist them in supporting their customers more efficiently.



**Cisco<sup>3</sup> Unified Communications Manager (CUCM) Upgrade** – During December, the CUCM Hanford site telephone system was upgraded from version 10.5 to 11.5. The upgrade was successful with minimal downtime of the phone system for the users.

<sup>1</sup> Tenable, Inc., of Columbia, Maryland, provides software used to manage security policies and scan for vulnerabilities.

<sup>2</sup> Remedy Corporation, a software company that produced the various action request applications, is now the Service Management Business Unit of the BMC Software Company, Houston, Texas.

<sup>3</sup> Cisco Systems, Inc., an American multinational technology conglomerate headquartered in San Jose, California.

The upgrade contained needed patches and security updates. Complete functionality of the phone system was subsequently tested with success.

**Revegetation for 618-10 Area** – Due to unusually mild winter conditions, Hanford Site revegetation efforts of the 618-10 Area were able to continue through the month of December.

Approximately 40 percent of the plants are in the ground, with all mechanical work completed.

Access control and contact information signage at the entrance was updated, and will stay in place until all revegetation activities are completed in mid-January.



*Revegetated areas in progress*

**Repair of Potable Water Lines** – On December 8, 2018, pipefitters, heavy equipment operators, teamsters, riggers, and a crane operator completed an Expedited Repair Maintenance Activity work package to excavate and repair a leaking potable water line to the MSA Fleet Services' 2711EB facility.

Also on December 8, 2018, MSA Maintenance Services workers completed repairs to a two-inch potable water line that provides service to six other facilities – Mobile Office (MO)284, MO158, MO282, MO283, MO2522 and MO159. Once MSA Water Utilities staff performed a leak check and took bacterial samples for analysis, service was restored on December 11, 2018, and the excavation area was backfilled.



*Repair of two-inch potable water line in progress*



**Artificial Burrows** – During December, MSA’s Environmental Integration Services (EIS) personnel supervised the installation of six burrowing owl artificial burrow systems north of Highway 240 on the Hanford Site. These burrows are the result of environmental compensatory mitigation incurred by the Plutonium Uranium Extraction Plant (PUREX) Tunnel 2 Stabilization Project. These artificial burrows will provide nesting habitats for burrowing owls (*Athene cunicularia*), a State Candidate species of migratory bird whose nesting population has been declining on the Hanford Site. The burrows will be monitored for occupancy starting in spring 2019.

**Seismic Monitoring** – *The Hanford Seismic Report* for FY 2018 is complete, and posted on the Pacific Northwest Seismic Network (PNSN) website. The report, authored by the University of Washington (UW) PNSN, documents the locations, magnitudes, and seismic interpretations of earthquakes recorded for the Hanford monitoring region of south-central Washington during FY 2018. The focus of this report is the precise location of earthquakes and explosions proximal to, or on, the Hanford Site. The seismic data are used to support Hanford Site contractors for waste management activities, natural phenomena hazards assessments, and engineering design and construction. MSA manages seismic monitoring for the Hanford Site, with the monitoring work being performed under a subcontract with UW PNSN.

**Yakima Barricade Support** – In coordination with the Hanford Fire Department and MSA Motor Carrier Services, MSA’s Safeguards and Security personnel installed a new cable gate adjacent to the Yakima Barricade on December 27, 2018. The new gate will provide needed entrance and exit for oversized heavy equipment used for firefighting on the Site.

**Contractor Assurance Support** – MSA continued to provide subject matter expertise to RL by supporting the following areas:

- Completed Integrated Oversight and Integrated Issues Management procedures for inclusion in the DOE Procedure Management System. Procedures were reviewed the week of December 10, 2018.
- Developed Integrated Contractor Assurance System (iCAS) Training Center materials.
- Reviewed integrated “Procedure on Procedures” and provided input to RL.
- Met with RL and the DOE Office of River Protection (ORP) Requirements Management Kaizen team in development/finalization of the team charter and approach.



**Slip Simulator Training for DOE Nuclear Safety Division** – On December 19, 2018, the Volpentest HAMMER Federal Training Center (HAMMER) provided Slip Simulator training for members of DOE's Nuclear Safety Division. Participants learned proper techniques for walking on slippery surfaces in a safe, controlled environment. This kinesthetic training helps improve stability, and can reduce the occurrence of slips and falls by up to 70 percent.

**Employee Assistance Program (EAP) Programs** – In partnership with MSA's Marketing group, MSA Human Resources personnel helped create and distribute materials meant to raise awareness of the Employee Assistance Program (EAP), and services that are available to site employees and their families. Counseling services, financial and legal advice, family support, and other services are available through the EAP.

## 1.2 LOOK AHEAD

**National Environmental Policy Act (NEPA) Project Files Coming to IDMS** – MSA Environmental Integration Services (EIS) is in the process of defining the file structure for the development of a centralized NEPA project files area on the records side of the Integrated Document Management System (IDMS). EIS will serve as the Buyers' Technical Representative over a subcontractor who will support the NEPA project files area. This area in IDMS will facilitate compilation of an administrative record in the event DOE issued regarding any of their NEPA decisions on projects.

**Hanford Life Cycle Clean-up Baseline (HLCCB) Project Status** – In December, the HLCCB project initiated routing of the Project Execution Plan (PEP) for DOE concurrence. Additionally, the first Integrated Project Team (IPT) meeting was held, which included member concurrence of the IPT charter. The next IPT meeting is planned for the beginning of January. The intent of the meeting is to finalize near term deliverables, the detailed project execution schedule, and IPT working group members from Hanford site contractors and DOE. Currently, the draft HLCCB is planned for completion by September 2019.

**HAMMER Prepares for Surge in Site Electrical Training Demand** – HAMMER is preparing for a significant increase in electrical training demand this 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.

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	\$201.2	\$201.2	\$(1.8)	\$203.0
RL-0020	Safeguards & Security	\$87,896.6	\$24,850.7	\$18,215.9	\$6,634.8
RL-0040	Reliability Projects/HAMMER/ Inventory	\$3,672.0	\$3,672.0	\$1,509.8	\$2,162.2
RL-0201	Hanford Site-Wide Services	\$72,709.0	\$25,191.2	\$14,450.2	\$10,741.0
RL-0041	B Reactor	\$3,298.5	\$3,298.5	\$-	\$3,298.5
SWS	Site-Wide Services	\$213,139.1	\$67,090.0	\$41,033.2	\$26,056.8
<b>Total</b>		<b>\$380,916.4</b>	<b>\$124,303.6</b>	<b>\$75,207.3</b>	<b>\$49,096.3</b>

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

\*\* Funds received through Contract Modification 766, dated January 15, 2019.

Based upon FY 2019 forecast the remaining uncOSTed carryover balance will fund SWS through February 11, 2019, and RL-20 through January 23, 2019.



## 3.0 SAFETY PERFORMANCE

During the month of December, MSA experienced one injury that is classified as “Recordable.” As a result, the fiscal year 2019 Total Recordable Case (TRC) rate is 0.40 and the Days Away, Restricted or Transferred (DART) rate is 0.20. Both rates are below the DOE performance measurement baseline of 1.1 and 0.60, respectively. Ten First Aid cases were recorded, which is higher than the average for a given month. Year to date, it appears that body motion has contributed to a majority (35 percent) of the First Aid injuries. As 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. MSA will continue to analyze all injury data to determine if commonalities or trends exist.



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**

	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18
Monthly Recordable Cases	0	0	1	2	1	1	1	0	1	1	0	1
Monthly TRC Rate	0.00	0.00	0.43	1.17	0.53	0.61	0.62	0.00	0.49	0.65	0.00	0.60
Performance (3-m Average)	0.40	0.20	0.18	0.52	0.68	0.76	0.58	0.36	0.33	0.34	0.37	0.40
Performance (12-m Average)	0.66	0.60	0.60	0.65	0.64	0.65	0.65	0.54	0.46	0.46	0.41	0.41

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

**Leading Indicator Description**  
TRC is a lagging indicator.

**Performance Indicator Information**

PI Owner:	Lanette Adams
Data Analyst:	Ron Wight
Data Source:	MSMET
PI Basis:	MSC-PLN-WP-003, Sect. 4.0
Date:	1/4/2019

**FY19 = 0.40    CY18 = 0.41**

**Total Recordable Case (TRC) Rate**

**Analysis**  
During the month of December there was one injury classified as Recordable. The injury occurred when an employee was performing a work task, bent over to pick up an item and struck their head on an object when standing back up. The employee received stitches as treatment.  
2018 FY Recordable Cases: 10 (TRC = 0.46)  
2017 FY Recordable Cases: 14 (TRC = 0.67)

- Types of injuries MSA has experienced during FY 2019 that were classified as Recordable:
  - overexertion (1), struck against (1)
- Body parts that have been affected FY2019:
  - arm (1), head (1)

**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 minor injury reporting.
- Initiated activities, such as procurements for Personal Protective Equipment (PPE), and awareness communications in preparation for cold weather and other seasonal changes.
- Launched a new campaign to increase awareness of workplace hazards and safety inspections for all employees.
- Issued Weekly Safety Starts which focused on winter hazards such as walking, driving, and eye care.
- Delivered the last inspection module in support of the safety inspection campaign that meets an MSA 2018 Safety Improvement Plan (SIP) goal of improving work area conditions and increasing employee participation in safety & health inspections. Employees are expected to perform an inspection of their work environment utilizing the tools they learned from the safety inspection modules and work group discussions.

**Additional Info**  
None

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

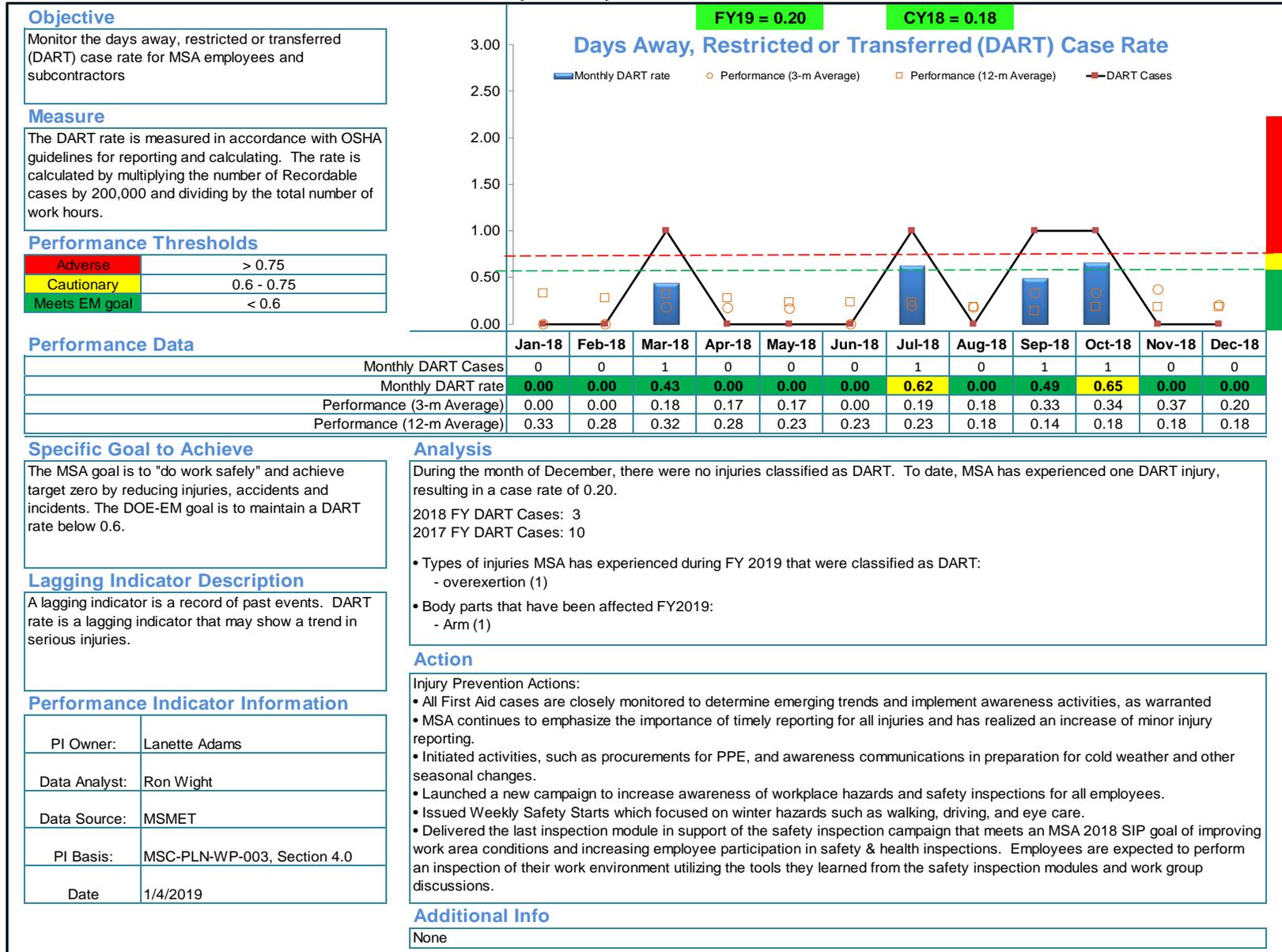




Table 3-3. First-Aid Case Rate

Objective		FY19 = 5.20      CY18 = 4.22											
Monitor the number of First Aid cases and rate as a leading indicator to DART and 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		Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18
First Aid Cases		9	9	7	6	9	4	11	6	6	9	7	10
Monthly First Aid Rate		6.19	5.12	3.03	3.50	4.74	2.44	6.79	2.56	2.92	5.82	3.89	6.04
Performance (3 month Average)		5.36	5.32	4.53	3.80	3.71	3.62	4.65	3.75	3.82	3.53	4.07	5.20
Performance (12 month Average)		5.77	5.62	5.57	5.49	5.44	5.04	5.18	4.82	4.67	4.29	4.17	4.27
Specific Goal to Achieve													
The goal is to "do work safely" and achieve target zero by reducing injuries, accidents and incidents while encouraging reporting of all minor injuries.													
Leading Indicator Description													
Non-reportable precursors are a leading indicator to reportable events. An increase in the number of First Aid cases could indicate a potential increase of more significant events.													
Performance Indicator Information													
PI Owner:	Lanette Adams												
Data Analyst:	Ron Wight												
Data Source:	MSMET												
PI Basis:	MSC-PLN-WP-003 Sect. 4.0												
Date	1/4/2019												
Analysis		<p>MSA experienced ten First Aid cases in December. The injuries were caused by the following incidents: body motion four; one struck by; one slip/trip/fall; one overexertion; one struck against; one caught between; and one contact: rub/abrade/cut.</p> <p>Year to date, it appears that body motion has contributed to a majority of the injuries.</p> <ul style="list-style-type: none"> <li>• 35% by body motion, 15% by overexertion, 15% from being struck by, 11% from being struck against, 11% contact: rub/abrade/cut, and 8% by a slip/trip/fall, and 4% by caught between.</li> <li>• 42% arm/hand, 35% leg/foot, 16% back, 4% head, and 3% whole body.</li> </ul> <p>FY 2018 First Aid Cases: 102 (Rate = 4.67)                      FY 2017 First Aid Cases: 110, (Rate = 5.23)</p>											
Actions		<p>Injury Prevention Actions:</p> <ul style="list-style-type: none"> <li>• All First Aid cases are closely monitored to determine emerging trends and implement awareness activities, as warranted</li> <li>• MSA continues to emphasize the importance of timely reporting for all injuries and has realized an increase of minor injury reporting.</li> <li>• Initiated activities, such as procurements for PPE, and awareness communications in preparation for cold weather and other seasonal changes.</li> <li>• Launched a new campaign to increase awareness of workplace hazards and safety inspections for all employees.</li> <li>• Issued Weekly Safety Starts which focused on winter hazards such as walking, driving, and eye care.</li> <li>• Delivered the last inspection module in support of the safety inspection campaign that meets an MSA 2018 SIP goal of improving work area conditions and increasing employee participation in safety &amp; health inspections. Employees are expected to perform an inspection of their work environment utilizing the tools they learned from the safety inspection modules and work group discussions.</li> </ul>											



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

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

CONTRACT PERFORMANCE REPORT																	
FORMAT 1 - WORK BREAKDOWN STRUCTURE										DOLLARS IN Thousands		FORM APPROVED OMB No. 0704-0188					
1. Contractor		2. Contract			3. Program			4. Report Period									
a. Name Mission Support Alliance		a. Name Mission Support Contract			a. Name Mission Support Contract			a. From (2018/11/26)									
b. Location (Address and Zip Code) Richland, WA 99352		b. Number RL14728		b. Phase Operations			b. To (2018/12/23)										
		c. TYPE CPAF		d. Share Ratio		c. EVMS ACCEPTANCE No X Yes											
5. CONTRACT DATA																	
a. QUANTITY N/A		b. NEGOTIATED COST \$3,837,990		c. ESTIMATED COST OF AUTHORIZED UNPRICED WORK \$0		d. TARGET PROFIT/FEE \$210,609		e. TARGET PRICE \$4,048,599		f. ESTIMATED PRICE \$4,013,758		g. CONTRACT CEILING N/A		h. ESTIMATED CONTRACT CEILING N/A		i. DATE OF OTB/OTS N/A	
6. ESTIMATED COST AT COMPLETION										7. AUTHORIZED CONTRACTOR REPRESENTATIVE							
				CONTRACT BUDGET BASE (2)		VARIANCE (3)		a. NAME (Last, First, Middle Initial) Wilkinson, Robert E				b. TITLE MSC Project Manager					
a. BEST CASE		\$3,837,990						c. SIGNATURE <i>[Signature]</i>				d. DATE SIGNED 1/23/19					
b. WORST CASE		\$3,993,306															
c. MOST LIKELY		\$3,803,149		3,837,990		34,841											
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	15,297	15,297	5,338	0	9,959	561,659	561,659	558,462	0	3,197	590,288	589,781	507				
3001.01.02 - Fire and Emergency Response	36,396	36,396	2,927	0	33,470	239,537	239,537	238,225	0	1,311	254,795	254,616	179				
3001.01.03 - Emergency Management	(3,328)	(3,328)	337	0	(3,665)	42,186	42,186	41,945	0	241	43,903	43,856	47				
3001.01.04 - HAMMER	9,488	9,488	567	0	8,921	68,512	68,512	67,955	0	557	72,303	72,102	201				
3001.01.05 - Emergency Services Management	663	663	118	0	545	14,579	14,579	14,312	0	267	15,624	15,677	(53)				
3001.02.01 - Site-Wide Safety Standards	1,079	1,079	104	0	975	7,724	7,724	8,499	0	(775)	8,249	8,999	(750)				
3001.02.02 - Environmental Integration	863	863	429	0	435	54,070	54,070	52,970	0	1,100	55,936	55,097	838				
3001.02.03 - Public Safety & Resource Protection	(918)	(918)	305	0	(1,223)	66,137	66,137	66,255	0	(117)	70,928	70,688	241				
3001.02.04 - Radiological Site Services	427	427	0	0	427	5,201	5,201	5,129	0	73	5,282	5,253	28				
3001.02.05 - WSCF Analytical Services	(2,183)	(2,183)	0	0	(2,183)	50,215	50,215	50,457	0	(241)	50,215	50,457	(241)				
3001.03.01 - IM Project Planning & Controls	(2,024)	(2,024)	105	0	(2,129)	32,636	32,636	31,703	0	933	33,076	32,180	895				
3001.03.02 - Information Systems	(12,379)	(12,379)	(1,035)	0	(11,344)	111,257	111,257	111,256	0	1	115,166	114,497	670				
3001.03.03 - Infrastructure / Cyber Security	3,793	3,793	513	0	3,280	39,898	39,898	39,703	0	196	42,862	43,057	(195)				
3001.03.04 - Content & Records Management	(2,651)	(2,651)	448	0	(3,100)	64,428	64,428	64,455	0	(27)	66,789	66,888	(99)				
3001.03.05 - IR/CM Management	218	218	133	0	85	12,548	12,548	12,502	0	45	13,203	13,238	(35)				
3001.03.06 - Information Support Services	(1,235)	(1,235)	131	0	(1,365)	13,402	13,402	13,349	0	53	14,073	14,123	(50)				
3001.04.01 - Roads and Grounds Services	2,459	2,459	456	0	2,003	28,724	28,724	28,448	0	276	30,529	30,597	(69)				
3001.04.02 - Biological Services	1,318	1,318	362	0	956	35,364	35,364	35,402	0	(38)	37,155	37,146	9				
3001.04.03 - Electrical Services	24,590	24,590	1,674	0	22,916	112,749	112,749	111,394	0	1,355	120,069	119,232	838				
3001.04.04 - Water/Sewer Services	29,177	29,177	1,411	0	27,766	121,203	121,203	118,920	0	2,284	129,027	127,201	1,826				
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	845	845	29	0	815	10,566	10,566	10,501	0	65	10,725	10,663	62				



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 (2018/11/26)								
b. Location (Address and Zip Code) Richland, WA 99352		b. Number RL14728			b. Phase Operations				b. To (2018/12/23)								
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	(1,621)	(1,621)	0	0	(1,621)	7,242	7,242	7,322	0	(80)	7,222	7,322	(100)				
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	251	251	7	0	244	621	621	588	0	34	677	668	9				
3001.04.10 - Technical Services	5,783	5,783	(146)	0	5,928	47,480	47,480	47,061	0	419	50,408	49,250	1,158				
3001.04.11 - Energy Management	(3,957)	(3,957)	100	0	(4,057)	11,018	11,018	10,885	0	133	11,629	11,618	11				
3001.04.12 - Hanford Historic Buildings Preservation	2,570	2,570	163	0	2,407	23,628	23,628	23,269	0	358	24,884	24,382	501				
3001.04.13 - Work Management	2,243	2,243	(2,546)	0	4,789	16,835	16,835	16,059	0	776	18,181	16,936	1,245				
3001.04.14 - Land and Facilities Management	(3,271)	(3,271)	408	0	(3,679)	43,457	43,457	42,662	0	795	47,589	46,873	717				
3001.04.15 - Mail & Courier	(1,325)	(1,325)	46	0	(1,371)	6,635	6,635	6,729	0	(94)	6,923	7,002	(79)				
3001.04.16 - Property Systems/Acquisitons	2,200	2,200	616	0	1,584	56,368	56,368	55,913	0	454	59,581	59,544	37				
3001.04.17 - General Supplies Inventory	(94)	(94)	107	0	(200)	1,422	1,422	1,446	0	(23)	1,388	1,400	(12)				
3001.04.18 - Maintenance Management Program Implementation	(2,439)	(2,439)	72	0	(2,511)	9,837	9,837	9,995	0	(158)	10,154	10,371	(216)				
3001.06.01 - Business Operations	2,834	2,834	666	0	2,168	52,211	52,211	14,015	0	38,196	56,252	18,423	37,829				
3001.06.02 - Human Resources	(162)	(162)	280	0	(442)	24,964	24,964	22,893	0	2,071	26,579	24,487	2,092				
3001.06.03 - Safety, Health & Quality	11,204	11,204	1,483	0	9,721	169,277	169,277	167,598	0	1,679	177,029	176,036	993				
3001.06.04 - Miscellaneous Support	(4,551)	(4,551)	17	0	(4,569)	50,506	50,506	51,361	0	(855)	51,549	53,100	(1,551)				
3001.06.05 - Presidents Office (G&A nonPMB)	0	0	0	0	0	16	16	16	0	0	16	16	0				
3001.06.06 - Strategy	(0)	(0)	0	0	(0)	2,529	2,529	2,529	0	0	2,529	2,529	0				
3001.07.01 - Portfolio Management	(4,171)	(4,171)	122	0	(4,293)	57,840	57,840	57,684	0	156	59,027	59,029	(3)				
3001.08.01 - Water System	2,172	754	847	(1,417)	(92)	37,769	36,586	23,131	(1,184)	13,454	43,882	30,116	13,766				
3001.08.02 - Sewer System	211	256	359	44	(104)	16,624	15,998	18,465	(626)	(2,467)	16,661	19,244	(2,583)				
3001.08.03 - Electrical System	326	93	264	(233)	(171)	20,165	19,266	19,664	(900)	(399)	20,720	21,199	(479)				
3001.08.04 - Roads and Grounds	0	0	0	0	0	9,137	9,137	8,533	0	604	9,137	9,314	(177)				
3001.08.05 - Facility System	(126)	140	75	266	65	10,044	10,045	10,211	0	(167)	10,613	10,788	(175)				
3001.08.06 - Reliability Projects Studies & Estimates	1,707	1,707	1,110	0	597	16,962	16,962	18,232	0	(1,270)	21,515	23,342	(1,828)				
3001.08.07 - Reliability Project Spare Parts Inventory	118	118	191	0	(73)	3,590	3,590	3,391	0	199	4,179	3,927	252				
3001.08.08 - Network & Telecommunications System	6,443	6,456	6,409	13	48	24,466	24,391	26,600	(74)	(2,209)	27,168	29,425	(2,257)				
3001.08.09 - Capital Equipment Not Related to Construction	(0)	(0)	0	0	(0)	12,002	12,002	10,835	0	1,167	13,318	10,840	2,477				
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	7,898	18,458	(10,560)				
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)	118,240	116,914	25,001	(1,327)	91,912	2,443,168	2,440,384	2,376,466	(2,784)	63,918	2,588,472	2,542,168	46,303				



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 (2018/11/26)								
b. Location (Address and Zip Code) Richland, WA 99352			b. Number RL14728			b. Phase Operations			b. To (2018/12/23)								
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)							
<b>a2. WORK BREAKDOWN STRUCTURE ELEMENT</b>																	
3001.01.04 - HAMMER	14,300	14,300	1,363	0	12,937	133,898	133,898	135,489	0	(1,591)	137,592	143,181	(5,589)				
3001.02.04 - Radiological Site Services	(5,840)	(5,840)	816	0	(6,656)	60,080	60,080	59,285	0	795	65,466	63,956	1,510				
3001.02.05 - WSCF Analytical Services	(23,010)	(23,010)	0	0	(23,010)	56,137	56,137	53,176	0	2,961	61,438	53,176	8,262				
3001.03.02 - Information Systems	198	198	197	0	1	7,313	7,313	7,308	0	4	8,342	8,511	(169)				
3001.03.04 - Content & Records Management	(151)	(151)	81	0	(232)	2,295	2,295	2,271	0	24	2,647	2,649	(2)				
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	2,572	2,572	2,680	0	(107)	80,664	80,664	80,762	0	(98)	93,211	95,704	(2,493)				
3001.04.05 - Facility Services	8,296	8,296	1,141	0	7,155	75,555	75,555	76,608	0	(1,053)	78,549	81,667	(3,118)				
3001.04.06 - Transportation	9,666	9,666	533	0	9,132	47,184	47,184	48,157	0	(972)	48,000	51,882	(3,882)				
3001.04.07 - Fleet Services	18,587	18,587	1,559	0	17,028	134,264	134,264	136,403	0	(2,139)	137,716	143,881	(6,165)				
3001.04.08 - Crane and Rigging	5,611	5,611	995	0	4,615	114,352	114,352	114,557	0	(205)	118,715	120,119	(1,404)				
3001.04.10 - Technical Services	5,293	5,293	229	0	5,064	6,449	6,449	7,098	0	(648)	6,474	8,432	(1,959)				
3001.04.13 - Work Management	1,091	1,091	32	0	1,060	3,767	3,767	3,877	0	(110)	3,767	4,146	(379)				
3001.04.14 - Land and Facilities Management	4,598	4,598	810	0	3,789	65,582	65,582	66,173	0	(592)	68,733	70,441	(1,708)				
3001.04.15 - Mail & Courier	(13)	(13)	20	0	(32)	1,563	1,563	1,558	0	5	1,658	1,656	2				
3001.06.01 - Business Operations	2,429	2,429	729	0	1,701	104,851	104,851	104,863	0	(12)	108,984	109,433	(449)				
3001.06.02 - Human Resources	3,914	3,914	251	0	3,663	28,417	28,417	28,800	0	(383)	29,181	30,531	(1,350)				
3001.06.03 - Safety, Health & Quality	101	101	133	0	(32)	14,329	14,329	14,056	0	273	15,198	14,851	346				
3001.06.04 - Miscellaneous Support	3,001	3,001	391	0	2,610	16,006	16,006	16,728	0	(723)	16,395	18,061	(1,665)				
3001.06.05 - Presidents Office (G&A nonPMB)	(491)	(491)	231	0	(721)	25,723	25,723	25,401	0	322	27,292	26,783	509				
3001.06.06 - Strategy	(108)	(108)	19	0	(127)	2,911	2,911	2,881	0	30	3,031	2,996	35				
3001.A1.01 - Transfer - CHPRC	4,950	4,950	6,320	0	(1,371)	658,252	658,252	659,398	0	(1,145)	688,365	689,193	(828)				
3001.A1.02 - Transfer - WRPS	89,773	89,773	4,673	0	85,100	294,690	294,690	294,790	0	(100)	318,684	319,271	(587)				
3001.A1.03 - Transfers - FH Closeout	20	20	0	0	20	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	459	459	16	0	443	3,259	3,259	3,262	0	(3)	3,394	3,262	131				
3001.A2.02 - Non Transfer - AMH	(314)	(314)	0	0	(314)	955	955	954	0	1	954	1,078	(123)				
3001.A2.03 - Non Transfer - ATL	(406)	(406)	0	0	(406)	703	703	702	0	0	702	702	0				
3001.A2.04 - Non-Transfer - WCH	(7,772)	(7,772)	0	0	(7,772)	41,032	41,032	41,726	0	(694)	41,022	41,726	(704)				
3001.A2.05 - Non-Transfers - HPM	1,328	1,328	54	0	1,275	2,877	2,877	2,916	0	(38)	3,096	2,916	180				
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	730	730	24	0	706	1,003	1,003	988	0	15	1,206	1,241	(35)				
3001.A4.01 - Request for Services	4,490	4,490	457	0	4,033	107,023	107,023	110,861	0	(3,838)	109,565	110,861	(1,295)				
3001.A4.02 - HAMMER RFSS	2,963	2,963	121	0	2,842	29,242	29,242	33,293	0	(4,051)	30,308	33,447	(3,139)				
3001.A4.03 - National Guard RFSS	(2)	(2)	0	0	(2)	1,551	1,551	1,550	0	1	1,551	4,360	(2,809)				
3001.A4.04 - PNNL RFSS	(59)	(59)	41	0	(100)	11,266	11,266	12,213	0	(947)	10,682	13,234	(2,553)				
3001.A5.01 - RL PD	(223)	(223)	36	0	(259)	6,313	6,313	6,363	0	(49)	6,458	6,363	95				
3001.A5.02 - ORP PD	1,617	1,617	49	0	1,568	8,080	8,080	8,014	0	66	8,232	8,244	(12)				



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 (2018/11/26)								
b. Location (Address and Zip Code) Richland, WA 99352		b. Number RL14728		b. Phase Operations				b. To (2018/12/23)										
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 (4)	Variance		Budgeted Cost		Actual Cost Work (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	8,062	8,062	334	0	7,728	11,833	11,833	12,375	0	(541)	13,607	12,525	1,082					
3001.A5.04 - ORP Project Funded	3,683	3,683	112	0	3,571	5,128	5,128	4,897	0	231	5,702	5,081	621					
3001.A6.01 - Portfolio PMTOs	32	32	33	0	(1)	898	898	846	0	52	1,065	1,138	(73)					
3001.A7.01 - G&A Liquidations	(14,161)	(14,161)	(2,197)	0	(11,963)	(200,281)	(200,281)	(201,248)	0	968	(208,263)	(213,032)	4,769					
3001.A7.02 - DLA Liquidations	(18,142)	(18,142)	(1,753)	0	(16,389)	(132,622)	(132,622)	(133,654)	0	1,032	(137,625)	(144,145)	6,519					
3001.A7.03 - Variable Pools Revenue	(17,726)	(17,726)	(8,677)	0	(9,050)	(653,657)	(653,657)	(654,982)	0	1,324	(691,653)	(698,618)	6,965					
3001.B1.01 - UBS Assessments for Other Providers	(60)	(60)	0	0	(60)	0	0	0	0	0	0	0	0					
3001.B1.02 - UBS Other MSC - HAMMER M&O	(279)	(279)	0	0	(279)	0	0	0	0	0	0	0	0					
3001.B1.03 - Assessment for Other Provided Services	(2,874)	(2,874)	0	0	(2,874)	3	3	0	0	3	1	0	1					
3001.B1.04 - Assessment for PRC Services to MSC	(1,582)	(1,582)	0	0	(1,582)	2	2	0	0	2	1	0	1					
3001.B1.07 - Request for Services	(22)	(22)	0	0	(22)	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											421	421	0					
e2. SUBTOTAL (Non - Performance Measurement Baseline)	104,532	104,532	11,851	0	92,681	1,183,176	1,183,176	1,194,998	0	(11,822)	1,244,149	1,255,611	(11,462)					
f. MANAGEMENT RESERVE											5,370	5,370	0					
g. TOTAL	222,772	221,446	36,852	(1,327.0)	184,594	3,626,344	3,623,560	3,571,464	(2,784)	52,096	3,837,990	3,803,149	34,841					
9. RECONCILIATION TO CONTRACT BUDGET BASE																		
a. VARIANCE ADJUSTMENT																		
b. TOTAL CONTRACT VARIANCE																		



5.0 FORMAT 3, DD FORM 2734/3, BASELINE

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

CONTRACT PERFORMANCE REPORT FORMAT 3 - BASELINE													FORM APPROVED OMB No. 0704-0188				
													DOLLARS IN Thousands				
1. Contractor		2. Contract			3. Program			4. Report Period									
a. Name Mission Support Alliance		a. Name Mission Support Contract			a. Name Mission Support Contract			a. From (2018/11/26)									
b. Location (Address and Zip Code) Richland, WA 99352		b. Number RL14728			b. Phase Operations			b. To (2018/12/23)									
c. TYPE CPAF		d. Share Ratio			c. EVMS ACCEPTANCE No X Yes												
5. CONTRACT DATA																	
a. ORIGINAL NEGOTIATED COST  \$2,854,966			b. NEGOTIATED CONTRACT CHANGES  \$983,024		c. CURRENT NEGOTIATED COST (a+b)  \$3,837,990		d. ESTIMATED COST OF UNAUTHORIZED UNPRICED WORK  \$0			e. CONTRACT BUDGET BASE (C+D)  \$3,837,990		f. TOTAL ALLOCATED BUDGET  \$3,837,990		g. DIFFERENCE (E - F)  \$0			
h. CONTRACT START DATE  2009/05/24			i. CONTRACT DEFINITIZATION DATE  2009/05/24			j. PLANNED COMPLETION DATE  2019/05/25			k. CONTRACT COMPLETION DATE  2019/05/25		l. ESTIMATED COMPLETION DATE  2019/05/25						
6. PERFORMANCE DATA																	
ITEM  (1)	BCWS CUMULATIVE TO DATE (2)	BCWS FOR REPORT PERIOD (3)	BUDGETED COST FOR WORK SCHEDULED (BCWS) (Non-Cumulative)											Remaining FY19 (14)	UNDISTRIBUTED BUDGET (15)	TOTAL BUDGET (16)	
			Six Month Forecast By Month														
			JAN FY19 (4)	FEB FY19 (5)	MAR FY19 (6)	APR FY19 (7)	MAY FY19 (8)	(9)	(10)	(11)	(12)	(13)					
a. PERFORMANCE MEASUREMENT BASELINE (Beginning of Period)	2,324,928	21,344	20,291	19,288	20,419	19,281	37,879									0	2,463,431
b. BASELINE CHANGES AUTHORIZED DURING REPORT PERIOD	118,240	(21,344)	4,549	6,184	6,280	6,077	1,414	0	0	0	0	0	0	0	0	3,643	125,041
c. PERFORMANCE MEASUREMENT BASELINE (End of Period)	2,443,168		24,841	25,472	26,698	25,358	39,293									3,643	2,588,472



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 (2018/11/26)								
b. Location (Address and Zip Code) Richland, WA 99352		b. Number RL14728			b. Phase Operations			b. To (2018/12/23)								
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)													
			Six Month Forecast By Month										Remaining FY19 (14)	UNDISTRIBUTED BUDGET (15)	TOTAL BUDGET (16)	
			JAN FY19 (4)	FEB FY19 (5)	MAR FY19 (6)	APR FY19 (7)	MAY FY19 (8)	(9)	(10)	(11)	(12)	(13)				
a2. NON - PERFORMANCE MEASUREMENT BASELINE (Beginning of Period)	1,078,644	8,008	8,006	7,567	8,063	7,892	9,373								0	1,127,554
b2. BASELINE CHANGES AUTHORIZED DURING REPORT PERIOD	104,532	(8,008)	2,709	3,893	4,151	4,065	4,831	0	0	0	0	0	0	0	421	116,595
c2. NON - PERFORMANCE MEASUREMENT BASELINE (End of Period)	1,183,176		10,715	11,461	12,214	11,957	14,204								421	1,244,149
7. MANAGEMENT RESERVE																5,370
8. TOTAL	3,626,344	0	35,555	36,932	38,913	37,315	53,497	0	0	0	0	0	0	4,064	3,837,990	



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 (2018/11/26)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2018/12/23)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NO X YES	
5. Evaluation				

**Explanation of Variance /Description of Problem:**

**Current Month Cost Variance (CV):**

**3001.01.01 Safeguards and Security** – Favorable CM CV is primarily due to implementation of Contract Modification 760 to incorporate the FY 2017-2019 Cost Variance (CV) and Request for Equitable Adjustment (REA) Proposal which was point-adjusted in December 2018.

**3001.01.02 Fire and Emergency** – Favorable CM CV is primarily due to implementation of Contract Modification 760 to incorporate the FY 2017-2019 CV and REA Proposal, which was point-adjusted in December 2018.

**3001.01.03 Emergency Management** – Unfavorable CM CV is primarily due to implementation of Contract Modification 760 to incorporate the FY 2017-2019 CV and REA Proposal, which was point-adjusted in December 2018.

**3001.01.04 HAMMER** – Favorable CM CV is primarily due to implementation of Contract Modification 760 to incorporate the FY 2017-2019 CV and REA Proposal, which was point-adjusted in December 2018.

**3001.01.05 Emergency Services Management** – Favorable CM CV is primarily due to implementation of Contract Modification 760 to incorporate the FY 2017-2019 CV and REA Proposal, which was point-adjusted in December 2018.

**3001.02.01 Site-Wide Safety Standards** – Favorable CM CV is primarily due to implementation of Contract Modification 760 to incorporate the FY 2017-2019 CV and REA Proposal, which was point-adjusted in December 2018.

**3001.02.02 Environmental Integration** – Favorable CM CV is primarily due to implementation of Contract Modification 760 to incorporate the FY 2017-2019 CV and REA Proposal, which was point-adjusted in December 2018.

**3001.02.03 Public Safety & Resource Protection** – Unfavorable CM CV is primarily due to implementation of Contract Modification 760 to incorporate the FY 2017-2019 CV and REA Proposal, which was point-adjusted in December 2018.

**3001.02.04 Radiological Site Services** – Favorable CM CV is primarily due to implementation of Contract Modification 760 to incorporate the FY 2017-2019 CV and REA Proposal, which was point-adjusted in December 2018.

**3001.02.05 WSCF Analytical Services**– Unfavorable CM CV is primarily due to implementation of Contract Modification 760 to incorporate the FY 2017-2019 CV and REA Proposal, which was point-adjusted in December 2018.



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 (2018/11/26)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2018/12/23)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NO X YES	
<b>5. Evaluation</b>				
<p><b>3001.03.01 IM Project Planning and Controls</b> – Unfavorable CM CV is primarily due to implementation of Contract Modification 760 to incorporate the FY 2017-2019 CV and REA Proposal, which was point-adjusted in December 2018.</p> <p><b>3001.03.02 Information Systems</b> – Unfavorable CM CV is primarily due to implementation of Contract Modification 760 to incorporate the FY 2017-2019 CV and REA Proposal, which was point-adjusted in December 2018.</p> <p><b>3001.03.03 Infrastructure/Cyber Security</b> – Favorable CM CV is primarily due to implementation of Contract Modification 760 to incorporate the FY 2017-2019 CV and REA Proposal, which was point-adjusted in December 2018.</p> <p><b>3001.03.04 Content &amp; Records Management</b> – Unfavorable CM CV is primarily due to implementation of Contract Modification 760 to incorporate the FY 2017-2019 CV and REA Proposal, which was point-adjusted in December 2018.</p> <p><b>3001.03.06 Information Support Services</b> – Unfavorable CM CV is primarily due to implementation of Contract Modification 760 to incorporate the FY 2017-2019 CV and REA Proposal, which was point-adjusted in December 2018.</p> <p><b>3001.04.01 Roads and Grounds Services</b> – Favorable CM CV is primarily due to implementation of Contract Modification 760 to incorporate the FY 2017-2019 CV and REA Proposal, which was point-adjusted in December 2018.</p> <p><b>3001.04.02 Biological Services</b> – Favorable CM CV is primarily due to implementation of Contract Modification 760 to incorporate the FY 2017-2019 CV and REA Proposal, which was point-adjusted in December 2018.</p> <p><b>3001.04.03 Electrical Services</b> – Favorable CM CV is primarily due to implementation of Contract Modification 760 to incorporate the FY 2017-2019 CV and REA Proposal, which was point-adjusted in December 2018.</p> <p><b>3001.04.04 Water/Sewer Services</b> – Favorable CM CV is primarily due to implementation of Contract Modification 760 to incorporate the FY 2017-2019 CV and REA Proposal, which was point-adjusted in December 2018.</p> <p><b>3001.04.06 Transportation</b> – Favorable CM CV is primarily due to implementation of Contract Modification 760 to incorporate the FY 2017-2019 CV and REA Proposal, which was point-adjusted in December 2018.</p> <p><b>3001.04.07 Fleet Services</b> – Unfavorable CM CV is primarily due to implementation of Contract Modification 760 to incorporate the FY 2017-2019 CV and REA Proposal, which was point-adjusted in December 2018.</p> <p><b>3001.04.10 Technical Service</b> – Favorable CM CV is primarily due to implementation of Contract Modification 760 to incorporate the FY 2017-2019 CV and REA Proposal, which was point-adjusted in December 2018.</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 (2018/11/26)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2018/12/23)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NO X YES	
<b>5. Evaluation</b>				
<p><b>3001.04.11 Energy Management</b> – Unfavorable CM CV is primarily due to implementation of Contract Modification 760 to incorporate the FY 2017-2019 CV and REA Proposal, which was point-adjusted in December 2018.</p> <p><b>3001.04.12 Hanford Historic Buildings Preservation</b> – Favorable CM CV is primarily due to implementation of Contract Modification 760 to incorporate the FY 2017-2019 CV and REA Proposal, which was point-adjusted in December 2018.</p> <p><b>3001.04.13 Work Management</b> – Favorable CM CV is primarily due to implementation of Contract Modification 760 to incorporate the FY 2017-2019 CV and REA Proposal, which was point-adjusted in December 2018.</p> <p><b>3001.04.14 Land and Facilities Management</b> – Unfavorable CM CV is primarily due to implementation of Contract Modification 760 to incorporate the FY 2017-2019 CV and REA Proposal, which was point-adjusted in December 2018.</p> <p><b>3001.04.15 Mail &amp; Courier</b> – Unfavorable CM CV is primarily due to implementation of Contract Modification 760 to incorporate the FY 2017-2019 CV and REA Proposal, which was point-adjusted in December 2018.</p> <p><b>3001.04.16 Property Systems/Acquisitions</b> – Favorable CM CV is primarily due to implementation of Contract Modification 760 to incorporate the FY 2017-2019 CV and REA Proposal, which was point-adjusted in December 2018.</p> <p><b>3001.04.18 Maintenance Management Program Implementation</b> – Unfavorable CM CV is primarily due to implementation of Contract Modification 760 to incorporate the FY 2017-2019 CV and REA Proposal, which was point-adjusted in December 2018.</p> <p><b>3001.06.01 Business Integration &amp; Operations</b> – Favorable CM CV is primarily due to implementation of Contract Modification 760 to incorporate the FY 2017-2019 CV and REA Proposal, which was point-adjusted in December 2018.</p> <p><b>3001.06.02 Human Resources</b> – Unfavorable CM CV is primarily due to implementation of Contract Modification 760 to incorporate the FY 2017-2019 CV and REA Proposal, which was point-adjusted in December 2018.</p> <p><b>3001.06.03 Safety, Health &amp; Quality</b> – Favorable CM CV is primarily due to implementation of Contract Modification 760 to incorporate the FY 2017-2019 CV and REA Proposal, which was point-adjusted in December 2018.</p> <p><b>3001.06.04 Miscellaneous Support</b> – Unfavorable CM CV is primarily due to implementation of Contract Modification 760 to incorporate the FY 2017-2019 CV and REA Proposal, which was point-adjusted in December 2018.</p> <p><b>3001.07.01 Portfolio Management</b> – Unfavorable CM CV is primarily due to implementation of Contract Modification 760 to incorporate the FY 2017-2019 CV and REA Proposal, which was point-adjusted in December 2018.</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 (2018/11/26)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2018/12/23)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NO X YES	
5. Evaluation				

**3001.08.06 Reliability Projects Studies & Estimates**– Favorable CM CV is primarily due to delayed invoicing on H-001, BMS Upgrade and staff augmentation hiring delays on Infrastructure Engineering planned scope during December 2018. Future accruals for BMS Upgrades, if necessary, should eliminate understated costs in future months. MSA filled the open staff augmentation positions in January 2019 so the variance will decrease during the next few months.

**Variable Service Pools - Non-PMB** – The WBS elements 3001.01.04 – 3001.06.06 represent the usage-based pool, General and Administrative (G&A), and Direct Labor Adder (DLA) accounts. Offsetting liquidation of service to customers occur with the liquidation of WBS 3001.A7.01-3001.A7.03.

**3001.A1 – 3001.B1 Non-PMB** – Favorable CM CV is primarily due to implementation of Contract Modification 760 to incorporate the FY 2017-2019 CV and REA Proposal, which was point-adjusted in December 2018.

**Impacts – Current Month Cost Variance:**

There are no impacts associated with this favorable CM CV.

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

**Current Month Schedule Variance:**

**3001.08.01 Water System** – Unfavorable CM SV is primarily due to project L-895, “Fire Protection Infrastructure for PRW” because of delays in fabrication and subsequent receipt of long lead-time pump and variable frequency drives (VFDs). In addition, some construction subcontract delays caused late approvals of the Statement of Work (SOW) and the extension of bid proposal times in the procurement of the construction subcontract.

**3001.08.03 Electrical System** - Unfavorable CM SV is due to project L-801, “Upgrade SCADA”, because Contracts directed creating a new RFP Statement of Work (SOW) to be re-competed from definitive design through installation and project closeout. This decision process to re-compete took six weeks to develop and the project was unable to move forward causing an eight-week schedule delay. The estimate for the procurement process is eight (8) weeks.

**3001.08.05 Facility Systems** – Favorable CM SV is due to project L-888, “400 Area Fire Station” because of a December point-adjust which implemented a Baseline Change Request to align the baseline with the contractor schedule.

**Impacts – 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 (2018/11/26)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728	b. Phase - Operations	b. To (2018/12/23)
	c. Type CPAF	d. Share Ratio NO X YES	
5. Evaluation			

**Corrective Action – Current Month Schedule Variance:** None.

**Cumulative Cost Variance:** Several key areas contributing to the cumulative-to-date CV (CTD CV) are as follows:

**Time Phasing:** In November 2018, MSA implemented the FY 2018 and FY 2019 Pension Change Proposals as a current month point adjustment. The FY 2019 Pension budget should have been time-phased through the end of the MSC (through May 2019). In December 2018, MSA implemented the FY 2017–FY 2019 CV and REA Proposal that was point-adjusted in December 2018. During January, MSA will process a BCR to correct the time phasing for the FY 2019 Pension and to better align the FY 2019 Baseline with the Integrated Investment Portfolio (IIP).

**3001.06.01 Business Integration & Operations** - Favorable CTD CV is primarily due to credits associated with affiliate fee on information technology (IT) scope and training on overtime pending final resolution.

**3001.08.01 Water System** - Favorable CTD CV is due to project L-894 “Raw Water Cross Connect Isolation 200 E/W” because the Engineering Study report cost less than planned, conceptual design utilized fewer resources than originally planned, and both the Definitive Design and construction contracts experienced cost underruns. Prior projects with CTD CV include the following:

- a) 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
- b) Project L-419 “Line Renovation/Replacement from 2901U to 200E” had a fixed price contract, which was awarded/completed at a lower cost than budgeted
- c) Projects L-399 “T-Plant Potable & Raw Water Line Rest”, L-525 “24-inch Line Replacement from 2901Y to 200W”, and L-311 “Refurbish 200W Raw Water Reservoir” also contributed to this favorable variance.

**3001.A1 – 3001.B1 Non-PMB** - Note that for the non-PMB, the WBS elements 3001.01.04 - 3001.06.06 represent the Usage-Based Pool, General and Administrative (G&A), and Direct Labor Adder (DLA) accounts that are offset by the liquidation of services to customers through WBS 3001.A7.01 – 3001.A7.03.

**3001.A4 Request For Services (Non-PMB)** – The negative cost variances for Request for Services (RFS) are primarily due to the amount of services requested in FY 2017 that were higher than the baseline amount. The MSA letter MSA-1804933, *Request for Not to Exceed*, dated November 27, 2018 did not address the FY 2017 RFS variance. MSA is working on an RFS Reconciliation and a proposal will follow to address this variance.



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 (2018/11/26)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2018/12/23)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NO X YES	

**5. Evaluation**

**Corrective Action - Cumulative Cost Variance:** The FY 2019 CV and REA Proposals incorporated contract value into the baseline in December 2018, based on the realization calendar. In January 2019, a revision to time phasing will more closely align the contract baseline with the IIP.

**Cumulative Schedule Variance:**

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

- a. L-850, *Replace 200W 1.1M-gal PW Tank*: Unfavorable SV is due to additional analysis of firewater demands on the Central Plateau, which delayed the design progress. The project initiated action to expedite design activities to recover schedule as shown in the critical path analysis. The SV is largely unrecoverable during current baselined design activities. There is no current impact to construction and long lead procurements in FY 2019 due to partial funding for these activities in FY 2019 and the remaining funding for construction is in FY 2020 per the Reliability Projects Investment Portfolio (RPIP).
- b. L-849, *Replace 200E 1.1M-gal PW Tank*: Unfavorable SV is due to additional analysis of firewater demands on the Central Plateau, which delayed design progress. The project initiated action to expedite design activities to recover schedule as shown in the critical path analysis. The SV is largely unrecoverable during current baselined design activities. There is no current impact to the construction schedule because there is no funding for construction in FY 2019.
- c. L-895, *Fire Protection Infrastructure for Plateau Raw Water*: Unfavorable CTD SV is primarily due to delays in fabrication and the subsequent receipt of long lead pump and variable frequency drives (VFDs), as well as some delay because of late approvals of the Statement of Work (SOW) and the extension of bids in the procurement of the construction subcontract.
- d. L-894, *Raw Water Cross Connection Isolation 200E/W*: Favorable SV is chiefly due to the procurement and delivery of the 30-inch pipe earlier than scheduled.
- e. L-357, *Replace 12" Potable Water Line to 222-S Lab*: Unfavorable SV is due to delays in approving the Washington Administrative Code (WAC) Project Report, which delayed award of the construction subcontract and subsequent construction activities.

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



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 (2018/11/26)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2018/12/23)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NO X YES	
5. Evaluation				

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

- a. Project L-801, “Upgrade SCADA”, Unfavorable CTD SV is because Contracts directed creating a new Request for Proposal (RFP) Statement of Work (SOW) to be re-competed from the end of the original contract (definitive design through installation and project closeout). This decision process to re-compete took six weeks to develop and the project was unable to move forward causing an eight-week schedule delay. The estimate for the procurement process is eight (8) weeks.
- b. L-791, “RFL Transfer Trip Upgrades”. Unfavorable CTD SV is due to resolution of OHC interface issues and because certain requirements had changed the plan. The issues have been resolved and the project has implemented corrective actions to recover some schedule slippage during the construction phase.

**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:**

During the reporting period, Contract Modification 760, Request for Not to Exceed (NTE), was incorporated into the contract baseline increasing the Budget at Completion (BAC) by a total of \$241.6M. The current favorable VAC in the Performance Measurement Baseline (PMB) is primarily due to the Affiliate Fee & Overtime credits. The Non-PMB unfavorable VAC is primarily due to Request for Services (RFS) customers requesting support services above the amounts estimated in the baseline for FY 2017.

**Impacts – At Complete Variance:**

In previous reporting periods the VAC was primarily due to the approved funding and priority list scope being divergent from the baseline, however in this reporting period MSA received and implemented Contract Modification 760 (Request for NTE) to align the contract baseline with the authorized funding. Although the bottom line VAC for contract baseline and authorized funding is in alignment, a revision to the monthly time phasing of FY 2019 budget will occur in the next reporting period. The NTE contract mod did not address the FY 2017 RFS accounts. Because the work scope is primarily level of effort, the VAC is not a predictive indicator for future performance. The amount of support provided in the future will be dependent upon RL approved funding and priority list scope.



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

1. Contractor	2. Contract		3. Program	4. Report Period
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b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2018/12/23)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NO X YES	
5. Evaluation				

**Corrective Action - At Complete Variance:**  
 In the next reporting period MSA will complete a BCR to re-time phase the budget for the FY 2019 consistent with the IIP. MSA expects to submit a contract proposal to address the cost variances for the FY 2017 RFS accounts.

**Negotiated Contract Changes:**  
 The Negotiated Contract Cost for December 2018 increased \$241.6M from \$3,596.3M to \$3,837.9M primarily due to the implementation of Contract Modification 760 that incorporated the FY 2017-2019 CV and REA Adjustment Proposals, pending the outcome of DOE-RL review and negotiation of each proposal.

**Changes in Estimated Cost of Authorized Unpriced Work:**  
 The Authorized Unpriced Work (AUW) for the reporting period remained at \$0M.

**Changes in Estimated Price:**  
 The Estimated Price for December 2018 had a minor increase of \$6.1M from \$4,007.7M to \$4,013.8M. The Estimated Price includes the Most Likely Management Estimate at Completion (MEAC) of \$3,803.2M and fee of \$210.6M. The Most Likely MEAC reflects recognition of significant additional work scope in FY 2009 through FY 2012 related to the American Recovery and Reinvestment Act of 2009 (ARRA) support activities to site contractors, and other DOE-authorized activities beyond the original contract assumptions. BCRs approved in January 2015, implemented the CV Contract Modifications received for FY 2009 thru FY 2012. BCRs approved in March 2018, implemented CV Contract Modifications received for FY 2013 - FY 2016 that increased the negotiated contract costs. BCRs approved in December 2018 implemented the proposals for FY 2017 – FY 2019 CV and REA Adjustments that also increased the Negotiated Contract Costs. However, since the MEAC already included the majority of these costs in the forecast, Contract Modification 760 did not significantly increase the estimated price in December.

**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 \$6.1M from \$3,797.1M to \$3,803.2M: \$8.6M in the Performance Measurement Baseline (PMB), (\$2.5M) in the non-PMB and \$0M in Management Reserve (MR). The PMB increase was primarily due to VMSA-19-015 – Mod 760 – Incorporate MSA Letter MSA-1804933 Request for NTE – Increase in Contract Value into Undistributed Budget (UB) for Min Safe, DBT and 10 CFR 851 and an overstatement in the Reliability Project out-year Planning Package. MSA will process a correction for an overstatement in the Reliability Project Out-Year Planning Package in January. The non-PMB EAC



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

1. Contractor	2. Contract		3. Program	4. Report Period
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b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2018/12/23)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NO X YES	
5. Evaluation				

changes for FY 2019 primarily reflect trending data from the RFS customers.

**Changes in Undistributed Budget:**

The Undistributed Budget for this reporting period increased from \$0M to \$4.1M. The increase was due to VMSA-19-015 – Mod 760 – Incorporate MSA Letter MSA-1804933 Request for NTE – Increase in Contract Value into Undistributed Budget (UB) for Min Safe, DBT and 10 CFR 851.

**Changes in Management Reserve:**

The MR for this reporting period remained at \$5.3M.

**Differences in the Performance Measurement Baseline:**

This reporting period the Performance Measurement Baseline increased by \$125.1M from \$2,463.4M to \$2,588.5M. The increase was primarily due to the following BCRs incorporating Contract Modifications:

- VMSA-19-017 Rev 0 – Incorporate FY 2017 Request for Equitable Adjustment Proposal included in Contract Modification 760
- VMSA-19-017 Rev 1 – Incorporate FY 2017 Cost Variance Proposal included in Contract Modification 760
- VMSA-19-017 Rev 2 – Incorporate FY 2018 Request for Equitable Adjustment Proposal included in Contract Modification 760
- VMSA-19-017 Rev 3 – Incorporate FY 2018 Cost Variance Proposal included in Contract Modification 760
- VMSA-19-017 Rev 4 – Incorporate FY 2019 Cost Variance and Request for Equitable Adjustment Proposals included in Contract Modification 760

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

- VMSA-19-009 – Create Level 4 and 5 WBSs for H-004, Enterprise Asset Management Implementation; Move Scope from TCO to Reliability Project and Move Budget from Reliability Project Out-Year Planning Package as Requested in CBAG Rev 2
- VMSA-19-010 – Create Level 4 and 5 WBSs for H-005, Enterprise Learning Management (ELM) Upgrade; Move Scope from TCO to Reliability Project and Move Budget from Reliability Project Out-Year Planning Package as Requested in CBAG Rev 2
- VMSA-19-011 – Create Level 4 and 5 WBSs for H-003, ABCASH; Move Scope from ESH&Q to Reliability Project and Move Budget from Reliability Project Out-Year Planning Package as Requested in CBAG Rev 2



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

1. Contractor	2. Contract		3. Program	4. Report Period
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b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2018/12/23)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NO X YES	
5. Evaluation				

- VMSA-19-012 – Create Level 4 and 5 WBSs for H-002, Enterprise Health Records System; Move Scope and Budget from IM to H-002 and Move Additional Budget to Reliability Project Out-Year Planning as Requested in CBAG Rev 2
- VMSA-19-013 - Create Level 4 and 5 WBSs for Infrastructure Engineering; Move Scope and Budget from President’s Office to infrastructure Engineering and Move Additional Budget to Reliability Project Out-Year Planning Package as Requested in CBAG Rev 2
- VMSA-19-014 – Create Level 5 WBS for H-001, BMS Upgrade Study; Move Scope from IM to Reliability Project and Move Budget from Reliability Project Out-Year Planning Package as Requested in CBAG Rev 2
- VMSA-19-016 – Create Two Level 4 and Eight Level 5 WBSs for RP FY 2019 Planning Packages and Move Budget from the FY 2019 RP Out Year Planning Package as Reflected in CBAG Rev. 2 & Modify Schedule
- VRL0201RP-19-001 – Create a Level 5 WBS for a Reliability Project CENRTC Procurement; Change the WBS Title & Move Budget from the Reliability Project Out-Year Planning Package per CBAG Rev 2
- VRL0201RP-19-003 – Re-Plan L-888 Definitive Design to Align with Sub-Contractor’s Schedule and Return Budget to Reliability Project Out-Year Planning Package
- VRL0201RP-19-007 – Move Budget from the Reliability Project Out-Year Planning Package to L-789 for Construction
- VRL0201RP-19-009 – Increase Budget for RL-0201 Studies, Estimates, & Planning from Reliability Project Out-Year Planning Package Budget as Reflected in CBAG Rev 2 & Modify Schedule
- VRL0201RP-19-010 –Increase RL-0201 Reliability Project Program Management from Reliability Project Out-Year Planning Package Budget as Reflected in CBAG Rev 2 & Modify Schedule

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

This reporting period the Non-PMB increased by \$116.6M from \$1,127.6M to \$1,244.2M. The increase was primarily due to the BCRs incorporated for Contract Modification 760.

**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 – December 2018					
Account Description	BCWS	BCWP	ACWP	CV	Liquidation
<b>Direct Labor Adder</b>					
Software Engineer Services DLA (3001.03.02.03)	\$197.7	\$197.7	\$196.8	\$0.9	\$ (227.2)
Content & Records Management DLA (3001.03.01.04)	\$(150.9)	\$(150.9)	\$81.0	\$(231.9)	\$ (70.3)
Transportation DLA (3001.04.06.02)	\$9,829.1	\$9,829.1	\$533.5	\$9,295.6	\$ (537.8)
Maintenance DLA (3001.04.05.02)	\$7,962.0	\$7,962.0	\$1,018.9	\$6,943.1	\$ (809.3)
Janitorial Services DLA (3001.04.05.03)	\$334.3	\$334.3	\$122.4	\$211.9	\$ (108.5)
<b>Total Direct Labor Adder</b>	<b>\$18,172.2</b>	<b>\$18,172.2</b>	<b>\$1,952.6</b>	<b>\$16,219.6</b>	<b>\$ (1,753.1)</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 – December 2018					
Account Description	BCWS	BCWP	ACWP	CV	Liquidation
<b>Usage Based Services</b>					
Training (3001.01.04.02)	\$14,299.1	\$14,299.1	\$1,362.9	\$12,936.2	\$(1,748.0)
HRIP (3001.02.04.02)	\$(3,554.0)	\$(3,554.0)	\$367.3	\$(3,921.3)	\$(320.8)
Dosimetry (3001.02.04.03)	\$(2,286.2)	\$(2,286.2)	\$448.3	\$(2,734.5)	\$(330.5)
Information Technology Services (3001.03.07.01)	\$2,572.3	\$2,572.3	\$2,679.5	\$(107.2)	\$(2,646.1)
Work Management (3001.04.13.01)	\$1,091.3	\$1,091.3	\$31.7	\$1,059.6	\$(44.5)
Courier Services (3001.04.15.02)	\$(12.6)	\$(12.6)	\$19.5	\$(32.1)	\$(20.8)
Occupancy (3001.04.14.06)	\$4,598.4	\$4,598.4	\$809.6	\$3,788.8	\$(822.1)
Crane & Rigging (3001.04.08.02)	\$5,610.6	\$5,610.6	\$995.2	\$4,615.4	\$(967.2)
Guzzler Trucks (3001.04.06.03)	\$(163.4)	\$(163.4)	\$-	\$(163.4)	\$-
Fleet (3001.04.07.02)	\$18,587.0	\$18,587.0	\$1,558.9	\$17,028.1	\$(1,776.8)
<b>Total UBS</b>	<b>\$40,742.5</b>	<b>\$40,742.5</b>	<b>\$8,272.9</b>	<b>\$32,469.6</b>	<b>(8,676.8)</b>
<b>Total DLA / UBS</b>	<b>\$58,914.7</b>	<b>\$58,914.7</b>	<b>\$10,225.5</b>	<b>\$48,689.2</b>	<b>\$ (10,429.9)</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

**FYTD Variance** – Variance \$48.7M – December’s favorable cost variance is a result of a BCWS point adjustments in the prior months involving the FY18/FY19 Pension Proposal Contract Mod and the Contract Mod 760, that incorporated the FY17-FY19 Cost Variance and Request for Equitable Adjustment Proposal. These multi-year impacts reflected in the FY19 FYTD BCWS have resulted in the current substantial FY19 positive variance.



8.0 RELIABILITY PROJECT STATUS

Activity in December was centered on continuing progress on projects carried over from FY 2018. (Table 8-1 below.)

Table 8-1. Current Active Reliability Projects Summary

Projects to be Completed (\$000's)															
Work Scope Description (Reliability Projects)	Contract to Date - Performance							Project Lifecycle				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	778.1	521.8	536.1	(256.3)	(14.3)	0.7	1.0	778.1	639.3	138.8	67.1%	11/05/18	3/01/19	R	G
L-849, Replace 200E 1.1M-gal PW Tank	767.3	483.9	503.7	(283.3)	(19.7)	0.6	1.0	767.3	703.2	64.0	63.1%	11/05/18	5/23/19	R	G
L-894, Raw Water Cross Connection Isolation 200E/W	5,014.8	6,600.1	5,381.4	1,585.2	1,218.7	1.3	1.2	8,012.4	5,892.4	2,120.0	82.4%	5/06/19	7/03/19	R	G
L-895, Fire Protection Infrastructure for Plateau Raw Water	2,376.2	1,059.0	1,319.1	(1,317.2)	(260.1)	0.4	0.8	3,570.6	3,876.1	(305.5)	29.7%	3/21/19	6/12/19	R	R
L-357, Replace 12" Potable Water Line to 222-S Lab	1,651.6	748.6	684.8	(902.9)	63.9	0.5	1.1	1,654.4	1,277.4	377.0	45.3%	1/03/19	5/16/19	R	G
L-781, 181D Vertical Turbine Pumps	12.2	12.2	18.3	0.0	(6.2)	1.0	0.7	605.7	593.6	12.1	2.0%	5/23/19	6/03/19	Y	G
L-897, Central Plateau Water Treatment Facility	1,170.7	1,161.7	881.0	(9.0)	280.7	1.0	1.3	1,901.3	2,784.2	(882.9)	61.1%	5/23/19	5/30/19	Y	R
L-826, 181B Vertical Turbine Pumps	12.2	12.2	13.0	0.0	(0.8)	1.0	0.9	605.7	555.4	50.3	2.0%	5/23/19	6/03/19	Y	G
L-853, 200E Sewer Flow Equalization Facility	5,708.0	5,644.1	5,537.4	(64.0)	106.7	1.0	1.0	5,713.2	5,826.9	(113.7)	98.8%	1/28/19	3/26/19	R	Y
L-854, 200E Sewer Consolidations	5,609.2	5,047.3	4,427.4	(561.9)	619.9	0.9	1.1	5,641.0	4,916.3	724.6	89.5%	1/08/19	3/26/19	R	G
L-789, Prioritize T&D Sys Wood PP Test & Replace	2,202.3	2,200.0	2,120.7	(2.3)	79.3	1.0	1.0	2,505.6	2,425.0	80.6	87.8%	5/23/19	5/23/19	G	G
L-612, 230kV Transmission System Reconditioning and Sustainability Repairs	1,204.3	1,199.1	973.3	(5.2)	225.8	1.0	1.2	1,211.4	992.5	218.9	99.0%	5/23/19	7/08/19	R	G
L-801, Upgrade SCADA	726.4	31.5	26.7	(694.9)	4.8	0.0	1.2	726.4	725.6	0.7	4.3%	12/20/18	4/11/19	R	G
L-791, RFL Transfer Trip Upgrades	515.7	294.6	166.4	(221.1)	128.1	0.6	1.8	602.1	530.8	71.2	48.9%	3/29/19	5/20/19	R	G
L-720, Outdoor Lighting Reconfiguration and Repl	31.5	55.1	76.1	23.6	(21.0)	1.8	0.7	188.8	224.1	(35.3)	29.2%	5/23/19	5/07/19	G	G
L-888, 400 Area Fire Station	510.6	516.8	455.1	6.2	61.7	1.0	1.1	936.6	887.0	49.5	55.2%	5/21/19	5/23/19	Y	G
S-245, Live Fire Shoot House	3,653.2	3,653.0	3,817.8	(0.3)	(164.8)	1.0	1.0	3,653.2	3,840.2	(187.0)	99.9%	10/10/18	1/03/19	R	Y
L-906, HFD Station 92 Expansion	8.6	1.1	19.1	(7.4)	(18.0)	0.1	0.1	149.5	141.9	7.6	0.8%	4/10/19	6/19/19	R	G
ETS1, HLAN Network Upgrade - Phase 2A	3,653.0	3,624.9	3,607.2	(28.1)	17.7	1.0	1.0	3,666.8	3,678.7	(11.9)	98.9%	1/31/19	3/07/19	R	G
L-905, FARS & RFARS Replacement & Upgrade	117.3	70.8	74.1	(46.4)	(3.3)	0.6	1.0	210.0	183.3	26.6	33.7%	4/10/19	7/18/19	R	G
<b>Total</b>	<b>35,723.1</b>	<b>32,937.7</b>	<b>30,638.7</b>	<b>(2,785.4)</b>	<b>2,299.0</b>	<b>0.9</b>	<b>1.1</b>	<b>43,100.0</b>	<b>40,694.2</b>	<b>2,405.8</b>					

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-850, *Replace 200W 1.1M-gal PW Tank*: Unfavorable SV is due to additional analysis of firewater demands on the Central Plateau, which delayed the design progress. Currently, action is being taken to expedite design activities to recover schedule as shown in the critical path analysis. The SV is largely unrecoverable during current baselined design activities. There is no current impact to construction and long lead procurements in FY 2019 due to partial funding for these activities in FY 2019 and the remaining funding for construction is in FY 2020 per the Reliability Projects Investment Portfolio (RPIP).
- L-849, *Replace 200E 1.1M-gal PW Tank*: Unfavorable SV is due to additional analysis of firewater demands on the Central Plateau, which delayed design progress. Currently, action is being taken to expedite design activities to recover schedule as shown in the critical path analysis. The SV is largely unrecoverable during current baselined 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*: Favorable SV is chiefly due to the procurement and delivery of the 30-inch pipe earlier than scheduled.
- L-895, *Fire Protection Infrastructure for Plateau Raw Water*: Unfavorable CTD SV is primarily due to delays in fabrication and the subsequent receipt of long lead pump and variable frequency drives (VFDs), as well as some delay because of late approvals of the Statement of Work (SOW) and the extension of bids in the procurement of the construction.
- L-357, *Replace 12" Potable Water Line to 222-S Lab*: Unfavorable SV is due to delays in approving the Washington Administrative Code (WAC) Project Report, which delayed award of the construction subcontract and subsequent construction activities.
- L-854, *200E Sewer Consolidations*: Unfavorable SV is due to the re-planning of pipe and structure installation(s) on Phases 5 and 6 to accommodate the operation schedules of other Hanford contractors (OHCs).
- L-801, *Upgrade SCADA*: Unfavorable SV is due to the current contract modification because Contracts directed creating a new RFP Statement of Work to be re-competed from the end of the original contract (definitive design through installation and



project closeout). This decision process to re-compete took six weeks to develop and the project was unable to move forward causing the schedule delay. The estimate for the procurement process is eight (8) weeks.

- L-791, *RFL Transfer Trip Upgrades*: Unfavorable SV is due to resolution of OHC interface issues and because certain requirements had changed the plan. The issues have been resolved, and the project has implemented correction actions to recover some schedule slippage during the construction phase.

## 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 performed at lower than planned cost.
- L-895, *Fire Protection Infrastructure for Plateau Raw Water*: Unfavorable CV is attributable to overruns in engineering and other MSA labor support categories, driven, in part, by the Fire Water Demand/Pump Decision time period.
- L-357, *Replace 12" Potable Water Line to 222-S Lab*: Favorable CV is due to subcontractor design efficiencies in development of the 30% and 90% design. Efficiencies are associated with initial planning performed by the engineering project support team. These efficiencies included pre-conceptual line routing and clarifying operational requirements. Also, early communications and cooperation with OHCs by the integrated project team (IPT) addressing concern/design inputs avoided potential rework.
- L-897, *Central Plateau Water Treatment Facility*: Favorable CV is due to the conceptual design contract awarded for less than baseline value. The design subcontractors' experience, and their ability to self-perform all scope without sub-tier support was a key factor in the contractor award. The Cumulative Cost variance was reduced from last month due to the definitive design being awarded at higher than planned cost.
- L-853, *200E Sewer Flow Equalization Facility*: Favorable CV is because the fixed price subcontract(s) were awarded lower than the baseline value.
- L-854, *200E Sewer Consolidations*: Favorable CV is due to efficiencies in project support, and because the fixed price subcontract was awarded for less than the budget 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 primarily due to the Test & Treat implementation contract that was issued at less than the planned value.
- L-612, *230kV Transmission System Reconditioning and Sustainability Repairs*: Favorable CV is due to the subcontracted conceptual design completing with a significantly favorable CV. However, the start of definitive design has been extended due to the Memorandum of Agreement (MOA), Environmental Assessment (EA), and Findings of No Significant Impact (FONSI) delays. A realignment BCR was processed in July to bring the schedule and forecast in line with the Bonneville Power Administration's (BPA's) definitive design schedule.
- L-791, *RFL Transfer Trip Upgrades*: Favorable CV is due to efficiencies with design costs, and because negotiations with other Hanford contractors have cost less than the original plan. The decision for MSA to purchase electrical poles has further reduced costs.
- L-888, *400 Area Fire Station*: The Cumulative favorable cost variance is because purchase order contract actual costs were lower than planned.
- S-245, *Live Fire Shoot House*: Unfavorable CV is primarily due to costs from the City of Richland (WA) to modify power to the Live Fire Shoot House site, training expenses, and additional value added labor hours for project support that were not captured in the baseline.

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

- L-850, *Replace 200W 1.1M-gal PW Tank*: Favorable VAC is due to the engineering design subcontract being awarded lower than the budgeted value. The VAC has been reduced from the prior month due to additional costs associated with the 60% resubmittal reviews.
- L-849, *Replace 200E 1.1M-gal PW Tank*: Favorable VAC is due to the engineering design subcontract being awarded lower than the budgeted value. The VAC has been reduced from the prior month due to additional costs associated with the 60% resubmittal reviews.
- L-894, *Raw Water Cross Connection Isolation 200E/W*: The favorable VAC is due to the firm fixed price construction contract awarded at less than the planned value, and Architecture/Engineering (A/E) costs being less than planned.
- L-895, *Fire Protection Infrastructure for Plateau Raw Water*: Unfavorable VAC is due to a combination of VFD quotes and equipment quotes received higher than budgeted,



and overruns in engineering and other MSA labor support categories, driven, in part, by the Fire Water Demand/Pump Decision time period.

- L-357, *Replace 12" Potable Water Line to 222-S Lab*: Favorable VAC is due to subcontractor efficiencies in early design development efforts, and the award of a favorable construction subcontract.
- L-897, *Central Plateau Water Treatment Facility*: The favorable VAC changed from last month to reflect the current payment schedule forecast for the filter membranes and processing equipment procurement. Based on new payment schedule knowledge the project will implement a Baseline Change Request (BCR) in January to replan the procurement. Once the BCR is implemented and resource loading re-sequenced, the VAC is expected to restore to the previous positive value.
- L-853, *200E Sewer Flow Equalization Facility*: Unfavorable VAC reflects updated actuals from change orders awarded to the subcontractor, and pending change orders being reviewed by the Independent cost analyst. Additionally, overruns in MSA labor and a combination of training, fleet, and material costs are the primary drivers for the project VAC.
- L-854, *200E Sewer Consolidation*: Favorable VAC is due to forecasted construction phase efficiencies based on receiving a fixed price construction proposal and contract award. The VAC includes pending change orders from the construction subcontract, which are currently being analyzed by an independent cost analyst.
- L-612, *230kV Transmission System Reconditioning and Sustainability Repairs*: Favorable VAC is due to completing the conceptual design subcontract for significantly less than planned. Additionally, planned values that were conservatively forecasted back in March, April, and May due to scope uncertainties have been removed, resulting in an increase in the VAC this month.
- L-791, *RFL Transfer Trip Upgrades*: Reported over-performance in November was corrected in December. The corrective action slightly offsets the cost saving realized in December. This is reflected in the current Favorable VAC.
- L-245, *Live Fire Shoot House*: Unfavorable VAC is due to costs from the City of Richland to modify power to the Live Fire Shoot House site, additional change orders, training expenses, and additional labor hours for project support that were not captured in the baseline.

Table 8 -2. Reliability Projects Schedule

RPSUM CU - Summary RP Schedule for Melodee - Current Layout: MSA - Summ RP Sched - Melodee - CU		Mission Support Alliance							Page 1 of 2				
Activity ID	Activity Name	OD	RD	% Comp	Baseline Start	Baseline Finish	Forecast Start	Forecast Finish	5	2016	2017	2018	2019
ET-51	ET-51, HLAN Network Upgrade - Phase 2A	418	50	98.9%	05-Jun-17	31-Jan-19	05-Jun-17 A	07-Mar-19					
L-357	L-357, Replace 12" Potable Water Line to 222-S Lab	378	100	45.3%	03-Jul-17	03-Jan-19	29-Jun-17 A	16-May-19					
L-612	L-612, 230kV Transmission System Reconditioning and Sustainability Upgrades	939	135	99%	31-Aug-15	23-May-19	31-Aug-15 A	08-Jul-19					
L-720	L-720, Outdoor Lighting Reconfiguration and Repl	153	93	29.2%	15-Oct-18	23-May-19	01-Oct-18 A	07-May-19					
L-781	L-781, 181D Vertical Turbine Pumps	163	111	2%	01-Oct-18	23-May-19	01-Oct-18 A	03-Jun-19					
L-789	L-789, Prioritized T&D System Wood Pole Upgrades	105	105	87.8%	01-May-18	23-May-19	03-May-18 A	23-May-19					
L-791	L-791, RFL Transfer Trip Upgrades	226	102	48.9%	07-May-18	29-Mar-19	07-May-18 A	20-May-19					
L-796	L-796, Key Facilities Roof Replacements	166	0	100%	04-Jun-18	30-Jan-19	29-May-18 A	25-Oct-18 A					
L-801	L-801, Upgrade SCADA	76	75	4.3%	04-Sep-18	20-Dec-18	05-Sep-18 A	11-Apr-19					
L-826	L-826, 181B Vertical Turbine Pumps	163	111	2%	01-Oct-18	23-May-19	01-Oct-18 A	03-Jun-19					
L-849	L-849, Replace 200E 1.1M-gal PW Tank	216	105	63.1%	02-Jan-18	05-Nov-18	02-Jan-18 A	23-May-19					
L-850	L-850, Replace 200W 1.1M-gal PW Tank	216	46	67.1%	02-Jan-18	05-Nov-18	02-Jan-18 A	01-Mar-19					
L-853	L-853, 200E Sewer Flow Equalization Facility	867	63	98.8%	17-Aug-15	28-Jan-19	17-Aug-15 A	26-Mar-19					
L-854	L-854, 200E Sewer Consolidations	853	63	89.5%	17-Aug-15	08-Jan-19	17-Aug-15 A	26-Mar-19					
L-888	L-888, 400 Area Fire Station	245	105	55.2%	30-Apr-18	21-May-19	30-Apr-18 A	23-May-19					

■ Remaining Work  
■ Baseline

**MSC - Reliability Projects**  
**Summary Schedule**  
**Data Date: 23-Dec-18**



Table 8 -2. Reliability Projects Schedule Cont.

RPSUM CU - Summary RP Schedule for Melodee - Current Layout: MSA - Summ RP Sched - Melodee - CU		Mission Support Alliance							Page 2 of 2				
Activity ID	Activity Name	OD	RD	% Comp	Baseline Start	Baseline Finish	Forecast Start	Forecast Finish	5	2016	2017	2018	2019
L-894	L-894, Raw Water Cross Connection Isolation 200EW	540	133	82.4%	04-Apr-17	06-May-19	30-Mar-17 A	03-Jul-19					
L-895	L-895, Fire Protection Infrastructure for Plateau Raw Water	431	118	29.7%	05-Jul-17	21-Mar-19	05-Jul-17 A	12-Jun-19					
L-897	L-897, Central Plateau Water Treatment Facility	374	109	61.1%	29-Nov-17	23-May-19	29-Nov-17 A	30-May-19					
L-905	L-905, FARS & RFARS Replacement & Upgrade	171	143	33.7%	06-Aug-18	10-Apr-19	06-Aug-18 A	18-Jul-19					
L-906	L-906, HFD Station 92 Expansion	142	123	0.8%	17-Sep-18	10-Apr-19	17-Sep-18 A	19-Jun-19					
S-245	S-245, Live Fire Shoot House	266	6	99.99%	21-Sep-17	10-Oct-18	21-Sep-17 A	03-Jan-19					

 Remaining Work  Baseline	<b>MSC - Reliability Projects</b> <b>Summary Schedule</b> Data Date: 23-Dec-18	
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## 9.0 BASELINE CHANGE REQUEST LOG (BCR)

Baseline Change Request Log for December 2018.

Twenty-One Baseline Change Requests (BCRs) were processed in December.

Seven BCRs incorporated Contract Modifications:

- VMSA-19-015 – Mod 760 – Incorporate MSA Letter MSA-1804933 Request for NTE – Increase in Contract Value into Undistributed Budget (UB) for Min Safe, DBT and 10 CFR 851
- VMSA-19-017 Rev 0 – Incorporate FY 2017 Request for Equitable Adjustment Proposal included in Contract Modification 760
- VMSA-19-017 Rev 1 – Incorporate FY 2017 Cost Variance Proposal included in Contract Modification 760
- VMSA-19-017 Rev 2 – Incorporate FY 2018 Request for Equitable Adjustment Proposal included in Contract Modification 760
- VMSA-19-017 Rev 3 – Incorporate FY 2018 Cost Variance Proposal included in Contract Modification 760
- VMSA-19-017 Rev 4 – Incorporate FY 2019 Cost Variance and Request for Equitable Adjustment Proposals included in Contract Modification 760
- VPMT0-19-002 – Mod 757 – Close PMTO 17-001, Contract Assurance System and Reduce Contract Value to Actual Cost

Twelve BCRs related to Reliability Projects:

- VMSA-19-009 – Create Level 4 and 5 WBSs for H-004, Enterprise Asset Management Implementation; Move Scope from TCO to Reliability Project and Move Budget from Reliability Project Out-Year Planning Package as Requested in CBAG Rev 2
- VMSA-19-010 – Create Level 4 and 5 WBSs for H-005, Enterprise Learning Management (ELM) Upgrade; Move Scope from TCO to Reliability Project and Move Budget from Reliability Project Out-Year Planning Package as Requested in CBAG Rev 2
- VMSA-19-011 – Create Level 4 and 5 WBSs for H-003, ABCASH; Move Scope from ESH&Q to Reliability Project and Move Budget from Reliability Project Out-Year Planning Package as Requested in CBAG Rev 2



- VMSA-19-012 – Create Level 4 and 5 WBSs for H-002, Enterprise Health Records System; Move Scope and Budget from IM to H-002 and Move Additional Budget to Reliability Project Out-Year Planning as Requested in CBAG Rev 2
- VMSA-19-013 – Create Level 4 and 5 WBSs for Infrastructure Engineering; Move Scope and Budget from President’s Office to infrastructure Engineering and Move Additional Budget to Reliability Project Out-Year Planning as Requested in CBAG Rev 2
- VMSA-19-014 – Create Level 5 WBS for H-001, BMS Upgrade Study; Move Scope from IM to Reliability Project and Move Budget from Reliability Project Out-Year Planning Package as Requested in CBAG Rev 2
- VMSA-19-016 – Create Two Level 4 and Eight Level 5 WBSs for RP FY 2019 Planning Packages and Move Budget from the FY 2019 RP Out Year Planning Package as Reflected in CBAG Rev. 2 & Modify Schedule
- VRL0201RP-19-001 – Create a Level 5 WBS for a Reliability Project CENRTC Procurement; Change the WBS Title & Move Budget from the Reliability Project Out-Year Planning Package per CBAG Rev 2
- VRL0201RP-19-003 – Re-Plan L-888 Definitive Design to Align with Sub-Contractor’s Schedule and Return Budget to Reliability Project Out-Year Planning Package
- VRL0201RP-19-007 – Move Budget from the Reliability Project Out-Year Planning Package to L-789 for Construction
- VRL0201RP-19-009 – Increase Budget for RL-0201 Studies, Estimates, & Planning from Reliability Project Out-Year Planning Package Budget as Reflected in CBAG Rev 2 & Modify Schedule
- VRL0201RP-19-010 – Increase RL-0201 Reliability Project Program Management from Reliability Project Out-Year Planning Package Budget as Reflected in CBAG Rev 2 & Modify Schedule

Two BCRs were Administrative in Nature:

- VMSA-19-004 Rev 2 – Administrative BCR – Create Lower Level Task Order (LLTO) WBSs for Cost Collection Established in the Month of December
- VRL20-19-001 – Create 2 Level 5 WBSs for Design Basis Threat Modeling & Simulation, and Phase III for Cost Collection

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>Nov 2018</b>	1,230,506		1,230,506	1,230,506	203,635		1,232,924		2,463,430	2,463,430
VMSA-19-004 Rev 2						0		0		0	2,463,430
VMSA-19-009						0		0		0	2,463,430
VMA-19-010						0		0		0	2,463,430
VMSA-19-011						0		0		0	2,463,430
VMSA-19-012						0		0		0	2,463,430
VMSA-19-013						0		0		0	2,463,430
VMSA-19-014						0		0		0	2,463,430
VMSA-19-015						3,643		3,643		3,643	2,467,072
VMSA-19-016						0		0		0	2,467,072
VMSA-19-017 Rev 1						39,701		39,701		39,701	2,506,774
VMSA-19-017 Rev 3						38,632		38,632		38,632	2,545,406
VMSA-19-017 Rev 4						43,065		43,065		43,065	2,588,471
VRL0201RP-19-001						0		0		0	2,588,471
VRL0201RP-19-003						0		0		0	2,588,471
VRL0201RP-19-007						0		0		0	2,588,471
VRL0201RP-19-009						0		0		0	2,588,471
VRL0201RP-19-010						0		0		0	2,588,471
VRL20-19-001						0		0		0	2,588,471
VPMT0-19-002						0		0		0	2,588,471
<b>Revised PMB Total</b>	<b>Dec 2018</b>	1,230,506		1,230,506	1,230,506	328,676		1,357,965		2,588,471	

Table 9-1. Consolidated Baseline Change Log Cont.

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 Non-PMB Total</b>	<b>Nov 2018</b>	604,007		604,007		68,633		523,547		1,127,554	1,127,554
VMSA-19-004 Rev 2						0		0		0	1,127,554
VMSA-19-015						421		421		421	1,127,976
VMSA-19-017 Rev 0						35,749		35,749		35,749	1,163,724
VMSA-19-017 Rev 1						1,306		1,306		1,306	1,165,031
VMSA-19-017 Rev 2						41,846		41,846		41,846	1,206,876
VMSA-19-017 Rev 3						6,798		6,798		6,798	1,213,675
VMSA-19-017 Rev 4						30,475		30,475		30,475	1,244,150
<b>Revised Non-PMB Total</b>	<b>Dec 2018</b>	604,007		604,007		185,228		640,143		1,244,150	
<b>total Contract Performance Baseline</b>	<b>Dec 2018</b>	1,834,513		1,834,513	1,834,513	513,904		1,998,108		3,832,621	
<b>Management Reserve</b>	<b>Nov 2018</b>		0	0			5,370		5,370	5,370	5,370
<b>Revised Management Reserve</b>	<b>Dec 2018</b>		0	0			5,370		5,370	5,370	
<b>Total Contract Budget Base</b>	<b>Dec 2018</b>			1,834,513				2,003,478		3,837,990	
<b>Prior Fee Total</b>	<b>Nov 2018</b>	109,961		109,961		14,316		100,648		210,608	210,608
<b>Revised Fee Total</b>	<b>Dec 2018</b>	109,961		109,961		14,316		100,648		210,608	
<b>Change Log Total</b>	<b>Dec 2018</b>			1,944,473				2,104,125		4,048,599	



## 10.0 RISK MANAGEMENT

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

- The December Risk Management Board (RMB) was conducted electronically due to resource availability. As a result, the RMB members reviewed and voted on the changes to the overall company risk posture associated with November data via email. A follow on meeting was held with a subgroup of individuals to resolve questions identified during the review, and the results of that discussion were shared with the RMB. The following items were approved:
  - One new Mission Risk and associated Risk Handling Plan related to Emergency Services (ES).
  - One Mission Risk was closed related to Training & Conduct of Operations (T&CO).
  - Two new Reliability Project risks: one each for Project L-612, *230kV Transmission System Sustainability Upgrades*; and Project L-894, *Raw Water Cross Connection Isolation 200E/W*.
  - Three Project Risks were significantly re-characterized: two for Project L-854, *200E Sewer Consolidations*, and one for Project L-895, *Fire Protection Infrastructure for Plateau Raw Water*.
  - One Project Risk was closed related to Project L-854.
- 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 and Elicitation was held with Training and T&CO. Revisions to the T&CO risk register were captured as appropriate, and a new risk is in development.
  - Mission Risk Elicitation: Risk Management held a risk elicitation with Public Works – Facilities and Data Systems to evaluate a potential risk related to the 2101M Facility. A draft risk is in development.



- Project Risk Management:
  - Monte Carlo Quantitative Risk Analysis: Risk Management completed the Preliminary quantitative risk analysis for Project L-720, *Outdoor Lighting Reconfiguration and Replacement*. The analysis report is in the review cycle.
  - 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: The software continued acceptance testing, and the first release was delayed to January due to necessary revisions. Implementation and an additional release will follow.
  - Structured Improvement Activity: A Reliability Projects and Risk Management Integration Kaizen was held to review the Project Risk Management process for potential opportunities for efficiency. This activity satisfied completion of this Opportunity for Improvement (OFI) Issues Identification Form (IIF) item MSA-IIF-2018-0603.8.



## 11.0 DASHBOARD SUMMARY

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

		December FY 2019 Fiscal Year 2019 PEMP		Status	
		Deliverables		YTD	Dec
<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.				
	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

= Not Applicable (Updated quarterly)

= Complete

= In jeopardy

**1.1.e** –Causal Analysis: Red for the month of December. Two causal analyses were completed in December, one within the goal of 45 days or less, and one in 48 days. The causal analysis completed in 48 days was due to time taken to resolve comments from the Causal Analysis Quality Index (CAQI) review. Cause Analysts were reminded to allow sufficient time for report review and comment resolution. FY 2019 YTD is 83% completed in less than 45 days.



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

		December FY 2019		Status	
		Fiscal Year 2019 PEMP			
		Deliverables		YTD	Dec
<b>1.0 Effective Site Cleanup - Achievement of cleanup contractors' key milestones and regulatory commitments</b>					
1.2	Water           Sewer    Electric	Demonstrate effective management of electric, water and sewer utilities to maximize reliability and redundancy		Green	Green
		Maintain Raw Water Pressure at ICD Level		Green	Yellow
		Maintain Potable Water Pressure at ICD Level		Green	Green
		Perform Preventative maintenance at 90% or better each month		Green	Green
		Maintain backlog corrective maintenance average age of open work packages to 300 days or less		Green	Green
		Ensure all water quality samples are completed on time		Green	Green
		Quarterly System Health Report by Engineering submitted one calendar month after each quarter		Green	Green
		Perform Preventative maintenance at 90% or better each month		Green	Green
		Maintain backlog corrective maintenance average age of open work packages to 300 days or less		Green	Green
		Quarterly System Health Report by Engineering submitted one calendar month after each quarter		Green	Green
		Electrical power availability		Green	Green
		Perform Preventative maintenance at 90% or better each month		Green	Green
		Reduce corrective maintenance backlog identified as of October 1, 2018 by 20% no later than May 1, 2019		Green	Green
Quarterly System Health Report by Engineering submitted one calendar month after each quarter		Green	Green		
1.3	Demonstrate effective development and management of reliability projects that assure mission milestones and regulatory commitments are met		Green	Green	
	a	L-894, Raw Water Cross Connections - Complete construction of the cross tie line.	Green	Green	
	b	L-897, Central Plateau Water Treatment Facility (DFLAW Essential) - Complete 90% of design.	Green	Green	
	c	L-850, Replace 200W 1.1M-gal PW tank (DFLAW Essential) - Complete 100% of design.	Green	Yellow	
	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	Green	Green	

**LEGEND**

= On Schedule

= Objective missed

N/A = Not Applicable (Updated quarterly)

= Complete

= In jeopardy

**1.2 – Raw Water Pressure:** Green for FY 2019 at 124 PSI. The average PSI for the month of December was 125.6. December's Raw Water pressure was lower than November's, but still elevated in support of other Hanford contractor work at the Plutonium Finishing Plant and the Environmental Restoration Disposal Facility. Additionally, the grout work at the PUREX tunnel required the Raw Water grid maintained at a higher PSI than in previous months. With the increase in demand, MSA Water/Sewer Utilities staff determined it necessary to increase raw water pressure to maintain overall water pressure to the raw water grid. Annual Interface Control Document (ICD) raw water (RW) pressure requirements are being met.

**1.3 – Project L-850:** MSA received resubmittal of the 60% design package. The package was accepted, and the contractor is working toward the 90% design. MSA is working closely with the contractor to make an on-time delivery. No impact to schedule anticipated.



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

		December FY 2019 Fiscal Year 2019 PEMP		Status	
		Deliverables		YTD	Dec
<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.				
2.2	Demonstrate effective Hanford Site integration to include, but not limited to, identifying longstanding or emerging issues that affect efficient site operations and provide recommendations for improvement.				
	a	Through the CLC and CIB processes, provide DOE-RL with an unfiltered, forward looking view of emerging operational, budget, regulatory, or contractual issues.			
	b	Conduct Operational Excellence Events: 40% of MSA's FY19 Operational Excellence events will be focused on crosscutting inter-contractor Site Integration opportunities.			
	c	Full implementation of the MSA Assurance system to cover Operations, Financial, Maintenance, Work Management, Emergency Management, Safety and Environmental.			
	d	Conduct monthly performance reviews using the Mission Assurance System demonstrating achievement of MSA's service levels, key milestones and regulatory commitments using a fully Implemented system.			
	f	Prepare Closeout Plan for MSC closeout. Support activities associated with Contract Closeout (subcontracts, incurred cost submissions/audits, accounting reconciliations, etc.).			
<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.			
		Provide leadership to improve management effectiveness and collaborate and participate proactively with customers.			
		Work with DOE and the other Hanford contractors in a spirit of cooperation to demonstrate operational excellence to include, but not limited to, the following areas:			
		Business and financial management using approved purchasing, estimating, property, budget, planning, billing, labor, accounting, and performance measurement systems, providing visibility and transparency to DOE with respect to each of the forgoing			
		Contract change management and subcontract administration and consent activities, e.g., proposal review and negotiation process, including timely and adequate submission of proposals and requests for additional data, timely counteroffers, and attaining small business goals			
		Safeguards and security, fire department operations, emergency response, and emergency operations/emergency management			
		Land Management			
		Infrastructure and services program management, operations and maintenance			
		Effective contractor human resources management			
		Problem identification and corrective action implementation			
		Performed work safely and in a compliant manner that assures the workers, public, and environment are protected from adverse consequences			

**LEGEND**

= On Schedule

= Objective missed

N/A = Not Applicable (Updated quarterly)

= Complete

= In jeopardy

## 12.0 CONTRACT DELIVERABLES STATUS

The following itemizes the contract deliverables due to RL in December 2018, and provides a look ahead through January 2019.

Table 12-1. December 2018 – January 2019 Contract Deliverables

CDRL	Deliverable	Responsible	Date Due	Date Submitted to DOE	Action	Response Time	Date Due from DOE	Date Approved by DOE
CD0051	Milestone Review and IAMIT Meeting Minutes - Oct	Wilson	12/01/18	11/20/18	Information	N/A	N/A	
CD0123	Monthly Billing Reports for DOE Services - Nov	Eckman	12/05/18	11/28/18	Information	N/A	N/A	
CD0051	River Corridor/Central Plateau Quarterly Tri-Party Agreement Milestone Review Meeting Minutes - September 2018	Wilson	12/10/18	12/10/18	Link to AR	N/A	N/A	N/A
CD0144	Monthly Performance Report - Oct	Olsen	12/10/18	12/06/18	Review	None	N/A	
CD0189	Site Sustainability Plan	Wilson	12/13/18	12/11/18	Review	N/A	N/A	
CD0008	Force-On-Force Test Results	Walton	12/14/18	12/13/18	Review	45 days	N/A	
CD0089	Water System Master Plan (Update)	Synoground	12/20/18	12/18/18	N/A	N/A	N/A	
CD0129	Content (Records) Management Security Plan	Eckman	12/21/18	12/19/18	N/A	N/A	N/A	
CD0100	Site-Wide Institutional Controls Plan	Synoground	12/26/18	12/13/18	Review	30 days	N/A	
CD0084	Bonneville Power Administration (BPA) Power and Transmission Service invoice verification and breakdown of site contractor costs - Oct	Synoground	12/30/18	12/26/18	Review	30 days	N/A	
CD0076	Annual Catalog - Seismic	Wilson	12/31/18	12/27/18	Review	30 days	N/A	
CD0187b	FINAL - Hanford Lifecycle Scope, Schedule and Cost Report (Lifecycle Report)	Millikin	12/31/18	12/27/18	N/A	N/A	N/A	
CD0123	Monthly Billing Reports for DOE Services - Dec	Eckman	01/05/19	01/02/19	Review	None	N/A	
CD0124	Quarterly Service Level Report	Eckman	01/10/19	01/08/19	N/A	N/A	N/A	
CD0144	Monthly Performance Report - Nov	Olsen	01/10/19	01/07/19	Information	N/A	N/A	
CD0178	Quarterly Manpower Reports and Budget Forecasts	Walton	01/16/19		Review	N/A	N/A	
CD0023a	National Security System (NSS) - Quarterly Status Report	Walton	01/23/19	01/09/19	Review	30 days	N/A	
CD0084	Bonneville Power Administration (BPA) Power and Transmission Service invoice verification and breakdown of site contractor costs - Nov	Synoground	01/30/19		Review	None	N/A	
CD0039	Mutual Aid Agreements	Walton	01/31/19		Approve	30 days		
CD0064	Hanford Site Environmental Surveillance Master Sampling Schedule	Wilson	01/31/19		Information	N/A	N/A	
CD0064	Hanford Site Environmental Surveillance Master Sampling Schedule	Wilson	01/31/19		Approve	30 days		

NOTE: Areas shaded in gray indicate delivery to DOE, and when the "Date Approved by DOE" is shaded, approval has been received in return.

"Review" responses from DOE are not documented with dates, but shaded when complete.

IAMIT = Interagency Management Integration Team.

TPA = Tri-Party Agreement.

N/A = No action.



## 12.1 GOVERNMENT-FURNISHED SERVICES/INFORMATION AND DOE DECISIONS

There were two Government-Furnished Services and Information (GFS/I) items due to MSA in 2018:

- GF049, due June 1, 2018: DOE to provide a Hanford “planning case” budget to prepare the updated *Hanford Lifecycle Scope, Schedule, and Cost Report*, and
- GF050, due October 31, 2018: DOE Approval of the *DRAFT Hanford Lifecycle Scope, Schedule, and Cost Report* (Lifecycle Report).

Item GF049 is complete. Though delayed, Item GF050 was also completed, which allowed MSA to submit the final 2019 Hanford Lifecycle Scope, Schedule and Cost Report (Contract Deliverable CD0187b) to DOE ahead of the December 31, 2018 due date.



## 13.0 SELF-PERFORMED WORK

Table 13-1. Mission Support Contract Socioeconomic Reporting.

Plan Category	MSA Goal	FY 2019 Actual To-Date	Cumulative %
Small Business	50.0%	70.0%	60.6%
Small Disadvantaged Business	10.0%	12.7%	17.6%
Small Women-Owned Business	6.8%	21.0%	13.5%
HubZone	2.7%	8.6%	5.6%
Small Disadvantaged, Service Disabled	2.0%	5.0%	6.2%
Veteran-Owned Small Business	2.0%	5.0%	7.3%
Local Small Business	Highest Preference	46.5%	-

Through December 2018

### Prime Contract Targets:

- At least 40% contracted out beyond MSA, LLC = 44% (\$1.717B/\$3.860B)
- Small Business 25% of Total Mission Support Contract (MSC) Value = 27% (\$1.041B/\$3.860B)