

# MISSION SUPPORT ALLIANCE

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



# Monthly Performance Report

## May 2016

**W. K. Johnson**  
**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	Major Issues .....	5
2.0	ANALYSIS OF FUNDS.....	6
3.0	SAFETY PERFORMANCE .....	7
4.0	FORMAT 1, DD FORM 2734/1, WORK BREAKDOWN STRUCTURE .....	11
5.0	FORMAT 3, DD FORM 2734/3, BASELINE .....	15
6.0	FORMAT 5, DD FORM 2734/5, EXPLANATIONS AND PROBLEM ANALYSIS .....	17
7.0	USAGE-BASED SERVICES/DIRECT LABOR ADDER SUMMARY.....	25
8.0	RELIABILITY PROJECT STATUS.....	27
9.0	BASELINE CHANGE REQUEST LOG.....	34
10.0	RISK MANAGEMENT .....	36
11.0	DASHBOARD SUMMARY .....	37
12.0	CONTRACT DELIVERABLES STATUS .....	39
12.1	Government-Furnished Services/Information and DOE Decisions .....	40
13.0	SELF-PERFORMED WORK.....	41

### APPENDIX

A	SERVICE AREA SECTIONS.....	A-1
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This list of acronyms is intended as a reference for the reader to provide definitions that are not readily available away from the Hanford Site.

## TERMS

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
BCR	Baseline Change Request
BO	Business Operations
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
EM	Office of Environmental Management
ES	Emergency Services
ES&H	Environment, Safety, and Health
FY	Fiscal Year
FYTD	Fiscal Year to Date
HAMMER	Volpentest Hazardous Materials Management and Emergency Response Training and Education Center
HCAB	Hanford Contract Alignment Board
HLAN	Hanford Local Area Network
HQ	Headquarters
HRIP	Hanford Radiological Instrumentation Program
HSPD	Homeland Security Presidential Directive
IH	Industrial Hygiene
IM	Information Management
IIP	Integrated Investment Portfolio
ISAP	Infrastructure and Services Alignment Plan
ISMS	Integrated Safety Management System
LMSI	Lockheed Martin Services, Inc.
MSA	Mission Support Alliance, LLC
MSC	Mission Support Contract

# ACRONYMS LISTING



NEPA	National Environmental Policy Act
OCCB	Operational Change Control Board
ORP	Office of River Protection
PFM	Portfolio Management
PFPP	Plutonium Finishing Plant
PMB	Performance Measurement Baseline
PMTO	Portfolio Management Task Order
PNNL	Pacific Northwest National Laboratory
PO	Presidents Office
POSP	Parent Organization Support Plan
PPE	Personal Protection Equipment
PTA	Patrol Training Academy
PW	Public Works
RHP	Risk Handling Plan
RL	Richland Operations Office
SAS	Safeguards & Security
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
VoIP	Voice over Internet Protocol
VPP	Voluntary Protection Program
WBS	Work Breakdown Structure



## 1.0 INTRODUCTION

The Executive Overview section is intended to provide an executive-level performance overview. Included herein are descriptions of the Mission Support Alliance, LLC (MSA) significant accomplishments considered to have made the greatest contribution toward safe, environmentally sound, and cost-effective, mission-oriented services; progress against the contract with U.S. Department of Energy (DOE) Richland Operations Office (RL); project cost summary analysis; and overviews of safety. Unless otherwise noted, all data provided is through May 2016.

### 1.1 KEY ACCOMPLISHMENTS

**2016 Health and Safety Exposition (EXPO)** – MSA’s Environmental, Safety & Health (ES&H) staff coordinated the 2016 annual EXPO that was held on May 10-11, 2016, at the TRAC facility in Pasco, Washington. This year’s theme focused on Science, Technology, Engineering, and Mathematics (STEM), and MSA volunteers from various organizations worked alongside other Hanford contractors and service providers to provide engaging and interactive exhibits for both children and adults.

**Annual Fire Ops 101 Training** – For the 11<sup>th</sup> year, the HAMMER Federal Training Center (HAMMER) hosted the Fire Ops 101 event. Thirty-two (32) participants from across the Northwest, including mayors, commissioners, city councilmen, state representatives, and media personnel participated in the union sponsored event, in which participants are paired with an experienced firefighter and go through six real-life emergency simulations. The event is sponsored by the International Association of Fire Fighters.

**Interagency and Commercial Information Technology (IT) Customer Funding** – Over the course of several months culminating in the month of May 2016, MSA Business Operations and Information Management coordinated efforts with DOE’s Budget Division to ensure MSA had authorization and funding to continue IT Services for Interagency and commercial customers. With the transition of IT services from Lockheed Martin to MSA, customers received instructions on how to fund these services. After last minute follow-up, delivery of checks, and closure on requested data, RL was able to provide authorization on the MSA contract to continue services for all customers.

**Annual General Inspection of 200 East (E) Area** – MSA organized and participated in the annual Resource Conservation and Recovery Act (RCRA) permit general inspection of 200 East Area. The inspection of the Hanford facility, required by RCRA, is done to prevent malfunctions and deterioration, operator errors, and discharges, which may

cause or lead to the release of dangerous waste constituents to the environment, or threaten human health.

**Aerial Cables Removed** – MSA technicians successfully and safely removed low-hanging telecommunications cables to allow Washington River Protection Solutions (WRPS) better access for heavy cranes to the C-Tank Farm. The scope included removing two aerial spans of fiber optic and copper cables, messenger wire, moving an aerial telephone terminal, and restoring analog telephone service to the Mobile Office (MO) 512 ingress/egress trailer. MSA Infrastructure Engineering coordinated this work with Electrical Utilities (EU) personnel.



*Low-hanging cables removed*

**Support on “Stop Work” Concerns** – In May, MSA Interface Management coordinated with the Volpentest Hazardous Materials Management and Emergency Response (HAMMER) Training staff in responding to questions from WRPS regarding MSA’s recent “Stop Work” order. The Stop Work was called after workers expressed concerns about being adequately trained in using Powered Air Purifying Respirators (PAPRs). HAMMER Training created a brief training video with additional directions on using PAPRs. The training video was posted online and a link to the video was made available via MSA’s Training website. WRPS was also provided with information on how Site employees could access the training video/course and document completion by signing a Course Completion Roster.

**Septic System 2607-E6 at 200 East** – On May 2016, MSA Maintenance Services conducted excavation activities to determine required repairs for the sanitary septic system in the 2607-E6 Area. They discovered a sewage line failure from a fractured union collar on a check valve. Required repairs and backfilling activities were completed during that same evening. This was a high priority activity completed for MSA Water and Sewer Utilities.



*Septic system excavation*

**Hanford Fire Department (HFD) Training Academy Graduation** – Fourteen new HFD firefighters completed the 12-week HFD Firefighter Academy Training Program in May, which included Technical Rescue and Hazardous Materials Operations, Fire extinguisher Technician, Vehicle Instrumentation Training, and Emergency Vehicle

Accident Prevention training. A formal graduation ceremony was held to recognize their achievements. This was the second class of graduates to complete the Academy in 2016.

**Record Number Student-Days at HAMMER** – HAMMER provided 5,246 student-days of training in May, which is the second month in FY 2016 that has topped the 5,000 mark. By comparison, in FY 2015, student-days only reach 5,000 once. The previous three years did not see a single month with student-days over 5,000. In addition, 359 class sessions were offered during the month, which is the highest number in the past five years.

**Mask Fit Conducts Top 1,000 Fit Tests** – For the fourth month in a row, HAMMER’s Mask Fit technicians conducted over 1,000 fit tests for Hanford Site workers. To date this fiscal year, 6,940 mask fit tests have been conducted, which is more tests than were conducted in all of FY 2013 and FY 2014. In addition to fit testing more workers, the average number of fit tests per worker is also on the rise. The average number of fit tests per worker in FY 2016 is 2.8 compared to 2.0 in FY 2014. These significant achievements are reflective of the dedication, hard work, efficiency, and customer service provided by the Mask Fit Team.

**Reliability Project Investment Portfolio** – At the request of the RL Assistant Manager for Mission Support (AMMS), MSA converted the Reliability Projects Infrastructure Portfolio (RPIP) Process document into a draft RPIP Management Plan. This plan describes the approach for maintaining the RPIP List, enhancing Reliability Project decision-making and configuration management. The RPIP Program Plan is slated for submittal to RL in June 2016.

**Electrical Work at Tank Farms** – MSA right-sized a transformer to increase mobile office capacity at C-Farm Tank Farms. MSA also performed electrical switching at the 2750E Building to replace a secondary transformer in the switchgear room.



*Electrical transformer upgraded at Tank Farms*

## **EU Support at Plutonium Finishing Plant (PFP) –**

EU Lineman, Substation Electricians and Substation Operators continued their support at the PFP. On May 14, 2016, a portable transformer on a skid was moved into place to provide large amounts of temporary power for demolition activities. Lineman prepped the cables for testing, connected jumpers, and closed the fuses.

Operators energized the transformer by closing the primary disconnect. The transformer skid will service mobile offices, air monitors, cameras, and lighting. These actions were provided to help the CH2M HILL Plateau Remediation Company.



*Transformer Skid at PFP*

**283 West (W) Flocculator Motor Installation** – The 283W Water Treatment Facility processes potable water for use on the Central Plateau. The facility has been in operations for over 70 years, and several upgrade projects have commenced to enhance the operability and life cycle of the facility. In May, a new variable frequency drive (VFD) unit was installed to support new 2-horse power flocculator motors in settling basins one and four. Installing this new equipment involves close coordination between Water and Sewer Utilities and Projects personnel to ensure the operational tests were performed satisfactorily, operators were trained on the new equipment, and the appropriate procedures were developed for use.



*VFD unit installed at water treatment facility*

**Hanford Patrol Basic Academy Graduation** – Eighteen new patrol officers graduated from the 17-week security police officer training in May. The course is certified through the National Training Center, and covers defense tactics, first aid, legal authority, emergency vehicle operations, crisis resolution search and seizure, weapons and tactics, active shooter response and tactical combat casualty care. This training results in the officers becoming federally commissioned police officers.

**MSA Organizes Tours for DOE** – MSA organized five tours for DOE in May: Oregon Senator Ron Wyden and staff of Office of River Protection (ORP); Atomic Energy Canada Limited (RL and ORP); Leadership Tri-Cities (RL); Tribal School Tour (RL); and DOE-HQ and RL. In addition to coordinating logistics for executing the tours, MSA

also accompanied Senator Wyden and Atomic Energy Canada Limited groups on each of their tours. Responsibilities involved developing the tour agendas as well as securing briefs as needed, coordinating visitor badging, ensuring personal protective equipment, and participating in the tour as logistics hosts.

## 1.2 MAJOR ISSUES

**Abandoned Paint Waste Investigation** – MSA Environmental Integration Services (EIS) provided support to MSA Real Estate Services following the discovery of abandoned paint containers on May 12, 2016, by City of Richland (WA) personnel north of the 300 Area. Less than one gallon of paint appeared to have been released to the soil. The spilled paint appeared to have not soaked into the ground. The Emergency Operations Center was notified, and an Environmental Event Report was initiated by EIS.

The DOE Environmental Safety and Quality personnel have visited the site, and have indicated that they do not believe an immediate threat to the environment exists. Per DOE request, EIS provided an informational notification to the State of Washington, Department of Ecology, Central Regional Office. Hanford Security has directed EIS to postpone the removal of any material due to an ongoing investigation.



*Abandoned paint containers*



## 2.0 ANALYSIS OF FUNDS

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

Funds Source PBS	Title	DOE Expected Funds	** Funds Received	FYTD Actuals	Remaining Available Funds from Funds Received
1000PD	Richland Program Direction	\$6.6	\$24.2	\$0.1	\$24.1
ORP-0014	Radiological Liquid Tank Waste Stabilization and Disposition Operations	\$7,804.1	\$7,867.6	\$6,000.1	\$1,867.5
RL-0020	Safeguards & Security	\$67,611.6	\$63,793.3	\$42,844.8	\$20,948.5
RL-0040	Reliability Projects/HAMMER/ Inventory	\$30,320.2	\$29,720.3	\$8,048.2	\$21,672.1
RL-0041	B Reactor	\$6,739.7	\$6,785.0	\$1,356.9	\$5,428.1
HSPD (RL11,12,13,30)	Homeland Security Presidential Directive 12	\$2,900.0	\$2,900.0	\$813.6	\$2,086.4
SWS	Site-Wide Services	\$189,754.4	\$176,115.5	\$117,303.3	\$58,812.2
<b>Total</b>		<b>\$305,136.6</b>	<b>\$287,205.9</b>	<b>\$176,367.0</b>	<b>\$110,838.9</b>

FYTD = Fiscal Year to Date.

HAMMER = Volpentest HAMMER Training and  
Education Center.

PMTO = Portfolio Management Task Order.

EAC = Estimate at Completion.

PBS = Project Baseline Summary.

SWS = Site-Wide Services.

PD = Project Development.

\*\* Funds received through Contract Mod 527 dated June 20, 2016.

The burn rate for remaining available funds would fund SWS through September 13, 2016, and RL-0020 through September 12, 2016.



## 3.0 SAFETY PERFORMANCE

MSA experienced two injuries classified as “recordable” during the month of May. One case resulted in a days away, restricted or transferred Days Away, Restricted, Transferred (DART) classification. Additionally, an injury from April was reclassified from First Aid to DART when supplemental information became available. Therefore, the fiscal year Total Recordable Case rate (TRC) is 0.89 and the DART rate is 0.56. Both rates are below the EM goal of 1.1 and 0.60, respectively.

MSA continues to monitor First Aid injuries which have been increasing over the past three months. May concluded with 13 cases which historically is more than twice the average number of First Aid cases for MSA in a given month. 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.

Employees have been briefed at various safety meetings on the recent increase of First Aids with emphasis on awareness and prevention of “walking through life” injuries. Seasonal changes are being observed and additional tools and communications have been provided to employees, such as Wet-bulb Globe Temperature readings, which are environmental temperature indices used to assess the potential of heat strain in workers in a hot environment.



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

**Objective**

To 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
Declining	1.1 - 1.3
Meets	< 1.1

**Performance Data**

	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16
Monthly Recordable Cases	0	0	1	2	2	2	0	3	0	0	2	2
Monthly TRC Rate	0.00	0.00	0.65	1.10	1.45	1.25	0.00	2.11	0.00	0.00	1.31	1.29
Performance (3-m Average)	0.42	0.22	0.22	0.61	1.05	1.25	0.92	1.13	0.70	0.61	0.40	0.78
Performance (12-m Average)	0.68	0.55	0.49	0.49	0.49	0.60	0.60	0.71	0.70	0.63	0.70	0.75

**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-MP-003, Sect. 4.0
Date:	6/13/2016

**FY16 = 0.89    CY16 = 0.87**

### Total Recordable Case (TRC) Rate

Month	Monthly TRC Rate	Performance (3-m Average)	Performance (12-m Average)	Recordable cases
Jun-15	0.00	0.42	0.68	0
Jul-15	0.00	0.22	0.55	0
Aug-15	0.65	0.22	0.49	1
Sep-15	1.10	0.61	0.49	2
Oct-15	1.45	1.05	0.49	2
Nov-15	1.25	1.25	0.60	2
Dec-15	0.00	0.92	0.60	0
Jan-16	2.11	1.13	0.71	3
Feb-16	0.00	0.70	0.70	0
Mar-16	0.00	0.61	0.63	0
Apr-16	1.31	0.40	0.70	2
May-16	1.29	0.78	0.75	2

**Analysis**

May concluded with two (2) injuries classified as 'Recordable'. The separate cases were as follows: (1) an employee suffered a cut finger when it came into contact with a moving grinder wheel; and (2) an employee twisted and experienced a strained knee when entering a vehicle. Additionally, an injury from April was reclassified from First Aid to Recordable (DART) when supplemental information became available. The injury was a sprained ankle that was the result of a worker tripping over an electrical cord.

2016 FYTD TRC Cases: 11  
FY2015 TRC Cases: 10

Types of injuries MSA has experienced during FY 2016 that are classified as Recordable:

- 5 caused by struck by an object, 2 caused by overexertion, 2 by a trip/fall, 1 by foreign object in the eye, and 1 by awkward body motion
- 7 different body parts have been affected: shoulder, hip, eye, head, ankle, finger (4), and knee (2)

**Action**

Injury Prevention Actions:

- Wet bulb readings are being communicated to employees as a precaution for potential heat stress
- Continuation of the "Walking Through Life" safety awareness campaign. May's focus was on "environmental exposure" injuries
- Increased distribution and discussion on safety incidents and Lessons Learned, as applicable
- Employees have been briefed on the recent increase of first aid cases as a potential leading indicator to more serious injuries
- Preparing for the summer season by reviewing/procuring PPE for changing environmental conditions such as wind and warmer temperatures

**Additional Info**

None

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

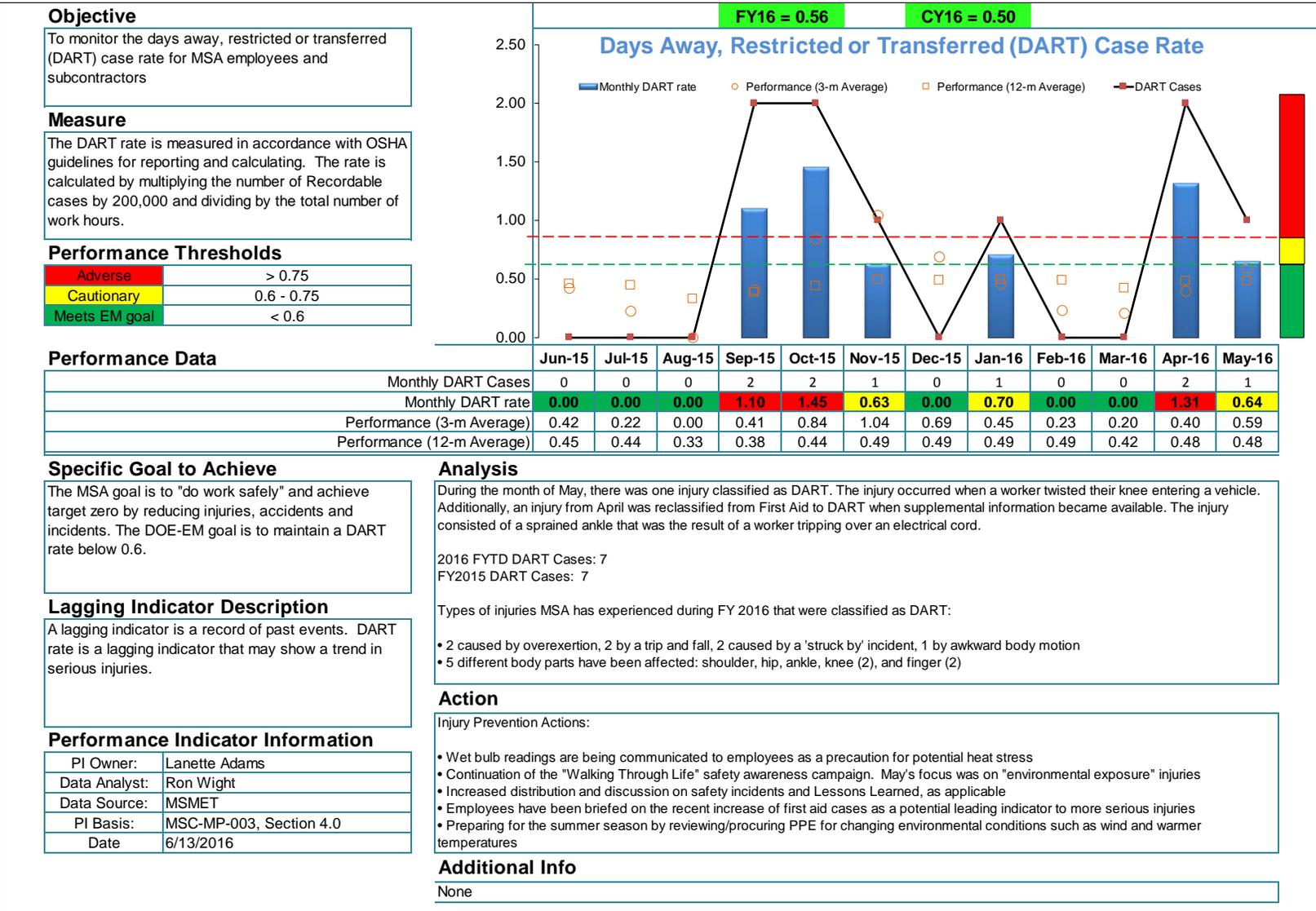




Table 3-3. First-Aid Case Rate

**Objective**

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

**Measure**

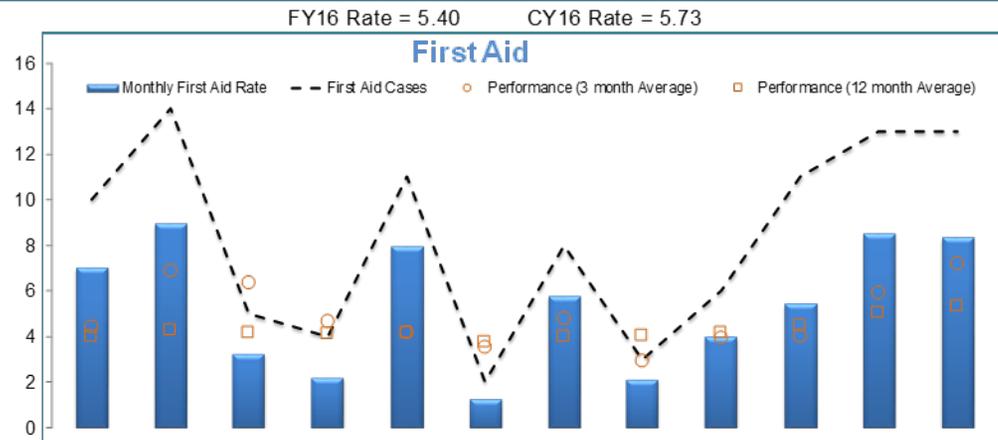
The metric is a count of the number of First Aid cases per month, and the rate of cases. The rate is calculated by multiplying the number of First Aid cases by 200,000 and dividing by the total number of work hours for a given period.

**Performance Thresholds**

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

**Performance Data**

	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16
First Aid Cases	10	14	5	4	11	2	8	3	6	11	13	13
Monthly First Aid Rate	7.01	8.96	3.23	2.19	7.97	1.25	5.76	2.11	4.00	5.43	8.51	8.35
Performance (3 month Average)	4.42	6.90	6.39	4.66	4.21	3.54	4.81	2.95	3.94	4.04	5.94	7.24
Performance (12 month Average)	4.02	4.26	4.18	4.11	4.16	3.75	4.01	4.03	4.17	4.47	5.03	5.33



**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-MP-003 Sect. 4.0
Date	6/13/2016

**Analysis**

May concluded with 13 First Aid injury cases which historically is more than twice the average number of First Aid cases for MSA in a given month. The cases included the following: two (2) instances of strains from awkward motion/overexertion; nine (9) cases of employees injured from being struck by/against an object; and two (2) trip/falls.

FY2016 First Aid Cases: 67  
 FY2016 First Aid Case Rate: 5.40

Types of injuries MSA has experienced during FY 2016 that were classified as First Aid:

- 19% by a slip/trip/fall, 39% by contact with/struck by an object, 36% were caused by overexertion
- 27% leg/foot injuries, 25% head/eye injuries, 42% arm/hand injuries

**Action**

Injury Prevention Actions:

- Wet bulb readings are being communicated to employees as a precaution for potential heat stress
- Continuation of the "Walking Through Life" safety awareness campaign. May's focus was on "environmental exposure" injuries
- Increased distribution and discussion on safety incidents and Lessons Learned, as applicable
- Employees have been briefed on the recent increase of first aid cases as a potential leading indicator to more serious injuries
- Preparing for the summer season by reviewing/procuring PPE for changing environmental conditions such as wind and warmer temperatures

**Additional Info**

None



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

Table 4-1. Format 1, DD Form 2 734/1, 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 (2016/4/25)									
b. Location (Address and Zip Code) Richland, WA 99352		b. Number RL14728			b. Phase Operations			b. To (2016/5/22)									
		c. TYPE CPAF			d. Share Ratio			c. EVMS ACCEPTANCE No X Yes									
5. CONTRACT DATA																	
a. QUANTITY N/A		b. NEGOTIATED COST \$3,416,986		c. ESTIMATED COST OF AUTHORIZED UNPRICED WORK \$275		d. TARGET PROFIT/FEE \$209,753		e. TARGET PRICE \$3,626,738		f. ESTIMATED PRICE \$3,737,948		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) William K. Johnson, Robert G. Galt			b. TITLE MSC Project Manager						
a. BEST CASE		\$3,417,261						c. SIGNATURE [Signature]			d. DATE SIGNED 6/30/16						
b. WORST CASE		\$3,704,605															
c. MOST LIKELY		\$3,528,195		3,417,261		(110,934)											
8. PERFORMANCE DATA																	
Item (1)	Current Period						Cumulative to Date					At Completion					
	Budgeted Cost		Actual Cost Work Performed (4)	Variance		Budgeted Cost		Actual Cost		Variance		Budgeted (12)	Estimated (13)	Variance (14)			
	Work Scheduled (2)	Work Performed (3)		Schedule (5)	Cost (6)	Work Scheduled (7)	Work Performed (8)	Work Performed (9)	Schedule (10)	Cost (11)							
a. WORK BREAKDOWN STRUCTURE ELEMENT																	
3001.01.01 - Safeguards and Security	3,913	3,913	4,621	0	(708)	387,120	387,120	398,370	0	(11,250)	542,303	556,825	(14,522)				
3001.01.02 - Fire and Emergency Response	1,344	1,344	2,373	0	(1,029)	134,800	134,800	149,434	(0)	(14,635)	188,038	206,693	(18,655)				
3001.01.03 - Emergency Management	426	426	315	0	111	36,705	36,705	30,839	0	5,866	53,540	47,422	6,118				
3001.01.04 - HAMMER	244	244	492	0	(248)	42,827	42,827	49,032	(0)	(6,205)	51,469	59,614	(8,145)				
3001.01.05 - Emergency Services Management	208	208	142	0	66	6,550	6,550	6,812	(0)	(263)	12,952	14,428	(1,476)				
3001.02.01 - Site-Wide Safety Standards	26	26	100	0	(74)	4,588	4,588	5,432	(0)	(843)	5,631	6,770	(1,139)				
3001.02.02 - Environmental Integration	320	320	406	0	(86)	44,583	44,583	39,927	0	4,656	57,225	53,241	3,984				
3001.02.03 - Public Safety & Resource Protection	803	803	648	0	156	47,363	47,363	42,142	0	5,221	78,150	72,449	5,701				
3001.02.04 - Radiological Site Services	0	0	4	(0)	(4)	3,827	3,827	4,760	0	(933)	3,827	4,790	(963)				
3001.02.05 - WSCF Analytical Services	71	71	3	0	68	54,385	54,385	50,464	(0)	3,921	57,139	52,892	4,247				
3001.03.01 - IM Project Planning & Controls	300	300	187	0	113	29,924	29,924	27,356	0	2,568	42,123	38,660	3,463				
3001.03.02 - Information Systems	931	931	740	0	192	88,349	88,349	86,157	(0)	2,191	123,287	119,279	4,008				
3001.03.03 - Infrastructure / Cyber Security	249	249	253	0	(4)	24,752	24,752	28,048	(0)	(3,297)	34,418	37,517	(3,099)				
3001.03.04 - Content & Records Management	566	566	441	0	125	53,173	53,173	48,453	0	4,721	75,181	69,437	5,744				
3001.03.05 - IR/CM Management	25	25	364	0	(339)	3,673	3,673	9,227	0	(5,554)	4,658	10,548	(5,890)				
3001.03.06 - Information Support Services	162	162	98	0	63	12,027	12,027	9,436	0	2,590	18,208	15,268	2,940				
3001.04.01 - Roads and Grounds Services	227	227	253	0	(26)	19,791	19,791	17,243	0	2,548	28,790	27,024	1,766				
3001.04.02 - Biological Services	263	263	259	0	4	23,813	23,813	24,727	0	(914)	34,198	35,181	(983)				
3001.04.03 - Electrical Services	478	478	936	0	(457)	49,510	49,510	68,852	0	(19,342)	68,400	89,873	(21,473)				
3001.04.04 - Water/Sewer Services	541	541	1,413	(0)	(872)	43,907	43,907	69,666	(0)	(25,758)	65,425	95,093	(29,668)				
3001.04.05 - Facility Services	0	0	0	(0)	0	7,909	7,909	7,900	0	9	7,909	7,900	9				
3001.04.06 - Transportation	0	0	23	0	(23)	7,974	7,974	9,616	0	(1,642)	7,974	9,727	(1,753)				



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

CONTRACT PERFORMANCE REPORT													DOLLARS IN Thousands		FORM APPROVED OMB No. 0704-0188										
FORMAT 1 - WORK BREAKDOWN STRUCTURE																									
1. Contractor		2. Contract				3. Program				4. Report Period															
a. Name		a. Name				a. Name				a. From (2016/4/25)															
Mission Support Alliance		Mission Support Contract				Mission Support Contract																			
b. Location (Address and Zip Code)		b. Number				b. Phase				b. To (2016/5/22)															
Richland, WA 99352		RL14728				Operations																			
c. TYPE		d. Share Ratio				c. EVMS ACCEPTANCE																			
		CPAF				No X Yes																			
Item (1)	Current Period					Cumulative to Date					At Completion														
	Budgeted Cost		Actual Cost Work Performed (4)	Variance		Budgeted Cost		Actual Cost Work Performed (9)	Variance		Budgeted (12)	Estimated (13)	Variance (14)												
	Work Scheduled (2)	Work Performed (3)		Schedule (5)	Cost (6)	Work Scheduled (7)	Work Performed (8)		Schedule (10)	Cost (11)															
a. WORK BREAKDOWN STRUCTURE ELEMENT (Cont'd)																									
3001.04.07 - Fleet Services	46	46	54	0	(8)	6,895	6,895	7,076	0	(180)	8,729	8,965	(235)												
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	0	0	0	0	0	370	370	370	(0)	(1)	370	370	(1)												
3001.04.10 - Technical Services	240	240	301	0	(61)	30,900	30,900	32,609	0	(1,709)	40,338	42,411	(2,073)												
3001.04.11 - Energy Management	228	228	116	0	113	12,375	12,375	6,614	(0)	5,761	21,836	15,657	6,179												
3001.04.12 - Hanford Historic Buildings Preservation	182	220	205	37	14	17,953	17,040	16,569	(912)	472	21,219	20,663	556												
3001.04.13 - Work Management	81	81	186	0	(105)	8,563	8,563	11,130	(0)	(2,567)	11,732	14,816	(3,084)												
3001.04.14 - Land and Facilities Management	463	463	374	0	89	32,566	32,566	28,553	(0)	4,012	49,302	45,417	3,884												
3001.04.15 - Mail & Courier	97	97	49	0	49	7,016	7,016	5,021	(0)	1,996	10,829	8,624	2,205												
3001.04.16 - Property Systems/Acquisitons	441	441	514	0	(73)	37,554	37,554	38,192	0	(639)	54,987	55,641	(654)												
3001.04.17 - General Supplies Inventory	11	11	(50)	0	60	2,135	2,135	1,301	0	835	2,548	1,576	972												
3001.04.18 - Maintenance Management Program Implem	159	159	363	0	(204)	6,120	6,120	6,171	0	(50)	12,364	12,825	(461)												
3001.06.01 - Business Operations	276	276	358	0	(82)	34,296	34,296	37,037	0	(2,741)	45,160	48,831	(3,671)												
3001.06.02 - Human Resources	190	190	171	0	18	16,281	16,281	15,756	(0)	525	23,998	23,666	332												
3001.06.03 - Safety, Health & Quality	1,008	1,008	1,364	0	(356)	103,409	103,409	120,779	(0)	(17,370)	141,237	159,478	(18,241)												
3001.06.04 - Miscellaneous Support	551	551	490	(0)	62	45,725	45,725	34,611	(0)	11,114	68,898	57,267	11,632												
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	959	959	2,529	0	(1,570)	959	2,529	(1,570)												
3001.07.01 - Portfolio Management	378	378	356	0	22	50,300	50,300	46,083	(0)	4,218	68,624	63,992	4,632												
3001.08.01 - Water System	895	1,049	793	154	256	17,289	16,183	7,398	(1,106)	8,786	25,995	15,778	10,217												
3001.08.02 - Sewer System	53	33	122	(20)	(89)	5,732	5,569	8,830	(163)	(3,261)	6,147	10,191	(4,044)												
3001.08.03 - Electrical System	1,021	506	427	(516)	79	11,920	13,123	14,228	1,203	(1,105)	17,176	17,865	(689)												
3001.08.04 - Roads and Grounds	15	448	191	434	257	5,200	3,707	3,116	(1,493)	591	14,071	13,508	563												
3001.08.05 - Facility System	0	0	0	0	0	5,611	5,611	5,652	(0)	(41)	7,172	7,213	(41)												
3001.08.06 - Reliability Projects Studies & Estimates	74	74	118	0	(45)	3,596	3,596	5,375	(0)	(1,780)	6,441	8,503	(2,063)												
3001.08.07 - Reliability Project Spare Parts Inventory	0	0	10	0	(10)	86	86	2,298	0	(2,212)	86	2,671	(2,586)												
3001.08.08 - Network & Telecommunications System	21	22	7	1	15	9,698	9,770	14,557	72	(4,787)	9,890	14,695	(4,805)												
3001.08.09 - Capital Equipment Not Related to Construct	0	0	0	0	0	9,034	9,034	8,844	(0)	190	12,239	12,049	190												
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	965	965	725	0	240	965	725	240												
3001.08.12 - Reliability Projects Out Year Planning	0	0	0	0	0	0	0	0	0	0	93,761	93,761	0												
3001.90.04 - MSA Transition	0	0	0	0	0	5,868	5,868	5,868	0	0	5,868	5,868	0												
3001.B1.06 - Projects	0	0	0	0	0	(0)	(0)	0	(0)	(0)	(0)	0	(0)												
b. COST OF MONEY																									
c. GENERAL AND ADMINISTRATIVE																									
d. UNDISTRIBUTED BUDGET															0										
e. SUBTOTAL (Performance Measurement Baseline)													17,529	17,620	20,590	91	(2,970)	1,619,146	1,616,747	1,674,197	(2,399)	(57,450)	2,346,970	2,419,198	(72,229)



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

CONTRACT PERFORMANCE REPORT												DOLLARS IN Thousands			FORM APPROVED OMB No. 0704-0188	
FORMAT 1 - WORK BREAKDOWN STRUCTURE																
1. Contractor		2. Contract			3. Program			4. Report Period								
a. Name		a. Name			a. Name			a. From (2016/4/25)								
Mission Support Alliance		Mission Support Contract			Mission Support Contract											
b. Location (Address and Zip Code)		b. Number			b. Phase			b. To (2016/5/22)								
Richland, WA 99352		RL14728			Operations											
c. TYPE		d. Share Ratio			c. EVMS ACCEPTANCE											
CPAF					No X Yes											
Item (1)	Current Period					Cumulative to Date					At Completion					
	Budgeted Cost		Actual Cost	Variance		Budgeted Cost		Actual Cost	Variance		Budgeted (12)	Estimated (13)	Variance (14)			
	Work Scheduled (2)	Work Performed (3)	Work Performed (4)	Schedule (5)	Cost (6)	Work Scheduled (7)	Work Performed (8)	Work Performed (9)	Schedule (10)	Cost (11)						
a2. WORK BREAKDOWN STRUCTURE ELEMENT																
3001.01.04 - HAMMER	903	903	1,197	0	(294)	94,882	94,882	92,974	0	1,908	121,387	121,523	(136)			
3001.02.04 - Radiological Site Services	996	996	603	(0)	392	49,569	49,569	35,191	(0)	14,378	87,635	72,122	15,513			
3001.02.05 - WSCF Analytical Services	995	995	0	(0)	995	76,883	76,883	53,176	0	23,707	113,653	85,486	28,167			
3001.03.02 - Information Systems	208	208	181	0	27	788	788	759	0	29	1,710	1,664	45			
3001.03.04 - Content & Records Management	61	61	66	0	(5)	246	246	215	0	31	526	535	(8)			
3001.03.06 - Information Support Services	0	0	0	0	0	4,726	4,726	4,043	(0)	683	4,726	4,043	683			
3001.03.07 - Information Technology Services	344	344	2,401	0	(2,057)	481	481	2,553	0	(2,072)	10,101	11,378	(1,276)			
3001.04.05 - Facility Services	532	532	779	0	(247)	43,836	43,836	47,740	0	(3,904)	64,312	69,201	(4,889)			
3001.04.06 - Transportation	146	146	624	0	(479)	18,984	18,984	30,528	0	(11,544)	24,570	37,868	(13,298)			
3001.04.07 - Fleet Services	604	604	1,078	0	(474)	79,593	79,593	92,943	0	(13,350)	102,971	118,423	(15,453)			
3001.04.08 - Crane and Rigging	746	746	913	0	(166)	76,933	76,933	80,842	0	(3,910)	106,027	111,124	(5,097)			
3001.04.10 - Technical Services	0	0	72	0	(72)	0	0	520	0	(520)	0	1,128	(1,128)			
3001.04.13 - Work Management	0	0	52	0	(52)	595	595	2,480	0	(1,885)	595	2,691	(2,096)			
3001.04.14 - Land and Facilities Management	560	560	574	0	(15)	43,935	43,935	42,023	(0)	1,912	65,481	63,795	1,687			
3001.04.15 - Mail & Courier	16	16	18	0	(2)	957	957	993	0	(36)	1,590	1,638	(48)			
3001.06.01 - Business Operations	738	738	726	(0)	12	74,059	74,059	78,219	(0)	(4,159)	101,571	108,727	(7,156)			
3001.06.02 - Human Resources	134	134	245	0	(111)	15,013	15,013	19,277	(0)	(4,264)	20,209	25,276	(5,067)			
3001.06.03 - Safety, Health & Quality	145	145	115	(0)	30	11,397	11,397	8,817	(0)	2,579	17,156	14,712	2,444			
3001.06.04 - Miscellaneous Support	66	66	105	0	(38)	8,667	8,667	10,529	(0)	(1,861)	11,298	13,622	(2,324)			
3001.06.05 - Presidents Office (G&A nonPMB)	286	286	190	0	96	21,135	21,135	17,115	(0)	4,021	32,001	27,858	4,143			
3001.06.06 - Strategy	20	20	19	0	1	2,656	2,656	2,315	(0)	341	3,456	3,102	354			
3001.A1.01 - Transfer - CHPRC	5,496	5,496	4,288	0	1,208	543,358	543,358	479,686	0	63,672	750,618	680,881	69,737			
3001.A1.02 - Transfer - WRPS	1,121	1,121	2,652	0	(1,531)	110,635	110,635	157,713	0	(47,078)	152,357	207,813	(55,456)			
3001.A1.03 - Transfers - FH Closeout	0	0	5	0	(4)	173	173	194	0	(20)	184	214	(30)			
3001.A1.04 - Transfers - CHG Closeout	0	0	0	0	0	12	12	13	0	(0)	12	13	(0)			
3001.A2.01 - Non Transfer - BNI	0	0	24	0	(24)	1,188	1,188	2,718	0	(1,530)	1,188	2,795	(1,607)			
3001.A2.02 - Non Transfer - AMH	12	12	0	0	12	1,486	1,486	954	(0)	532	1,919	1,334	585			
3001.A2.03 - Non Transfer - ATL	16	16	0	0	16	967	967	702	0	265	1,541	1,220	320			
3001.A2.04 - Non-Transfer - WCH	306	306	169	0	137	37,674	37,674	40,732	0	(3,058)	48,597	51,278	(2,682)			
3001.A2.05 - Non-Transfers - HPM	0	0	48	0	(48)	3	3	1,366	0	(1,363)	3	1,570	(1,566)			
3001.A2.06 - Non-Transfers - BNI Corp	0	0	0	0	0	0	0	1	0	(1)	0	1	(1)			
3001.A2.07 - Non-Transfers-WAI	0	0	24	0	(24)	0	0	175	0	(175)	0	275	(275)			
3001.A4.01 - Request for Services	360	360	707	0	(347)	65,120	65,120	91,893	0	(26,773)	79,111	107,873	(28,762)			
3001.A4.02 - HAMMER RFSs	3	3	462	0	(459)	7,043	7,043	24,044	0	(17,000)	7,149	26,109	(18,959)			
3001.A4.03 - National Guard RFSs	0	0	0	0	0	1,601	1,601	1,550	0	51	1,605	1,554	51			
3001.A4.04 - PNNL RFSs	19	19	32	0	(13)	6,714	6,714	9,647	(0)	(2,934)	7,319	10,321	(3,002)			
3001.A5.01 - RL PD	50	50	104	0	(54)	2,602	2,602	5,433	0	(2,831)	4,567	7,717	(3,150)			
3001.A5.02 - ORP PD	0	0	134	0	(134)	37	37	6,881	0	(6,844)	37	7,524	(7,487)			



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

CONTRACT PERFORMANCE REPORT												DOLLARS IN Thousands		FORM APPROVED OMB No. 0704-0188	
FORMAT 1 - WORK BREAKDOWN STRUCTURE															
1. Contractor			2. Contract			3. Program			4. Report Period						
a. Name			a. Name			a. Name			a. From (2016/4/25)						
b. Location (Address and Zip Code)			b. Number			b. Phase			b. To (2016/5/22)						
c. TYPE			d. Share Ratio			c. EVMS ACCEPTANCE									
Item (1)	Current Period						Cumulative to Date					At Completion			
	Budgeted Cost		Actual Cost	Variance		Budgeted Cost		Actual Cost		Variance	Budgeted (12)	Estimated (13)	Variance (14)		
	Work Scheduled (2)	Work Performed (3)	Work Performed (4)	Schedule (5)	Cost (6)	Work Scheduled (7)	Work Performed (8)	Work Performed (9)	Schedule (10)	Cost (11)					
3001.A5.03 - RL Project Funded	0	0	4	0	(4)	0	0	4	0	(4)	0	6	(6)		
3001.A6.01 - Portfolio PMTOs	21	21	18	0	3	132	132	116	0	15	221	183			
3001.A7.01 - G&A Liquidations	(1,407)	(1,407)	(1,756)	0	349	(133,777)	(133,777)	(140,656)	0	6,879	(187,291)	(195,988)	8,697		
3001.A7.02 - DLA Liquidations	(943)	(943)	(1,470)	0	527	(63,906)	(63,906)	(78,871)	0	14,965	(91,127)	(108,932)	17,805		
3001.A7.03 - Variable Pools Revenue	(4,821)	(4,821)	(3,620)	0	(1,200)	(427,510)	(427,510)	(405,989)	0	(21,522)	(613,666)	(590,760)	(22,906)		
3001.B1.01 - UBS Assessments for Other Providers	2	2	0	0	2	99	99	0	0	99	184	0	184		
3001.B1.02 - UBS Other MSC - HAMMER M&O	10	10	0	0	10	451	451	0	(0)	451	843	0	843		
3001.B1.03 - Assessment for Other Provided Services	103	103	0	0	103	4,587	4,587	0	(0)	4,587	8,612	0	8,612		
3001.B1.04 - Assessment for PRC Services to MSC	57	57	0	0	57	2,748	2,748	0	(0)	2,748	4,977	0	4,977		
3001.B1.07 - Request for Services	1	1	0	0	1	241	241	0	(0)	241	274	0	274		
a2. WORK BREAKDOWN STRUCTURE ELEMENT															
b2. COST OF MONEY															
c2. GENERAL AND ADMINISTRATIVE															
d2. UNDISTRIBUTED BUDGET												0	0		
e2. SUBTOTAL (Non - Performance Measurement)	7,905	7,905	11,779	0	(3,874)	787,011	787,011	821,556	0	(34,545)	1,070,209	1,108,914	(38,744)		
f. MANAGEMENT RESERVE											83	83	0		
g. TOTAL	25,435	25,525	32,369	91	(6,844)	2,406,157	2,403,758	2,495,752	(2,399)	(91,994)	3,417,261	3,528,195	(110,973)		
9. RECONCILIATION TO CONTRACT BUDGET BASE															
a. VARIANCE ADJUSTMENT															
b. TOTAL CONTRACT VARIANCE															



5.0 FORMAT 3, DD FORM 2734/3, BASELINE

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

CONTRACT PERFORMANCE REPORT																			
FORMAT 3 - BASELINE														DOLLARS IN Thousands		FORM APPROVED OMB No. 0704-0188			
<b>1. Contractor</b>		<b>2. Contract</b>			<b>3. Program</b>				<b>4. Report Period</b>										
a. Name		a. Name			a. Name				a. From (2016/4/25)										
Mission Support Alliance		Mission Support Contract			Mission Support Contract				b. To (2016/5/22)										
b. Location (Address and Zip Code)		b. Number			b. Phase														
Richland, WA 99352		RL14728			Operations														
c. TYPE		d. Share Ratio			c. EVMS ACCEPTANCE														
CPAF					No <input checked="" type="checkbox"/> Yes														
<b>5. CONTRACT DATA</b>																			
a. ORIGINAL NEGOTIATED COST				b. NEGOTIATED CONTRACT CHANGES		c. CURRENT NEGOTIATED COST (a+b)		d. ESTIMATED COST OF UNAUTHORIZED UNPRICED WORK		e. CONTRACT BUDGET BASE (C+D)		f. TOTAL ALLOCATED BUDGET		g. DIFFERENCE (E - F)					
\$2,854,966				\$562,020		\$3,416,986		\$275		\$3,417,261		\$3,417,261		(\$0)					
h. CONTRACT START DATE				i. CONTRACT DEFINITIZATION DATE				j. PLANNED COMPLETION DATE				k. CONTRACT COMPLETION DATE				l. ESTIMATED COMPLETION DATE			
2009/05/24				2009/05/24				2019/05/25				2019/05/25				2019/05/25			
<b>6. PERFORMANCE DATA</b>																			
ITEM  (1)	BCWS CUMULATIVE TO DATE (2)	BCWS FOR REPORT PERIOD (3)	BUDGETED COST FOR WORK SCHEDULED (BCWS) (Non-Cumulative)													UNDISTRIBUTED BUDGET (15)	TOTAL BUDGET (16)		
			Six Month Forecast By Month																
			June FY 16 (4)	July FY16 (5)	Aug FY16 (6)	Setp FY16 (7)	Oct FY17 (8)	Nov FY17 (9)	Dec FY17 (10)	Jan FY17 (11)	Remaining FY17 (12)	FY18 (13)	FY19 (14)						
a. PERFORMANCE MEASUREMENT BASELINE (Beginning of Period)	1,601,617	17,612	17,231	21,773	17,438	24,712	13,861	16,725	14,854	17,399	237,542	210,904	135,383	0	2,347,053				
b. BASELINE CHANGES AUTHORIZED DURING REPORT PERIOD	17,529	(17,612)	0	0	0	0	0	0	0	0	0	0	0	0	(83)				
a. PERFORMANCE MEASUREMENT BASELINE (End of Period)	1,619,146		17,231	21,773	17,438	24,712	13,861	16,725	14,854	17,399	237,542	210,904	135,383	0	2,346,970				



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		a. Name			a. Name					a. From (2016/4/25)						
Mission Support Alliance		Mission Support Contract			Mission Support Contract											
b. Location (Address and Zip Code)		b. Number			b. Phase					b. To (2016/5/22)						
Richland, WA 99352		RL14728			Operations											
c. TYPE		d. Share Ratio			c. EVMS ACCEPTANCE											
CPAF					No X Yes											
6. PERFORMANCE DATA																
ITEM	BCWS CUMULATIVE TO DATE (2)	BCWS FOR REPORT PERIOD (3)	BUDGETED COST FOR WORK SCHEDULED (BCWS) (Non-Cumulative)													
			Six Month Forecast By Month												UNDISTRIBUTED BUDGET (15)	TOTAL BUDGET (16)
			June FY 16 (4)	July FY16 (5)	Aug FY16 (6)	Setp FY16 (7)	Oct FY17 (8)	Nov FY17 (9)	Dec FY17 (10)	Jan FY17 (11)	Remaining FY17 (12)	FY18 (13)	FY19 (14)			
a2. NON - PERFORMANCE MEASUREMENT BASELINE (Beginning of Period)	779,106	7,902	6,721	8,829	7,053	11,623	6,140	7,555	6,611	7,818	65,386	92,834	62,608			1,070,186
b2. BASELINE CHANGES AUTHORIZED DURING REPORT PERIOD	7,905	(7,902)	4	5	4	6	0	0	0	0	0	0	0	0	0	23
a2. NON - PERFORMANCE MEASUREMENT BASELINE (End of Period)	787,011		6,725	8,834	7,057	11,629	6,140	7,555	6,611	7,818	65,386	92,834	62,608			1,070,209
7. MANAGEMENT RESERVE																83
8. TOTAL	2,406,157	0	23,957	30,608	24,496	36,342	20,001	24,280	21,464	25,217	302,928	303,738	197,991	0		3,417,261



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.

Contract Performance Report Format 5			
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 (2016/4/25)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number RL14728	b. Phase Operations	b. To (2016/5/22)
	c. Type CPAF	d. Share Ratio	
<b>5. Evaluation</b>			
<p><b><u>Explanation of Variance /Description of Problem:</u></b></p> <p><b>Current Month Cost Variance (CV):</b></p> <p><b>3001.01.01 Safeguards and Security</b> – Primary drivers for the negative CM CV are due to implementation of the Graded Security Protection Policy that significantly increased manpower requirements and the bid assumption that the Spent Nuclear Material (SNM) would be shipped off the Hanford site by year 3. This policy was subsequent to the MSA baseline proposal and implementation.</p> <p><b>3001.01.02 Fire and Emergency Response</b> – Unfavorable CM CV is primarily due to the approved Integrated Investment Portfolio (IIP) funded scope being divergent from the contract baseline because of a budgeting omission for platoon shift hours in the Hanford Fire Department as well as the bid assumption that multiple fire stations would have been closed.</p> <p><b>3001.01.04 HAMMER</b> – Unfavorable CM CV is predominantly due to the assumption that less Environmental Management (EM) funding would be required because HAMMER could self-fund itself by performing enough services for non-Hanford entities. This assumption that was included in the proposal has not occurred. As a result, the EM budget will remain lower than the EM funds authorized. This divergent situation will remain and continue to increase the FY 2016 cost variance. Services delivered at HAMMER will not be adversely affected because the services are executed consistent with the approved IIP scope.</p> <p><b>3001.03.05 IR/CM Management</b> – Unfavorable CM CV is due to the unplanned Information Technology (IT) subcontract transition efforts and related software costs.</p> <p><b>3001.04.03 Electrical Services</b> – Unfavorable CM CV is due to staffing levels that are currently higher than the baseline due to maintenance activities required to keep the electrical distribution system maintained. The system has degraded across the site due to age. Electrical Services is part of the Enhanced Maintenance Program, and has compliance issues that have increased the cost to the program.</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 (2016/4/25)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number RL14728	b. Phase Operations	b. To (2016/5/22)
	c. Type CPAF	d. Share Ratio	

**3001.04.04 Water/Sewer Services** – Unfavorable CM CV is due to staffing levels that are currently higher than the baseline due to maintenance activities required to keep the water and sewer distribution system maintained. The system has degraded across the site due to age. Water & Sewer Utilities (W&SU) is part of the Enhanced Maintenance Program, and has compliance issues that have increased the cost to the program.

**3001.06.03 Safety, Health & Quality** – Unfavorable CM CV is primarily due to the IIP scope and approved funding increases in the Radiation Protection, Worker Safety & Health, and Beryllium accounts. Since fiscal year IIP/funding authorizations adjust for these differences, no mitigations are planned at this time.

**3001.08.01 Water System** – Favorable CM CV is primarily due to L-840, “24 Inch Line Replacement from 2901Y to 200W” construction work and procurement being completed for less than planned.

**3001.08.04 Roads and Grounds** – Favorable CM CV is due to the construction contract for L-856, “Route 4N Rut Repair” road paving being completed for less than planned.

**3001.A1 – 3001.B1 Non-PMB** – Unfavorable CM CV is primarily due to RL approved funding and priority scope being divergent from the baseline for Request for Service (RFS) and Inter-Contractor Work Order (ICWO) activities.

**Impacts – Current Month Cost Variance:**  
MSA is operating at authorized FY 2016 funding levels that exceed the contract budget. There are no impacts associated with this CM negative CV.

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

**Current Month Schedule Variance:**

**3001.08.01 Water System** – Favorable CM SV is primarily due to completing procurement for construction and performing excavation and pipe installation ahead of schedule for projects L-525 & L-840 24 Inch Water Line Replacement.

**3001.08.03 Electrical System** – Procurement for construction and construction activities for project L-780, “200E 13.8kV Electrical Distribution System Mods” was performed in prior months. As a result, work scheduled for this month reflects an unfavorable CM SV.

**3001.08.04 Roads and Grounds** –Favorable CM SV is due to May 2016 completion of the construction contract for L-856, “Route 4N Rut Repair” road paving that was initially planned for April 2016.



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 (2016/4/25)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728	b. Phase - Operations	b. To (2016/5/22)
	c. Type CPAF	d. Share Ratio NO X YES	

**Impacts – Current Month Schedule Variance:** Minimal impacts because each Reliability Project is an independent stand-alone project.

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

**Cumulative Cost Variance:** Several key areas contributing to the cumulative CV are as follows: **Fiscal Year Funding Authorizations:** During October of 2011, MSA completed re-aligning the baseline to the negotiated contract, and using the approved change control process, implemented the re-aligned baseline data for the start of 2012. RL provided approval of the baseline data for reporting progress, and also provided an approved and funded priority list of items for MSA work scope. The contract-to-date variance is primarily due to the RL approved funding and priority list scope being divergent from the baseline for FY 2013, FY 2014, FY 2015, and FY 2016.

**Labor and Pension costs:** After the original submittal of the Forward Pricing Rates (FPR), it was determined that MSA had incorrectly factored the cost of the Hanford Site Pension Plan (HSPP) and the Hanford Employee Welfare Trust (HEWT) into the labor rates. This was disclosed to MSA in the Source Selection Evaluations Board’s (SEB) Debrief of the Mission Support Contract (MSC) in May 2009. MSA received contract modifications associated with pension cost and labor adder adjustments for FY 2009 through FY 2015, which increased the contract value. At the request of RL, the labor and pension proposals are submitted annually at fiscal year-end. The variances associated with labor and pension impact all WBS elements that include labor.

**3001.01.01 Safeguards and Security:** Cumulative unfavorable CV is primarily due to differences in the baseline budgeting and fiscal year IIP authorizations. For example, Safeguards and Security included a baseline planning assumption that a Graded Security Policy could be implemented at a reduced cost and the bid assumption that Spent Nuclear Material (SNM) would be shipped off the Hanford site by year 3. Since fiscal year IIP/funding authorizations adjust for these differences, no mitigating actions are in place at this time to reduce the overall cost variance.

**3001.01.02 Fire & Emergency Response:** Cumulative unfavorable CV is primarily due to a budgeting omission for platoon shift hours in the Hanford Fire Department as well as the bid assumption that multiple fire stations would have been closed. Since fiscal year IIP/funding authorizations adjust for these differences, no mitigating actions are in place at this time to reduce the overall cost variance.

**3001.01.03 Emergency Management:** Cumulative favorable CV is because work being performed according to RL-directed Contract Baseline Alignment Guidance (CBAG) provides for MSA/RL agreed scope, and a spending target that is different than the contract baseline budget. No mitigating actions are required at this time.



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 (2016/4/25)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2016/5/22)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NO X YES	

**3001.01.04 HAMMER:** Cumulative unfavorable CV is predominantly due to the assumption that less EM funding would be required because HAMMER could self-fund itself by performing enough services for non-Hanford entities. This assumption has been proven incorrect. As a result of this inaccurate assumption, the EM budget will remain lower than the EM funds authorized. Because of this divergent situation, the contract-to-date cost variance will continue to increase. Services delivered at HAMMER will not be adversely affected because the services are executed consistent with the approved fiscal year IIP/funding. No other potential contributing performance issues were identified.

**3001.02.03 Public Safety & Resource Protection (PSRP):** Cumulative favorable CV is primarily due to the approved funding and IIP scope being divergent from the baseline for PSRP. No mitigating actions are required at this time.

**3001.03.05 IR/CM Management:** Cumulative unfavorable CV is primarily due to the approved funding and IIP scope being divergent from the baseline, but is also due to the unplanned Information Technology (IT) subcontract transition effort and related software costs.

**3001.04.03/04 Electrical/Water & Sewer Services:** Cumulative unfavorable CV is primarily due to the aging life of the infrastructure on the Hanford Site. More staffing and material procurements than included in the baseline have been authorized through the fiscal year IIP/funding process. These changes have resulted in increased costs for infrastructure repairs, compliance issues, and maintenance activities. In addition, an enhanced maintenance program has been established to better predict future system failures, and predictive maintenance is replacing the preventative maintenance method. Since fiscal year IIP/funding authorizations adjust for these differences, no mitigations are planned at this time.

**3001.04.11 Energy Management:** Cumulative favorable CV is primarily due to the approved funding and IIP scope being divergent from the baseline for Energy Management. No mitigating actions are required at this time.

**3001.06.03 Safety, Health & Quality:** Cumulative unfavorable CV is primarily due to the IIP scope and approved funding increases in the Radiation Protection, Worker Safety & Health, and Beryllium accounts. Since fiscal year IIP/funding authorizations adjust for these differences, no mitigations are planned at this time.

**3001.06.04 Miscellaneous Support:** Cumulative favorable CV is primarily due to MSA Engineering approved funding and Integrated Investment Portfolio (IIP) being divergent from the contract baseline. Through the annual IIP process, the MSA Engineering organization was authorized/funded to perform much less work than planned in the baseline.



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 (2016/4/25)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2016/5/22)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NO X YES	

**3001.08.01 Water System:** Cumulative favorable CV is due to cost savings from utilization of internal engineering resources for design production, activities requiring fewer labor hours than initially planned, and construction contracts awarded for less than planned on L-525 and L-840, "24-Inch Water Line Replacement" projects. Also included are previously reported variances from Projects L-311, 200W Raw Water Reservoir Refurbish, Project L-677, 200E/W Raw Water Modifications, Project L-399, T-Plant Potable & Raw Water Line, L-449, Mortar Line 12-in Water Line – Baltimore.

**3001.A1 – 3001.B1 Non-PMB:** Cumulative unfavorable CV is primarily due to other Hanford contractors and government agencies requesting more usage-based services (i.e., Training, Crane & Rigging, Fleet Services, Occupancy, etc.) than planned in the baseline. Since this work scope is providing services as requested, and is fully authorized through the Inter-Contract Work Orders/Request for Services process, no mitigations are planned at this time. 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, which are offset by the liquidation of services to customers as identified in accounts in 3001.A7.01 – 3001.A7.03.

**Impacts - Cumulative Cost Variance:** Cumulative CV is primarily due to approved funding and priority list scope being divergent from the baseline during FY 2013 – FY 2016. Because the work scope is primarily level of effort, the cumulative cost variance is not a predictive indicator for future performance. The amount of support provided in the future will be dependent upon the RL approved funding and priority list scope.

**Corrective Action - Cumulative Cost Variance:**  
For FY 2009 – FY 2012, MSA has incorporated negotiated contract variance proposals into the contract baseline. For FY 2013 through FY 2016, MSA will continue to monitor the delta values between the contract baseline and RL funding values to determine if change proposals are warranted. Until then, the divergent data will continue.

**Cumulative Schedule Variance:**  
**3001.04.12 Hanford Historic Buildings** – Unfavorable SV is due to the slow submittals of pre-construction documents as well as the slow ramping up of construction due to the loss of a sub-tier masonry contractor, the bid and re-submittal process, and training of the replacement contractor.



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 (2016/4/25)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728	b. Phase - Operations	b. To (2016/5/22)

**3001.08.01 Water Systems** – Cumulative unfavorable SV is primarily due to engineering design completing behind schedule impacting successor activities for project L-830, “Filter Plant Systems Upgrade.” Another contributing factor to the cumulative schedule variance is the cancellation of project L-846, “242A Condenser Water Cooling Tower.” A BCR to remove the project from the PMB will be processed during June 2016.

**3001.08.03 Electrical System** – Cumulative favorable SV is due to performing procurement and construction activities for project L-780, “200E 13.8kV Electrical System” ahead of schedule.

**3001.08.04 Roads and Grounds** – Cumulative unfavorable SV is due to the decision to change the scope of projects L-777, Overlay Route 4S, 618-10 Waste Site to Horn Rapids and L-775, Overlay Route 4S, Canton Ave to Y Barricade from overlay to chip seal. A BCR will be processed to change the scope during June 2016.

**Impacts - Cumulative Schedule Variance:** Hanford Historic Buildings Preservation – Cumulative unfavorable schedule variances will continue as construction is delayed. Minimal impacts because each Reliability Project is an independent stand-alone project.

**Corrective Action - Cumulative Schedule Variance:** Hanford Historic Buildings Preservation – the masonry contractor is being pre-qualified before the bid process. Once the new contractor has completed the bid process a new rehabilitation schedule will be established. During April 2016, MSA submitted letters to RL requesting approval to align multiple Reliability Projects with recently proposed changes in direction. Authorization to align multiple Reliability projects is anticipated in June 2016.

**Variance at Complete:**

During October of 2011, MSA completed re-aligning the baseline to the negotiated contract, and using the approved change control process, implemented the re-aligned baseline data for the start of FY 2012. RL provided approval of the baseline data for reporting progress and also provided an approved and funded priority list of items for MSA work scope. The contract to date variance is primarily due to the RL approved funding and priority list scope being divergent from the baseline for FY 2013, FY 2014, FY 2015, and FY 2016.

After the original submittal of the FPR, it was determined that MSA had incorrectly factored the cost of the Hanford Site Pension Plan (HSPP) and the Hanford Employee Welfare Trust (HEWT) into the labor rates. This was disclosed to MSA in the Source Selection Evaluations Board’s (SEB) Debrief of the Mission Support Contract (MSC) in May 2009. MSA received contract modifications associated with pension cost and labor adder adjustments for FY 2009 through FY 2015 which increased the contract value. At the request of RL, the labor and pension proposals are submitted annually at fiscal year-end. For FY 2016, the labor and pension variances will continue to increase during the remainder of this fiscal year.



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 (2016/4/25)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728	b. Phase - Operations	b. To (2016/5/22)

**Impacts - Cumulative Cost Variance:**  
 Cumulative CV is primarily due to the approved funding and priority list scope being divergent from the baseline during FY 2013 – FY 2016. Because the work scope is primarily level of effort, the cumulative cost variance is not a predictive indicator for future performance. The amount of support provided in the future will be dependent upon the RL approved funding and priority list scope.

**Corrective Action - Cumulative Cost Variance:**  
 For FY 2009 – FY 2012, MSA has incorporated negotiated contract variance proposals into the contract baseline. For FY 2013 through FY 2016, MSA will continue to monitor the delta values between the contract baseline and RL funding values to determine if change proposals are warranted. Until then, the divergent data will continue.

**Negotiated Contract Changes:**  
 The Negotiated Contract Cost decreased by \$0.06M for May 2016, from \$3,417.1M to \$3,417.0M, due to Baseline Change Request (BCR) VMSA-16-011, Contract Mod 518, *Close and Reduce Budget for Several PMTOs as Work scope is Complete*, and BCR VPMTO-16-003, Contract Mod 528, *Definitization of PMTO 16-003 DOE CERCLA Structured Improvement Activity and Create a Level 5 WBS*.

**Changes in Est. Cost of Authorized/Unpriced Work:** The Authorized Unpriced Work (AUW) remained unchanged at \$0.275M for May.

**Changes in Estimated Price:**  
 The Estimated Price of \$3,738.0M is based on the Most Likely Management Estimate at Completion (MEAC) of \$3,528.2M and fee of \$209.8M. The Most Likely MEAC reflects recognition of significant additional work scope in FY 2009 through FY 2012 related to American Recovery and Reinvestment Act of 2009 (ARRA) support activities to site contractors, and other DOE-authorized activities beyond the original contract assumptions. BCRs were implemented for the Cost Variance Contract Modifications received for FY 2009 thru FY 2012 in January 2015. Since FY 2013, FY 2014, and FY 2015 were within a 10 percent variance, proposals have not yet been processed to increase the Negotiated Contract Cost. Since FY 2016 funding is higher than the Contract Budget Base, there is a significant increase for this fiscal year.



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 (2016/4/25)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728	b. Phase - Operations	b. To (2016/5/22)

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

During May 2016, the Estimate at Completion (EAC) decreased by \$1.6M from \$3,529.8M to \$3,528.2; ((\$2.8M) in the Performance Measurement Baseline (PMB) and \$1.2M in the (Non-PMB). Decreases in the PMB were primarily due to HAMMER reinvestment activities being put on hold pending an independent assessment of the integrity of the LPG piping and not completing all the lift station repairs originally planned for FY16. The Non-PMB increase is due primarily to WRPS requesting more support than planned. Additionally, Microsoft enterprise license costs that were planned to be prorated for 4 month instead have been costed for the entire year.

**Changes in Undistributed Budget:** The Undistributed Budget of \$0M did not change this reporting period.

**Changes in Management Reserve:** The Management Reserve of \$0.083M did not change this reporting period.

**Differences in the Performance Measurement Baseline:** This reporting period the Performance Measurement Baseline budget decreased the BAC by \$0.06M from \$2,347.1M to \$2,347.0. The decrease was due to the implementation of BCR VMSA-16-011, Contract Mod 518, *Close and Reduce Budget for Several PMTOs as Work scope is Complete.*

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

The Non-PMB budget increased by \$0.02M, not noticeably changing the BAC that remained at \$1,070.2M. The increase was due to the implementation of BCR VPMTO-16-003, Contract Mod 528, *Definitization of PMTO 16-003 DOE CERCLA Structured Improvement Activity and Create a Level 5 WBS.*

**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 management reserve. 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) (motor carrier, facilities and janitorial) collects the cost of centralized management, support from other, craft indirect time, and non-labor cost like facilities maintenance. 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 2016 to Date – May 2016					
Account Description	BCWS	BCWP	ACWP	CV	Liquidation
Direct Labor Adder					
Software Engineer Services DLA (3001.03.02.03)	\$788.1	\$788.1	\$759.2	\$28.9	\$(698.1)
Content & Records Mgt DLA (3001.03.01.04)	\$246.0	\$246.0	\$215.5	\$30.5	\$(218.7)
Transportation DLA (3001.04.06.02)	\$1,239.2	\$1,239.2	\$3,133.1	\$(1,893.9)	\$(3,565.8)
Maintenance DLA (3001.04.05.02)	\$4,308.2	\$4,308.2	\$5,509.3	\$(1,201.1)	\$(5,378.2)
Janitorial Services DLA (3001.04.05.03)	\$751.2	\$751.2	\$480.7	\$270.5	\$(458.3)
<b>Total DLA</b>	\$7,332.7	\$7,332.7	\$10,097.8	\$(2,765.1)	\$(10,319.1)

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.

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

Fiscal Year 2016 to Date – May 2016					
Account Description	BCWS	BCWP	ACWP	CV	Liquidation
Usage Based Services					
Training (3001.01.04.02)	\$8,424.5	\$8,424.5	\$8,439.6	\$(15.1)	\$(9,443.9)
HRIP (3001.02.04.02)	\$3,973.6	\$3,973.6	\$2,332.6	\$1,641.0	\$(2,434.4)
Dosimetry (3001.02.04.03)	\$4,070.1	\$4,070.1	\$2,822.4	\$1,247.7	\$(3,510.9)
Information Technology Services (3001.03.07.01)	\$480.7	\$480.7	\$482.5	\$(1.8)	\$2,070.0
Work Management (3001.04.13.01) *	\$-	\$-	\$354.3	\$(354.3)	\$(332.6)
Courier Services (3001.04.15.02)	\$157.1	\$157.1	\$138.3	\$18.8	\$(137.7)
Occupancy (3001.04.14.06)	\$4,749.9	\$4,749.9	\$4,827.3	\$(77.4)	\$(4,982.2)
Crane & Rigging (3001.04.08.02)	\$7,315.5	\$7,315.5	\$7,425.2	\$(109.7)	\$(7,773.8)
Guzzler Trucks (3001.04.06.03)	\$52.7	\$52.7	\$76.7	\$(24.0)	\$(72.2)
Fleet (3001.04.07.02)	\$5,598.7	\$5,598.7	\$8,278.5	\$(2,679.8)	\$(8,091.1)
<b>Total UBS</b>	\$34,822.8	\$34,822.8	\$35,177.4	\$(354.6)	\$(34,708.8)
<b>Total DLA / UBS</b>	\$42,155.5	\$42,155.5	\$45,275.2	\$(3,119.7)	\$(45,027.9)

ACWP = Actual Cost of Work Performed. CV = Cost Variance BAC = Budget at Completion.  
 BCWP = Budgeted Cost of Work Performed. BCWS = Budgeted Cost of Work Scheduled.

\* Information Technology Services Pool began March 23, 2016, but first billing will not be until June 2016.  
**Cost Variance (-\$3.1M)** – Transportation variance reflects higher than planned increase in requirements from WRPS. Also, May costs increased due to new grader procurement. Maintenance increase largely a result of working corrective maintenance backlog. Fleet Services experienced an increase in demand, primarily driven by WRPS Breathing Apparatus and new equipment requirements.





### 8.0 RELIABILITY PROJECT STATUS

Activity in May was centered on continuing progress on projects carried over from FY 2015. (Table 8-1 below.) For further information concerning accomplishments and issues related to the Reliability Projects, refer to the Public Works Service Area section of this report.

Table 8-1. FY 2012 – FY 2017 Reliability Projects Summary.

Projects to be Completed (\$000's)													
	Contract to Date - Performance					Thru - FY 2017				Complete Dates			VAC Cost
	BCWS	BCWP	ACWP	SV	CV	BAC	EAC	VAC	% Complete	Complete Date	Forecast Date	Schedule at Complete	
<b>Work Scope Description (ORP-14 Projects)</b>													
L-780, 200E 13.8kV ED Sys Mods	4,229.1	6,205.4	6,059.5	1,976.3	145.9	7,575.2	7,205.2	370.0	81.9%	1/11/17	11/16/16	G	G
<b>ORP-14 Subtotal</b>	<b>4,229.1</b>	<b>6,205.4</b>	<b>6,059.5</b>	<b>1,976.3</b>	<b>145.9</b>	<b>7,575.2</b>	<b>7,205.2</b>	<b>370.0</b>					
<b>Work Scope Description (RL-40 Projects)</b>													
L-612, 230kV Transmission System Reconditioning and Sustainability Repairs	685.1	316.8	239.5	(368.3)	77.3	1,098.0	989.6	108.4	28.9%	1/24/17	7/17/17	R	G
L-761, Phase 2a Procure, Install, & Closeout	657.0	729.0	572.1	72.0	156.9	848.5	709.6	138.9	85.9%	11/29/16	11/29/16	G	G
L-789, Prioritize T&D Sys Wood PP Test & Replace	312.6	114.8	56.8	(197.8)	58.0	1,276.6	1,276.6	0.0	9.0%	10/6/16	11/29/16	R	G
L-815, Upgrade Transmission/Distrib Access Rds	145.3	128.0	104.5	(17.3)	23.5	678.5	678.5	0.0	18.9%	9/28/17	9/28/17	G	G
L-830, Filter Plant Filter Ctrl Sys Upgrade	838.9	394.9	642.4	(444.0)	(247.5)	1,050.6	1,231.6	(181.0)	37.6%	9/19/16	9/22/16	Y	Y
L-834, Filter Plant Flocculator Sys Upgrade	287.5	290.6	311.2	3.1	(20.6)	437.3	422.7	14.6	66.5%	8/29/16	8/29/16	G	G
L-525, 24in Line Replacement 200E	1,560.4	1,364.6	607.1	(195.8)	757.5	3,618.9	2,183.7	1,435.2	37.7%	3/2/17	12/29/16	G	G
L-840, 24in Line Replacement 200W	1,492.4	1,627.3	736.9	134.9	890.4	3,467.6	2,172.9	1,294.7	46.9%	1/27/17	12/29/16	G	G
L-846, 242A Condenser Water Cooling Tower	400.0	44.2	56.5	(355.8)	(12.3)	400.0	400.0	0.0	11.1%	5/12/16	2/16/17	R	G
L-856, Route 4N Rut Repair, RT 11A to MP2	563.0	563.7	280.9	0.7	282.8	564.0	282.3	281.7	99.9%	5/24/16	5/24/16	G	G
L-867, North Loop Transmission Line Road Access	379.4	210.3	46.9	(169.1)	163.4	400.0	46.7	353.3	52.6%	12/31/15	8/18/16	To be cancelled	
L-419, 24in Line Replacement from 2901Y to 200E	305.5	305.5	243.7	0.0	61.8	305.5	243.7	61.8	100.0%	4/7/16	4/26/16	Y	G

Variance at Complete Cost Performance	
OK - G	Underspent or 1-10% over
Over Spent Y	11-30% or 100K Over Spent
Over Spent R	>30% or 300K Over Spent

Schedule at Complete Performance	
OK - G	On schedule
Behind Y	Within 30 days
Behind R	Greater than 30 days

Table 8-1, cont. FY 2012 – FY 2017 Reliability Projects Summary.

Projects to be Completed (\$000's)													
	Contract to Date - Performance					Thru - FY 2017				Complete Dates			VAC Cost
	BCWS	BCWP	ACWP	SV	CV	BAC	EAC	VAC	% Complete	Complete Date	Forecast Date	Schedule at Complete	
<b>Work Scope Description (RL-40 Projects)</b>													
L-775, Overlay RT 4s, Canton Ave to Y Barricade	650.0	60.1	42.4	(589.9)	17.7	650.0	650.0	0.0	9.2%	3/29/16	9/22/16	R	G
L-777, Overlay RT 4s, 618-10 Wst Site to HR Road	950.0	48.9	37.6	(901.1)	11.3	950.0	950.0	0.0	5.1%	4/12/16	9/2/16	R	G
L-849, Replace 200E 1.1M-gal PW Tank	100.0	50.8	68.8	(49.2)	(18.0)	100.0	105.2	(5.2)	50.8%	4/12/16	2/22/17	R	G
L-850, Replace 200W 1.1M-gal PW Tank	250.0	61.7	187.0	(188.3)	(125.3)	250.0	243.8	6.2	24.7%	3/29/16	3/8/17	R	G
L-853, 200E Sewer Flow Equalization Facility	301.1	188.1	228.6	(113.0)	(40.5)	575.0	997.3	(422.3)	32.7%	11/3/16	2/27/17	R	R
L-854, 200E Sewer Consolidations	129.4	79.4	100.8	(50.0)	(21.4)	271.0	693.3	(422.3)	29.3%	9/28/16	1/27/17	R	R
L-859, 1st St frm Canton Ave to IDF Entrance Rd	135.0	132.5	111.1	(2.5)	21.4	135.0	111.9	23.1	98.1%	4/26/16	5/31/16	R	G
L-868, Raw Water Fire Protection Loop for LAWPS	114.1	103.5	35.4	(10.6)	68.1	386.6	227.6	159.0	26.8%	9/15/16	9/15/16	G	G
<b>RL-40 Subtotal</b>	<b>10,256.7</b>	<b>6,814.7</b>	<b>4,710.2</b>	<b>(3,442.0)</b>	<b>2,104.5</b>	<b>17,463.1</b>	<b>14,617.0</b>	<b>2,846.1</b>					
<b>Total</b>	<b>14,485.8</b>	<b>13,020.1</b>	<b>10,769.7</b>	<b>(1,465.7)</b>	<b>2,250.4</b>	<b>25,038.3</b>	<b>21,822.2</b>	<b>3,216.1</b>					

Variance at Complete Cost Performance	
OK - G	Underspent or 1-10% over
Over Spent Y	11-30% or 100K Over Spent
Over Spent R	>30% or 300K Over Spent

Schedule at Complete Performance	
OK - G	On schedule
Behind Y	Within 30 days
Behind R	Greater than 30 days



## RELIABILITY STATUS, CONT.

### Reliability Projects Variance Explanations

#### Contract to Date (CTD) Schedule Variance (SV):

- L-780, *200E 13.8kV Electrical Distribution System Modifications*: the favorable CTD SV is due to performing procurement and construction activities ahead of schedule in prior periods.
- L-612, *230kV Transmission System Reconditioning and Sustainability Repairs*: the unfavorable CTD SV is due to delays attributed to the performance methodology for NEPA/NHPA.
- L-761, *Phase 2a Procure, Install, & Closeout*: the favorable CTD SV is due to completing FMPs and training earlier than planned.
- L-830, *Filter Plant Filter Control System Upgrade*: the unfavorable CTD SV is due to the engineering design completing behind schedule, impacting successor activities.
- L-525, *24-In Line Replacement, 200E*: the unfavorable CTD SV is due to being behind schedule on subcontractor procurement for construction and excavation, and pipe installation.
- L-840, *24in Line Replacement 200W*: the favorable CTD SV is due to completing excavation and pipe installation ahead of schedule.
- L-846, *242A Condenser Water Cooling Tower*: the Project has been cancelled. BCR to remove from baseline will be processed during June 2016.
- L-775, *Overlay RT 4s, Canton Ave to Y Barricade*: the unfavorable CTD SV is due to scope change from engineering design overlay to chip seal performance spec.
- L-777, *Overlay RT 4s, 618-10 West Site to HR Road*: the unfavorable CTD SV is due to scope change from engineering design overlay to chip seal performance spec.
- L-849, *Replace 200E 1.1M-gal PW Tank*: the unfavorable CTD SV is due to a delayed design start, caused by needing to validate the site-wide water requirements for the other Hanford contractors (OHCs).
- L-850, *Replace 200W 1.1M-gal PW Tank*: the unfavorable CTD SV is due to a delayed design start, and needing to validate the site-wide water requirements for the OHCs, and determining the impacts of a dual purpose tank (holding & treatment).

- L-853, *200E Sewer Flow Equalization Facility*: the unfavorable CTD SV is due to the delay in engineering design award. The provided proposals did not pass technical evaluation.

–

#### **CTD Cost Variance (CV):**

- L-780, *200E 13.8kV Electrical Distribution System Modifications*: the favorable CTD CV is due to the award of the construction contract for less than planned cost.
- L-761, *Replace RFAR, Phase 2a - Procure, Install, & Closeout*: the favorable CTD CV is due to design costs being less than planned.
- L-789, *Prioritize T&D Sys Wood PP Test & Replace*: the favorable CTD CV is due to work performance on the wood pole inventory and categorization, drafting the PEP, and writing the test/treat Statement of Work for less than planned.
- L-830, *Filter Plant Filter Control System Upgrade*: the unfavorable CTD SV is due to the architecture/engineering firm requiring additional funding to resolve comments provided at the initial 90% Design submittal.
- L-525, *24-In Line Replacement, 200E*: the favorable CTD CV is due to cost savings from utilization of internal engineering resources for design production, performing site clearing work for less cost than planned, and the fixed price construction contract awarded for less than planned cost.
- L-840, *24-In Line Replacement, 200W*: the favorable CTD CV is due to cost savings from utilization of internal engineering resources for design production, performing site clearing work for less cost than planned, and the fixed price construction contract awarded for less than planned.
- L-856, *Route 4N Rut Repair, RT 11A to MP2*: the favorable CTD CV is due to construction contract being awarded at less than estimated cost.
- L-419, *24in Line Replacement from 2901Y to 200E*: the favorable CTD CV is due to the design being performed for less cost than planned, and utilizing previous design for the proximity project.
- L-850, *Replace 200W 1.1M-gal PW Tank*: the unfavorable CTD CV is due to pre-conceptual planning activities necessary to determine the type and size of the replacement water tank.





### Variance at Completion (VAC) – (Threshold: +/- \$750K):

- L-780, 200E 13.8kV Electrical Distribution System Modifications: The positive VAC is due to the award of construction contract for less cost than originally planned.
- L-761, *Replace RFAR, Phase 2a - Procure, Install, & Closeout*: The positive VAC is due to accelerating out-year procurement and design, while utilizing existing design underruns within the project to perform those activities.
- L-830, *Filter Plant Filter Control System Upgrade*: The unfavorable VAC is due to the engineering firm requiring additional funding to complete design.
- L-525, *24-Inch Line Replacement, 200E*: The favorable VAC is due to cost savings from the utilization of internal engineering resources for design production, performing site clearing work for less cost than planned, and fixed price construction contract awarded at less cost than planned.
- L-840, *24-Inch Line Replacement, 200W*: The favorable VAC is due to cost savings from utilization of internal engineering resources for design production not originally available, performing site clearing work for less cost than planned, and fixed price construction contract awarded at less cost than planned.
- L-856, *Route 4N Rut Repair, RT 11A to MP2*: The favorable VAC is due to the construction contract being awarded at less than estimated cost.
- L-853, *200E Sewer Flow Equalization Facility*: The unfavorable VAC is due to increased engineering design costs.
- L-854, *200E Sewer Consolidations*: The unfavorable VAC is due to increased engineering design costs.

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	2015 2016 2017																
									J	D	J	F	A	S	D	J	F	A	S	J	D	J	F	A	S
L-419	L419, 24"Line Renovation/Replacement from 2901U to 200E	152	0	100%	10-Aug-15	07-Apr-16	10-Aug-15 A	26-Apr-16 A																	
L-525	L-525, 24"Line Renovation/Replacement from 2901Y to 200E	152	152	37.7%	01-Apr-15	02-Mar-17	01-Apr-15 A	29-Dec-16																	
L-612	L-612, 230kV Transmission System Reconditioning and Sustainability Upgrades	352	290	28.9%	31-Aug-15	24-Jan-17	31-Aug-15 A	17-Jul-17																	
L-761 Ph2a	L-761, Replace RFAR Phase 2a	154	132	85.9%	20-Jul-15	29-Nov-16	20-Jul-15 A	29-Nov-16																	
L-775	L-775, Overlay RT 4s, Canton Ave to Y Barricade	186	86	9.2%	10-Aug-15	29-Mar-16	10-Aug-15 A	22-Sep-16																	
L-777	L-777, Overlay RT 4s, 618-10 Wst Site to HR Road	186	86	5.1%	24-Aug-15	12-Apr-16	10-Aug-15 A	22-Sep-16																	
L-780	L-780, 200E Area 13.8kV Electrical Distribution System WFD Modifications and Upgrades	203	125	81.9%	19-Jan-15	11-Jan-17	01-Oct-14 A	16-Nov-16																	
L-789	L-789, Prioritized T&D System Wood Pole Upgrades	203	132	9%	10-Aug-15	06-Oct-16	10-Aug-15 A	29-Nov-16																	
L-815	L-815, Upgrade Transmission/Distrib Access Rds	411	342	18.9%	16-Feb-16	28-Sep-17	02-Feb-16 A	28-Sep-17																	
L-830	L-830, Filter Plant Filter Control System Upgrade	125	86	37.6%	29-Jun-15	19-Sep-16	29-Jun-15 A	22-Sep-16																	
L-834	L-834, Filter Plant Flocculator System Upgrade	76	69	66.5%	29-Jun-15	29-Aug-16	29-Jun-15 A	29-Aug-16																	
L-840	L-840, 24"Line Renovation/Replacement from 2901Y to 200W	461	152	46.9%	01-Apr-15	27-Jan-17	01-Apr-15 A	29-Dec-16																	
L-846	L-846, 242A Condenser Water Cooling Tower Design and Install	185	186	11.1%	20-Jul-15	12-May-16	20-Jul-15 A	16-Feb-17																	

Remaining Work  
 Baseline

**MSC - Reliability Projects  
Summary Schedule  
Data Date: 22-May-16**



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	2015			2016			2017							
									S	O	N	D	J	J	J	J	J	J	J	J	J	
L-849	L-849, Replace 200E 1.1M-gal PW Tank	185	189	50.8%	24-Aug-15	12-Apr-16	10-Aug-15 A	22-Feb-17														
L-850	L-850, Replace 200W 1.1M-gal PW Tank	185	199	24.7%	10-Aug-15	29-Mar-16	29-Jul-15 A	08-Mar-17														
L-853	L-853, 200E Sewer Flow Equalization Facility	309	192	32.7%	17-Aug-15	03-Nov-16	17-Aug-15 A	27-Feb-17														
L-854	L-854, 200E Sewer Consolidations	283	164	29.3%	17-Aug-15	28-Sep-16	17-Aug-15 A	17-Jan-17														
L-856	L-856, Route 4N Rut Repair, Rt. 11A to MP2	215	2	99.9%	20-Jul-15	24-May-16	20-Jul-15 A	24-May-16														
L-859	L-859, 1st St frm Canton Ave to IDF Entrance Rd	160	6	98.1%	08-Sep-15	26-Apr-16	08-Sep-15 A	31-May-16														
L-867	L-867, North Loop Transmission Line Road Access	155	62	13.9%	15-Apr-15	31-Dec-15	15-Apr-15 A	18-Aug-16														
L-868	L-868, Raw Water Fire Protection Loop for LAWPS	155	81	26.8%	04-Jan-16	15-Sep-16	14-Dec-15 A	15-Sep-16														
		<p> Remaining Work</p> <p> Baseline</p>							<p><b>MSC - Reliability Projects Summary Schedule</b> Data Date: 22-May-16</p>													





## 9.0 BASELINE CHANGE REQUEST LOG

### Baseline Change Request Log for May

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

Two BCR incorporates Contract Modifications:

- VMSA-16-011 – Mod 518, Close and Reduce Budget for Several PMTOs as Work Scope is Complete
- VPMT0-16-003 – Mod 528, Definitization of PMTO 16-003 DOE CERCLA Structured Improvement Activity and Create a Level 5 WBS

Three BCRs were Administrative in Nature:

- VMSA-16-007 Rev 4 – Administrative BCR – Create Lower Level Task Order (LLTO) WBSs for Cost Collection Established in the Month of May
- VMSA-16-010 Rev 1 – Create Level 4 & 5 WBSs and Establish Expense & Revenue Budgets for Information Technology Usage Based Services
- VSWS-16-013 – Create a Level 5 WBS in the Program Controls Office for the 2430 Stevens Center Relocations



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	FY16 Budget	FY16 Management Reserve	Post Contract Budget	Post Contract Mgmt Reserve	Total Lifecycle	Cum Lifecycle Budget
<b>Prior PMB Total</b>	<b>Apr 2016</b>	1,230,506		1,230,506	1,230,506	242,908		1,116,546		2,347,052	2,347,052
VMSA-16-007 Rev 4		0		0	0	0		0		0	2,347,052
VMSA-16-011		0		0	0	(83)		(83)		(83)	2,346,969
VSWs-16-013		0		0	0	0		0		0	2,346,969
<b>Revised PMB Total</b>	<b>May 2016</b>	1,230,506		1,230,506	1,230,506	242,825		1,116,463		2,346,969	
<b>Prior Non-PMB Total</b>	<b>Apr 2016</b>	604,007		604,007		99,097		466,179		1,070,186	1,070,186
VMSA-16-010 Rev 1						0		0		0	1,070,186
VPMT0-16-003						23		23		23	1,070,209
<b>Revised Non-PMB Total</b>	<b>May 2016</b>	604,007		604,007		99,119		466,202		1,070,209	
<b>Total Contract Performance Baseline</b>	<b>May 2016</b>	1,834,513		1,834,513	1,834,513			1,582,665		3,417,178	
<b>Management Reserve</b>	<b>Apr 2016</b>		0	0		0	83		83	83	83
<b>Revised Management Reserve</b>	<b>May 2016</b>		0	0		0	83		83	83	
<b>Total Contract Budget Base</b>				1,834,513				1,582,748		3,417,261	
<b>Prior Fee Total</b>	<b>Apr 2016</b>	109,961		109,961		21,033		99,790		209,751	209,751
VPMT0-16-003						2		2		2	209,753
<b>Revised Fee Total</b>	<b>May 2016</b>	109,961		109,961		21,035		99,792		209,753	
<b>Change Log Total</b>	<b>May 2016</b>			1,944,473				1,682,540		3,627,014	



## 10.0 RISK MANAGEMENT

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

- A Risk Management Board will be convened in early July to review and approve the proposed new and closed risks, and review the overall company risk posture associated with May and June data.
- Project Risk Analysis:
  - Reliability Projects are in development, and Risk management is working with Project Managers in support of risk elicitation, quantitative analysis, and identifying the 50 percent confidence level for Management Reserve.
- In accordance with the MSC-MP-42375, Hanford Mission Support Contract Risk Management Plan, the monthly Risk Management report was submitted to the RL Contracting Office. This report consisted of April data.
- Risk Elicitations were performed for Information Management (IM) and ES&H. Additional follow on meetings were held to update the risk posture for each department.
- Risk Management reviewed the monthly Operations Project Reports for each reliability project and any related Key Risks for monthly reporting to DOE.
- Risk Management supported the review of one Change Proposal in preparation for submittal to DOE.



## 11.0 DASHBOARD SUMMARY

May FY 2016							
2016 Performance Evaluation and Measurement Plan (PEMP)							
Deliverables	Plan	DOE	Lead	MSA	Status		
					YTD	MAY	
<b>1.0 Effective Site Cleanup</b>							
1.1 Enable mission contractors to achieve their cleanup mission by delivering timely service and reliable infrastructure that support customer key milestones and regulatory commitments.	1.1.1	Demonstrate that the following performance measure targets were met.	9/30/2016	Bird	Brockman		
		Biological Controls – Pest Removal			Fritz		
		Biological Controls – Tumbleweed Removal			Fritz		
		Biological Controls – Vegetation			Fritz		
		Crane and Crew Support			Brockman		
		Electrical – Power Availability			Sauceda (Acting)		
		Facilities Maintenance			Brockman		
		Fire Protection System Maintenance			Walton		
		Fleet Services – Heavy Equipment (Cranes)			Brockman		
		Fleet Services – Heavy Equipment (Evacuators)			Brockman		
		Fleet Services – Heavy Equipment (General Purpose)			Brockman		
		Fleet Services – Light Equipment (Hanford Patrol)			Brockman		
		Fleet Services – Light Equipment (Hanford Fire)			Brockman		
		Fleet Services – Light Equipment (Special Purpose Trucks)			Brockman		
		HAMMER – Worker Training Completion Input			Metzger		
		IT - Cyber Security – System Patching			Eckman		
		IT - Emergency Radio / SONET Transport Availability			Eckman		
		IT - HLAN Availability			Eckman		
		PFP Support - Loaned Labor			Brockman		
		RSS - Dosimetry External Services			Wilson		
		RSS - Instrument Calibration			Wilson		
		Service Catalog Request - Customer Satisfaction			Brockman		
		Site Training Services - Course Bundling			Metzger		N/A
Spent Fuel Activity Support - Loaned Labor	Brockman						
Water – Potable	Fritz						
Water – Raw	Fritz						
1.1 Enable mission contractors to achieve their cleanup mission by delivering timely service and reliable infrastructure that support customer key milestones and regulatory commitments.	1.1.2	Implement FY16 actions per the approved schedule of the HNF-56046, Rev 2 MSA Maintenance Program Five-Year Plan.	9/30/2016	Dickinson	Fritz		
	1.1.3	Demonstrate a reduction in the deferred maintenance backlog in water, sewer, and electrical utilities.	9/30/2016	Dickinson	Fritz		
	1.1.4	Demonstrate successful delivery of reliability projects within approved scope, schedule, and cost.	9/30/2016	Dickinson	Fritz		

**LEGEND**

<span style="display:inline-block; width:15px; height:10px; background-color:lightgreen; border:1px solid black;"></span> = On schedule	<span style="display:inline-block; width:15px; height:10px; background-color:red; border:1px solid black;"></span> = Objective missed
<span style="display:inline-block; width:15px; height:10px; background-color:lightblue; border:1px solid black;"></span> = Complete	<span style="display:inline-block; width:15px; height:10px; background-color:gray; border:1px solid black;"></span> = N/A
<span style="display:inline-block; width:15px; height:10px; background-color:yellow; border:1px solid black;"></span> = In jeopardy	

Note: PI 1.1.1 – Electrical – Power Availability

Status – Green overall; red for the month of April, after critical transformer outages in the 200 Area resulted from a high volt disconnect switch arcing event.

Note: PI1.1.1 – Site Training Services – Course Bundling N/A – Performance Measure discontinued effective April.



## Dashboard Summary, Cont.

2.0 Efficient Site Cleanup						
2.1 Demonstrate MSA's responsiveness and alignment of resources and equipment to meet the cleanup contractors' project requirements in support of key milestones.	2.1.1	Demonstrate that the business performance measure targets were met	9/30/2016	Bird	Brockman	Yellow
	2.1.2	Demonstrate consolidation of the Hanford Site infrastructure footprint to the 75-square miles of the Central Plateau. Submit a plan and schedule for approval by 12/31/15 and implement FY16 actions per the approved schedule.	9/30/2016	Dickinson	Fritz	Green
	2.1.3	Provide interface/integration support to the One System team to enable completion of project schedule activities.	9/30/2016	Dickinson	Brockman	Green
	2.1.4	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 (e.g., WTP integration, WCH transition, contract realignments, etc.).	9/30/2016	Bird	Brockman	Green
3.0 Comprehensive Performance						
Execute the balance of contract work scope within the contract requirements, terms, and conditions, demonstrating excellence in quality, schedule, management, cost control, small business utilization, and regulatory compliance.			9/30/2015	Corbett	Wilkinson	Green
Provide leadership to improve management effectiveness and collaborate and participate proactively with customers.						Green
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:						Green
<ul style="list-style-type: none"> <li>Business and financial management using approved purchasing, estimating, property, budget, planning, billing, labor, accounting, and performance measurement systems</li> </ul>						Green
<ul style="list-style-type: none"> <li>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</li> </ul>						Green
<ul style="list-style-type: none"> <li>Safeguards and security, fire department operations, emergency response, and emergency operations/emergency management</li> </ul>						Green
<ul style="list-style-type: none"> <li>Land Management</li> </ul>						Green
<ul style="list-style-type: none"> <li>Infrastructure and services program management, operations and maintenance</li> </ul>						Green
<ul style="list-style-type: none"> <li>Effective contractor human resources management</li> </ul>						Green
<ul style="list-style-type: none"> <li>Problem identification and corrective action implementation</li> </ul>						Green
Performed work safely and in a compliant manner that assures the workers, public, and environment are protected from adverse consequences			Green			

### LEGEND

<span style="display:inline-block; width:15px; height:10px; background-color:lightgreen; border:1px solid black;"></span> = On schedule	<span style="display:inline-block; width:15px; height:10px; background-color:red; border:1px solid black;"></span> = Objective missed
<span style="display:inline-block; width:15px; height:10px; background-color:blue; border:1px solid black;"></span> = Complete	<span style="display:inline-block; width:15px; height:10px; background-color:gray; border:1px solid black;"></span> = N/A
<span style="display:inline-block; width:15px; height:10px; background-color:yellow; border:1px solid black;"></span> = In jeopardy	

Note: PI 2.1.1 Demonstrate Business

Performance Measure Targets Met – Yellow

for the month of May, and yellow overall. Year to date, Direct Labor Adders (DLA) and Usage Based Service (UBS) pools are 5.5% over-liquidated. Pools are evaluated quarterly to determine if a change to the UBS rates is warranted. Due to an increase in demand, transportation (caused by the move of 2430, 2420, and other buildings) and training (also caused by unexpected and large demand), a rate change will be evaluated after the third quarter performance.



12.0 CONTRACT DELIVERABLES STATUS

The following tables itemize the contract deliverables due to RL in May, and provide a 30-day look ahead through June 2016.

Table 12-1. May 2016 Contract Deliverables

CDRL	Deliverable	Responsible	Date Due	Date Submitted to DOE	Action	Response Time	Date Due from DOE	Date Approved by DOE
CD0123	Monthly Billing Reports for DOE Services - Apr	Eckman	5/5/16	4/26/2016	Information	N/A	N/A	N/A
CD0144	Monthly Performance Report - Mar	Olsen	5/10/16	5/9/2016	Review	None	N/A	N/A
CD0035	Hanford Site Wildland Fire Plan	Walton	5/15/16	5/9/2016	Approve	30 days	6/9/16	
CD0111	Contractor Personal Property Management Balanced Scorecard Report	Eckman	5/24/16	5/24/2016	Review	10 days	6/4/2016	
CD0072	Input to the Report to Congress on the Federal Archeology Program	Wilson	5/24/16	5/4/2016	Review	30 days	6/4/16	
CD0051	Milestone Review and IAMIT Meeting Minutes - Mar	Wilson	5/26/16	5/19/2016	Information	N/A	N/A	N/A
CD0084	Bonneville Power Administration (BPA) Power and Transmission Service invoice verification and breakdown of site contractor costs - Mar	Sauceda	5/30/16	5/26/2016	Review	30 days	6/26/16	
CD0047	Radiological Assistance Program Response Plan for RAP Region 8	Walton	6/1/16	5/19/2016	Approve	60 days	7/19/16	
CD0090	Sewer System Master Plan	Sauceda	6/1/16	5/31/2016	Approve	90 days	8/30/16	
CD0123	Monthly Billing Reports for DOE Services - May	Eckman	6/5/16	5/31/2016	Information	N/A	N/A	N/A
CD0144	Monthly Performance Report - Apr	Olsen	6/10/16	6/8/2016	Review	None	N/A	N/A
CD0083	Annual Electrical Load Forecasts	Sauceda	6/15/16		Review	30 days		
CD0030	HAMMER Strategic Plan	Metzger	6/30/16		Review	30 days		
CD0084	Bonneville Power Administration (BPA) Power and Transmission Service invoice verification and breakdown of site contractor costs - Apr	Sauceda	6/30/16		Review	30 days		
CD0129	Content (Records) Management Security Plan	Eckman	6/30/16		Approve	45 days		
CD0169	Hanford Site Interface Management Plan	Brockman	6/30/16		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 are two Government-Furnished Services and Information (GFS/I) items due to MSA in 2016:

- GF049, due June 1, 2016: *DOE to provide a Hanford “planning case” budget to prepare the updated Hanford Lifecycle Scope, Schedule, and Cost Report.* A Tri-Party Agreement (TPA) Change Notice that would change the due date of this report from annually to every five years has been under review by the regulators since February 2016. As a result, a delay in delivery of this item is anticipated. MSA anticipates that RL will issue a contract modification after this change notice is signed to implement the revised report due date, and/or remove submittal of the draft and final 2017 Lifecycle Reports.
- GF050, due October 31, 2016: *DOE Approval of the DRAFT Hanford Lifecycle Scope, Schedule, and Cost Report.* Delivery due date of this item is unchanged, but is dependent on the TPA Change Notice and anticipated direction from RL.



## 13.0 SELF-PERFORMED WORK

Table 13-1. Mission Support Contract Socioeconomic Reporting.

Plan Category	MSA Goal	FY 2016 Actual To-Date	Cumulative %
Small Business	50.0%	56.1%	51.9%
Small Disadvantaged Business	10.0%	10.2%	15.3%
Small Women-Owned Business	6.8%	15.8%	10.6%
HubZone	2.7%	12.2%	3.5%
Small Disadvantaged, Service Disabled	2.0%	10.0%	3.7%
Veteran-Owned Small Business	2.0%	9.1%	5.5%

Through May 2016

### Prime Contract Targets:

- At least 40% contracted out beyond MSA = 46% (\$1,265M / \$2,772M)
- Small Business 25% of Total MSC Value = 24% (\$657M / \$2,772M)

Note: Potential fee reduction based on cumulative at Year 7 of the MSA contract.



## SERVICE AREA SECTIONS

Individual Service Area Section reports for May are included as follows:

- Business Operations
- Emergency Services
- Environmental, Safety & Health
- Information Management
- Portfolio Management
- President's Office
- Public Works
- Site Services & Interface Management
- Training & Conduct of Operations

# MISSION SUPPORT ALLIANCE

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



## Business Operations

Rich Olsen, Vice President and Chief Financial Officer

## Monthly Performance Report

May 2016



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## INTRODUCTION

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The Business Operations organization supports the Mission Support Alliance, LLC (MSA) by providing required business administration activities including internal management, Human Resources (HR), contract and subcontract administration, and financial controls to effectively manage the Mission Support Contract (MSC). Business Operations is responsible for activities that include HR, Finance and Accounting (F&A), Program Controls, and Contracts. HR promotes competitive compensation, benefits, and development opportunities for the MSA and its teaming partners, enabling them to provide distinctive service to customers. HR is also responsible for developing and implementing personnel policies; offering creative staffing solutions; facilitating positive interaction and employee relations; and making cost-effective, value-based decisions. F&A includes accounts payable, accounts receivable, general ledger reconciliation, payroll and all payroll services for nine companies, pricing and cost estimating, and validating the timekeeping system. Program Controls includes scope, schedule, and cost baseline management, planning, baseline change, work integration and control, and performance reporting. Contracts includes acting as the primary point of contact for the MSA in all contractual matters with the U.S. Department of Energy (DOE), Richland Operations Office (RL); supports all MSA functional areas by providing contract administration and management; monitors all aspects of contract performance; provides subcontracting and purchasing support to accomplish the MSC mission and support the Hanford Site; reviews incoming correspondence for contractual impacts; and assigns and tracks all open action items to completion.

## KEY ACCOMPLISHMENTS

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### PROGRAM CONTROLS

**Fiscal Year (FY) 2017 – FY 2019 Baseline Planning** – Program Controls completed baseline planning lessons learned meetings which focused on ideas for improving the overall process and planning content. Discussion included: 1) strengthening the Basis of Estimate documentation; 2) use of the planning checklist desk instruction; 3) improved application of MSA’s prioritization criteria for work scope decisions; and 4) and more staff involvement in planning guidance development. Development of the FY 2017 Integrated Investment Portfolio (IIP) plan of action was initiated. The draft RL Contract/Baseline Planning Guidance is anticipated in June.

**Planning Lessons Learned Evaluation** – In May, Program Controls conducted a lessons learned evaluation of the IIP and Out-Year Planning Data process. Key feedback items included: 1) the need for descriptive planning assumptions and guidance early in the



process; 2) allowance in the schedule for adequate review time with RL; and 3) utilization of the MSA prioritization criteria for funding allocation. MSA has developed a planning checklist desk instruction to guide Work Breakdown Structure (WBS) Level 5 preparation. Closure with RL on the FY 2017 Program Baseline Summary structure is essential for startup of the next planning cycle.

**Reliability Project Investment Portfolio** – At the request of the RL Assistant Manager for Mission Support (AMMS), MSA converted the Reliability Projects Infrastructure Portfolio (RPIP) Process document into a draft RPIP Management Plan. This plan describes the approach for maintaining the RPIP List, enhancing Reliability Project decision-making and configuration management. The RPIP Program Plan is slated for submittal to RL in June 2016.

**Interagency and Commercial Information Technology (IT) Customer Funding** – Over the course of several months culminating in the month of May 2016, MSA Business Operations and Information Management coordinated efforts with DOE's Budget Division to ensure MSA had authorization and funding to continue IT Services for Interagency and commercial customers. With the transition of IT services from Lockheed Martin to MSA, customers received instructions on how to fund these services. After last minute follow-up, delivery of checks, and closure on requested data, RL was able to provide authorization on the MSA contract to continue services for all customers.

**Control Account Managers Training** – During May, Program Controls conducted Initial Control Account Manager (CAM) training sessions for four people, and CAM Qualification training sessions for two people. In addition, meetings were held with several CAMs and Cost Specialists to discuss the results of previous internal reviews.

## HUMAN RESOURCES

**Community Outreach Activities** – On May 6, 2016, MSA Organizational Development commenced its second Job Search Development series at WorkSource in Kennewick, WA. Twelve attendees participated in the first of five workshops scheduled through the end of June 2016. Feedback from the attendees was positive, and several participants stayed after the workshop for one-on-one coaching.

**Delta High School Intern Fair** -- Members of the HR Staffing team participated in the Delta High School (Richland, WA) Intern Fair on May 6, 2016. There were 100 junior-year students in attendance looking for internship opportunities for their upcoming senior year. Many of the students talked with the MSA representatives, learning about MSA, its mission and the internship program.



## CONTRACTS AND PROCUREMENT

**Small Business Goals** – Small Business Contracts utilization continues to exceed goals in all socio-economic categories. Through May, the *Small Women-Owned, HubZone, Veteran-Owned, and Service Disabled Veteran-Owned* contract categories had all achieved more than double their fiscal-year-to-date-goals.

**IT Services for Commercial Customers** – In May, MSA Contract, Finance and Information Technologies were able to prepare, submit and get approval for Request for Service packages for successful implementation of the IT Services for the designated commercial customers.

## FINANCE AND ACCOUNTING

**Support to Fluor Hanford (FH)** – During May, MSA Finance coordinated an effort to cost a \$1.2M final invoice under the FH contract to old funding on the FH contract at the direction of DOE. It was discovered that the Hanford Programs Integrated Control Module (HPIC) system was not upgraded for FH when it was upgraded for the other Hanford contractors. MSA Finance was able to come up with a work around to cost the final invoice to the old funding string (rather than have FH pay for an upgrade for a one time purpose), and the issue was resolved.

**Pension and Savings Committee Meeting** – MSA HR Benefits Accounting/Pension & Savings Management Department held the first quarter 2016 Pension and Savings Committee Meeting on May 12, 2016. Topics included a review of pension and savings plans' investment performance and fees. In addition, the pension plan's actuaries presented the preliminary funding valuation report, projections for future funding, and possible alternative funding policies.

**Support to Ongoing Audits** – MSA continues to provide timely and accurate responses to the numerous on-going audits by DOE, the General Accounting Office, KPMG, and CohnReznick. MSA continues to manage and respond to each audit as required. Below is a listing of a few of the audits in process:

- **KPMG Audit MSA Property System** – Received RL request for Corrective Action via letter dated November 30, 2015. Completed MSA Correction Action Responses:
  - For Finding #1, "Convenience Storage Management," MSA is reviewing the language to add to Section 5.2 of MSC-PRO-123 to explain the concept and require users to search for existing equipment and/or material while utilizing the Material Source Search Tool (MSST).



- Completed Assessment of Finding #3; “Excess Declarations Processing,” due April 28, 2016. Presentation of the Assessment to MSA management was held on May 18, 2016.
- MSA collected the “Fleet Utilization,” data for the first quarter of 2016, and provide utilization reports on May 31, 2016.
- Assessment of the processes of Finding #6, *Physical Verification Exceptions* was completed May 25, 2016. Future actions include providing refresher information to the Property representatives (July 1, 2016), standardizing contractor tagging requirements (August 1, 2016), and implementing tagging “alerts” for procured items (September 1, 2016).
- **DOE FY 2015 Incurred Cost Invoice Audit** – Input was finalized to CohnReznick’s audit of MSA’s FY15 Incurred Cost submission to achieve a Monday, May 16, 2016 delivery deadline.

## LOOK AHEAD

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None to report.

## MAJOR ISSUES

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None to report.

## SAFETY PERFORMANCE

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No Occupational Safety and Health Administration (OSHA) injuries or First Aid cases were reported for Business Operations in May 2016.



## BASELINE PERFORMANCE

Table BO-1. Business Operations Cost/Schedule Performance (dollars in millions).

Fund Type	May 2016					Contract-to-Date				
	BCWS	BCWP	ACWP	SV	CV	BCWS	BCWP	ACWP	SV	CV
FY 2009 Transition Cost	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$5.8	\$5.8	\$5.8	\$0.0	\$0.0
Site-wide Services	\$0.5	\$0.5	\$0.5	\$0.0	\$0.0	\$50.1	\$50.6	\$52.8	\$0.0	(\$2.2)
<b>Subtotal</b>	<b>\$0.5</b>	<b>\$0.5</b>	<b>\$0.5</b>	<b>\$0.0</b>	<b>\$0.0</b>	<b>\$55.9</b>	<b>\$56.4</b>	<b>\$58.6</b>	<b>\$0.0</b>	<b>(\$2.2)</b>

ACWP = Actual Cost of Work Performed

BCWP = Budgeted Cost of Work Performed

BCWS = Budgeted Cost of Work Scheduled

BAC = Budget at Completion

CV = Cost Variance

CTD = Contract-to-Date

FYTD = Fiscal Year-to-Date

SV = Schedule Variance

## BASELINE PERFORMANCE VARIANCE

(WBS Elements 3001.06.01 [Business Operations], 3001.06.02 [Human Resources], and 3001.90.04 [MSA Transition])

**Current Month Cost Variance (-\$0.0M)** – Within threshold.

**Contract-to-Date (CTD) Cost Variance (-\$2.2M)** – The unfavorable CTD variance is attributable to an increased level of support required for Performance Reporting. Additional efforts were associated with Program Controls system administration; technical baseline support; and change control. The Centralized Procurement Card (P-Card) Purchasing program was added, as well as additional staff support for the Hanford Employee Welfare Trust (HEWT). This variance will continue to increase as the number of resources needed to complete this work scope exceeds the number of resources from the original contract bid.



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# MISSION SUPPORT ALLIANCE

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## Emergency Services

Craig Walton, Vice President

## Monthly Performance Report

May 2016



Hanford Fire Department's new firefighter recruits to the MSA Emergency Services team.



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## INTRODUCTION

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The Emergency Services (ES) organization supports the site environmental clean-up missions by providing protective forces, physical security systems, information security, personnel security, nuclear Materials Control and Accountability, cyber security, program management, fire and emergency response services, and emergency operations.

## KEY ACCOMPLISHMENTS

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**Department of Energy (DOE) Headquarters (HQ) Deliverable** – Radiological Assistance Program (RAP) completed a DOE-HQ deliverable by conducting a No-Notice Exercise on May 13, 2016.

**Emergency Management Program (EMP) Drill Coordinator Workshop** – Emergency Management Program staff hosted a Drill Coordinator Workshop with Emergency Management (EM) staff from CH2M HILL Plateau Remediation Company (CHPRC), Washington River Protection Solutions (WRPS), and Pacific Northwest National Laboratory (PNNL) to share information on lessons learned, upcoming procedure changes, and other relevant EM topics.

**Emergency Operations Center (EOC) Initial Computer Based Training (CBT)** – Emergency Management Program staff met with VIVID Learning Systems to discuss the design and development of a new EOC Initial CBT course. A request for a Rough Order Magnitude cost estimate was made at the meeting.

**Navy Region 8 Northwest Command Post Exercise** – RAP-8 supported the Navy Region Northwest Command Post Exercise (a mini-Nuclear Weapons Accident Incident Exercise) on May 18, 2016.

### **EMP Contract Deliverables Submitted and/or Received Approval:**

- Contract Deliverable CD0043 , "*Limited Emergency Preparedness Evaluation/ Training Exercise Report,*" received approval on May 19, 2016; and
- Contract Deliverable CD0047, "*Radiological Assistance Program Response Plan for RAP; Region 8,*" was submitted to Richland Operations Office (RL) for approval May 19, 2016.

## HANFORD FIRE DEPARTMENT

**Hanford Fire Department (HFD) Training Academy Graduation** – Fourteen new HFD firefighters completed the 12-week HFD Firefighter Academy Training Program in May, which included Technical Rescue and Hazardous Materials Operations, Fire



extinguisher Technician, Vehicle Instrumentation Training, and Emergency Vehicle Accident Prevention training. A formal graduation ceremony was held to recognize their achievements. This was the second class of graduates to complete the Academy in 2016.

**B-Reactor Support** – HFD participated in a walk-down of the B-Reactor with the National Park Service, Manhattan Project and DOE. The purpose was to evaluate potential personnel/visitor safety risks.

**Wildland Fire Preparations Completed** – Disc lines were reinforced along the site side of the surrounding areas of the site. In addition, HFD completed disking fire breaks along site bordering highways. This completes the necessary activities to prepare the site for the upcoming Wildland fire season.

**Outdoor Wildland Presentation** – HFD hosted an outdoor wildland presentation to support the DOE-HQ Sustainability & Climate Resilience Site Tour. The Tour included representation from DOE-HQ, RL, DOE-Office of River Protection, Mission Support Alliance (MSA), CHPRC and WRPS. The presentation centered around the efforts that HFD implements year-round to prepare and manage wildfires on the Hanford site. This presentation places an emphasis on the environmental and climate aspects as well as the risks associated with HFD's work scope.

## SAFEGUARDS AND SECURITY (SAS)

**Hanford Patrol Basic Academy Graduation** – Eighteen new patrol officers graduated from the 17-week security police officer training in May. The course is certified through the National Training Center, and covers defense tactics, first aid, legal authority, emergency vehicle operations, crisis resolution search and seizure, weapons and tactics, active shooter response and tactical combat casualty care. This training results in the officers becoming federally commissioned police officers.

**Classification Reviews Process Presented at Annual Meeting** – SAS representatives attended the 51st Annual DOE Classification Officer's Technical Review Meeting at DOE-HQ in Germantown, Maryland May 3–5, 2016. During one of the sessions, SAS representatives made a presentation about the classification reviews being conducted on historical artifacts and archival materials being transferred from Hanford to Washington State University, Tri-Cities.

**2016 Hanford Tour Season** – The 2016 Hanford Tour Season began May 6, 2016. The tours will run through mid-September.



**Approval of Revised Exemption SO-RL-00-002** – SAS received RL approval for Revised Exemption SO-RL-00-002, "*Exemption Request for Limited Area Island Wall Construction Requirements*" on May 3, 2016.

**Contractor Requirements Document** – SAS submitted to RL the Impact Analysis for CRD O 475.2B, "*Identifying Classified Information*" on May 2, 2016.

**National Security System Quarterly Status Report** – The Quarterly National Security System Status Report was submitted to RL on May 23, 2016. This report is a contract requirement that provides status of the operating National Security Systems in use.

**Contract Deliverable Submitted** – Contract Deliverable CD0026, "*Site Safeguards and Security Plan (SSSP)*" was submitted ahead of schedule on May 19, 2016.

## LOOK AHEAD

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**Emergency Management Issues Special Interest Group** – EM Program staff attended the annual EM Issues Special Interest Group meeting in Leesburg, Virginia May 3-5, 2016. The focus of the meeting was to obtain a better understanding of the DOE Order 151.1C revision that is planned to be issued July 1, 2016. Most of the revisions will not require changes in the Hanford program, but there will be impacts from some new elements.

**Shoreline Trespassing Signs Inspected** – On May 3-4, 2016, Physical Security, Real Estate Services, and Road Maintenance inspected the Hanford Site "No Trespassing" signs along the Columbia River shoreline from Vernita to the Hanford/City of Richland, WA boundary. Signs requiring replacement or relocation were identified and corrective actions will be coordinated with Road Maintenance.

## MAJOR ISSUES

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Nothing to report.

## SAFETY PERFORMANCE

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Emergency Services reported no Occupational Safety and Health Administration (OSHA) recordable injuries in May. There were eight first-aid events for the month of May. Three of those events occurred during qualifications; the remainder were due to minor injuries received during normal operations.



## BASELINE PERFORMANCE

Table ES-1. Emergency Services Cost/Schedule Performance (dollars in millions).

Fund Type	May 2016					Contract-to-Date				
	BCWS	BCWP	ACWP	SV	CV	BCWS	BCWP	ACWP	SV	CV
HSPD-12 (RL-0011,RL-0012, RL-0013, RL-0030)	\$0.2	\$0.2	\$0.1	\$0.0	\$0.1	\$1.3	\$1.3	\$0.9	\$0.0	\$0.4
RL-0020 - SAS	\$3.9	\$3.9	\$4.6	\$0.0	(\$0.7)	\$387.1	\$387.1	\$398.3	\$0.0	(\$11.2)
Site-wide Services	\$1.8	\$1.8	\$2.7	\$0.0	(\$0.9)	\$176.8	\$176.8	\$186.3	\$0.0	(\$9.5)
<b>Subtotal</b>	<b>\$5.9</b>	<b>\$5.9</b>	<b>\$7.4</b>	<b>\$0.0</b>	<b>(\$1.5)</b>	<b>\$565.2</b>	<b>\$565.2</b>	<b>\$585.5</b>	<b>\$0.0</b>	<b>(\$20.3)</b>

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

CV = Cost Variance  
 CTD = Contract-to-Date  
 SV = Schedule Variance

## BASELINE PERFORMANCE, CONT.

**Explanation of Fund Type Assignments by Project Baseline System (PBS) and Work Breakdown Structure (WBS) - HSPD-12.** – Work is funded from four different PBSs (RL-0011, RL-0012, RL-0013, RL-0030), and is budgeted under WBS element 3001.01.05.02 in four separate work packages to accommodate cost collection by PBS. Also, RL-0020 work is budgeted under WBS 3001.01.01 and Site-wide Services work is budgeted under WBSs 3001.01.02, 3001.01.03, and 300.01.05.01.

### BASELINE PERFORMANCE VARIANCE:

**Current Month Cost Variance (CV) (-\$1.5M)** – Current month negative CV is attributed to several baseline differences as described in the Contract-to-Date variance. ES is working to DOE-RL-directed contract baseline re-alignment guidance that provides for a higher spending target than the baseline.

**Contract-to-Date CV (-\$20.3M)** – The primary drivers for the negative CV are the continued storage of Special Nuclear Material on the Hanford Site (not in the original baseline assumptions); implementation of new Design Basis Threat guidance, which was implemented subsequent to the MSA baseline proposal; and a baseline budgeting omission for platoon shift hours with the HFD. This activity is working to DOE-RL-directed contract baseline re-alignment guidance that provides for a higher spending target than the baseline. No mitigating actions are in place at this time to reduce the overall cost overrun.

# MISSION SUPPORT ALLIANCE

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



## Environmental, Safety, & Health

Mike Wilson, Vice President

### Monthly Performance Report

May 2016

**YOU** are at the Intersection of MSA Safety and Environmental Programs

**Y**ou are at the intersection of:  
Voluntary Protection Program  
Integrated Safety Management System  
**O**ur Environmental Mgmt System  
Automated Job Hazard Analysis  
Employee Job Task Analysis  
**U**nder Stop Work Authority  
Zero Accident Council

**They DON'T Work without YOU!**

2016-10-2016 Rev 0  
October 25, 2016



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## INTRODUCTION

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The Environmental, Safety & Health (ES&H) organization includes the following work groups:

- Worker Protection;
- Integrated & Site Wide Safety Systems (ISWSS);
- Safety & Health Program Support (S&H);
- Hanford Atomic Metal Trades Council (HAMTC) Safety Representatives;
- Environmental Integration Services (EIS);
- Public Safety & Resource Protection (PSRP); and
- Radiological Site Services (RSS).

This team ensures that all environmental, safety and health requirements are met so that Mission Support Alliance, LLC (MSA) provides its services in a safe and environmentally sound manner. The ES&H organization develops, implements and improves Integrated Safety Management (ISM), worker safety and health and radiation safety procedures that govern the work performed by MSA.

## KEY ACCOMPLISHMENTS

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**2016 Health and Safety Exposition (EXPO)** – MSA’s ES&H staff coordinated the 2016 annual EXPO that was held on May 10-11, 2016, at the TRAC facility in Pasco, Washington. This year’s theme focused on Science, Technology, Engineering, and Mathematics (STEM), and MSA volunteers from various organizations worked alongside other Hanford contractors and service providers to provide engaging and interactive exhibits for both children and adults.

**Curation Services Hanford Collection Fact Sheet Update** – PSRP Curation Services staff updated and reformatted the Hanford Collection fact sheet as a brochure at the request of Department of Energy (DOE) Richland Operations Office (RL), and Washington State University (WSU), Tri-Cities (TC). This tool can be used for sharing information about the historic collection with potential museums, organizations, and researchers who are interested in utilizing objects or accessing multi-media for the purposes of exhibits and research.

**Repackaging of Lithium-Ion (Li-Ion) Batteries** – EIS provided assistance with repackaging approximately 50 soft case Li-Ion batteries. Repackaging was performed following an incident involving the removal of a Li-Ion battery from an iPad at the 2355 Stevens, Richland, WA warehouse. During the disassembling process, one of the



batteries being removed was unexpectedly punctured causing it to subsequently ignite and burn. Following this incident, it was determined that several of these Li-Ion batteries had already been removed and placed into a container with hard case Li-Ion batteries that could have the potential to puncture the soft case battery and cause an unsafe condition. As a mitigating action, the soft case Li-Ion batteries were removed and packaged into a separate container. Additionally, the Centralized Consolidation/Recycling Center confirmed with the recycle vendor that they would accept these batteries if they were still adhered to the aluminum iPad case, which would eliminate potential hazards associated with removing the battery prior to recycling.

**Annual General Inspection of 200 East Area** – EIS organized and participated in the annual Resource Conservation and Recovery Act (RCRA) permit general inspection of 200 East Area. The inspection is required by Condition II.0 of the RCRA permit, which requires an inspection of the Hanford Facility to prevent malfunctions and deterioration, operator errors, and discharges, which may cause or lead to the release of dangerous waste constituents to the environment, or threaten human health. Of the facilities that MSA inspected (including the Crane & Rigging Facility, Fire Maintenance Facility, Fleet and Transportation Maintenance Shops, Fabrication Shops, Refrigeration Equipment Services Facility, and the Electrical Utilities Laydown Yard), there were no major concerns identified.

**Manhattan Project Historic Artifacts Left in Place** – PSRP Curation Staff along with DOE-RL was notified by CH2MHill Plateau Remediation Company (CHPRC) that treatment plan mitigation curation items for the Hanford Site Manhattan Project and Cold War Era Historic District were in an airborne radioactivity area and no longer available for collection. Since the Plutonium Finishing Plant control room panels can no longer be collected for curation, the project must document these items through photography and video. For use by CHPRC, curation Services and WSU-TC compiled guidance on standards for documentation of items that cannot be collected.

## LOOK AHEAD

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**AVISTA Transmission Line Rebuild Project Environmental Assessment** – EIS met with RL, MSA Real Estate Services, MSA Public Safety and Resource Protection, and MSA Contracts to discuss support to the AVISTA Transmission Line Rebuild Project Environmental Assessment (EA). RL has requested a technical proposal and cost estimate from MSA to provide a National Environmental Policy Act review, a biological resources review, and a cultural resources review. AVISTA will fund MSA's support to the assessment. MSA's role is to interface with AVISTA on behalf of RL to ensure the

EA’s adequacy, correctness, completeness, accuracy, and compliance with established requirements.

## MAJOR ISSUES

**Abandoned Paint Waste Investigation** – EIS provided support to MSA Real Estate Services following the discovery of abandoned paint containers on May 12, 2016, by City of Richland, WA personnel north of the 300 Area. Less than one gallon of paint appeared to have been released to the soil. The spilled paint appeared to have not soaked into the ground. The Emergency Operations Center was notified, and an Environmental Event Report was initiated by EIS. The DOE Environmental Safety and Quality personnel have visited the site, and have indicated that they do not believe an immediate threat to the environment exists. Per DOE request, EIS provided an informational notification to the Washington Department of Ecology, Central Regional Office. Hanford Security has directed EIS to postpone the removal of any material due to an ongoing investigation.



Abandon Paint Containers

## SAFETY PERFORMANCE

ES&H had no Occupational Safety and Health Administration recordable injuries in May.

## BASELINE PERFORMANCE

Table ES&H-1. ES&H Cost/Schedule Performance (dollars in millions).

Fund Type	May 2016					Contract-to-Date				
	BCWS	BCWP	ACWP	SV	CV	BCWS	BCWP	ACWP	SV	CV
Site Wide Services	\$2.2	\$2.2	\$2.4	\$0.0	(\$0.2)	\$194.1	\$194.1	\$196.1	\$0.0	(\$2.0)
<b>Subtotal</b>	<b>\$2.2</b>	<b>\$2.2</b>	<b>\$2.4</b>	<b>\$0.0</b>	<b>(\$0.2)</b>	<b>\$194.1</b>	<b>\$194.1</b>	<b>\$196.1</b>	<b>\$0.0</b>	<b>(\$2.0)</b>

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

CV = Cost Variance  
 CTD = Contract-to-Date  
 SV = Schedule Variance



## **BASELINE PERFORMANCE VARIANCE**

**SWS – ES&H (WBS 3001.02.01, 3001.02.02, 3001.02.03, 3001.02.04, 3001.04.11 and 3001.06.03) Cost Variance (CV):**

**Current Month CV (-\$0.2M)** – The unfavorable current month variance is primarily due to the approved Integrated Investment Portfolio (IIP) funding and work scope occurring at a different level of support than the contract baseline. Expenditures will remain in accordance with approved funding and IIP scope.

**Contract-to-Date CV (-\$2.0M)** – The unfavorable contract-to-date variance is primarily due to IIP scope and approved funding decreases in EIS and PSRP due to FY 2013-2014 Integrated Priority List (IPL) scope and approved funding adjustments that resulted in FY 2014 staffing reductions. Key offsets include IIP increases in maintaining the FY 2015 Site-Wide Safety Standards; the RSS move from the 300 Area to the 200 Area; Worker Protection needing additional Industrial Hygienists to respond to appropriate support workload; Worker Safety and Health needing additional Radiation Control Technicians and Hanford Atomic Metal Trades Council (HAMTC) Safety Representatives to respond to Site issues; and the Beryllium program responding to Chronic Beryllium Disease Prevention Program Revisions and new sampling requirements. The approved IIP funding and work scope continues at a higher level of support than the contract baseline assumed. There are no other potential contributing factors.

# MISSION SUPPORT ALLIANCE

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## Information Management

Todd Eckman, Vice President

### Monthly Performance Report

May 2016



*Surface Pro 4 Tablet Testing Initiated*



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## INTRODUCTION

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Mission Support Alliance, LLC's (MSA's) Information Management (IM) organization brings best-in-class IM services to the Hanford Site. A variety of infrastructure, services, and applications are provided that include support to safety, security, site infrastructure, and cleanup missions; administrative support systems and processes; telecommunications and network infrastructure; records, document, and content management; cyber security; network operations and security center; desktop services; Information Support services including reproduction services; site forms; multi-media services; geospatial information management and site mapping services; and the Mission Service Desk; Property and Warehouse Management including inventory management; asset disposition; store delivery; courier; and property management and warehouse operations. IM's goal is to ensure technology solutions, and innovations are supporting every project's success in the Hanford Site cleanup mission. IM's goal is achieved by confirming that top quality services and solutions are delivered in a professional and timely manner.

## KEY ACCOMPLISHMENTS

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### INFRASTRUCTURE SYSTEMS

**A-Complex Base Station** – MSA IM Infrastructure Engineering finished installing the base radio for the Washington River Protection Solutions (WRPS) A-Complex control building. MSA installed a new antenna outside the building for the best coverage and placed the base radio in the supervisor's area. The team expedited this project to meet the urgency of WRPS's tank farm monitoring mandates.

**QuickTime Removed** – Apple<sup>[1]</sup> announced they have deprecated QuickTime<sup>[1]</sup> for Windows<sup>[2]</sup> and will no longer provide security updates. After identifying two critical vulnerabilities affecting the latest version of QuickTime, a job was added to SysPatch to remove QuickTime from all affected systems.

**Hanford Federal Net (HFNet) Retired** – The Hanford Federal Net (HFNet) was created to segregate U.S. Department of Energy (DOE) and DOE Office of River Protection (ORP), employees, computers, and data from the Hanford Local Area Network (HLAN). This segregation is no longer needed, so MSA IM is retiring the HFNet

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<sup>[1]</sup>Apple and QuickTime are trademarks of Apple, Inc., Cupertino, California.

<sup>[2]</sup>Windows, Microsoft, Internet Explorer, BitLocker, Surface, Active Directory, Intune, SQL Server and SharePoint are trademarks of Microsoft Corporation, Redmond, Washington.

infrastructure. All HFNet group policies have been moved to HLAN organizational units, along with several users and computers.

**Aerial Cables Removed** – MSA technicians successfully and safely removed low-hanging telecommunications cables to allow WRPS better access for heavy cranes to the C-Tank Farm. The scope included removing two aerial spans of fiber optic and copper cables, messenger wire, moving an aerial telephone terminal, and restoring analog telephone service to the Mobile Office (MO) 512 ingress/egress trailer. MSA Infrastructure Engineering coordinated this work with Electrical Utilities personnel.



Low-hanging cables removed

**Network Redundancy Improved** – In May, MSA IM worked to improve network redundancy for the 609A fire station located at the Environmental Restoration Disposal facility. The work primarily consisted of reconfiguring several fiber optic special circuits to create dual paths from each relative end point. This ensured that no single switch failure would create an outage for fire station operations. The reconfiguration was completed May 17, 2016.

## UNCLASSIFIED CYBER SECURITY

**Consultation Visit with Savannah River Site** – The Information System Security Manager and MSA’s Director of Cyber Security had a successful visit with the Cyber Security team at the Savannah River Site in Aiken, South Carolina. Topics discussed included certain cyber security topics and approaches, including incident response, incident detection, and the protection of Industrial Control systems.

## SOFTWARE ENGINEERING SERVICES

**Tank Farms Project Management (TFPM) System** – MSA IM successfully implemented Version 17.2 of the Tank Farms Project Management (TFPM) system. TFPM is a project management and reporting system used for Baseline Management at WRPS. This latest release included enhancements to the forecasting module.

**DOE-Richland Operations Office (RL) Feedback and Improvement Tool** – MSA-IM successfully implemented a new version of the RL Feedback and Improvement Tool. This is a custom application developed for the RL Environmental Safety and Quality Division organization. The software application captures identified quality



improvements and observations as well as providing RL the ability to document improvements in a consistent, repeatable process.

## LOOK AHEAD

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**Firewall and Proxy Replacement** – The current end-of-life core firewalls and proxies will be replaced with a new firewall. Work has begun and completion is expected later this fiscal year.

**DOE Operations Key Performance Goals Dashboard Revision** – IM is working the development of the Fiscal Year Work Plan change to the RL Key Performance Goals dashboard. This change will tie the Operations Key Performance Goals into flat file metrics, eliminating the need for the projects to manually enter the data in two places. Once completed, the system will automatically generate the necessary data and calculate the status of completed fiscal year work plan metrics for the Key Performance Goals.

## MAJOR ISSUES

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None to report.

## SAFETY PERFORMANCE

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There were no Occupational Safety and Health Administration (OSHA) recordable injuries reported in May. There were two first-aid injuries; an employee experienced a cut finger, and another employee suffered a fall while exiting the building. No vehicle accidents were reported during the month.



## BASELINE PERFORMANCE

Table IM-1. IM Cost/Schedule Performance (dollars in millions).

Fund Types	May 2016					Contract-to-Date				
	BCWS	BCWP	ACWP	SV	CV	BCWS	BCWP	ACWP	SV	CV
RL-0020 - Safeguards & Security	\$0.2	\$0.2	\$0.2	\$0.0	\$0.0	\$11.7	\$11.7	\$14.4	\$0.0	(\$2.7)
RL-0040 - Nuc. Fac. D&D - Remainder Hanford	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$2.4	\$2.4	\$1.6	\$0.0	\$0.8
Site-Wide Services	\$2.6	\$2.6	\$2.5	\$0.0	\$0.1	\$252.4	\$252.4	\$246.8	\$0.0	\$5.6
<b>Subtotal</b>	<b>\$2.8</b>	<b>\$2.8</b>	<b>\$2.7</b>	<b>\$0.0</b>	<b>\$0.1</b>	<b>\$266.5</b>	<b>\$266.5</b>	<b>\$262.8</b>	<b>\$0.0</b>	<b>\$3.7</b>

ACWP = Actual Cost of Work Performed

BCWP = Budgeted Cost of Work Performed

BCWS = Budgeted Cost of Work Scheduled

CV = Cost Variance

CTD = Contract-to-Date

SV = Schedule Variance

## BASELINE PERFORMANCE VARIANCE

### Current Month (CM) Cost Variance (CV) (+\$0.1M)

**CM Site-Wide Services (SWS) (+\$0.1)** – The current month positive CV is realized savings from self-performance of Software Engineering Services and Content & Records Management scope.

**Contract-to-Date (CTD) Cost Variance (+\$3.7M)** – The majority of the CTD variances in these accounts are due to the approved funding and Integrated Investment Portfolio (IIP) scope being divergent from the baseline. CTD variances will continue and expenditures will be in accordance with approved funding and MSA IIP scope. MSA will assess any potential need for a cost growth proposal, and if deemed necessary, will develop and submit a proposal.

**RL-20 (-\$2.7M)** – The baseline budget did not include Unclassified Cyber Security. Performance of this work has resulted in this CTD CV.

**RL-40 (+\$0.8M)** – The general supplies inventory account has seen more sales than CTD purchases. This is a time-phasing issue; the variance is expected to be resolved by the end of the fiscal year.



**SWS (+\$5.6M)** – The majority of the CTD variances in these accounts are due to the approved funding and IIP scope being divergent from the baseline. CTD variances will continue and expenditures will be in accordance with approved funding and IIP scope. Areas that are divergent from the current baseline include: IM Project Planning & Controls; IM Intranet & Collaboration; Information Technology; Cross Functional Services; Information Systems; Financial Management Systems; IM System Work Portal; Hanford Site Emergency Alerting System; Long-Term Storage; Major Collection Management; Information Resources and Content Management; Multi-Media Services; Geospatial; Transportation; Mail Services; and Property Systems/Acquisitions.



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# MISSION SUPPORT ALLIANCE

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## Portfolio Management

Steve Young, Vice President

## Monthly Performance Report

May 2016



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## INTRODUCTION

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The Mission Support Alliance, LLC (MSA) Portfolio Management (PFM) organization delivers an integrated planning and information management approach that allows the U.S. Department of Energy (DOE), Richland Operations Office (RL) to make informed decisions on cleanup efforts. This approach aligns and integrates DOE and Hanford contractor planning and performance data and provides the information in meaningful outputs for analysis and action. Through this integration, MSA PFM provides technical support and expertise in project, portfolio, and enterprise management for continual optimization of the cleanup mission lifecycle and achievement of the Hanford End State Vision. As such, the MSA PFM organization supports and performs: Lifecycle Planning; Fiscal Year (FY) Work Planning; Baseline Decision Management; Mission Support Planning; Budget Formulation Planning; Analytical Tool Development; Project Interface; and Analytics. MSA PFM provides analytical and unbiased recommendations to assist DOE cleanup and resource allocation decisions.

## KEY ACCOMPLISHMENTS

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**2016 Hanford Lifecycle Scope, Schedule and Cost Report** – The Lifecycle Report Project Managers Meeting was held on May 26, 2016. At this meeting the State of Washington, Department of Ecology, noted that Tri-Party Agreement (TPA) Change Notice M-036-01 was still being reviewed by their legal counsel. Change notice M-036-01 would modify the lifecycle report TPA milestone due date from annually to every five years, or earlier if there is a significant baseline change. MSA PFM anticipates that RL will issue a contract modification after this change notice is signed. The contract modification would implement the revised report due date and/or remove submittal of the draft and final 2017 Lifecycle Reports.

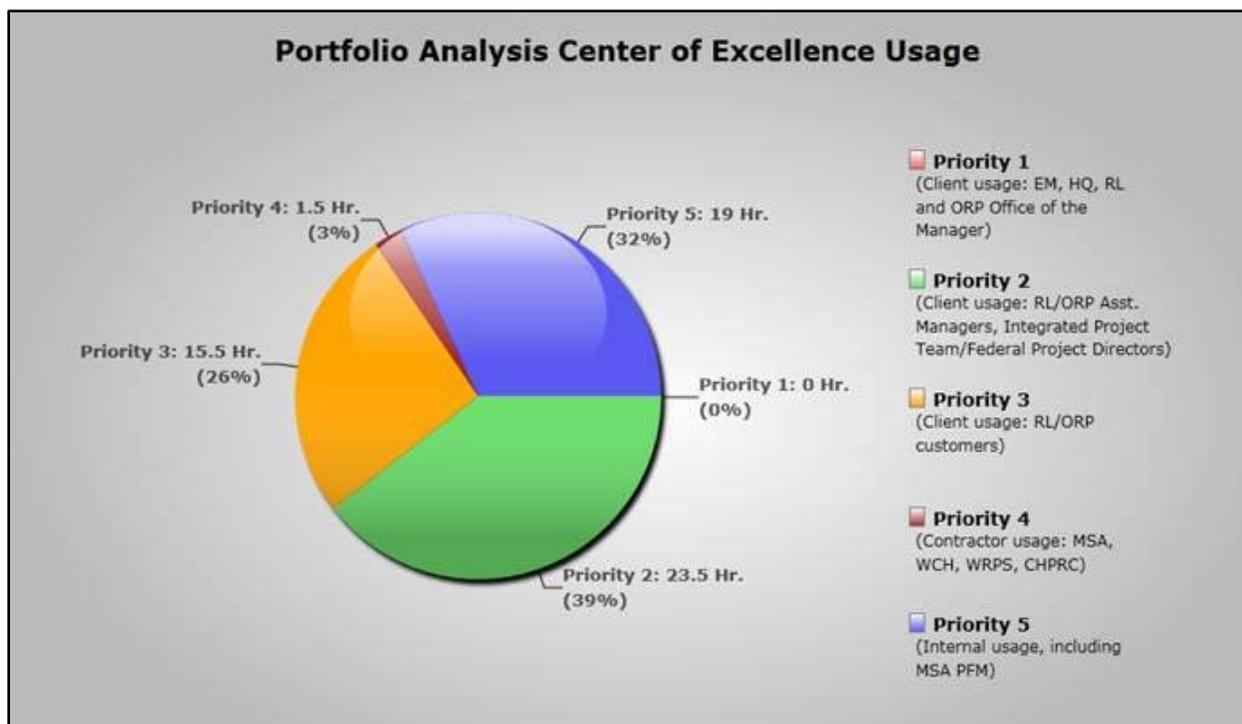
**Budget Formulation** – As part of the lessons learned analysis of the FY 2018 – FY 2022 budget formulation process, a number of improvements were identified by both PFM and RL. PFM analyzed the data fields in the Ranked Integrated Priority List database, identified fields no longer applicable, and submitted the list to RL for approval. Corrections were also entered into the Headquarters Environmental Management Budget Prioritization Module.

**Dashboards and SharePoint** – Revisions to the RL Procurement dashboard were released on May 4, 2016. These revisions included minor changes to reports for Change Orders and Request for Equitable Adjustments.

PFM completed development and testing of the RL Feedback and Improvement Tool dashboard. The customer provided approval to deploy on May 31, 2016. The

dashboard displays detailed information regarding improvement reports, RL Management Assessments/Independent Assessments, and assessments done by external entities (e.g., DOE-HQ). It also displays performance metrics on how well RL is dispositioning the improvement reports against targeted goals for timeliness, quality, and effectiveness.

**Portfolio Analysis Center of Excellence (PACE)** – Metrics for the PACE are provided in hours of usage via a dashboard. The Priority levels and the hours of usage for May are displayed in the chart below:



## LOOK AHEAD

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None at this time.

## MAJOR ISSUES

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Nothing to report.

## SAFETY PERFORMANCE

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No Occupational Safety and Health Administration Recordable injury or First Aid injury cases were reported for PFM in May 2016.



## BASELINE PERFORMANCE:

Table PFM-1. Portfolio Management Cost/Schedule Performance (dollars in millions)

Fund Type	May 2016					Contract-to-Date				
	BCWS	BCWP	ACWP	SV	CV	BCWS	BCWP	ACWP	SV	CV
1000HQ – DOE-HQ Funding	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.1	\$0.1	\$0.1	\$0.0	\$0.0
1000PD - Richland Program Direction	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.4	\$0.4	\$0.3	\$0.0	\$0.1
RL-0011 - Nuclear Mat Stab & Disp PFP	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
RL-0030 - Soil & Water Rem-Grndwtr/Vadose	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.1	\$0.1	\$0.1	\$0.0	\$0.0
RL-0040 - Nuc Fac D&D Remainder Hanfrd	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.1	\$0.1	\$0.0	\$0.0	\$0.1
RL-0041 - Nuc. Fac. D&D RC Closure Proj	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$1.2	\$1.2	\$1.1	\$0.0	\$0.1
Site-Wide Services	\$0.5	\$0.5	\$0.4	\$0.0	\$0.1	\$48.5	\$48.5	\$44.5	\$0.0	\$4.0
<b>Subtotal</b>	<b>\$0.5</b>	<b>\$0.5</b>	<b>\$0.4</b>	<b>\$0.0</b>	<b>\$0.1</b>	<b>\$50.4</b>	<b>\$50.4</b>	<b>\$46.1</b>	<b>\$0.0</b>	<b>\$4.3</b>

ACWP = Actual Cost of Work Performed

CV = Cost Variance

BCWP = Budgeted Cost of Work Performed

CTD = Contract-to-Date

BCWS = Budgeted Cost of Work Scheduled

SV = Schedule Variance

## BASELINE PERFORMANCE VARIANCE

**Current Month Cost Variance (CV) (+\$0.1M)** – The positive current month CV is due to less PFM support required than assumed for integrated planning actions. The positive variance is partially offset by additional Information Technology subcontract resource requirements needed for development of new software tools/reports requested by RL.

**Contract-to-Date (CTD) Cost Variance (CV) (+\$4.3M)** – The positive CTD CV is primarily due to less PFM support required than assumed for integrated planning actions. The positive variance is partially offset by additional Information Technology subcontract resource requirements needed for development of new software tools/reports requested by RL.



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# MISSION SUPPORT ALLIANCE

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## President's Office

W. K. Johnson, President

R. E. Wilkinson, Chief Operations Officer

## Monthly Performance Report

May 2016



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## INTRODUCTION

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The President's Office (PO) is comprised of site-wide services consisting of Quality Assurance (QA), Performance Oversight, Mission Support Alliance (MSA) Engineering, Risk Management, and External Affairs.

The QA and Performance Oversight organizations establish quality requirements for MSA and its subcontractors. Acquisition Verification Services (AVS) and QA provide audit and inspection services for the other Hanford Contractors (OHCs), and the Integrated Evaluation Plan (IEP) for annual operational assessments. It also provides MSA management with the information to evaluate and improve all aspects of the organization through Corrective Action Management.

The MSA Engineering organization provides the technical and engineering skills necessary to plan, review and coordinate all engineering aspects of Mission Support Contract work. It produces consistent, high quality engineering products that enhance the reliability of the mission critical site infrastructure systems and facilities. Monthly project status updates from Engineering are included within the other Functional Organization reports.

Risk Management assists all MSA project organizations in identifying, characterizing, prioritizing, handling and monitoring operational risks within their work scope. These risks are then communicated to MSA senior management, the OHCs, and the U.S. Department of Energy (DOE), Richland Operations Office (RL) to enhance strategic decision making.

The External Affairs department provides a myriad of communication functions for DOE, Hanford Site contractors, employees, and the public. The group supports RL, addressing specific contractual objectives, commitments and milestones, and manages the Hanford Speakers Bureau and Hanford Public Tour programs. The External Affairs function also facilitates community outreach on behalf of MSA and its employees.

## KEY ACCOMPLISHMENTS

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### PERFORMANCE OVERSIGHT

**Independent Assessment (IA) Activities** – Activities in the month of May included the following:

- Met with personnel from the Safety & Health organization to go over comments on IA-16-0013, "Industrial Hygiene Equipment Services." Comments will be incorporated and a final report will be issued.



- Assessment NSA-16-0049, “WAI Hanford Laboratory Environmental Management System Program Implementation” was initiated.
- Completed and issued IA-15-0022, “Effectiveness of Corrective Actions Associated with Procedure Noncompliance during Fire System Testing.”

**Quality Assurance**

**Acquisition Verification Services Activities** – MSA’s acquisitions verification service activities for CH2M HILL Plateau Remediation Company (CHPRC) and Washington River Protection Solutions LLC (WRPS) for May were:

2016 Activities	CHPRC Current Month Total	WRPS Current Month Total	Total-to-Date
Source Inspections	3	8	44
Annual Desk Reviews	2	2	8
Supplier Evaluations/Audits			6
First Article Inspection			1

**RISK MANAGEMENT**

**Transaction Request (TR) Submittals** – One TR submitted by Environmental, Safety & Health (ES&H) was reviewed for potential risk impacts.

**Risk Management Board (RMB)** – The Risk Management Board met and approved two new Mission risks, four new Reliability Project risks, and closure of one Mission risk. The RMB also reviewed the re-characterization of three Mission risks, and reviewed the overall MSC risk posture.

**Risk Elicitations** – Risk elicitations were completed for Information Management (IM) and ES&H. Additional follow-on meetings will be held to update the risk posture for each department.

**Risk Development** – Two potential new risks related to the Fleet Shop circuit load were developed. These risks will be presented to the Risk Management Board for approval at the next month’s board meeting.

**Risk Review/Update** – Two risk reviews were completed for MSA IM. The Cyber Security risks were updated. Three potential risks in Content & Records Management were deleted because it was decided they did not pose a viable threat. Two other potential risks were identified for future development.

## EXTERNAL AFFAIRS

**Hanford Advisory Board (HAB) Leadership Workshop** – MSA supported RL by attending the HAB Leadership workshop, providing input on topics of concern, and assisting with the planning of the future board meeting locations.

**Public Involvement Plan Schedules** – To ensure TPA deadlines are met, MSA developed a detailed schedule template that supports RL and overall Tri-Party Agreement (TPA) Public Involvement strategies. The schedule created a critical timeline template that may contain the following steps: issue a Listserv pre-notice, send final fact sheet to reproduction services, draft Listserv notice for start of comment period (route for review/approval), mail/email fact sheet to Public Information Repositories and Administrative Record, create an event for the comment period on the Hanford calendar, create Hanford website banner for the comment period, issue a Listserv with the fact sheet, place an ad for the comment period in the local newspaper, and host a public meeting, because each PI activity is different. This template serves as an effective tool to ensure RL achieves all the necessary requirements and meets all TPA PI deadlines. MSA will update each public involvement schedule and assign dates and responsibilities needed during each activity.

**Public Meeting Support** – MSA supported RL by coordinating the fact sheet, Listserv messages, and meeting presentation for a public meeting addressing the proposed closure plan for the B Plant 276-BA Organic Storage Facility. This meeting was scheduled on May 17, 2016 for the public to discuss the proposed plan to close the 276-BA Organic Storage Facility located at the B Plant.

**MSA Named Top Fundraiser for Local Cancer Center “Run for Ribbons”** – MSA was named the top fundraiser at the 2016 Run for Ribbons, raising more than \$4,000 to benefit the Tri-Cities Cancer Center Foundation. All proceeds stay local to benefit cancer patients and their families in the community. The Cancer Center is on the approved list of our company supported community volunteer events.



“Run for Ribbons” Event Participants

**Key Performance Goal Metrics Recognition** – MSA was recognized for its direct involvement in the completion of the Key Performance Goal (KPG), “In concert with the regulators, hold workshop with Hanford stakeholders to obtain input on cleanup priorities.” MSA Communications and External Affairs staff members assisted RL and



DOE Office of River Protection (ORP) in achieving this KPG through planning and running a workshop with key stakeholders.

**MSA Organizes Tours for DOE** – MSA organized five tours for DOE in May: Oregon Senator Ron Wyden and staff ORP; Atomic Energy Canada Limited (RL and ORP); Leadership Tri-Cities (RL); Tribal School Tour (RL); and DOE-HQ and RL. In addition to coordinating logistics for executing the tours, MSA also accompanied Senator Wyden and Atomic Energy Canada Limited groups on each of their tours. Responsibilities involved developing the tour agendas as well as securing briefs as needed, coordinating visitor badging, ensuring personal protective equipment, and participating in the tour as logistics hosts.

## LOOK AHEAD

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None to report.

## MAJOR ISSUES

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None to report.

## SAFETY PERFORMANCE

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In May, the President's Office reported no Occupational Safety and Health Administration Recordable injury or First Aid injury cases.

## BASELINE PERFORMANCE

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Table PO-1. President's Office Cost/Schedule Performance (dollars in millions).

Fund Type	May 2016					Contract-to-Date				
	BCWS	BCWP	ACWP	SV	CV	BCWS	BCWP	ACWP	SV	CV
Site-wide Services	\$0.7	\$0.7	\$0.6	\$0.0	\$0.1	\$59.6	\$59.6	\$49.7	\$0.0	\$9.9
<b>Subtotal</b>	<b>\$0.7</b>	<b>\$0.7</b>	<b>\$0.6</b>	<b>\$0.0</b>	<b>\$0.1</b>	<b>\$59.6</b>	<b>\$59.6</b>	<b>\$49.7</b>	<b>\$0.0</b>	<b>\$9.9</b>

ACWP = Actual Cost of Work Performed.

CV = Cost Variance.

BCWP = Budgeted Cost of Work Performed.

CTD = Contract-to-Date

BCWS = Budgeted Cost of Work Scheduled.

SV = Schedule Variance.

## BASELINE PERFORMANCE VARIANCE

**Current Month (CM) Cost Variance (+\$0.1M)** – The favorable Current Month Cost Variance is primarily associated with the MSA Engineering Organization because the approved funding level and Integrated Investment Portfolio (IIP) is significantly less than the contract baseline.



**Contract-to-Date (CTD) Cost Variance (+\$9.9M)** – The favorable Contract-to-Date Cost Variance is primarily attributable to MSA Engineering's approved funding and IIP being divergent from the contract baseline. Through the annual IIP process, the MSA Engineering organization was authorized/funded to perform much less work than had been planned in the baseline.



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# MISSION SUPPORT ALLIANCE

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## Public Works

Daniel G. Saucedo, Acting Vice President

## Monthly Performance Report

May 2016





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## INTRODUCTION

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The Mission Support Alliance, LLC (MSA) Public Works (PW) function provides a myriad of services to support a broad base of customers performing their respective Hanford Site missions. PW provides best-in-class operations and support services within a culture of safety, customer service and fiscal responsibility. PW services include: Strategic Planning and Reliability Projects (Infrastructure and Services Alignment Plan); Ten Year Site Plan and Reliability Projects; Site Infrastructure Services (Electrical Utilities (EU); Water and Sewer Utilities (W&SU), B Reactor; Roads and Grounds, and Biological Controls); Facilities Management (Work Management, Operations & Maintenance and Custodial Services); Real Estate Services (RES); and Compliance & Risk Mitigation. PW's goal is to provide cost-effective and timely services that are centered on customer needs in support of the Hanford environmental cleanup objectives.

## KEY ACCOMPLISHMENTS

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**Upgrades Made to Substation Monitoring Devices – EU** recently purchased substation monitoring devices for installation at Substations A6, A8, and A9. The added capability will better allow EU to monitor power usage, providing detailed data on electrical disturbance detection. The devices will add additional data points, provide scalability, and enhance communications. The monitors will also allow for real-time integration with other system upgrades crucial in the effort to engineer solutions for Hanford's aging equipment.



*Workers train on upgraded substation monitoring devices*

**EU Right-sizes WRPS Transformer –** Helping Washington River Protection Solutions (WRPS) meet their mission, EU Lineman right-sized a transformer to increase mobile office capacity at C-Farm Tank Farms. Lineman replaced a 50kVA transformer with a 75kVA, upgraded the cutout fuses and lightning arrestors, and installed them on a new fiberglass arm. While EU was making these system changes, outage potential was mitigated by installing bird-guard insulated wire and protective caps as well. EU additionally performed electrical



*Electrical transformer upgraded at Tank Farms*

switching at the 2750 East (E) Building to replace a secondary transformer in the switchgear room.

### **EU Support at Plutonium Finishing Plant (PFP) – EU**

Lineman, Substation Electricians and Substation Operators continued their support at the PFP. On May 14, 2016, a portable transformer on a skid was moved into place to provide large amounts of temporary power for demolition activities. Lineman prepped the cables for testing, connected jumpers, and closed the fuses. Operators energized the transformer by closing the primary disconnect. The transformer skid will service mobile offices, air monitors, cameras, and lighting. These actions were provided to help CH2M HILL Plateau Remediation Company.



*Transformer Skid at PFP*

**Project L-840 Export Line Replacement Progress** – Progress is underway with a major infrastructure upgrade project to support raw water and potable water needs for the Hanford site. Crews began the excavation and pipe installation for Project L-840, which will replace the aging 24-inch export waterline that feeds the 200W raw water reservoir. The construction crew was able to excavate and backfill more than 800 feet of line during the course of one day. The project is expected to finish in July and is critical to ensure W&SU can continue to supply the Central Plateau with Columbia River water in support of fire suppression, process operations, and potable water generation for domestic use.



*Excavation Work Before Replacing Aging 24-inch Export Waterline*

**Line 8 Power Line Road Renovation** – The renovation of the EU Line 8 power line road was completed in May. Servicing these roads will allow EU continued access to the power lines during unplanned outage response and maintenance activities.



*Renovating Line 8 Power Line Road*

**Electrical Lines Moved** – EU recently moved electrical lines for a Swainson’s hawk and her family due to the proximity with a nest. This species is currently being monitored on Washington State’s Endangered List. Several protection solutions were considered, but ultimately moving the lines to the top cross arm was determined to be the safest. EU continues to protect the environment, including installing bird guards and insulated wire, wherever possible.



*Electrical Lines Around Monitored Hawk Nest*

**283W Flocculator Motor Installation** – The 283W Water Treatment Facility processes potable water for use on the Central Plateau. The facility has been in operations for over 70 years, and several upgrade projects have commenced to enhance the operability and life cycle of the facility. In May, a new variable frequency drive (VFD) unit was installed to support new 2 horse power flocculator motors in settling basins 1 and 4. Installing this new equipment involves close coordination between Water and Sewer Utilities and Projects personnel to ensure the operational tests were performed satisfactorily, operators were trained on the new equipment, and the appropriate procedures were developed for use.



*VFD unit installed at water treatment facility*

**Hanford Site Access Control Signs** – On May 3–4, 2016, MSA Long-Term Stewardship and Security personnel, along with U.S. Department of Energy (DOE) Richland Operations Office (RL), assessed the condition and location of Hanford Site access control

signs along the Columbia River. Signage is one of the institutional controls used to protect human health and the environment. Each sign was geo-referenced, and the entire data set will be tabulated and summarized. The signs were found in a variety of conditions.

**Site Excavation Permit Application (SEPA)** – On May 26, 2016, MSA (RES) announced the release of the Site Excavation Permit Application – Phase II (SEPA II) to approximately 450 users. The SEPA II contains more than 40 enhancements, making the system more efficient and giving users more powerful features for processing excavation permits. One of SEPA II’s most significant features is the Map Draw and conflict analysis module. All permits will create excavation footprints on a Geospatial Information System (GIS) compatible map in which the system performs an interference analysis, alerting users of potential subsurface and institutional control conflicts. The system generates the Potential Conflicts list (illustrated on the right side of the graphic) for user awareness and action.



*SEPA streamlines processing of excavation permits*



## LOOK AHEAD

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**Laser Interferometer Gravitational-Wave Observatory (LIGO) Alternate Power Feed –** EU and other Hanford personnel met with the Washington Benton Public Utilities District Linemen to collaborate on an upcoming project providing an alternate power source to the LIGO. The plan will allow for a switch between two power sources feeding the existing overhead line serving LIGO. This plan will allow EU to perform maintenance activities on the switchgear without requiring a LIGO outage.

**Avista Electrical Transmission Line Rebuild Project –** MSA received a letter from RL requesting a Technical Proposal and Cost Estimate for supporting RL with the Avista line rebuild project. RES personnel coordinated several meetings with other MSA organizations to initiate planning for the MSA response. The initial focus is on FY 2016 work scope only. The project will likely span FY 2016 to FY 2018. The project is private but located partly on DOE-managed lands. After negotiations are complete, Avista will provide funding to RL for MSA support through a Request for Services agreement. RL and MSA subject matter experts met on May 19, 2016, to discuss the development of a statement of work/technical proposal for MSA support to RL during the permitting and construction phase of the line rebuild project. The draft Technical Proposal went through MSA review/concurrence and was submitted to RL on May 26, 2016.

## MAJOR ISSUES

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On May 23, 2016, an Operator discovered a small leak, approximately 3/8" in diameter, on the 182B pump discharge header. Emergency repairs were immediately started because the 182D pump was the only source of water to the Central Plateau until repairs could be completed.

## SAFETY PERFORMANCE

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During the month of May, there were no Occupational Safety and Health Administration Recordable injuries within PW. There was one minor First-Aid case involving an employee who felt pain in the right foot while walking down stairs. In addition, there was one non-injury vehicle accident reported when a driver struck a bollard.



## BASELINE PERFORMANCE

Table PW-1. Public Works Cost/Schedule Performance (dollars in millions).

Fund Type	May 2016					Contract-to-Date				
	BCWS	BCWP	ACWP	SV	CV	BCWS	BCWP	ACWP	SV	CV
ORP-0014 - Rad Lqd Tk Wst Stab & Disp Ops	\$0.7	\$0.3	\$0.3	(\$0.4)	\$0.0	\$11.1	\$13.1	\$11.3	\$2.0	\$1.8
RL-0020 – Safeguards & Security	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$1.3	\$1.3	\$1.6	\$0.0	(\$0.3)
RL-0040 - Nuc. Fac. D&D - Remainder Hanf	\$1.3	\$1.7	\$1.2	\$0.4	\$0.5	\$58.7	\$55.2	\$60.0	(\$3.5)	(\$4.8)
RL-0041 - Nuc. Fac. D&D - RC Closure Proj	\$0.2	\$0.2	\$0.2	\$0.0	\$0.0	\$17.7	\$16.8	\$16.0	(\$0.9)	\$0.8
RL-0044 - B Reactor	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.1	\$0.0	(\$0.1)
RL-0100 - Richland Comm & Reg Supt	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.3	\$0.0	(\$0.3)
Site-Wide Services (SWS)	\$2.5	\$2.5	\$4.1	\$0.0	(\$1.6)	\$261.8	\$261.8	\$300.6	\$0.0	(\$38.8)
<b>Subtotal</b>	<b>\$4.7</b>	<b>\$4.7</b>	<b>\$5.8</b>	<b>\$0.0</b>	<b>(\$1.1)</b>	<b>\$350.6</b>	<b>\$348.2</b>	<b>\$389.9</b>	<b>(\$2.4)</b>	<b>(\$41.7)</b>

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

CV = Cost Variance  
 CTD = Contract-to-Date  
 SV = Schedule Variance

## BASELINE PERFORMANCE VARIANCE

**Current Month Schedule Variance (SV) – Within Threshold.**

**ORP-14 Current Month SV (-\$0.4M)** – The Project L-780, *200E 13.8kV Electrical Distribution System Modifications*, current month variance is due to the timing of procurement and construction activities during prior months, (performed earlier than budgeted) (-\$0.4M).

**RL-40 Current Month SV (+\$0.4M)** – The Project L-840, *24in Line Replacement from 2901Y to 200W CM SV* is due to initiating pipe installation ahead of schedule (+\$0.2M); Project L-830, *Filter Plant Filter Ctrl Sys Upgrade*, SV is due to engineering design completing behind schedule impacting successor activities and delays in material delivery (-\$0.1M); Project L-834, *Filter Plant Flocculator Sys Upgrade CM SV* is due to recovering the schedule through completing procurement and installation activities in the current month which were originally planned for prior and current month periods. Transition to operations was also initiated ahead of schedule (+\$0.1M); Project L-789, *Prioritize T&D*



*Sys Wood PP Test & Replace*, current month SV was a result of not performing all the initially scheduled work (i.e., Project Execution Plan Approval, Functional Requirements Document Preparation, Finalized Listing of Test/Treat pole inventory, etc.) related to new project guidance (-\$0.1M); and Project L-856, *Route 4N Rut Repair* CM SV is due to field work not being performed in fiscal May, as originally planned (+\$0.4M).

Total variances in other RL-40 accounts are individually below threshold.

## **PW Current Month Cost Variance (CV) (-\$1.1M)**

**ORP-14, RL-20, RL-41, RL-44, & RL-100 Current Month CV – Within Threshold.**

**RL-40 CM CV (+\$0.5M)** –Project L-840, *24in Line Replacement from 2901Y to 200W*, cost variance is due to award of construction subcontract below estimate (+\$0.1M); Project L-834, *Filter Plant Flocculator Sys Upgrade* CM CV is due to installation of the flocculator motors more efficiently than planned (+\$0.1M); Project L-612, *230kV Trans Sys Recon and Sustain Repairs* CM CV is due to the ecological/biological reviews and 30% Conceptual Design Report completing under planned budgets (+\$0.1M); and Project L-856, *Route 4N Rut Repair* CM CV is due to field work not being performed in fiscal May, as originally planned (+\$0.3M).

Total variances in other RL-40 accounts are individually below threshold.

**SWS CM CV (-\$1.6M)** – Increased staffing levels for maintenance activities were required to keep W&SU (-\$0.9M), and EU (-\$0.5M) operational; the result is a negative CV. These systems have degraded across the site due to age. W&SU and EU are a part of the Enhanced Maintenance Program, and have compliance issues that have increased the cost to the program. Costs associated with system degradation have caused W&SU and EU to be significantly divergent from the baseline. Additional SWS variances exist in Waste Sampling and Characterization Facility Analytical Services (Readiness to Serve) (+\$0.1M); Work Management (-\$0.1M); Condition Assessment Surveys (+\$0.1M); and Maintenance Management Program (-\$0.2M). Variances in other Site Wide Services accounts total (-\$0.1M) and are individually below threshold.

## **PW Contract-to-Date (CTD) SV (-\$2.4M)**

**ORP-14 CTD SV (+\$2.0M)** – The Project L-780, *200E 13.8kV Electrical Distribution System Modifications*, positive SV is due to performing procurement and construction activities ahead of schedule.

**RL-40 CTD SV (-\$3.5M)** – The Project L-777, *Overlay Rt. 4S, 618-10 Waste Site to HR Rd*, CTD SV is due to design delays awaiting results of the Roads Master Plan. Final results of the Master Plan recommended chip seal in lieu of 2 inch asphalt overlay resulting in a

significant cost savings (-\$0.9M); and Project L-775, *Overlay Rt. 4S, Canton Ave to Y Barricade*, negative SV is due to design delays awaiting results of the Roads Master Plan. Final results of the Master Plan recommended chip seal in lieu of 2 inch asphalt overlay resulting in a significant cost savings (-\$0.6M). Several other RL-40 accounts have CTD variances, which collectively total (-\$2.0M), but are individually within threshold.

**RL-41 CTD SV (-\$0.9M)** – The White Bluffs Bank negative SV is primarily due to a delay in construction because of the loss of the sub-tier masonry contractor. A new masonry contractor is now on site. It is anticipated that this variance is recoverable by fiscal year end.

**PW CTD CV (-\$41.7M)** – Variances exist in RL-20, RL-44, and RL-100 that total -\$0.7M, which individually are below threshold. Key drivers to the remaining CTD CV in other areas are as follows:

**ORP-14 CTD CV (+\$1.8M)** – The Project L-858, *200E 13.8kV Electrical Distribution Design & Base Service Load Reconfiguration*, cost variance (+\$1.2M) is due to early completion of preliminary conceptual design activities. High quality conceptual design allowed for an abbreviated version of Definitive & Final Design, leading to early award of the Engineering Design Contract. Ecological and cultural reviews required less effort than planned because the construction was in a previously disturbed area, and fell under the Tank Farms Environmental Impact Statement. In addition, the construction contractor's bid was lower than planned. Variances exist in the remaining ORP-14 accounts that total +\$0.6M, but are individually below threshold.

**RL-40 CTD CV (-\$4.8M)** – The negative variance includes Project L-525, *24in Line Replacement from 2901Y to 200E*, CTD CV due to cost savings from utilization of internal engineering resources for design production, performing site clearing work for less than planned, and a fixed price construction contract awarded for less than planned. (+\$0.8M); Project L-840, *24in Line Replacement from 2901Y to 200W*, CTD cost variance is due to cost savings from utilization of internal engineering resources for design production, performing site clearing work for less than planned, and fixed-price construction contract awarded for less than planned (+\$0.9M). Also included are previously reported variances from several prior year Infrastructure Reliability Projects. Those projects include: Project L-449, *Mortar Line 12-in Water Line – Baltimore* (+\$0.9M); Project L-399, *T-Plant Potable & Raw Water Line* (+\$1.5M); Project L-677, *200E/W Raw Water Modifications* (+\$0.8M); Project L-311, *200W Raw Water Reservoir Refurbish* (+\$4.0M); Project L-691, *Construct Sewer Lagoon in 200W* (-\$3.0M); Project L-506, *Upgrade RTUs & SLAN – CE* (-\$1.4M); Project L-683, *251W Facility Mods for Dispatch Center* (-\$1.5M); Project L-742, *Rt3/Rt4S Turn Lane & Rt. 4S Turn-Outs* (+\$0.5M); Project L-753, *Maintenance Shelters for*



*Crane & Rigging* (+\$1.1M); *Studies, Estimates, & Planning* (-\$0.7M); *Reliability Project Spares Inventory Change* (-\$2.2M); *Project ET-51, HLAN Network Upgrade - Phase 2* (-\$1.1M); *Project L-712, CCCF and Communications Upgrades* (+\$0.7M); *Project L-713, Records Storage Facility* (-\$2.2M); and *Project ET60, Enterprise Voiceover Internet Protocol (VoIP) Solution, Implementation* (-\$2.5M).

Variances totaling (-\$1.3M) exist in other RL-40 projects, which are individually below threshold.

**RL-41 CTD CV (+\$0.8M)** – The B Reactor CTD CV results from a labor underrun due to an employee on short-term disability.

**SWS CTD CV (-\$38.8M)** Variances included:

**EU** – Electrical Services is significantly divergent from the baseline. The CTD variance (-\$19.3M) is primarily due to repairs relating to an aging infrastructure and upgraded staffing requirements. In addition, more material procurements were made due to new requirements that were not included in the baseline. These new requirements included the disposal of Power/Telecommunications lines to the Environmental Restoration Disposal Facility, a trailer mounted load center, bushings to replace the A-9 Transformer (needed for an unplanned outage), spare parts from a vendor who went out of business, an infrared camera, and an analyzer. In addition, the baseline was not adequate for a number of maintenance items that needed to be replaced due to the aging life of the infrastructure on the Hanford site. An Enhanced Maintenance Program has been established to better predict future system failures and Predictive Maintenance is replacing the Preventative Maintenance methodology. Expenditures will remain within approved funding and IIP scope.

**Water & Sewer Utilities** – W&SU is significantly divergent from the baseline. The CTD variance (-\$25.8M) is principally due to extensive infrastructure repairs and implementation of the Preventive Maintenance Program. Also, staffing levels are currently higher than the baseline due to the maintenance activities required to maintain the water and sewer distribution system. The system has degraded across the site due to age. W&SU is also part of the Enhanced Maintenance Program, and has compliance issues that have increased the cost to the program. Expenditures will remain within approved funding and IIP scope.

Other significant SWS CTD variances related to being divergent from the baseline are tied to the *Waste Sampling and Characterization Facility* (+\$3.4M); *Roads & Grounds* (+\$2.5M); *Biological Services* (-\$0.9M); *Sanitary Waste Management and Disposal* (+\$1.0M); *Laundry Services* (-\$0.6M); *Traffic Management* (+\$1.3M); *Site Infrastructure*



and Logistics Program Management (-\$1.5M); Public Works Program Planning Management, and Administration (-\$1.0M); Work Management (-\$2.6M); Land and Facilities Management (+\$4.3M); NEPA Natural Gas Pipeline (+\$0.6M); and SWS Studies, Estimates, & Planning (-\$0.5M).

Variances totaling less than (+\$0.3M) exist in other SWS areas which are individually below threshold.

# MISSION SUPPORT ALLIANCE

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## Site Services & Interface Management

P.K. Brockman, Vice President

### Monthly Performance Report

May 2016



*Excavation reveals damages to septic system*



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## INTRODUCTION

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The Mission Support Alliance, LLC (MSA) Site Services & Interface Management (SS&IM) function provides numerous services to support a broad base of customers performing their respective Hanford Site missions. SS&IM provides operations, support, and maintenance services within a culture of safety, customer service, and fiscal responsibility. SS&IM services include: Interface Management/Customer Service, Crane & Rigging (C&R), Fleet Services, Motor Carrier Services, and Maintenance Services. SS&IM's goal is to provide effective and timely services that are centered on customer needs in support of the Hanford environmental cleanup objectives.

## KEY ACCOMPLISHMENTS

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**Removal of Cement-Lined Piping at 200 West (W) Area** – On May 20 and 21, 2016, supporting new water line replacement activities in the 200W Area, Pipefitters, Crane Operators, Riggers, Teamsters, and Pest Control personnel worked together to remove cement-lined piping and debris from the 2901Y and 1901Y structures. This work scope, done so that new lines could be installed, required asbestos abatement and the removal of several rattlesnakes.



*Removal of Cement-Lined Piping at 200W*

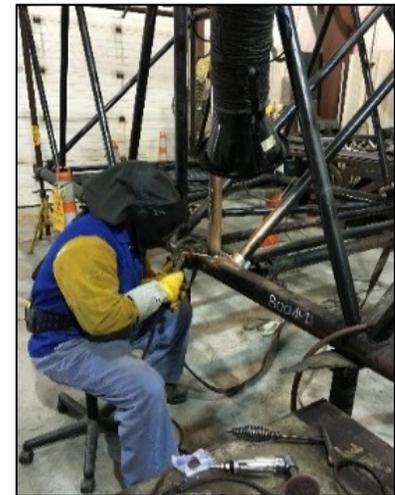
**Leaking Water Pipe at 182-B Facility at 200W** – On May 27, 2016, Maintenance Services completed urgent repairs to a leaking water pipe in the 182B facility. The repair required installation and welding of a metal plate on the inside and outside of the pipe to stop the leak. This activity was a high priority task for MSA Water Utilities. It was important that the 182B facility be placed back into operation to ensure that more than one source of water supply would be available for the Hanford Site.

**Support on “Stop Work” Concerns** – In May, Interface Management coordinated with the Volpentest Hazardous Materials Management and Emergency Response (HAMMER) Training staff in responding to questions from Washington River Protection Solutions (WRPS) regarding MSA's recent “Stop Work” order. The Stop Work was called after workers expressed concerns about being adequately trained in using Powered Air Purifying Respirators (PAPRs). HAMMER Training created a brief

training video with additional directions on using PAPRs. The training video was posted online and a link to the video was made available via MSA's Training website. WRPS was also provided with information on how Site employees could access the training video/course and document completion by signing a Course Completion Roster.

## **Lattice Boom for Plutonium Finishing Plant (PFP)**

**Demolition** – Fleet Services Heavy Equipment Mechanics inspected and repaired a Link Belt Lattice Boom crawler crane that will be used during demolition activities at the PFP. Mechanics replaced nine lattices, which were found to be defective, ensuring that the crane will be available for PFP's use.



*Crane lattices replaced*

**Septic System 2607-E6 at 200 East** – On May 20, 2016, Maintenance Services conducted excavation activities to determine required repairs for sanitary septic system in the 2607-E6 Area. They discovered a sewage line failure from a fractured union collar on a check valve. Required repairs and backfilling activities were completed during that same evening.

This was a high priority activity completed for MSA Water and Sewer Utilities.



*Septic system excavation*

**Service Catalog Enhancements** – Various Service Catalog forms used for ordering cell phones, tablets, and accessories were converted to a single generic request form as the vendor contracts for cellular devices were evaluated and transitioned from Lockheed Martin to MSA. Multiple forms were modified in support of the Information Technology contract transition. A new form was implemented for Network and Computing Services, to include the following service types: Network Services, Desktop Management, Enterprise Storage & Web Hosting, and Unified Communications. For



Cellular and Mobile Devices, the individual forms to be used for each company/contractor were replaced with one generic form.

## LOOK AHEAD

**Heating Ventilation and Air Conditioning (HVAC) Replacements at 200 East Area –** On May 13, 2016, Maintenance Services’ Refrigeration Equipment Services organization, with support from MSA Crane & Rigging and Motor Carrier Services, began a project to replace all HVAC units at mobile office (MO) 234. This is a high priority project required to address a long-standing Safety Logbook item at the facility.

## MAJOR ISSUES

None to report.

## SAFETY PERFORMANCE

During the month of May, there was one Occupational Safety and Health Administration (OSHA) Recordable injury involving an employee whose finger was abraded with a rotating grinder. There were two additional minor first aid cases reported: an employee scraped an arm while lowering an object to the ground, and another employee suffered a scraped arm when struck by a hose fitting.

## BASELINE PERFORMANCE

Table SS&IM-1. Site Services & Interface Management Cost/Schedule Performance (dollars in millions).

Fund Type	May 2016					Contract-to-Date				
	BCWS	BCWP	ACWP	SV	CV	BCWS	BCWP	ACWP	SV	CV
Site-wide Services	\$0.2	\$0.2	\$0.3	\$0.0	(\$0.1)	\$33.6	\$33.6	\$36.6	\$0.0	(\$3.0)
<b>Subtotal</b>	<b>\$0.2</b>	<b>\$0.2</b>	<b>\$0.3</b>	<b>\$0.0</b>	<b>(\$0.1)</b>	<b>\$33.6</b>	<b>\$33.6</b>	<b>\$36.6</b>	<b>\$0.0</b>	<b>(\$3.0)</b>

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

CV = Cost Variance  
 CTD = Contract-to-Date  
 SV = Schedule Variance

## BASELINE PERFORMANCE VARIANCE

**Current Month Cost Variance (CV) (-\$0.1M)** – The unfavorable current month variance is primarily due to the approved Integrated Investment Portfolio (IIP) funding and work scope occurring at a different level of support than the contract baseline. Expenditures will remain in accordance with approved funding and IIP scope.



**Contract-to-Date CV (-\$3.0M)** – The Contract-to-Date variance is due to the differences between the contract baseline and the approved and funded IIP of items for MSA FY 2013 – FY 2016 work scope. These items include increased support required for Interface Management, and additional support from others (e.g., Safety Staff, Environmental Personnel, etc.) in the Project Management Account.

# MISSION SUPPORT ALLIANCE

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# Training & Conduct of Operations

Steve Metzger, Vice President

## Monthly Performance Report

May 2016



*Participants in the 11<sup>th</sup> Annual Fire Ops 101 Training*



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## INTRODUCTION

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The Mission Support Alliance LLC (MSA) Training and Conduct of Operations (T&CO) organization is responsible for the management of MSA training activities, programmatic implementation of the Conduct of Operations (CONOPS) principles, and management of the Volpentest Hazardous Materials Management and Emergency Response (HAMMER) Federal Training Center.

The MSA Training function is responsible for implementing a training management system to meet the technical, organizational, and professional development training requirements of personnel and also meet training related regulations and directives specified in the Mission Support Contract with the U.S. Department of Energy (DOE). CONOPS evaluates MSA organization processes and procedures for appropriate implementation of DOE Order 422.1, *Conduct of Operations* (CONOPS) elements and requirements. This function also assesses and verifies implementation of CONOPS at MSA-managed projects and facilities. HAMMER and Hanford Training provide facilities, training curriculum and training delivery services to Federal, contractor, and sub-contractor employees in support of the Hanford Site, Pacific Northwest National Laboratory (PNNL) and other DOE missions. The organization provides efficient, performance-based training programs and maintains HAMMER in a “ready-to-serve” capacity as the primary training facility for the Hanford Site.

Additionally, HAMMER and Hanford Training provide national and regional assets and services to other local, state and national needs in areas such as disaster recovery, emergency response, transportation, fire protection, law enforcement and military readiness.

## KEY ACCOMPLISHMENTS

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**Annual Fire Ops 101 Training** – The International Association of Fire Fighters held their annual Fire Ops 101 class at HAMMER May 5-6, 2016. This is the eleventh year the event has been held at HAMMER. The training drew 32 participants from all over the Northwest, including local city officials, state representatives, and media personnel. From the Hanford Site, participants included the DOE Richland Operations Office (RL) Assistant Manager for Mission Support, Joe Franco, MSA President Bill Johnson, and MSA Chief Operations Officer Bob Wilkinson.

**HAMMER Visit by, Assistant Secretary, Office of Electricity & Energy Reliability** – On May 23, 2016 the PNNL hosted Patricia Hoffman, Assistant Secretary, DOE Office of Electricity & Energy Reliability (OE-1), for a tour of HAMMER. Hoffman met with HAMMER staff supporting OE, and expressed her gratitude for the excellent work



HAMMER has done over the past several years assisting in energy emergency response and training.

**Record Number Student-Days at HAMMER** – HAMMER provided 5,246 student-days of training in May which is the second month in FY 2016 that has topped the 5,000 mark. By comparison, in FY 2015, student-days only reach 5,000 once. The previous three years did not see a single month with student-days over 5,000. In addition, 359 class sessions were offered during the month which is the highest number in the past five years.

**Mask Fit Conducts Top 1,000 Fit Tests** – For the fourth month in a row, HAMMER’s Mask Fit technicians conducted over 1,000 fit tests for Hanford Site workers. To date this fiscal year, 6,940 mask fit tests have been conducted, which is more tests than were conducted in all of FY 2013 and FY 2014. In addition to fit testing more workers, the average number of fit tests per worker is also on the rise. The average number of fit tests per worker in FY 2016 is 2.8 compared to 2.0 in FY 2014. These significant achievements are reflective of the dedication, hard work, efficiency, and customer service provided by the Mask Fit Team.

**Training Program Evaluations** – MSA Training is currently conducting program evaluations in an effort to determine the areas of opportunity within training programs/products across the company. Training staff have prepared a questionnaire that will collect needed information to establish a baseline and ensure Training meets the needs of its customers. Approximately 50 organizations within MSA have been identified to potentially complete the questionnaire.

Evaluation meetings with Hanford Fire Department (HFD) Fire Systems Maintenance, HFD Testing and Services, Radiological Assistance Program, and Electrical Utilities have already taken place. MSA Training is currently working with these organizations to update and enhance training programs and products.

**MSA Training Strategic Planning** – MSA Training and HAMMER staff spent two days together in an effort to establish roles and responsibilities in the support of Hanford contractor training. The two-day forum was facilitated by Take Action, Inc., and included a look at the history of training at the Hanford Site, the current training needs, and the future collaboration of HAMMER, MSA Training, and MSA Conduct of Operations.

## LOOK AHEAD

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**MSA Conduct of Operations** - Testing was completed on the new Site-wide Required Reading Application. This effort, led by MSA, will integrate the required reading



programs for MSA, CH2M HILL Plateau Remediation Company (CHPRC), Washington River Protection Solutions LLC (WRPS), and Wastren Advantage, Inc. with a single electronic management system. The application is expected to go live in June 2016.

**MSA Training to Use P6 Scheduling** – In May, MSA Training began developing a P6 schedule that will help the organization to identify and track MSA Training procedures and products. The schedule will assist with establishing priorities and to ensure customer needs are met in a timely manner. Implementation is targeted for July 2016.

## MAJOR ISSUES

None to report.

## SAFETY PERFORMANCE

No Occupational Safety and Health Administration Recordable or First Aid injury cases were reported for T&CO in May 2016.

## BASELINE PERFORMANCE

Table T&CO-1. T&CO Cost/Schedule Performance (dollars in millions).

Fund Type	April 2016					Contract to Date				
	BCWS	BCWP	ACWP	SV	CV	BCWS	BCWP	ACWP	SV	CV
RL-0040 - Nuc. Fac. D&D - Remainder Hanf	\$0.2	\$0.2	\$0.5	\$0.0	(\$0.3)	\$42.7	\$42.7	\$48.9	\$0.0	(\$6.2)
Site-Wide Services	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.2	\$0.2	\$0.2	\$0.0	\$0.0
<b>Subtotal</b>	<b>\$0.2</b>	<b>\$0.2</b>	<b>\$0.5</b>	<b>\$0.0</b>	<b>(\$0.3)</b>	<b>\$42.9</b>	<b>\$42.9</b>	<b>\$49.1</b>	<b>\$0.0</b>	<b>(\$6.2)</b>

ACWP = Actual Cost of Work Performed

BCWP = Budgeted Cost of Work Performed

BCWS = Budgeted Cost of Work Scheduled

CV = Cost Variance

CTD = Contract-to-Date

SV = Schedule Variance

## BASELINE PERFORMANCE VARIANCE

### RL-40 – (WBS 3001.01.04)

**Current Month Cost Variance (CV) (-\$0.3M)** – See explanation below.

**Contract-to-Date CV (-\$6.2M)** – The unfavorable contract-to-date variance is largely due to the assumption that less DOE Office of Environmental Management (EM) funding would be required because HAMMER could self-fund itself by performing enough services for non-Hanford entities. This assumption has been proven incorrect. As a result of this inaccurate assumption, the EM budget will remain lower than the EM funds authorized. Because of this divergent situation, the contract-to-date cost variance



will continue to increase. Services delivered at HAMMER will not be adversely affected because the services are executed consistent with the approved Integrated Investment Profile scope. No other potential contributing performance issues were identified.

**Site Wide Services (SWS) – (WBS 3001.04.10.08)**

**Current Month CV (\$0.0M)** – Current CV is within threshold.

**Contract-to-Date CV (\$0.0M)** – Contract-to-Date CV is within threshold.