

MISSION SUPPORT ALLIANCE

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



Monthly Performance Report June 2016

W. K. Johnson
President

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



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

TERMS

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
PFP	Plutonium Finishing Plant
PMB	Performance Measurement Baseline
PMTO	Portfolio Management Task Order
PNNL	Pacific Northwest National Laboratory
PO	Presidents Office
POSP	Parent Organization Support Plan
PPE	Personal Protection Equipment
PTA	Patrol Training Academy
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 June 2016.

1.1 KEY ACCOMPLISHMENTS

MSA Receives VPP Letter of Approval – MSA received an official letter of approval from Matthew Moury, Associate Under-Secretary for Environment, Health, Safety and Security for Mission Support Services (MSS) to continue in Department of Energy (DOE) Voluntary Protection Program (VPP) as a STAR participant. This endorsement stemmed from a recommendation provided by the DOE-HQ VPP Team who performed an assessment on MSS from February 23 – March 4, 2016. A STAR Certificate of Achievement and DOE-VPP flag will be provided to RL for future presentation to MSA/MSS employees.

Synergy Network – June 13, 2016, marked the launch of the first MSA Women’s Resource Network, now known as the “Synergy Network”. The kick-off event, hosted by MSA Staffing and Diversity department was attended by more than 80 employees. The Network is designed to promote diversity and inclusivity of all employees - men and women - while enhancing the MSA experience for female employees. The kick-off featured presentations on the key components of the Network, including personal and professional growth, resources and support, networking opportunities, community outreach and partnerships with outside entities. Future educational events are currently in the works.

Washington State Department of Health (WDOH) Meeting on Data Verification and Validation – WDOH met with MSA Environmental Integration Services (EIS) and MSA Public Safety & Resource Protection (PSRP) staff to discuss data verification and validation compliance with Hanford Site radiological air sampling data. The purpose of this meeting was to provide assurance to the WDOH that MSA is producing high quality and defensible data, using current techniques to ensure air sampling data is properly verified and validated, and providing “cradle to grave,” demonstrations of an air sample by using the two databases housing this data (the Automated Bar Coding of All Hanford Samples and the Environmental Release Summary databases). In 2014, the

WDOH began this on-going inspection of the major and minor emission units with the potential-to-emit radionuclides into the air. The meeting marks the final stages of this on-going inspection.

White Bluffs Bank Rehabilitation Project – Masonry reconstruction of the White Bluffs Bank has begun. For the work to begin, the structure has to be encapsulated and a Heating, ventilation, and air conditioning (HVAC) unit installed to keep the enclosure temperature controlled and meet the mortar and grout construction specification requirements. Many components of the building have had to be meticulously deconstructed: roof, trusses, interior walls, floor, joists, and existing masonry walls that were deemed unrepairable. However, much of the original materials were saved to be used during reconstruction, and the original millwork, doors, and windows will be restored for reinstallation. Additionally, a cast iron surround for the vault door is being fabricated for installation. An exact match found in a New York state bank will be used to replicate the original.



White Bluffs Bank encapsulated for masonry reconstruction

Interior Monitoring of Cocooned Reactors – MSA Long-Term Stewardship (LTS) obtained approval from RL, the Environmental Protection Agency, and the State of Washington, Department of Ecology (Ecology) to eliminate the interior monitoring of temperature and moisture at the six cocooned reactors managed by the LTS program. Additionally, they approved the LTS recommendation to modify the inspection schedule from a 5-year interval to a 10-year interval. MSA LTS prepared a cost savings profile for this achievement that documents a nearly \$5 million dollar cost avoidance in lifecycle inspections for the reactors.

2607-E6 Lift Station Repair – With the assistance of MSA Maintenance Services personnel, MSA Water & Sewer Utilities (W&SU) staff retrofitted the 2607-E6 sewer lift station with two new pumps and a set of mechanical floats. Due to the aging sewer

infrastructure across the site, this was a critical project to ensure sewer collection services would remain uninterrupted for various facilities in the 200 East (200E) area. MSA will continue to monitor, maintain, and repair the sanitary sewer systems at Hanford in order to provide the necessary wastewater services supporting cleanup missions of the Hanford Site.



Pumps and mechanical floats installed at Sewer Lift Station

283 West (283W) Variable Frequency Drive Acceptance Testing – W&SU is performing several critical infrastructure upgrades at the 283W Water Treatment Facility in order to improve the system’s reliability. As part of these upgrades, W&SU engineers and operators performed acceptance testing on two variable frequency drive units installed on the flocculator motors. This is a major upgrade to the plant, allowing operators to adjust the speed of paddles in the settling basin, which is necessary for the production of potable water. Two additional motors remain to be installed to complete the project.

Electrical Lines Rebuilt – Because high-voltage electrical circuits from the A-8 transformer substation to the 200E Area needed upgrading, MSA Electrical Utilities (EU), as part of Project L-780, *200E 13.8kV ED Sys Mods*, built a more direct route for the electrical lines feeding the Central Plateau. These four newly rebuilt circuits are streamlined feeds providing greater capacity and reliability while reducing the physical footprint. In parallel with these upgrades, EU will install protective equipment such as lightning arrestors to mitigate wildland fires, as well as other protective devices to minimize downtime to customers. As new projects start, EU will continue to enhance Tank Farms and Waste Treatment Plant operations capacity.



New electrical lines streamline feeds to the Central Plateau



Inter-Contractor Safeguards and Security Program – MSA completed support service agreements for CH2M HILL Plateau Remediation Company (CHPRC) and Pacific Northwest National Laboratory (PNNL) for implementation of effective Safeguards and Security programs.

MSA Implements New Alarm Equipment – Information Management Infrastructure Engineers implemented and activated the Low Voltage, High Voltage and Fuse alarms in the Telecommunications remote monitoring equipment at five telephone nodes. They are the alarms for the rectifiers in their respective nodes.

Student Numbers Remain High Through June – Student numbers at the Volpentest Hazardous Materials Management and Emergency Response Training and Education Center (HAMMER) remained high through June. HAMMER provided 4,491 student-days of training during the month. While this represents a slight decline from the record numbers in March and May 2016, it is a nine percent increase over June 2015, and well above the fiscal year (FY) 2014 and FY 2015 averages. HAMMER does not foresee a significant decline in student numbers in the near future because the facility is booked to near capacity through the summer and into the fall.

MSA Field Work Supervisor Program – A significant revision to update the MSA Field Work Supervisor training and qualification program was completed by the MSA Central Training Organization. This revision to the program addressed many identified areas for improvement, and also supports the initiative of accelerated qualification by field personnel.

Websites Added to Blacklist – In June, MSA Unclassified Cyber Security blocked 74 websites from access by Hanford Local Area Network (HLAN) users to prevent malware and viruses from getting onto the HLAN.

Key Tri-Party Agreement (TPA) Dispute Extension Signed – MSA EIS facilitated a key TPA Dispute Extension agreement between Ecology and the DOE Office of River Protection (ORP). The extension, covering a dispute on tank farm barriers, allows the parties to continue discussions at the local Interagency Management Integration Team level, as opposed to elevating it to the director level.

Backwash Pump Project at 283W – In June, MSA Maintenance Services resumed work on activities associated with the Backwash Pump Project at the 283W facility for Water Utilities. The work included installation of required shoring for scaffolding systems and trolleys, and mock-up of the backwash pump into its final location so that piping dimensions could be taken for planned fabrication activities. On June 17, 2016, the new 14-inch discharge piping for backwash pump #2 was successfully installed. Installation

of the discharge piping will allow the plant to backwash filters after sampling is complete. On June 18, 2016, cement finishers installed the form and poured concrete for the base/foundation that will support the backwash pump in the 283W facility. On June 24, 2016, crews set the new backwash pump at 283W discharge pump #2, and installed suction piping for the pump. Upgrading the 283W Water Treatment Facility will help ensure ongoing production of safe and compliant drinking water for the Hanford Site.



New backwash pump set in place and discharge piping installed

Hanford FY 2016 Field Exercise – On June 16, 2016, MSA Emergency Management Program personnel conducted the Hanford FY2016 Annual Field Exercise and Protective Action Drill for 200 East Area. The exercise was used to evaluate Hanford Emergency Response Organization’s response to an emergency at the Tank Farm. Offsite emergency agencies from Washington and Oregon states, (including Benton, Franklin and Grant Counties) participated in conjunction with Lourdes Medical Center, Pasco, WA.

10 CFR 850 Beryllium Public Hearing – MSA External Affairs staff supported RL with the 10 CFR 850 Beryllium Public Hearing by securing the facility, handling registration and coordinating with members of the public. This hearing addressed the amendments of the Chronic Beryllium Disease Prevention Program that the DOE is proposing.

Road Striping Campaign – On June 29, 2016, MSA kicked off its annual road striping campaign. As part of this year's campaign, an environmentally sustainable water-based road striping paint is being used for all road striping and stenciling work done at the Hanford Site. This effort required the road striper to be thoroughly cleaned of all previously used oil-based materials. Road maintenance is essential to providing safe driving conditions on the Hanford site.

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	\$6,259.4	\$1,608.2
RL-0020	Safeguards & Security	\$67,611.6	\$63,793.3	\$47,923.6	\$15,869.7
RL-0040	Reliability Projects/HAMMER/ Inventory	\$30,320.2	\$29,793.3	\$9,622.2	\$20,218.0
RL-0041	B Reactor	\$6,739.7	\$29,840.2	\$1,709.4	\$5,075.6
HSPD (RL11,12,13,30)	Homeland Security Presidential Directive 12	\$2,900.0	\$6,785.0	\$871.2	\$2,028.8
SWS	Site-Wide Services	\$190,396.5	\$176,199.5	\$131,015.1	\$48,184.4
Total		\$305,778.7	\$287,409.8	\$197,401.0	\$90,008.8

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 540 dated July 11, 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 three injuries classified as “recordable” during the month of June. All three of the cases were also classified as Days Away, Restricted or Transferred (DART) injuries. Thus, the fiscal year total recordable case rate (TRC) is 1.08, and the DART rate is 0.79. The TRC rate is nearing the EM goal of 1.1, and the DART rate has exceeded the EM goal of 0.60. MSA is aware that the safety statistics have begun to climb for two consecutive months. A number of measures have been taken to address the increase in injuries and include but are not limited to the following:

- MSA has analyzed injuries year-to-date but has not identified any discernable trends. The only “trend” to speak of is that the injuries are occurring when performing normal, routine, everyday activities, termed as “Walking Through Life” injuries; they are not occurring during high-hazard, complex work evolutions.
- MSA has recently completed the “Walking Through Life” injury campaign which was an initiative in its 2016 Safety Improvement Plan. Safety communications and meeting discussions continue to emphasize this campaign as it was designed to focus on the top causes of injuries.
- MSA has noted that two organizations (Hanford Fire and Safeguards and Security) have experienced the most significant increase. Understanding the physical nature of these functions, MSA is placing some special emphasis on the two organizations by addressing the trends at their respective safety summits. The Fire Department is holding its summit in June, and has developed several actions to address trends. Safeguards and Security will be holding its safety summit in August, where they will do the same.
- MSA’s leadership team has committed to making safety discussions part of their daily routine in the field. They are committed to aggressively communicating not only current performance, but also expectations as the company transitions into a very active time of the year.
- MSA is currently implementing a new hazard analysis process. As part of implementation, craft-specific hazard analyses (CSHAs) are enhanced. The CSHAs are the fundamental hazard analysis document used in everyday, routine activities. The importance of the hazards identified and the mitigation actions needed to minimize those hazards will be emphasized.



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

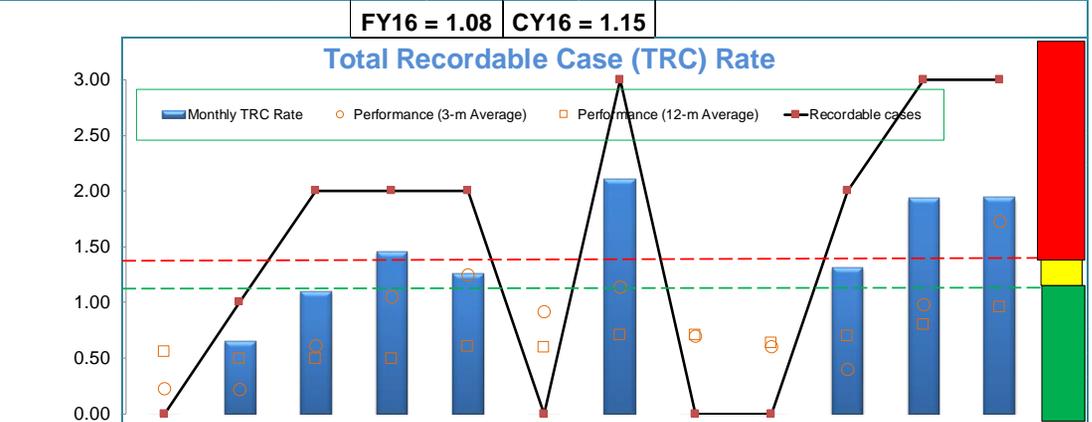
	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16
Monthly Recordable Cases	0	1	2	2	2	0	3	0	0	2	3	3
Monthly TRC Rate	0.00	0.65	1.10	1.45	1.25	0.00	2.11	0.00	0.00	1.31	1.93	1.94
Performance (3-m Average)	0.22	0.22	0.61	1.05	1.25	0.92	1.13	0.70	0.61	0.40	0.98	1.73
Performance (12-m Average)	0.55	0.49	0.49	0.49	0.60	0.60	0.71	0.70	0.63	0.70	0.80	0.95

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:	7/13/2016



	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16
Monthly Recordable Cases	0	1	2	2	2	0	3	0	0	2	3	3
Monthly TRC Rate	0.00	0.65	1.10	1.45	1.25	0.00	2.11	0.00	0.00	1.31	1.93	1.94
Performance (3-m Average)	0.22	0.22	0.61	1.05	1.25	0.92	1.13	0.70	0.61	0.40	0.98	1.73
Performance (12-m Average)	0.55	0.49	0.49	0.49	0.60	0.60	0.71	0.70	0.63	0.70	0.80	0.95

Analysis
During the month of June, there were three injuries classified as 'Recordable' (DART). The injuries were: (1) an employee's knee was forcefully struck by a pressurized hose; (2) an employee strained their back when they accidentally held up a trailer tongue; and, (3) an employee rolled their ankle stepping from one surface to another. Additionally, an injury that occurred in May was reclassified from First Aid to 'Recordable' (DART) when supplemental information became available. The injury was the result of a vehicle accident and affected the whole body.

2016 FYTD TRC Cases: 15
FY2015 TRC Cases: 10

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

- 6 caused by struck by an object, 3 caused by overexertion, 3 by a trip/fall, 1 by foreign object in the eye, 1 by awkward body motion, 1 by a vehicle accident

Action
Injury Prevention Actions:

- MSA continuously reviews and discusses progress on Safety Improvement Plan actions and upcoming requirements. These discussions occur between the senior management team and Employee Zero Accident Council (EZAC) / Integrated Safety Management System Points of Contact and safety representatives.
- Continuation of the "Walking Through Life" safety awareness campaign. June's focus was on "caught between" injuries.

Additional Info
None



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

Objective

To monitor the days away, restricted or transferred (DART) case rate for MSA employees and subcontractors

Measure

The DART rate 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	> 0.75
Cautionary	0.6 - 0.75
Meets EM goal	< 0.6

Performance Data

	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16
Monthly DART Cases	0	0	2	2	1	0	1	0	0	2	2	3
Monthly DART rate	0.00	0.00	1.10	1.45	0.63	0.00	0.70	0.00	0.00	1.31	1.29	1.94
Performance (3-m Average)	0.22	0.00	0.41	0.84	1.04	0.69	0.45	0.23	0.20	0.40	0.78	1.51
Performance (12-m Average)	0.44	0.33	0.38	0.44	0.49	0.49	0.49	0.49	0.42	0.48	0.53	0.69

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 DART rate below 0.6.

Lagging Indicator Description

A lagging indicator is a record of past events. DART rate is a lagging indicator that may show a trend in serious injuries.

Performance Indicator Information

PI Owner:	Lanette Adams
Data Analyst:	Ron Wight
Data Source:	MSMET
PI Basis:	MSC-MP-003, Section 4.0
Date	7/13/2016

FY16 = 0.79 CY16 = 0.83

Days Away, Restricted or Transferred (DART) Case Rate

Analysis

During the month of June, there were three injuries classified as DART. The injuries were: (1) an employee's knee was forcefully struck by a pressurized hose; (2) an employee strained their back when they accidentally held up a trailer tongue; and, (3) an employee rolled their ankle stepping from one surface to another. Additionally, an injury that occurred in May was reclassified from First Aid to DART when supplemental information became available. The injury was the result of a vehicle accident and affected the whole body.

2016 FYTD DART Cases: 11
FY2015 DART Cases: 7

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

- 3 caused by overexertion, 3 by a trip and fall, 3 caused by a 'struck by' incident, 1 by awkward body motion, 1 result of vehicle accident
- 7 different body parts have been affected: whole body, shoulder, hip, back, ankle (2), knee (3), and finger (2)

Action

Injury Prevention Actions:

- MSA continuously reviews and discusses progress on Safety Improvement Plan (SIP) actions and upcoming requirements. These discussions occur between the senior management team and Employee Zero Accident Council (EZAC) / Integrated Safety Management System Points of Contact and safety representatives.
- Continuation of the "Walking Through Life" safety awareness campaign. June's focus was on "caught between" injuries.

Additional Info

None

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

	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16
First Aid Cases	14	5	4	11	2	8	3	6	11	13	12	11
Monthly First Aid Rate	8.96	3.23	2.19	7.97	1.25	5.76	2.11	4.00	5.43	8.51	7.71	7.10
Performance (3 month Average)	6.90	6.39	4.66	4.21	3.54	4.81	2.95	3.94	4.04	5.94	7.05	7.77
Performance (12 month Average)	4.26	4.18	4.11	4.16	3.75	4.01	4.03	4.17	4.47	5.03	5.28	5.30

Specific Goal to Achieve

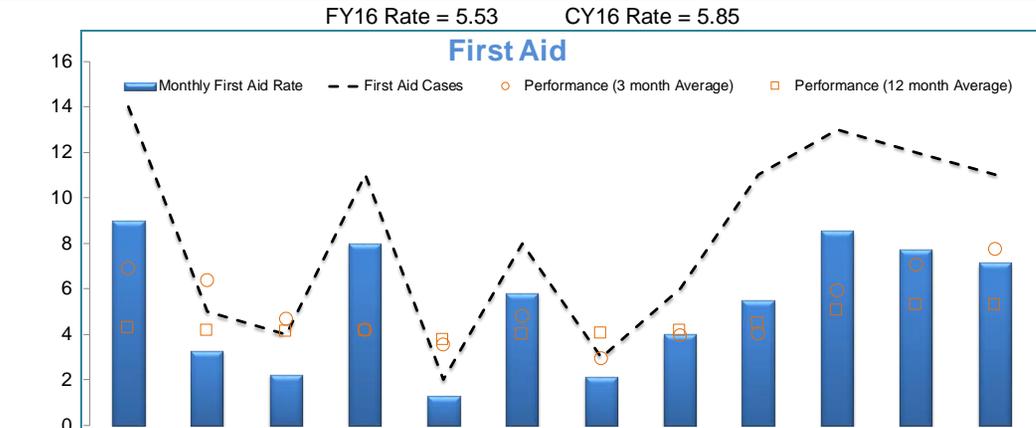
The goal is to "do work safely" and achieve target zero by reducing injuries, accidents and incidents while encouraging reporting of all minor injuries.

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	7/13/2016



Analysis

June concluded with 11 First Aid injury cases which continues to be more than twice the average number of First Aid cases for MSA in a given month. The cases included the following: 5 instances of strains from awkward motion/overexertion; 3 cases of employees injured from being struck by/against an object; and, 3 trip/falls.

FY2016 First Aid Cases: 77
FY2016 First Aid Case Rate: 5.53

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

- 21% by a slip/trip/fall, 38% by contact with/struck by an object, 35% were caused by overexertion.
- 29% leg/foot injuries, 17% head/eye injuries, 38% arm/hand injuries, 9% back injuries.

Action

Injury Prevention Actions:

- MSA continuously reviews and discusses progress on Safety Improvement Plan (SIP) actions and upcoming requirements. These discussions occur between the senior management team and Employee Zero Accident Council (EZAC) / Integrated Safety Management System Points of Contact and safety representatives.
- Continuation of the "Walking Through Life" safety awareness campaign. June's focus was on "caught between" injuries.
- Increased distribution and discussion on safety incidents and Lessons Learned, as applicable, at President's ZAC / EZAC meetings.

Additional Info

None





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

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

CONTRACT PERFORMANCE REPORT										DOLLARS IN Thousands			FORM APPROVED OMB No. 0704-0188	
FORMAT 1 - WORK BREAKDOWN STRUCTURE														
1. Contractor		2. Contract			3. Program			4. Report Period						
a. Name Mission Support Alliance		a. Name Mission Support Contract			a. Name Mission Support Contract			a. From (2016/5/23)						
b. Location (Address and Zip Code) Richland, WA 99352		b. Number RL14728			b. Phase Operations			b. To (2016/6/19)						
c. TYPE CPAF		d. Share Ratio			c. EVMS ACCEPTANCE No X Yes									
5. CONTRACT DATA														
a. QUANTITY N/A	b. NEGOTIATED COST \$3,418,558	c. ESTIMATED COST OF AUTHORIZED UNPRICED WORK \$275	d. TARGET PROFIT/FEE \$209,862	e. TARGET PRICE \$3,628,420	f. ESTIMATED PRICE \$3,738,766	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) <i>Wilkinson, Robert E</i> <i>Johnson, William L</i>			b. TITLE MSC Project Manager						
a. BEST CASE \$3,418,833					c. SIGNATURE <i>[Signature]</i>			d. DATE SIGNED 7/25/16						
b. WORST CASE \$3,705,349														
c. MOST LIKELY \$3,528,904			3,418,833		(110,071)									
8. PERFORMANCE DATA														
Item (1)	Current Period			Variance			Cumulative to Date			At Completion				
	Work Scheduled (2)	Work Performed (3)	Actual Cost Work Performed (4)	Schedule (5)	Cost (6)	Work Scheduled (7)	Work Performed (8)	Actual Cost Work Performed (9)	Schedule (10)	Cost (11)	Budgeted (12)	Estimated (13)	Variance (14)	
a. WORK BREAKDOWN STRUCTURE ELEMENT														
3001.01.01 - Safeguards and Security	3,747	3,747	4,522	0	(776)	390,867	390,867	402,892	0	(12,026)	542,303	556,856	(14,553)	
3001.01.02 - Fire and Emergency Response	1,287	1,287	2,088	0	(801)	136,086	136,086	151,522	(0)	(15,436)	188,038	206,693	(18,655)	
3001.01.03 - Emergency Management	408	408	321	0	87	37,112	37,112	31,160	0	5,953	53,540	47,422	6,118	
3001.01.04 - HAMMER	234	234	454	0	(220)	43,061	43,061	49,486	(0)	(6,425)	51,469	59,513	(8,044)	
3001.01.05 - Emergency Services Management	435	435	111	0	324	6,985	6,985	6,924	(0)	61	12,952	13,918	(966)	
3001.02.01 - Site-Wide Safety Standards	25	25	74	0	(49)	4,614	4,614	5,506	(0)	(892)	5,631	6,755	(1,124)	
3001.02.02 - Environmental Integration	306	306	374	0	(67)	44,889	44,889	40,301	0	4,588	57,225	53,072	4,153	
3001.02.03 - Public Safety & Resource Protection	769	769	634	0	135	48,132	48,132	42,776	0	5,356	78,150	72,449	5,701	
3001.02.04 - Radiological Site Services	0	0	5	(0)	(5)	3,827	3,827	4,766	0	(938)	3,827	4,766	(938)	
3001.02.05 - WSCF Analytical Services	68	68	(10)	0	78	54,453	54,453	50,454	(0)	3,999	57,139	52,883	4,257	
3001.03.01 - IM Project Planning & Controls	287	287	111	0	176	30,211	30,211	27,467	0	2,744	42,123	38,658	3,465	
3001.03.02 - Information Systems	892	892	320	0	572	89,240	89,240	86,477	(0)	2,763	123,287	119,067	4,220	
3001.03.03 - Infrastructure / Cyber Security	239	239	229	0	10	24,990	24,990	28,277	(0)	(3,287)	34,418	37,546	(3,128)	
3001.03.04 - Content & Records Management	542	542	385	0	157	53,715	53,715	48,837	0	4,878	75,181	69,524	5,657	
3001.03.05 - IR/CM Management	24	24	130	0	(106)	3,697	3,697	9,357	0	(5,661)	4,658	10,578	(5,920)	
3001.03.06 - Information Support Services	155	155	91	0	64	12,182	12,182	9,527	0	2,654	18,208	15,303	2,905	
3001.04.01 - Roads and Grounds Services	218	218	254	0	(37)	20,009	20,009	17,498	0	2,511	28,790	27,139	1,651	
3001.04.02 - Biological Services	251	251	278	0	(26)	24,065	24,065	25,005	0	(940)	34,198	35,179	(981)	
3001.04.03 - Electrical Services	456	456	999	0	(542)	49,967	49,967	69,851	0	(19,885)	68,400	89,761	(21,361)	
3001.04.04 - Water/Sewer Services	516	516	1,685	(0)	(1,169)	44,424	44,424	71,350	(0)	(26,927)	65,425	95,499	(30,073)	
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	20	0	(20)	7,974	7,974	9,637	0	(1,662)	7,974	9,728	(1,753)	



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

CONTRACT PERFORMANCE REPORT FORMAT 1 - WORK BREAKDOWN STRUCTURE													DOLLARS IN Thousands			FORM APPROVED OMB No. 0704-0188									
1. Contractor		2. Contract			3. Program			4. Report Period																	
a. Name		a. Name			a. Name			a. From (2016/5/23)																	
b. Location (Address and Zip Code)		b. Number			b. Phase			b. To (2016/6/19)																	
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	44	44	58	0	(14)	6,940	6,940	7,134	0	(194)	8,729	8,967	(238)												
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	230	230	252	0	(23)	31,130	31,130	32,861	0	(1,732)	40,338	42,400	(2,062)												
3001.04.11 - Energy Management	219	219	112	0	107	12,594	12,594	6,725	(0)	5,868	21,836	15,774	6,061												
3001.04.12 - Hanford Historic Buildings Preservation	175	220	458	45	(238)	18,127	17,261	17,026	(867)	234	21,219	20,820	399												
3001.04.13 - Work Management	77	77	169	0	(91)	8,640	8,640	11,298	(0)	(2,658)	11,732	14,725	(2,993)												
3001.04.14 - Land and Facilities Management	445	445	382	0	63	33,010	33,010	28,935	(0)	4,075	49,302	45,320	3,982												
3001.04.15 - Mail & Courier	93	93	49	0	45	7,110	7,110	5,069	(0)	2,041	10,829	8,615	2,214												
3001.04.16 - Property Systems/Acquisitons	422	422	468	0	(46)	37,976	37,976	38,661	0	(684)	54,987	55,721	(734)												
3001.04.17 - General Supplies Inventory	10	10	(110)	0	121	2,145	2,145	1,190	0	955	2,548	1,576	972												
3001.04.18 - Maintenance Management Program Implem	152	152	213	0	(60)	6,273	6,273	6,383	0	(110)	12,364	12,624	(260)												
3001.06.01 - Business Operations	265	265	654	0	(390)	34,560	34,560	37,691	0	(3,130)	45,160	49,029	(3,868)												
3001.06.02 - Human Resources	182	182	171	0	10	16,463	16,463	15,927	(0)	536	23,998	23,607	391												
3001.06.03 - Safety, Health & Quality	967	967	1,211	0	(244)	104,376	104,376	121,990	(0)	(17,614)	141,237	159,473	(18,236)												
3001.06.04 - Miscellaneous Support	605	605	484	0	121	46,330	46,330	35,095	(0)	11,235	69,059	57,311	11,748												
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	442	442	316	0	126	50,742	50,742	46,399	(0)	4,343	68,624	63,992	4,632												
3001.08.01 - Water System	512	1,057	722	545	335	17,801	17,240	8,120	(561)	9,121	25,639	15,392	10,247												
3001.08.02 - Sewer System	7	228	186	221	42	5,738	5,797	9,016	59	(3,219)	6,991	10,152	(3,160)												
3001.08.03 - Electrical System	672	581	331	(91)	250	12,592	13,704	14,559	1,112	(855)	17,356	18,162	(806)												
3001.08.04 - Roads and Grounds	(1,471)	1	32	1,472	(31)	3,729	3,708	3,148	(21)	560	12,852	12,255	597												
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	69	69	149	0	(79)	3,665	3,665	5,524	(0)	(1,859)	6,441	8,424	(1,983)												
3001.08.07 - Reliability Project Spare Parts Inventory	0	0	0	0	0	86	86	2,298	0	(2,212)	86	2,671	(2,586)												
3001.08.08 - Network & Telecommunications System	104	103	87	(1)	16	9,802	9,873	14,644	71	(4,771)	9,890	14,696	(4,806)												
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	94,311	94,311	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)													15,081	17,272	19,468	2,191	(2,196)	1,634,226	1,634,019	1,693,665	(207)	(59,646)	2,347,130	2,417,991	(70,861)



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

CONTRACT PERFORMANCE REPORT FORMAT 1 - WORK BREAKDOWN STRUCTURE												DOLLARS IN Thousands		FORM APPROVED OMB No. 0704-0188	
1. Contractor		2. Contract			3. Program			4. Report Period							
a. Name Mission Support Alliance		a. Name Mission Support Contract			a. Name Mission Support Contract			a. From (2016/5/23)							
b. Location (Address and Zip Code) Richland, WA 99352		b. Number RL14728			b. Phase Operations			b. To (2016/6/19)							
c. TYPE CPAF			d. Share Ratio		c. EVMS ACCEPTANCE No X Yes										
Item (1)	Current Period					Cumulative to Date					At Completion				
	Budgeted Cost		Actual Cost	Variance		Budgeted Cost		Actual Cost	Variance		Budgeted	Estimated	Variance		
	Work Scheduled (2)	Work Performed (3)	Work Performed (4)	Schedule (5)	Cost (6)	Work Scheduled (7)	Work Performed (8)	Work Performed (9)	Schedule (10)	Cost (11)	(12)	(13)	(14)		
a2. WORK BREAKDOWN STRUCTURE ELEMENT															
3001.01.04 - HAMMER	847	847	1,277	0	(430)	95,729	95,729	94,251	0	1,478	121,387	121,631	(243)		
3001.02.04 - Radiological Site Services	932	932	676	(0)	256	50,501	50,501	35,867	(0)	14,634	87,635	72,206	15,428		
3001.02.05 - WSCF Analytical Services	932	932	0	(0)	932	77,814	77,814	53,176	0	24,638	113,653	85,486	28,167		
3001.03.02 - Information Systems	201	201	147	0	54	989	989	906	0	83	1,710	1,542	167		
3001.03.04 - Content & Records Management	60	60	59	0	0	305	305	275	0	31	526	532	(6)		
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	2,004	2,004	1,474	0	530	2,485	2,485	4,027	0	(1,542)	10,101	10,267	(166)		
3001.04.05 - Facility Services	509	509	805	0	(296)	44,345	44,345	48,545	0	(4,200)	64,312	69,267	(4,955)		
3001.04.06 - Transportation	139	139	307	0	(168)	19,124	19,124	30,835	0	(11,712)	24,570	38,243	(13,672)		
3001.04.07 - Fleet Services	566	566	1,001	0	(436)	80,159	80,159	93,945	0	(13,786)	102,971	118,425	(15,455)		
3001.04.08 - Crane and Rigging	699	699	928	0	(229)	77,632	77,632	81,771	0	(4,139)	106,027	111,045	(5,018)		
3001.04.10 - Technical Services	0	0	97	0	(97)	0	0	617	0	(617)	0	1,408	(1,408)		
3001.04.13 - Work Management	0	0	47	0	(47)	595	595	2,527	0	(1,932)	595	2,693	(2,098)		
3001.04.14 - Land and Facilities Management	524	524	510	0	13	44,459	44,459	42,533	(0)	1,925	65,481	63,700	1,781		
3001.04.15 - Mail & Courier	15	15	17	0	(2)	972	972	1,010	0	(38)	1,590	1,637	(48)		
3001.06.01 - Business Operations	678	678	692	(0)	(14)	74,737	74,737	78,910	(0)	(4,173)	101,571	108,619	(7,048)		
3001.06.02 - Human Resources	129	129	266	0	(137)	15,141	15,141	19,542	(0)	(4,401)	20,209	25,254	(5,045)		
3001.06.03 - Safety, Health & Quality	139	139	157	(0)	(18)	11,536	11,536	8,974	(0)	2,561	17,156	14,692	2,464		
3001.06.04 - Miscellaneous Support	64	64	106	(0)	(43)	8,731	8,731	10,635	(0)	(1,904)	11,298	13,454	(2,156)		
3001.06.05 - Presidents Office (G&A nonPMB)	274	274	234	0	40	21,409	21,409	17,348	(0)	4,061	32,001	27,860	4,141		
3001.06.06 - Strategy	19	19	14	0	6	2,675	2,675	2,328	(0)	347	3,456	3,102	353		
3001.A1.01 - Transfer - CHPRC	5,262	5,262	4,416	0	846	548,620	548,620	484,102	0	64,517	750,618	681,468	69,150		
3001.A1.02 - Transfer - WRPS	1,074	1,074	3,949	0	(2,876)	111,709	111,709	161,662	0	(49,954)	152,357	209,400	(57,043)		
3001.A1.03 - Transfers - FH Closeout	0	0	3	0	(2)	174	174	196	0	(23)	184	214	(31)		
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	12	0	(12)	1,188	1,188	2,730	0	(1,543)	1,188	2,789	(1,602)		
3001.A2.02 - Non Transfer - AMH	11	11	0	0	11	1,497	1,497	954	(0)	543	1,919	1,334	585		
3001.A2.03 - Non Transfer - ATL	15	15	0	0	15	982	982	702	0	280	1,541	1,215	325		
3001.A2.04 - Non-Transfer - WCH	293	293	234	0	59	37,967	37,967	40,966	0	(2,999)	48,597	51,305	(2,709)		
3001.A2.05 - Non-Transfers - HPM	0	0	44	0	(44)	3	3	1,410	0	(1,406)	3	1,571	(1,568)		
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	22	0	(22)	0	0	197	0	(197)	0	277	(277)		
3001.A4.01 - Request for Services	1,757	1,757	948	0	808	66,877	66,877	92,841	0	(25,965)	80,523	108,139	(27,616)		
3001.A4.02 - HAMMER RFSS	3	3	486	0	(483)	7,046	7,046	24,530	0	(17,484)	7,149	26,214	(19,065)		
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	18	18	40	0	(22)	6,732	6,732	9,687	(0)	(2,956)	7,319	10,332	(3,013)		
3001.A5.01 - RL PD	47	47	121	0	(73)	2,649	2,649	5,553	0	(2,904)	4,567	7,726	(3,160)		
3001.A5.02 - ORP PD	0	0	74	0	(74)	37	37	6,956	0	(6,919)	37	7,440	(7,404)		



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 (2016/5/23)								
b. Location (Address and Zip Code)		b. Number			b. Phase				b. To (2016/6/19)								
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	11	0	(11)	0	0	15	0	(15)	0	21	(21)				
3001.A6.01 - Portfolio PMTOs	21	21	18	0	3	152	152	134	0	18	221	188	33				
3001.A7.01 - G&A Liquidations	(1,316)	(1,316)	(1,768)	0	452	(135,094)	(135,094)	(142,425)	0	7,331	(187,291)	(196,088)	8,796				
3001.A7.02 - DLA Liquidations	(903)	(903)	(1,445)	(0)	542	(64,810)	(64,810)	(80,316)	(0)	15,507	(91,127)	(108,923)	17,796				
3001.A7.03 - Variable Pools Revenue	(7,038)	(7,038)	(6,903)	0	(135)	(434,549)	(434,549)	(412,892)	0	(21,657)	(613,666)	(590,472)	(23,194)				
3001.B1.01 - UBS Assessments for Other Providers	2	2	0	0	2	101	101	0	0	101	184	0	184				
3001.B1.02 - UBS Other MSC - HAMMER M&O	9	9	0	0	9	460	460	0	(0)	460	843	0	843				
3001.B1.03 - Assessment for Other Provided Services	98	98	0	0	98	4,685	4,685	0	(0)	4,685	8,612	0	8,612				
3001.B1.04 - Assessment for PRC Services to MSC	55	55	0	0	55	2,803	2,803	0	(0)	2,803	4,977	0	4,977				
3001.B1.07 - Request for Services	0	0	0	0	0	242	242	0	(0)	242	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)	8,138	8,138	9,076	(0)	(939)	795,149	795,149	830,632	0	(35,483)	1,071,621	1,110,831	(39,210)				
f. MANAGEMENT RESERVE											83	83	0				
g. TOTAL	23,218	25,409	28,544	2,191	(3,135)	2,429,375	2,429,167	2,524,296	(207)	(95,129)	3,418,833	3,528,904	(110,071)				
9. RECONCILIATION TO CONTRACT BUDGET BASE																	
a. VARIANCE ADJUSTMENT																	
b. TOTAL CONTRACT VARIANCE																	



5.0 FORMAT 3, DD FORM 2734/3, BASELINE

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

CONTRACT PERFORMANCE REPORT FORMAT 3 - BASELINE															DOLLARS IN Thousands		FORM APPROVED OMB No. 0704-0188	
1. Contractor			2. Contract			3. Program			4. Report Period									
a. Name Mission Support Alliance			a. Name Mission Support Contract			a. Name Mission Support Contract			a. From (2016/5/23)									
b. Location (Address and Zip Code) Richland, WA 99352			b. Number RL14728			b. Phase Operations			b. To (2016/6/19)									
c. TYPE CPAF			d. Share Ratio			c. EVMS ACCEPTANCE No X Yes												
5. CONTRACT DATA																		
a. ORIGINAL NEGOTIATED COST \$2,854,966			b. NEGOTIATED CONTRACT CHANGES \$563,592		c. CURRENT NEGOTIATED COST (a+b) \$3,418,558		d. ESTIMATED COST OF UNAUTHORIZED UNPRICED WORK \$275		e. CONTRACT BUDGET BASE (C+D) \$3,418,833		f. TOTAL ALLOCATED BUDGET \$3,418,833		g. DIFFERENCE (E - F) (\$0)					
h. CONTRACT START DATE 2009/05/24			i. CONTRACT DEFINITIZATION DATE 2009/05/24			j. PLANNED COMPLETION DATE 2019/05/25			k. CONTRACT COMPLETION DATE 2019/05/25		l. ESTIMATED COMPLETION DATE 2019/05/25							
6. PERFORMANCE DATA																		
ITEM (1)	BCWS CUMULATIVE TO DATE (2)	BCWS FOR REPORT PERIOD (3)	BUDGETED COST FOR WORK SCHEDULED (BCWS) (Non-Cumulative)												UNDISTRIBUTED BUDGET (15)	TOTAL BUDGET (16)		
			Six Month Forecast By Month															
			July FY 16 (4)	Aug FY16 (5)	Sep FY16 (6)	Oct FY17 (7)	Nov FY17 (8)	Dec FY17 (9)	Jan FY17 (10)	Feb FY17 (11)	Remaining FY17 (12)	FY18 (13)	FY19 (14)					
a. PERFORMANCE MEASUREMENT BASELINE (Beginning of Period)	1,619,146	17,231	21,773	17,438	24,712	13,861	16,725	14,854	17,399	15,729	221,813	210,904	135,383	0	2,346,970			
b. BASELINE CHANGES AUTHORIZED DURING REPORT PERIOD	15,080	(17,231)	527	163	139	134	134	136	88	125	864	0	0	0	160			
a. PERFORMANCE MEASUREMENT BASELINE (End of Period)	1,634,226		22,301	17,601	24,851	13,994	16,859	14,990	17,487	15,854	222,677	210,904	135,383	0	2,347,129			



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 (2016/5/23)					
Mission Support Alliance			Mission Support Contract				Mission Support Contract									
b. Location (Address and Zip Code)			b. Number				b. Phase				b. To (2016/6/19)					
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)												UNDISTRIBUTED BUDGET (15)	TOTAL BUDGET (16)
			Six Month Forecast By Month									Remaining FY17 (12)	FY18 (13)	FY19 (14)		
			July FY 16 (4)	Aug FY16 (5)	Sep FY16 (6)	Oct FY17 (7)	Nov FY17 (8)	Dec FY17 (9)	Jan FY17 (10)	Feb FY17 (11)						
a2. NON - PERFORMANCE MEASUREMENT BASELINE (Beginning of Period)	787,011	6,725	8,834	7,057	11,629	6,140	7,555	6,611	7,818	7,136	58,250	92,834	62,608		1,070,209	
b2. BASELINE CHANGES AUTHORIZED DURING REPORT PERIOD	8,138	(6,725)	(0)	0	(0)	0	0	0	0	(0)	(0)	0	0	0	1,412	
a2. NON - PERFORMANCE MEASUREMENT BASELINE (End of Period)	795,149		8,834	7,057	11,629	6,140	7,555	6,611	7,818	7,136	58,250	92,834	62,608		1,071,621	
7. MANAGEMENT RESERVE															83	
8. TOTAL	2,429,375	0	31,135	24,658	36,481	20,134	24,414	21,601	25,305	22,990	280,927	303,738	197,991	0	3,418,833	



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 (2016/5/23)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number RL14728	b. Phase Operations	b. To (2016/6/19)
	c. Type CPAF	d. Share Ratio	
5. Evaluation			
<p><u>Explanation of Variance /Description of Problem:</u></p> <p>Current Month Cost Variance (CV):</p> <p>3001.01.01 Safeguards and Security – 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>3001.01.02 Fire and Emergency Response – 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>3001.01.05 Emergency Services Management – Favorable CM 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.</p> <p>3001.03.02 Information System – Favorable CM CV is due to MSA self-performing the software engineering services scope of work which has resulted in cost savings.</p> <p>3001.04.03 Electrical Services – Unfavorable CM CV is due to staffing levels that are currently higher than the baseline due to additional maintenance activities required to maintain the electrical distribution system. 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> <p>3001.04.04 Water/Sewer Services – Unfavorable CM CV is due to staffing levels that are currently higher than the baseline due to additional maintenance activities required to maintain the water and sewer distribution system. The system has degraded across the</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 (2016/5/23)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number RL14728	b. Phase Operations	b. To (2016/6/19)
	c. Type CPAF	d. Share Ratio	

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.

3001.06.01 Business Operations – The unfavorable CM CV is primarily due to the LMSI ENCO Severance costs.

3001.08.01 Water System – The favorable CM CV is primarily due to L-840, “24 Inch Line Replacement from 2901Y to 200W” construction subcontract being awarded below estimate.

3001.08.03 Electrical System – The favorable CM CV is primarily due to L-780 “200E 13.8kV Electrical Distribution System Modifications” construction and procurement activities being performed for less than budgeted. This variance is also, due to project L-612 “230kV Trans Sys Recon and Sustain Repairs” completing 30% Conceptual Design and developing 90% Conceptual Design 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 – The favorable CM SV is due to performing excavation and installation of pipe earlier than planned for project L-840 “24 Inch Line Replacement from 2901Y to 200W”.

3001.08.04 Roads and Grounds – The favorable CM SV is due to implementation of BCR #VRL40RP-16-016 for project L-775 “Chip Seal Rt 4S Canton Ave to Y Barricade” and BCR #VRL40RP-16-018 for project L-777 “Chip Seal Rt 4S, 618-10 Wst Site to HR Rd”. This BCR changed the scope from an overlay to a chip seal, which reduced the overall budget for these projects. The budget adjustment was done as a current period point adjustment and the budget was returned to the FY 2017 out-year Reliability Project Planning Package.

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



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 (2016/5/23)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728	b. Phase - Operations	b. To (2016/6/19)
	c. Type CPAF	d. Share Ratio	

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 by 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 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 three (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 (2016/5/23)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2016/6/19)
	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.



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 (2016/5/23)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2016/6/19)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NO X YES	

3001.06.04 Miscellaneous Support: Cumulative favorable CV is primarily due to MSA Engineering 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 planned in the baseline.

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, and 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 WBS 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.



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 (2016/5/23)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728	b. Phase - Operations	b. To (2016/6/19)

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.

3001.08.01 Water Systems – The cumulative unfavorable SV is primarily due to engineering design completing behind schedule which has impacted successor activities for project L-830, “Filter Plant Systems Upgrade.”

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

Impacts - Cumulative Schedule Variance: Schedule impacts are minimal because each Reliability Project is an independent stand-alone project.

Corrective Action - Cumulative Schedule Variance: Hanford Historic Buildings Preservation – no corrective action. Once the new contractor has completed the bid process a new rehabilitation schedule will be established.

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 (2016/5/23)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728	b. Phase - Operations	b. To (2016/6/19)

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 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 increased by \$1.57M for June 2016, from \$3,417.0M to \$3,418.6M due to Baseline Change Request (BCR) VRFS-16-001, Contract Mod 526, Definitization of FY 2013 to FY 2016 Request for Services and BCR VSWS-16-008 Rev 1, Contract Mod 532, Definitization of the Engineering Evaluation Phase of Fall Protection (Phase 1).

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

Changes in Estimated Price:

The Estimated Price of \$3,738.8M is based on the Most Likely Management Estimate at Completion (MEAC) of \$3,528.9M and fee of \$209.9M. 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 (2016/5/23)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728	b. Phase - Operations	b. To (2016/6/19)

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

During June 2016, the Estimate at Completion (EAC) increased by \$0.7M from \$3,528.2M to \$3,528.9M; ((\$1.2M) in the Performance Measurement Baseline [PMB] and \$1.9M in the Non-PMB). Decreases in the PMB were primarily due to a reduction based on a street saver condition analysis and the revised road master plan changing Reliability Projects L-775, *Overlay RT 4s, Canton Ave to Y Barricade*, and L-777, *Overlay RT 4s, 618-10 Wst Site to HR Road*, from a road overlay to a road chip-seal. The Non-PMB increase is due primarily to WRPS and PRC requesting more support than planned.

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 increase the BAC by \$0.1M from \$2,347.0M to \$2,347.1M. The increase was due to the implementation of BCR VSWS-16-008 Rev 1, Contract Mod 532, Definitization of the Engineering Evaluation Phase of Fall Protection (Phase 1).

Differences in the Non - Performance Measurement Baseline:

The Non-PMB budget increased by \$1.4M, changing the BAC from \$1,070.2M to \$1,071.6M. The increase was due to the implementation of BCR VRFS-16-001, Contract Mod 526, Definitization of FY 2013 to FY 2016 Request for Services.

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 – June 2016					
Account Description	BCWS	BCWP	ACWP	CV	Liquidation
Direct Labor Adder					
Software Engineer Services DLA (3001.03.02.03)	\$989.3	\$989.3	\$906.0	\$83.3	\$(867.6)
Content & Records Management DLA (3001.03.01.04)	\$305.5	\$305.5	\$274.6	\$30.9	\$(270.3)
Transportation DLA (3001.04.06.02)	\$1,372.3	\$1,372.3	\$3,437.8	\$(2,065.5)	\$(4,013.3)
Maintenance DLA (3001.04.05.02)	\$4,743.2	\$4,743.2	\$6,257.2	\$(1,514.0)	\$(6,100.6)
Janitorial Services DLA (3001.04.05.03)	\$825.1	\$825.1	\$538.0	\$287.1	\$(512.6)
Total Direct Labor Adder	\$8,235.4	\$8,235.4	\$11,413.6	\$(3,178.2)	\$(11,764.4)

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 – June 2016					
Account Description	BCWS	BCWP	ACWP	CV	Liquidation
Usage Based Services					
Training (3001.01.04.02)	\$9,266.8	\$9,266.8	\$9,703.5	\$(436.7)	\$(10,852.3)
HRIP (3001.02.04.02)	\$4,434.1	\$4,434.1	\$2,640.5	\$1,793.6	\$(2,730.5)
Dosimetry (3001.02.04.03)	\$4,541.8	\$4,541.8	\$3,190.8	\$1,351.0	\$(3,797.2)
Information Technology Services (3001.03.07.01)	\$2,485.1	\$2,485.1	\$4,026.8	\$(1,541.7)	\$(2,291.3)
Work Management (3001.04.13.01)	\$-	\$-	\$401.2	\$(401.2)	\$(379.7)
Courier Services (3001.04.15.02)	\$172.2	\$172.2	\$155.3	\$16.9	\$(153.5)
Occupancy (3001.04.14.06)	\$5,273.7	\$5,273.7	\$5,337.7	\$(64.0)	\$(5,630.5)
Crane & Rigging (3001.04.08.02)	\$8,014.2	\$8,014.2	\$8,353.3	\$(339.1)	\$(8,636.0)
Guzzler Trucks (3001.04.06.03)	\$58.8	\$58.8	\$79.1	\$(20.3)	\$(72.7)
Fleet (3001.04.07.02)	\$6,164.9	\$6,164.9	\$9,280.0	\$(3,115.1)	\$(9,138.4)
Total UBS	\$40,411.6	\$40,411.6	\$43,168.2	\$(2,756.6)	\$(43,682.1)
Total DLA / UBS	\$48,647.0	\$48,647.0	\$54,581.8	\$(5,934.8)	\$(864.7)

ACWP = Actual Cost of Work Performed.

CV = Cost Variance

BAC = Budget at Completion.

BCWP = Budgeted Cost of Work Performed.

BCWS = Budgeted Cost of Work Scheduled.

FYTD Cost Variance (-\$5.9M): The Information Technology Services pool experienced its first month of liquidations in June. Initial pool license account costs were front loaded, resulting in a large unfavorable variance.

Transportation variance reflects a higher than planned increase in requirements from WRPS as well as increased scope costs due to high volume of Site moves. The Maintenance variance is caused by working corrective maintenance backlog. Fleet Services' cost increase is due to higher customer demand of fleet materials/parts, purchases of new equipment. The overall cost increase of pools was impacted by the increase of service demand from previous year requirements.



8.0 RELIABILITY PROJECT STATUS

Activity in June 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	
Work Scope Description (ORP-14 Projects)													
L-780, 200E 13.8kV ED Sys Mads	5,118.4	6,561.0	6,306.6	1,442.6	254.4	7,945.2	7,448.0	497.2	82.6%	1/11/17	11/22/16	G	G
ORP-14 Subtotal	5,118.4	6,561.0	6,306.6	1,442.6	254.4	7,945.2	7,448.0	497.2					
Work Scope Description (RL-40 Projects)													
L-612, 230kV Transmission System Reconditioning and Sustainability Repairs	542.5	542.5	305.3	0.0	237.2	1,098.0	995.5	102.5	49.4%	6/26/17	6/26/17	G	G
L-761, Phase 2a Procure, Install, & Closeout	760.6	831.6	657.5	71.0	174.1	848.5	709.0	139.5	98.0%	11/29/16	11/15/16	G	G
L-789, Prioritize T&D Sys Wood PP Test & Replace	407.3	114.8	60.4	(292.5)	54.4	1,276.6	1,276.6	0.0	9.0%	10/6/16	12/28/16	R	G
L-815, Upgrade Transmission/Distrib Access Rds	165.9	128.0	119.3	(37.9)	8.7	678.5	678.5	0.0	18.9%	9/28/17	10/25/17	Y	G
L-830, Filter Plant Filter Ctrl Sys Upgrade	936.3	424.0	756.1	(512.3)	(332.1)	1,050.6	1,262.9	(212.3)	40.4%	9/19/16	10/19/16	Y	Y
L-834, Filter Plant Flocculator Sys Upgrade	349.2	382.4	371.1	33.2	11.3	437.3	418.4	18.9	87.4%	8/29/16	8/29/16	G	G
L-525, 24in Line Replacement 200E	1,893.1	1,513.0	718.7	(380.1)	794.3	3,618.9	2,190.0	1,428.9	41.8%	3/2/17	12/29/16	G	G

Variance at Complete Cost Performance		Schedule at Complete Performance	
OK - G	Underspent or 1-10% over	OK - G	On schedule
Over Spent Y	11-30% or 100K Over Spent	Behind Y	Within 30 days
Over Spent R	>30% or 300K Over Spent	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	
Work Scope Description (RL-40 Projects)													
L-840, 24in Line Replacement 200W	1,819.5	2,352.7	1,101.3	533.2	1,251.4	3,467.6	2,170.3	1,297.3	67.8%	1/27/17	12/29/16	G	G
L-856, Route 4N Rut Repair, RT 11A to MP2	564.0	564.0	282.9	0.0	281.1	564.0	282.9	281.1	100.0%	5/24/16	5/24/16	G	G
L-775, Overlay RT 4s, Canton Ave to Y Barricade	68.9	60.4	56.3	(8.5)	4.1	156.4	140.5	15.9	38.6%	9/21/16	9/27/16	Y	G
L-776, Chip SI Rt 4S Y Brrcd to 618 Wst St Ntrnc	5.6	0.0	0.0	(5.6)	0.0	101.3	90.7	10.6	0.0%	9/21/16	9/27/16	Y	G
L-777, Overlay RT 4s, 618-10 Wst Site to HR Road	53.9	49.3	52.1	(4.6)	(2.8)	123.6	113.1	10.5	39.9%	9/21/16	9/27/16	Y	G
L-849, Replace 200E 1.1M-gal PW Tank	100.0	50.8	75.9	(49.2)	(25.1)	100.0	101.5	(1.5)	50.8%	4/12/16	3/15/17	R	G
L-850, Replace 200W 1.1M-gal PW Tank	250.0	61.7	197.4	(188.3)	(135.7)	250.0	234.3	15.7	24.7%	3/29/16	3/8/17	R	G
L-853, 200E Sewer Flow Equalization Facility	283.4	322.8	337.0	39.4	(14.2)	996.8	978.6	18.2	32.4%	5/24/17	5/2/17	G	G
L-854, 200E Sewer Consolidations	154.0	173.0	178.3	19.0	(5.3)	693.3	672.4	20.9	25.0%	5/24/17	5/2/17	G	G
L-859, 1st St frm Canton Ave to IDF Entrance Rd	135.0	132.5	112.2	(2.5)	20.3	135.0	113.1	21.9	98.1%	4/26/16	7/21/16	R	G
L-868, Raw Water Fire Protection Loop for LAWPS	163.3	165.9	49.0	2.6	116.9	386.6	163.7	222.9	42.9%	9/15/16	9/15/16	G	G
RL-40 Subtotal	8,652.5	7,869.4	5,430.8	(783.1)	2,438.6	15,983.0	12,592.0	3,391.0					
Total	13,770.9	14,430.4	11,737.4	659.5	2,693.0	23,928.2	20,040.0	3,888.2					

Variance at Complete Cost Performance		Schedule at Complete Performance	
OK - G	Underspent or 1-10% over	OK - G	On schedule
Over Spent Y	11-30% or 100K Over Spent	Behind Y	Within 30 days
Over Spent R	>30% or 300K Over Spent	Behind R	Greater than 30 days

RELIABILITY STATUS, CONT.

Reliability Projects Variance Explanations

Contract-to-Date (CTD) Schedule Variances (SV):

- L-780, *200E 13.8kV Electrical Distribution System Modifications*: The favorable variance is due to performing procurement and construction activities ahead of schedule in prior periods.
- L-761, *Phase 2a Procure, Install, & Closeout*: The favorable variance is due to completing Facility Management Plans and training earlier than planned.
- L-789, *Prioritize T&D Sys Wood PP Test & Replace*: The unfavorable variance is due to a change in work scope that will be corrected by a future Baseline Change Request (BCR).
- L-830, *Filter Plant Filter Control System Upgrade*: The unfavorable variance is due to completing complex engineering design work behind schedule which delayed material delivery.
- L-525, *24 Inch Line Replacement, 200E*: The unfavorable variance is due to being behind schedule on subcontractor procurement for construction.
- L-840, *24 Inch Line Replacement 200W*: The favorable variance is due to completing excavation and pipe installation ahead of schedule.
- L-850, *Replace 200W 1.1M-gal PW Tank*: The need to validate the site-wide water requirements for the OHCs delayed design startup, which resulted in the unfavorable variance.

CTD Cost Variances (CV):

- L-780, *200E 13.8kV Electrical Distribution System Modifications*: The favorable CV is due to the award of the construction contract for less than planned cost.
- L-612, *230kV Transmission System Reconditioning and Sustainability Repairs*: The positive CV is due to completing planning activities, ecological/biological reviews, and 30% Conceptual Design Review (CDR) under budget.
- L-761, *Replace RFAR, Phase 2a - Procure, Install, & Closeout*: The favorable CV is due to design costs being less than planned.
- L-789, *Prioritize T&D Sys Wood PP Test & Replace*: The favorable CV is due to a change in work scope that will be corrected by a future BCR.





- L-830, *Filter Plant Filter Control System Upgrade*: The unfavorable variance is due to design requiring additional funding to resolve comments provided at the initial 90% design submittal, additional in-house engineering required to complete material procurement, and a high degree of complexity within work package planning.
- L-525, *24 Inch Line Replacement, 200E*: The favorable 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 Inch Line Replacement, 200W*: The favorable 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-850, *Replace 200W 1.1M-gal PW Tank*: The unfavorable variance is due to pre-conceptual planning activities necessary to determine the type and size of the replacement water tank.
- L-856, *Route 4N Rut Repair, RT 11A to MP2*: The favorable CV is due to construction contract being awarded at less than estimated cost.
- L-868, *Raw Water Fire Protection Loop for LAWPS*: The unfavorable variance is due to project support and conceptual design contract costing less than planned.

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

- L-780, *200E 13.8kV Electrical Distribution System Modifications*: The positive VAC is due to the award of the construction contract for less cost than originally planned.
- L-612, *230kV Transmission System Reconditioning and Sustainability Repairs*: The positive VAC is due to the conceptual design subcontract award and initial planning costing less than planned.
- L-761, *Replace RFAR, Phase 2a - Procure, Install, & Closeout*: The positive VAC is due to utilizing existing design underruns within the project to accelerate and perform out-year procurement and design activities.
- L-830, *Filter Plant Filter Control System Upgrade*: The unfavorable VAC is due to design work costing more than planned.



- 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 the 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 the fixed price construction contract awarded at less cost than planned.
- L-856, *Route 4N Rut Repair, RT 11A to MP2*: The favorable CV is due to the construction contract being awarded at less than estimated cost.
- L-868, *Raw Water Fire Protection Loop for LAWPS*: The favorable variance is due to project support costing less during planning, and the design bid coming back lower than planned.

Table 8 -2. Reliability Projects Schedule.

RPSUM CU - Summary RP Schedule for Melodee - Current Layout: MSA - Summ RP Sched - Melodee - CU		Mission Support Alliance							Page 1 of 2											
Activity ID	Activity Name	OD	RD	% Comp	Baseline Start	Baseline Finish	Forecast Start	Forecast Finish	2015			2016			2017					
L-525	L-525, 24"Line Renovation/Replacement from 2901Y to 200E	152	133	41.8%	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	257	49.4%	31-Aug-15	26-Jun-17	31-Aug-15 A	26-Jun-17												
L-761 Ph2a	L-761, Replace RFAR Phase 2a	154	105	98%	20-Jul-15	29-Nov-16	20-Jul-15 A	15-Nov-16												
L-775	L-775, Overlay RT 4s, Canton Ave to Y Barricade	186	70	38.6%	10-Aug-15	21-Sep-16	10-Aug-15 A	27-Sep-16												
L-776	L-776, Chip SI Rt 4S Y Brrcd to 618 Wst St Ntrnc	69	69	0%	15-Jun-16	21-Sep-16	21-Jun-16*	27-Sep-16												
L-777	L-777, Overlay RT 4s, 618-10 Wst Site to HR Road	186	70	39.9%	24-Aug-15	21-Sep-16	10-Aug-15 A	27-Sep-16												
L-780	L-780, 200E Area 13.8kV Electrical Distribution System WFD Modifications and Upgrades	203	110	82.6%	19-Jan-15	11-Jan-17	01-Oct-14 A	22-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	28-Dec-16												
L-815	L-815, Upgrade Transmission/Distrib Access Rds	411	342	18.9%	16-Feb-16	28-Sep-17	02-Feb-16 A	25-Oct-17												
L-830	L-830, Filter Plant Filter Control System Upgrade	125	86	40.4%	29-Jun-15	19-Sep-16	29-Jun-15 A	19-Oct-16												
L-834	L-834, Filter Plant Flocculator System Upgrade	76	50	87.4%	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	133	67.8%	01-Apr-15	27-Jan-17	01-Apr-15 A	29-Dec-16												
L-849	L-849, Replace 200E 1.1M-gal PW Tank	185	185	50.8%	24-Aug-15	12-Apr-16	10-Aug-15 A	15-Mar-17												

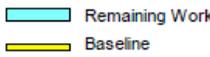
 Remaining Work
 Baseline

MSC - Reliability Projects
Summary Schedule
Data Date: 19-Jun-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											
L-850	L-850, Replace 200W 1.1M-gal PW Tank	185	180	24.7%	10-Aug-15	29-Mar-16	29-Jul-15 A	08-Mar-17	[Gantt chart for L-850: Remaining work (light blue) from 10-Aug-15 to 29-Mar-16; Baseline (yellow) from 10-Aug-15 to 29-Mar-16]											
L-853	L-853, 200E Sewer Flow Equalization Facility	309	219	32.4%	17-Aug-15	24-May-17	17-Aug-15 A	02-May-17	[Gantt chart for L-853: Remaining work (light blue) from 17-Aug-15 to 24-May-17; Baseline (yellow) from 17-Aug-15 to 24-May-17]											
L-854	L-854, 200E Sewer Consolidations	283	219	25%	17-Aug-15	24-May-17	17-Aug-15 A	02-May-17	[Gantt chart for L-854: Remaining work (light blue) from 17-Aug-15 to 24-May-17; Baseline (yellow) from 17-Aug-15 to 24-May-17]											
L-856	L-856, Route 4N Rut Repair, Rt. 11A to MP2	215	0	100%	20-Jul-15	24-May-16	20-Jul-15 A	24-May-16 A	[Gantt chart for L-856: Remaining work (light blue) from 20-Jul-15 to 24-May-16; Baseline (yellow) from 20-Jul-15 to 24-May-16]											
L-859	L-859, 1st St frm Canton Ave to IDF Entrance Rd	160	23	98.1%	08-Sep-15	26-Apr-16	08-Sep-15 A	21-Jul-16	[Gantt chart for L-859: Remaining work (light blue) from 08-Sep-15 to 26-Apr-16; Baseline (yellow) from 08-Sep-15 to 26-Apr-16]											
L-868	L-868, Raw Water Fire Protection Loop for LAWPS	155	62	42.9%	04-Jan-16	15-Sep-16	14-Dec-15 A	15-Sep-16	[Gantt chart for L-868: Remaining work (light blue) from 04-Jan-16 to 15-Sep-16; Baseline (yellow) from 04-Jan-16 to 15-Sep-16]											

	<p align="center">MSC - Reliability Projects Summary Schedule Data Date: 19-Jun-16</p>	
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9.0 BASELINE CHANGE REQUEST LOG

Baseline Change Request Log for June

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

Three BCR incorporates Contract Modifications:

- VRFS-16-001 – Mod 526, Definitization of FY 2013 to FY 2016 Request for Services
- VSWS-16-008 Rev 1 – Mod 532, Definitization of the Engineering Evaluation Phase of Fall Protection (Phase 1)
- VSWS-16-014 – Mod 533, Notification of Change for 100-D/H and 100 B/C Area & Create Level 5 WBS

Nine BCRs affected Reliability Projects:

- VORP14-16-001 Rev 1 – Move Budget for LAWPS Power Tap to L-780, 200E 13.8kV Electrical Distribution System Mods from FY 2017 Reliability Project Planning Package and Modify Schedule
- VRL40RP-16-007 Rev 1 – Re-Plan L-612, 230kV Transmission System Reconditioning and Sustainability Upgrades to Align with Revised NEPA/NHPA Approach
- VRL40RP-16-013 – Move Budget from FY 2017 Reliability Project Out-Year Planning Package to L-853, 200E Sewer Flow Equalization Facility for Design, NEPA Review and Modify Schedule
- VRL40RP-16-014 – Move Budget from FY 2017 Reliability Project Out-Year Planning Package to L-854, 200E Sewer Consolidations for Design, NEPA Review, and Modify Schedule
- VRL40RP-16-015 – Cancel L-846, 242A Condenser Water Cooling Tower per RL Direction & Move Remaining Budget to FY 2017 Reliability Project Out-Year Planning Package
- VRL40RP-16-016 – Re-Plan L-775, Overlay Route 4S, Canton Avenue to Y Barricade Design from Overlay to Chip Seal per RL Direction & Re-Title Level 4 and 5 WBSs

- VRL40RP-16-017 –Add Level 4 & 5 WBSs for L-776, Chip Seal Route 4S, Wye Barricade to 618 Waste Site Entrance Design, Schedule Work & Move Budget from Reliability Project Out-Year Planning Package
- VRL40RP-16-018 – Re-Plan L-777, Overlay Route 4S, 618-10 Waste Site to Horn Rapids Road Design from Overlay to Chip Seal per RL Direction & Re-Title Level 4 and 5 WBSs
- VRL40RP-16-019 – Cancel L-867, North Loop Transmission Line Road Access per RL Direction & Move Remaining Budget to FY 2017 Reliability Project Out-Year Planning Package

Two BCR was Administrative in Nature:

- VMSA-16-007 Rev 5 – Administrative BCR – Create Lower Level Task Order (LLTO) WBSs for Cost Collection Established in the Month of June
- VMSA-16-010 Rev 2 – Change Resource 2D to 63 (IT Services) for All Budget Sources for IT UBS in the PMB and in the Non-PMB



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
Prior PMB Total	May 2016	1,230,506		1,230,506	1,230,506	242,825		1,116,463		2,346,969	2,346,969
VMSA-16-007 Rev 5		0		0	0	0		0		0	2,346,969
VMSA-16-010 Rev 2		0		0	0	0		0		0	2,346,969
VORP14-16-001 Rev 1		0		0	0	370		0		0	2,346,969
VRL40RP-16-007 Rev 1		0		0	0	(49)		0		0	2,346,969
VRL40RP-16-013		0		0	0	(73)		0		0	2,346,969
VRL40RP-16-014		0		0	0	35		0		0	2,346,969
VRL40RP-16-015		0		0	0	(356)		0		0	2,346,969
VRL40RP-16-016		0		0	0	(494)		0		0	2,346,969
VRL40RP-16-017		0		0	0	101		0		0	2,346,969
VRL40RP-16-018		0		0	0	(826)		0		0	2,346,969
VRL40RP-16-019		0		0	0	(190)		0		0	2,346,969
VSWS-16-008 Rev 1		0		0	0	160		160		160	2,347,129
VSWS-16-014		0		0	0	0		0		0	2,347,129
Revised PMB Total	Jun 2016	1,230,506		1,230,506	1,230,506	241,504		1,116,623		2,347,129	
Prior Non-PMB Total	May 2016	604,007		604,007		99,119		466,202		1,070,209	1,070,209
VMSA-16-010 Rev 2		0		0		0		0		0	1,070,209
VRFS--16-001		0		0		1,412		1,412		1,412	1,071,621
Revised Non-PMB Total	Jun 2016	604,007		604,007		100,531		467,614		1,071,621	
Total Contract Performance Baseline	Jun 2016	1,834,513		1,834,513	1,834,513			1,584,238		3,418,750	
Management Reserve	May 2016		0	0		0	83		83	83	83
Revised Management Reserve	Jun 2016		0	0		0	83		83	83	
Total Contract Budget Base				1,834,513				1,584,320		3,418,833	
Prior Fee Total	May 2016	109,961		109,961		21,035		99,792		209,753	209,753
VRFS-16-001		0		0		109		109		109	209,862
Revised Fee Total	Jun 2016	109,961		109,961		21,144		99,902		209,862	
Change Log Total	Jun 2016			1,944,473				1,684,222		3,628,695	



10.0 RISK MANAGEMENT

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

- 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 May data.
- Project Risk Analysis:
 - Performed risk elicitation and review for the following Reliability Projects: L-525, *24in Line Replacement 200E*, L-840, *24in Line Replacement 200W*, and L-834, *Filter Plant Flocculator Sys Upgrade*. The current risk registers for each of these projects were reviewed with the outgoing and incoming Project Managers, to support the transition of this scope due to staffing changes.
 - Performed review of the current risk register for Project L-830, *Filter Plant Filter Ctrl Sys Upgrade*, with the Project Manager. Updates were incorporated in the risk register, and several risks were proposed for closure at the next Risk Management Board meeting.
 - A path forward for performing risk elicitations for Project L-612, *230kV Transmission System Reconditioning and Sustainability Repairs*, and Project L-868, *Raw Water Fire Protection Loop for LAWPS*, was determined.
 - Risk Management reviewed the monthly Operations Project Reports for each reliability project and any related Key Risks for monthly reporting to DOE.
- Mission Risk Review and Update:
 - Performed review of the current risk register with Information Management (IM). Updates were incorporated in the risk register, and one risk is proposed for closure at the next Risk Management Board meeting.
 - The new Risk Analyst was introduced to the Emergency Services (ES) VP, and a risk review of the current register was performed. No updates were needed, however several potential new risks were discussed and will be evaluated and characterized as needed.
- Request for Services (RFS) Proposal Support – Performed risk review of one RFS proposal for providing Project Management, Environmental Assessment, and Biological Assessment Support to a DOE-RL subcontractor who will be



performing a transmission line rebuild project on the Hanford site. This proposal had appropriate scope assumptions, and no expected risk impacts.

- Contract Change Proposal Support – Supported the proposal kick-offs for two Contract Change Proposals that are being developed. Risk Management will continue to support these proposals, and will perform risk evaluations on them once the scope and associated assumptions are ready for review.
- 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.



11.0 DASHBOARD SUMMARY

June FY 2016							
2016 Performance Evaluation and Measurement Plan (PEMP)							
Deliverables	Plan	DOE	MSA	Lead		Status	
				YTD	JUN		
1.0 Effective Site Cleanup							
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	On schedule	On schedule
		Biological Controls – Pest Removal			Fritz	On schedule	On schedule
		Biological Controls – Tumbleweed Removal			Fritz	On schedule	On schedule
		Biological Controls – Vegetation			Fritz	On schedule	On schedule
		Crane and Crew Support			Brockman	On schedule	On schedule
		Electrical – Power Availability			Sauceda (Acting)	In jeopardy	In jeopardy
		Facilities Maintenance			Brockman	On schedule	On schedule
		Fire Protection System Maintenance			Walton	On schedule	On schedule
		Fleet Services – Heavy Equipment (Cranes)			Brockman	On schedule	On schedule
		Fleet Services – Heavy Equipment (Evacuators)			Brockman	On schedule	On schedule
		Fleet Services – Heavy Equipment (General Purpose)			Brockman	On schedule	On schedule
		Fleet Services – Light Equipment (Hanford Patrol)			Brockman	On schedule	On schedule
		Fleet Services – Light Equipment (Hanford Fire)			Brockman	On schedule	On schedule
		Fleet Services – Light Equipment (Special Purpose Trucks)			Brockman	On schedule	On schedule
		HAMMER – Worker Training Completion Input			Metzger	On schedule	On schedule
		IT - Cyber Security – System Patching			Eckman	On schedule	On schedule
		IT - Emergency Radio / SONET Transport Availability			Eckman	On schedule	On schedule
		IT - HLAN Availability			Eckman	On schedule	On schedule
		PFP Support - Loaned Labor			Brockman	On schedule	On schedule
		RSS - Dosimetry External Services			Wilson	On schedule	On schedule
		RSS - Instrument Calibration			Wilson	On schedule	On schedule
		Service Catalog Request - Customer Satisfaction			Brockman	On schedule	On schedule
		Site Training Services - Course Bundling			Metzger	N/A	N/A
Spent Fuel Activity Support - Loaned Labor	Brockman	On schedule	On schedule				
Water – Potable	Fritz	On schedule	On schedule				
Water – Raw	Fritz	On schedule	On schedule				
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	On schedule	On schedule
	1.1.3	Demonstrate a reduction in the deferred maintenance backlog in water, sewer, and electrical utilities.	9/30/2016	Dickinson	Fritz	On schedule	On schedule
	1.1.4	Demonstrate successful delivery of reliability projects within approved scope, schedule, and cost.	9/30/2016	Dickinson	Fritz	On schedule	On schedule

Note: PI 1.1.1 – Electrical – Power Availability

– Green for year-to-date activity. Following April's single incident that resulted in 34 transformer outages, and May's two transformer outages, MSA has chosen to mark June's status yellow to maintain its focus.

LEGEND			
	= On schedule		= Objective missed
	= Complete		= N/A
	= In jeopardy		

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 re-alignments, 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"> Business and financial management using approved purchasing, estimating, property, budget, planning, billing, labor, accounting, and performance measurement systems 						Green
<ul style="list-style-type: none"> 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 						Green
<ul style="list-style-type: none"> Safeguards and security, fire department operations, emergency response, and emergency operations/emergency management 						Green
<ul style="list-style-type: none"> Land Management 						Green
<ul style="list-style-type: none"> Infrastructure and services program management, operations and maintenance 						Green
<ul style="list-style-type: none"> Effective contractor human resources management 						Green
<ul style="list-style-type: none"> Problem identification and corrective action implementation 						Green
Performed work safely and in a compliant manner that assures the workers, public, and environment are protected from adverse consequences			Green			

LEGEND

- = On schedule
- = Complete
- = In jeopardy
- = Objective missed
- = N/A

Note: PI 2.1.1 Demonstrate Business

Performance Measure Targets Met – Yellow

for the month of June, 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 2420 and 2430 Stevens Ctr, and other buildings) and training (also caused by unexpected demand), a rate change will be evaluated. Current year-end forecasts are to be \$561K (or 0.8%) over-liquidated, which is within the 5% target.



12.0 CONTRACT DELIVERABLES STATUS

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

Table 12-1. June 2016 Contract Deliverables

CDRL	Deliverable	Responsible	Date Due	Date Submitted to DOE	Action	Response Time	Date Due from DOE	Date Approved by DOE
CD0047	Radiological Assistance Program Response Plan for RAP Region 8	Walton	6/1/16	5/19/2016	Approve	60 days	7/19/16	6/15/2016
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	6/15/2016	Review	30 days	7/15/16	
CD0051	Milestone Review and IAMIT Meeting Minutes - Jun	Wilson	6/19/16	6/15/2016	Information	N/A	N/A	N/A
CD0084	Bonneville Power Administration (BPA) Power and Transmission Service invoice verification and breakdown of site contractor costs - Apr	Sauceda	6/30/16	6/28/2016	Review	30 days	7/28/16	
CD0129	Content (Records) Management Security Plan	Eckman	6/30/16	6/22/2016	Approve	45 days	8/7/16	
CD0169	Hanford Site Interface Management Plan	Brockman	6/30/16	6/20/2016	Approve	30 days	7/21/16	
CD0088	Electrical Metering Plan Progress Report	Sauceda	7/1/16	6/28/2016	Review	30 days	7/28/16	
CD0051	Milestone Review and IAMIT Meeting Minutes - May	Wilson	7/3/16	6/28/2016	Information	N/A	N/A	N/A
CD0123	Monthly Billing Reports for DOE Services - Jun	Eckman	7/5/16	7/5/2016	Information	N/A	N/A	N/A
CD0008	Force-On-Force Test Results	Walton	7/5/16	6/21/2016	Review	45 days	8/6/16	
CD0144	Monthly Performance Report - May	Olsen	7/10/16	7/5/2016	Review	None	N/A	N/A
CD0124	Quarterly Service Level Report	Eckman	7/10/16		Information	N/A	N/A	N/A
CD0178	Quarterly Manpower Reports and Budget Forecasts	Walton	7/15/16		N/A	N/A	N/A	N/A
CD0042	Annual Field Emergency Preparedness Evaluation Exercise Report	Walton	7/11/16		Approve	45 days		
CD0023	Classified Information System Security Plan (ISSP), one for each classified system or network	Walton	7/24/16	4/14/2016	Approve	45 days	5/30/16	
CD0024	Certification Packages (ref: EM PCSP)	Walton	7/24/16	4/14/2016	Approve	45 days	5/30/16	
CD0084	Bonneville Power Administration (BPA) Power and Transmission Service invoice verification and breakdown of site contractor costs - May	Sauceda	7/30/16		Review	30 days		
CD0034	Annual Training Needs Forecast and Plan	Wilson	7/31/16		Review	30 days		

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

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

IAMIT = Interagency Management Integration Team.

TPA = Tri-Party Agreement.

N/A = No action.



12.1 GOVERNMENT-FURNISHED SERVICES/INFORMATION AND DOE DECISIONS

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 had been anticipated.

RL subsequently issued contract direction to MSA not requiring submittal of the Draft 2017 Hanford Lifecycle Scope, Schedule and Cost Report (Lifecycle Report), thus there is no need for GF049.

- GF050, due October 31, 2016: *DOE Approval of the DRAFT Hanford Lifecycle Scope, Schedule, and Cost Report.* Although direction regarding MSA’s submittal of the Draft 2017 Lifecycle Report has been provided, clarification as to the requirement that the Final 2017 Lifecycle Report (and its associated GF0050, DOE approval of the Draft report) is also not required, is pending.



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%	55.8%	51.9%
Small Disadvantaged Business	10.0%	10.0%	15.2%
Small Women-Owned Business	6.8%	15.8%	10.6%
HubZone	2.7%	11.9%	3.5%
Small Disadvantaged, Service Disabled	2.0%	9.4%	3.7%
Veteran-Owned Small Business	2.0%	8.6%	5.5%

Through June 2016

Prime Contract Targets:

- At least 40% contracted out beyond MSA = 45% (\$1,269M/\$2,800M)
- Small Business 25% of Total MSC Value = 24% (\$659M/\$2,800M)

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



SERVICE AREA SECTIONS

Individual Service Area Section reports for June 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

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Business Operations

Rich Olsen, Vice President and Chief Financial Officer

Monthly Performance Report

June 2016



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INTRODUCTION

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

PROGRAM CONTROLS

Business Rhythms – At RL’s request, MSA developed a company “business rhythm” calendar that identifies: 1) the key monthly interface and reporting meetings with RL; 2) the timing of budget, baseline and strategic planning deliverables; and 3) and the required interfaces between these deliverables. A business rhythm calendar also helps determine the right-sizing of interface/reporting events, as well as, areas of potential planning improvement. Subsequent to this deliverable, RL requested MSA to include key Richland Operations (RL) actions for incorporation into a business rhythms logic network which is in progress.

Reliability Project Investment Portfolio – The Reliability Projects Infrastructure Portfolio (RPIP) Management Plan was reviewed and accepted by the RL Assistant Manager for Mission Support (AMMS) on May 31, 2016, and formally submitted on



June 15, 2015. The Management Plan describes reliability project planning, the project selection process, and RL/MSA interfaces for maintaining the RPIP.

Report Submittal – The May 2016-status MSC Monthly Performance Report was submitted to RL on Monday, June 27, 2016, one day ahead of schedule. Following a three-working-day period of review (allowing for any final corrections/changes by either RL or MSA), the Report was approved by RL, and then posted to the RL intranet.

HUMAN RESOURCES

Synergy Network – June 13, 2016, marked the launch of the first MSA Women’s Resource Network, now known as the “Synergy Network”. The kick-off event, hosted by MSA Staffing and Diversity department was attended by more than 80 employees. The Network is designed to promote diversity and inclusivity of all employees - men and women - while enhancing the MSA experience for female employees. The kick-off featured presentations on the key components of the Network, including personal and professional growth, resources and support, networking opportunities, community outreach and partnerships with outside entities. Future educational events are currently in the works.

Management Fundamentals – On June 16, 2016, the 8th Management Fundamentals course was completed. This was the second of three classes offered in 2016, and had 20 attendees. Members of the class provided positive feedback and stated that the class will better prepare them for their management role. The curriculum is part of MSA’s commitment to ensuring employees have the appropriate training and development necessary to perform their job duties.

CONTRACTS AND PROCUREMENT

Hanford Information Technology (IT) Scope – Due to issues associated with the final terms and conditions of the subcontract, Lockheed Martin Services, Inc informed MSA that they would not execute the subcontract. MSA had contingency plans in place to move forward with self-performance of the scope and implemented those plans to ensure there was no break in service to the Hanford IT customers. Transition is progressing very well with an expected completion of 1 August 2016.

Small Business Goals – Small Business Contracts utilization continues to exceed goals in all socio-economic categories.

FINANCE AND ACCOUNTING

Patrol Overtime on Training Business FAR Deviation Request – MSA updated the Hanford Patrol Training on Overtime FAR Deviation Request with new conditions from



the Hanford Guard Union Collective Bargaining Agreement (approved January 2016). The Deviation Request provides a cost-benefit analysis of Patrol training on overtime to other options. The updated document was delivered to RL the week of April 18, 2016, followed by a briefing of the package on June 15, 2016. RL then requested Patrol historical cost information to support the Deviation Request, which will be provided in early July.

Support to Ongoing Audits – MSA continues to support audit requests from CohnReznick on the Fiscal Year (FY) 2015 Incurred Cost Submission, and the FY 2016 Forward Pricing Rate proposal. To date, MSA has responded to over 675 items requested by DOE/CohnReznick. 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).
 - Assessment of the processes of Finding #6, *Physical Verification Exceptions* was completed May 25, 2016. Follow-up actions included providing refresher information to the Property representatives (completed June 29, 2016), standardizing contractor tagging requirements (due August 1, 2016), and implementing tagging “alerts” for procured items (due 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. The audit continues with no significant issues.
- **DOE Audit of MSA Initial FY 2016 Forward Pricing Rates (FPR)** – C&R current cycle of onsite audit work completed with continued remote audit activities. No unexpected significant issue identified to date
- **DOE Invoice Audits** – MSA’s response submitted to DOE is currently awaiting a response from RL.
- **MSA FY 2017 Rates Development** – MSA development of FY 2017 Forward Pricing Rates, Usage Based Services (UBS), Small Purchases Estimating Factor (SPEF), and escalation rates are in progress, with a target completion no later than July 30, 2016.



- **IT Statement of Work Restructuring** – Development of the change in accounting practice (effective June accounting month), relating to the establishment of the UBS rates portion of the restructuring, was completed for transmittal to DOE. An updated MSA disclosure statement was also completed to reflect the adoption of the IT UBSs.

LOOK AHEAD

None to report.

MAJOR ISSUES

None to report.

SAFETY PERFORMANCE

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

BASELINE PERFORMANCE

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

Fund Type	June 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	\$0.4	\$0.4	\$0.8	\$0.0	(\$0.4)	\$51.0	\$51.0	\$53.6	\$0.0	(\$2.6)
Subtotal	\$0.4	\$0.4	\$0.8	\$0.0	(\$0.4)	\$56.8	\$56.8	\$59.4	\$0.0	(\$2.6)

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 (-\$0.4M) – The variance is primarily due to an increased level of support required for Performance Reporting as well as additional efforts associated with Program Controls system administration. Also, approximately a fourth of the negative variance is due to costs increased by 2430 Stevens Relocation scope.



Contract-to-Date (CTD) Cost Variance (-\$2.6M) – 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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Emergency Services

Craig Walton, Vice President

Monthly Performance Report

June 2016



*Staff Monitoring Activities During the Hanford Site FY/2016
Exercise in the Emergency Operations Center*



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INTRODUCTION

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

EMERGENCY MANAGEMENT PROGRAM (EMP)

Hanford Fiscal Year (FY) 2016 Field Exercise – On June 16, 2016, EMP personnel conducted the Hanford FY2016 Annual Field Exercise and Protective Action Drill for 200 East Area. The exercise was used to evaluate Hanford Emergency Response Organization's response to an emergency at the Tank Farm. Offsite emergency agencies from Washington and Oregon states, (including Benton, Franklin and Grant Counties) participated in conjunction with Lourdes Medical Center Pasco, WA.

Emergency Management Radiological Assistance Program (RAP) – Activities in June included the Quarterly Stabilization Sustainment Training in Seattle, WA, June 21-23, 2016 and the National Atmospheric Release Advisory Center training with Navy Region Northwest team, on June 22, 2016.

Contract Deliverable Approved – On June 15, 2016, Contract Deliverable CD0047, "*Radiological Assistance Program Response Plan for RAP; Region 8,*" was approved by the U.S. Department of Energy (DOE) Richland Operations Office (RL).

HANFORD FIRE DEPARTMENT (HFD)

HFD Appoints New Fire Marshal – Adam Moldovan has been approved by RL as the new Hanford Fire Marshal. He replaced the retiring fire marshal in June.

Hanford Fire Protection Program Assessment – The HFD received an overall rating of Satisfactory from RL for the assessment of the Hanford Fire Protection Program conducted November 30-December 7, 2015.

SAFEGUARDS AND SECURITY (SAS)

Material Control and Accountability Plan – On June 3, 2016, the Site-Wide Material Control and Accountability Plan was approved by RL and DOE Office of River Protection.



Intercontractor Safeguards and Security Program – MSA completed support service agreements for CH2M HILL Plateau Remediation Company (CHPRC) and Pacific Northwest National Laboratory (PNNL) for implementation of effective Safeguards and Security programs. The following agreements were revised and approved:

- The Memorandum of Agreement between PNNL Safeguards & Security and National Security Directorate and MSA Safeguards & Security for Protective Force and Security Operations Support, June 6, 2016.
- The Roles and Responsibilities for the Safeguards and Security Program Administrative Interface Agreement between CHPRC and MSA for Safeguards and Security Services, June 22nd.

Hanford Patrol Exercise – Hanford Patrol conducted Force-on-Force exercises during the month of June.

SAS Contract Deliverable Submitted – On June 21, 2016, Contract Deliverable CD0008 “Force-On-Force Test Results” was submitted to DOE.

LOOK AHEAD

Hanford Patrol Special Response Training –Hanford Patrol’s six week Special Response Training began in June and will conclude in July.

MAJOR ISSUES

Nothing to report.

SAFETY PERFORMANCE

Emergency Services reported three Occupational Safety and Health Administration (OSHA) recordable injuries in June. There were five first-aid events for the month of June. Four of those events occurred during training and one minor injury was received during normal operations. There were three minor vehicle accidents with no injuries.



BASELINE PERFORMANCE

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

Fund Type	June 2016					Contract-to-Date				
	BCWS	BCWP	ACWP	SV	CV	BCWS	BCWP	ACWP	SV	CV
HSPD-12 (RL-0011,RL-0012, RL-0013, RL-0030)	\$0.4	\$0.4	\$0.1	\$0.0	\$0.3	\$1.7	\$1.7	\$0.9	\$0.0	\$0.8
RL-0020 - SAS	\$3.7	\$3.7	\$4.5	\$0.0	(\$0.8)	\$390.8	\$390.8	\$402.8	\$0.0	(\$12.0)
Site-wide Services	\$1.7	\$1.7	\$2.5	\$0.0	(\$0.8)	\$178.5	\$178.5	\$188.7	\$0.0	(\$10.2)
Subtotal	\$5.8	\$5.8	\$7.1	\$0.0	(\$1.3)	\$571.0	\$571.0	\$592.4	\$0.0	(\$21.4)

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

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) (-\$1.3M) – 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 (-\$21.4M) – 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.



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Environmental, Safety, & Health

Mike Wilson, Vice President

Monthly Performance Report

June 2016

YOU are at the Intersection of MSA Safety and Environmental Programs

You are at the intersection of:
Voluntary Protection Program
Integrated Safety Management System

Our programs include:
Environmental Mgmt System
Automated Job Hazard Analysis
Employee Job Task Analysis

Understand the importance of:
Stop Work Authority
Zero Accident Council

They DON'T Work without YOU!

2015-10-01-16 Rev 0
October 25, 2015



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INTRODUCTION

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

- Worker Protection;
- Integrated & Site Wide Safety Standards;
- Safety & Health Program Support;
- 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, worker safety and health and radiation safety procedures that govern the work performed by MSA.

KEY ACCOMPLISHMENTS

MSA Receives VPP Letter of Approval – MSA received an official letter of approval from Matthew Moury, Associate Under Secretary for Environment, Health, Safety and Security for Mission Support Services (MSS) to continue in Department of Energy (DOE) Voluntary Protection Program (VPP) as a STAR participant. This endorsement stemmed from a recommendation provided by the DOE-HQ VPP Team who performed an assessment on MSS from February 23 – March 4, 2016. A STAR Certificate of Achievement and DOE-VPP flag will be provided to DOE Richland Operations Office (RL) for future presentation to MSA/MSS employees.

Key Tri-Party Agreement Dispute Extension Signed – EIS facilitated a key Tri-Party Agreement Dispute Extension agreement between the State of Washington, Department of Ecology (Ecology) and the DOE Office of River Protection (ORP). The extension, covering a dispute on tank farm barriers, allows the parties to continue discussions at the local Interagency Management Integration Team level, as opposed to elevating it to the director level.



Strides in Energy Efficiency – EIS staff submitted two projects to the Bonneville Power Administration for Energy Incentive Rebates. The first was a custom project proposal on behalf of MSA Electrical Utilities for the replacement of six transformers on site, downsizing the transformers to match their current load and improve efficiency. The second project was submitted on behalf of Washington River Protection Solutions, and was for a lighting retrofit in building 2750E. This was the second phase of the 2750E lighting retrofit, with the third to be completed in FY 2017.

Support to Long Term Stewardship 105-DR Reactor Transformers – EIS provided regulatory support to Long Term Stewardship staff by identifying the reporting requirements for three suspect-polychlorinated biphenyl (PCB) transformers discovered during the 105-DR Reactor surveillance inspection. EIS determined the transformers are exempt from PCB reporting under the Superfund or Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) as long as they remain within the area of contamination (i.e., reactor). At time of disposal, the transformers will continue to be exempt from PCB reporting under CERCLA if directly disposed at the Environmental Restoration and Disposal Facility.

Ecological Monitoring GIS Data Management – PSRP Ecological Monitoring and Compliance (EMC) staff initiated the insertion of metadata into the components of the EMC Geographic Information System (GIS) database. Metadata are “data about data” and describe the content, quality, condition, and other characteristics of data. This also includes access and use constraints, as well as the identity of, and means to communicate with, the person(s) and organization(s) associated with the data set. This effort will help streamline the delivery of GIS data requests from state and federal agencies as-well-as the transfer of EMC GIS data to the Hanford GIS data clearinghouse.

Administrative Interface Agreement for Regulatory Agency Inspections – EIS revised the Administrative Interface Agreement (AIA) among Hanford Site contractors for regulatory agency inspections. Major changes included removal of Washington Closure Hanford (WCH) due to ramp-down of their work scope and transition of remaining facilities to other Hanford Site contractors. Additionally, Bechtel National Incorporated decided to become party to the AIA for regulatory agency inspections conducted at the Waste Treatment and Immobilization Plant.



Washington State Department of Health (WDOH) Meeting on Data Verification and Validation – WDOH met with EIS and PSRP staff to discuss data verification and validation compliance with Hanford Site radiological air sampling data. The purpose of this meeting was to provide assurance to the WDOH that MSA is producing high quality and defensible data, using current techniques to ensure air sampling data is properly verified and validated, and providing “cradle to grave,” demonstrations of an air sample by using the two databases housing this data (the Automated Bar Coding of All Hanford Samples (ABCASH) and the Environmental Release Summary databases). In 2014, the WDOH began this on-going inspection of the major and minor emission units with the potential-to-emit radionuclides into the air. The meeting marks the final stages of this on-going inspection.

Wanapum TCP Debris Cleanup Coordination Meeting – PSRP Cultural and Historic Resource Program (CHRP) staff participated in a coordination meeting for the cleanup of the debris from within a Wanapum Traditional Cultural Property (TCP). This debris cleanup comes as the result of a stipulation in the Land Conveyance Memorandum of Agreement for mitigation of adverse effects to cultural resources from the Land Conveyance project. CHRP staff met with Wanapum leaders, DOE and staff from WCH to discuss the specifics on how the debris will be removed in a way that also protects existing cultural resources from further damage.

LOOK AHEAD

Hanford Radiological Instrumentation Program (HRIP) Support to Plutonium Finishing Plant (PFP) – In order to meet CH2M HILL Plateau Remediation Company’s request to calibrate and repair contaminated instruments with potential internal calibration, RSS completed preparations of necessary infrastructure to accomplish this work scope. A containment area was selected and the required radiological work permit was finalized. The program upgraded the instrument technician’s training to include Rad Worker II and additional dosimetry requirements. The work performance area was configured to handle contaminated instruments and a procedure was developed outlining the requirements for handling, repair and calibration of contaminated instruments. Additionally, to support PFP’s immediate needs, RSS reached an agreement with Pacific Northwest National Laboratory to provide interim and backup services under the current statement of work.

Support for First-Ever Closure of Hanford Tank Farm – EIS is assisting ORP in the Tri-Party Agreement (TPA) Resolution of Dispute process. The ORP is currently in dispute with Ecology over the closure process for C Tank Farm/ Waste Management Area (WMA) C. The closure of C Tank Farm/WMA-C is the first tank farm scheduled for



closure and, when closed, will be the result of years of concerted efforts and millions of dollars' worth of work. EIS is providing guidance on the TPA process, and is assisting with the drafting of the Statement of Dispute and corresponding TPA Change Control Form.

MAJOR ISSUES

Contract Special Provisions Flow-down to Subcontractors – EIS responded to a question from RL regarding whether or not subcontracting requirements in MSC-PRO-EI-20571, *Communication with Hanford Site Environmental Regulatory Agencies*, is applicable to subcontractors. EIS performed a review of the Special Provisions for Onsite Services (formerly SP-5) and concluded that additional guidance should be added to the document to specifically address the issue of subcontractors communicating directly with Hanford environmental regulatory agencies. Revision to the Special Provisions document is underway.

SAFETY PERFORMANCE

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

BASELINE PERFORMANCE

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

Fund Type	June 2016					Contract-to-Date				
	BCWS	BCWP	ACWP	SV	CV	BCWS	BCWP	ACWP	SV	CV
Site Wide Services	\$2.1	\$2.1	\$2.2	\$0.0	(\$0.1)	\$196.2	\$196.2	\$198.3	\$0.0	(\$2.1)
Subtotal	\$2.1	\$2.1	\$2.2	\$0.0	(\$0.1)	\$196.2	\$196.2	\$198.3	\$0.0	(\$2.1)

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)

Current Month Cost Variance (CV) (-\$0.1M): Within Threshold

Contract-to-Date CV (-\$2.1M) – 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 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 and Safety Professionals to respond to appropriate support workload; Worker Safety and Health needing additional Radiation Control Technicians and 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.



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MISSION SUPPORT ALLIANCE

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



Information Management

Todd Eckman, Vice President

Monthly Performance Report

June 2016



Additional Data Center Installed



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INTRODUCTION

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

INFRASTRUCTURE SYSTEMS

MSA Adds Storage Data Center Storage – MSA IM staff added additional storage shelves in a 300 Area Data Center. The additional shelves will support virtual machine (VM) growth and future VM projects.

MSA Implements New Alarm Equipment – IM Infrastructure Engineers implemented and activated the Low Voltage, High Voltage and Fuse alarms in the Telecommunications remote monitoring equipment at five telephone nodes. They are the alarms for the rectifiers in their respective nodes.

UNCLASSIFIED CYBER SECURITY

Websites Added to Blacklist – In June, MSA Unclassified Cyber Security blocked 74 websites from access by Hanford Local Area Network (HLAN) users to prevent malware and viruses from getting onto the HLAN.

SOFTWARE ENGINEERING SERVICES

New Release Installed – On June 13, 2016, IM successfully installed a new Solid Waste Information & Tracking System (SWITS) software release. Included in this release were eight software change requests involving modifications and enhancements to the user interface and reports. SWITS supports the solid waste management program in



managing radioactive mixed and hazardous solid waste treatment, storage and disposition.

New Software Installed – IM upgraded the CH2M HILL Plateau Remediation Company (CHPRC) installation of the Dynamic Object Oriented Requirements System (DOORS) software to version 9.6.1.6. DOORS provides CHPRC the ability to capture, track and manage requirements. Benefits of this upgrade to the customer include improved handling and logging of lock removals, and fixes to client-reporting tools.

Human Resources Integrated System (HRIS) Updates Complete – MSA-IM performed mass updates in the HRIS to support the 2016 general salary adjustments for Washington River Protection Solutions (WRPS) employees. MSA helped make modifications that will prevent employees from entering invalid data combinations on their W-4 tax withholding. IM performed HRIS audit table maintenance, archiving audit logs that have become too large.

Directors Reporting Tool (DiRT) Testing Complete – IM and MSA Software Engineering Services completed customer acceptance testing, documentation and all Product Readiness Review Board (PRRB) approvals for the MSA Directors Reporting Tool (DiRT) application. MSA DiRT is now in production. DiRT receives data from the Integrated Dashboard (iDASH) and feeds completed reports to the Correspondence Reporting Tool (CoRT).

CONTENT RECORDS MANAGEMENT

River Corridor Closure Contract (RCCC) Transition Continues – In June, IM processed the first batch of blue-sheet documents from CHPRC. The transition went smoothly. The team lead worked with transition contacts to help them stay within the guidelines for the next batch of documents.

Team Responds to Vapor Litigation Request – The MSA Integrated Document Management System (IDMS) Functional team worked with the U.S. Department of Energy (DOE) Richland Operations Office (RL) records officer, and DOE Office of River Protection (ORP), and WRPS personnel to test additional IDMS searches for keywords identified for the recent Vapor Litigation request.

LOOK AHEAD

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 early fiscal year 2017.



DOE Operations Key Performance Goals Dashboard Revision – IM is working on the development of the Fiscal Year Work Plan (FYWP) 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 FYWP metrics for the Key Performance Goals.

MAJOR ISSUES

None to report.

SAFETY PERFORMANCE

There were no Occupational Safety and Health Administration (OSHA) recordable injuries reported in June. There were no first-aid injuries and no vehicle accidents were reported during the month.

BASELINE PERFORMANCE

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

Fund Types	June 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	\$11.9	\$11.9	\$14.6	\$0.0	(\$2.7)
RL-0040 - Nuc. Fac. D&D - Remainder Hanford	\$0.0	\$0.0	(\$0.1)	\$0.0	\$0.1	\$2.4	\$2.4	\$1.4	\$0.0	\$1.0
Site-Wide Services	\$2.5	\$2.5	\$1.6	\$0.0	\$0.9	\$254.9	\$254.9	\$248.5	\$0.0	\$6.4
Subtotal	\$2.7	\$2.7	\$1.7	\$0.0	\$1.0	\$269.2	\$269.2	\$264.5	\$0.0	\$4.7

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 (CV) (+\$0.1M)

CM RL-40 Cost Variance (+0.1M) – The current month positive CV is due to more sales of general supplies inventory than purchases.



CM Site-Wide Services (SWS) (+\$0.9) – 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 (+\$4.7M) – 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.

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 (+\$1.0M) – 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 (+\$6.4M) – 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.

One final note: IM is beginning to realize the cost savings associated with the self-performance of much of the IT scope.

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Portfolio Management

Steve Young, Vice President

Monthly Performance Report

June 2016



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INTRODUCTION

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

2016 Hanford Lifecycle Scope, Schedule and Cost Report – After reviewing Tri-Party Agreement (TPA) Change Notice M-036-01 (that would change the Lifecycle Report due date from annual to every five years, or earlier if there is a significant baseline change), was reviewed by the State of Washington, Department of Ecology (Ecology). As a result of this review, a counter proposal has been submitted to RL. The counter proposal would keep the Lifecycle Report annual due date, but would allow RL to request eliminating specific reports for good cause. The counter proposal is being reviewed by RL management. On June 16, 2016 the regulators stated that the next Lifecycle Report needs to include changes due to the amended Consent Decree and other recent TPA milestone changes. RL noted that it may be 2018 or later before those changes can be incorporated into the updated lifecycle costs. The Tri-Party agencies all acknowledged that those changes cannot be included in time to submit a 2017 Lifecycle Report. MSA anticipates that RL will issue a contract modification to implement the revised Lifecycle Report schedule.

Analytical Tools – Development and internal testing on the RL Integrated Management System (RIMS) were completed in June, and the customer was given access to the test environment for acceptance testing. Per the customer's request, a presentation was created to highlight the purpose and changes of the new system for the RIMS system stewards. Further enhancements were then requested, and development resumed with a target completion date of August 11, 2016.

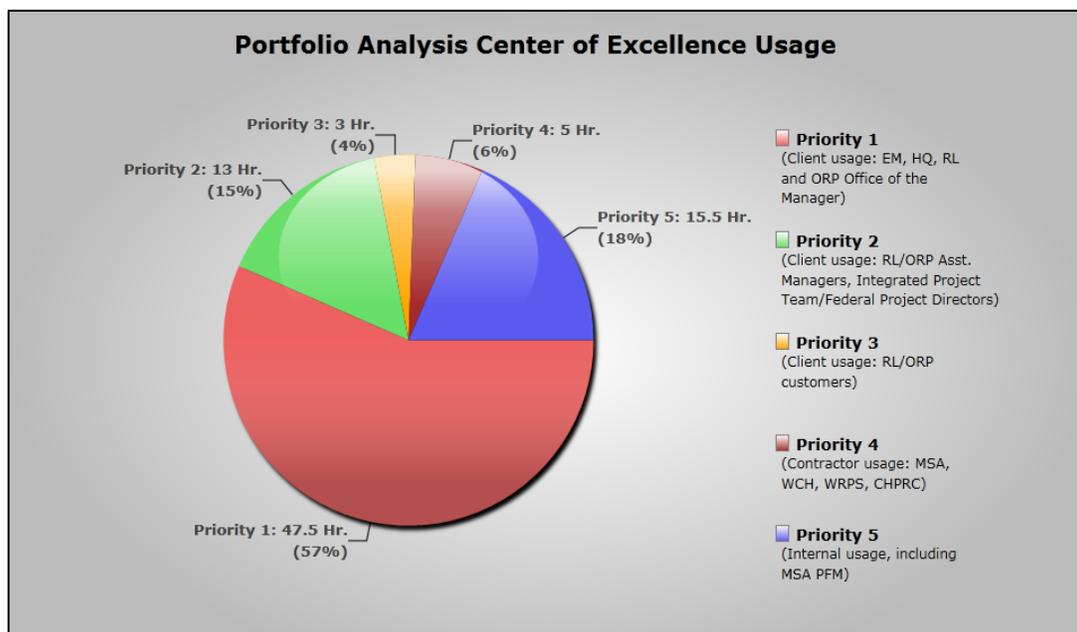


PFM received a request for additional information from RL in support of a DOE Environmental Management Headquarters (EM HQ) question about the Technical Improvements dashboard and tracking system. EM HQ is interested in using the Technical Improvements tools and process for the entire EM office.

Budget Formulation – PFM received additional changes from RL Projects, and incorporated those changes into both the DOE EM Budget Prioritization Module and RL Ranked Integrated Prioritization List for fiscal years 2018–2022. The changes made will continue to ensure consistent data between both systems and enable accurate forecasting and planning.

Dashboards – PFM received specifications from the customer in June for the Contractor Feedback Improvement Tool (FIT) dashboard. Database development has begun, and while waiting for further feedback from the customer to finalize, a proposed design for the Executive Summary function is underway. This dashboard will provide the overall status and health of the RL Feedback and Improvement process by sorting and displaying pertinent data captured in the FIT.

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 June are displayed in the chart below:



LOOK AHEAD



Decision Management Activities – Four Decision Summary Forms (DSFs) are being processed through the Decision Management (DM) Dashboard. Two are currently out for review. One DSF is for the Integrated Support Team (IST), and one DSF is out for disposition to the RL Decision Management (DM) Board members for approval. Both of these DSFs will be presented to the RL Manager at the DM Board being held on July 6, 2016. The other two DSFs are currently under development. This process enables DOE-RL to integrate the needs of the Hanford Prime Contractors.

MAJOR ISSUES

Nothing to report.

SAFETY PERFORMANCE

No Occupational Safety and Health Administration (OSHA) Recordable injury or First Aid injury cases were reported for PFM in June 2016.

BASELINE PERFORMANCE:

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

Fund Type	June 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	\$0.4	\$0.4	\$0.3	\$0.0	\$0.1	\$48.9	\$48.9	\$44.8	\$0.0	\$4.1
Subtotal	\$0.4	\$0.4	\$0.3	\$0.0	\$0.1	\$50.8	\$50.8	\$46.4	\$0.0	\$4.4

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 positive current month cost variance is due to less Portfolio Management 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) CV (+\$4.4M) – The positive CTD CV is primarily due to less Portfolio Management 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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President's Office

W. K. Johnson, President

R. E. Wilkinson, Chief Operations Officer

Monthly Performance Report

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INTRODUCTION

The President's Office 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 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

PERFORMANCE OVERSIGHT

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

- Assessment NSA-16-0049, "WAI Hanford Laboratory Environmental Management System Program Implementation," was completed. A draft report was provided to responsible management for review and comment.
- A joint assessment of the MSA Public Safety and Resource Protection (PSRP) Program was completed.



- IA-16-0055, “Effectiveness Review of Corrective Actions Associated with SCBA Air Cylinder Charging” was issued.
- IA-16-0013, “Industrial Hygiene Equipment Services,” was issued.
- Performance of IA-16-0026, “Effectiveness of Corrective Actions Associated with Portable Fire Extinguishers,” was completed. All associated actions were determined to be in place and functional, and implementation was determined to be effective.

Quality Assurance

AVS Activities – MSA’s acquisitions verification service activities for CH2M HILL Plateau Remediation Company (CHPRC) and Washington River Protection Solutions LLC (WRPS) for June were:

2016 ACTIVITIES	CHPRC CURRENT MONTH TOTAL	WRPS CURRENT MONTH TOTAL	TOTAL-TO-DATE
SOURCE INSPECTIONS	6	9	59
ANNUAL DESK REVIEWS	-	-	8
SUPPLIER EVALUATIONS/AUDITS	1	-	7
FIRST ARTICLE INSPECTION	1	-	1

RISK MANAGEMENT

Reliability Project Risk Elicitation and Review – Risk elicitation and reviews were performed for the following Reliability Projects: L-525, *24in Line Replacement 200E*, L-840, *24in Line Replacement 200W*, and L-834, *Filter Plant Flocculator Sys Upgrade*. The current risk registers for each of these projects were reviewed with the outgoing and incoming Project Managers, to support the transition of this scope due to staffing changes.

Performed review of the current risk register for Project L-830, *Filter Plant Filter Ctrl Sys Upgrade*, with the Project Manager. Updates were incorporated in the risk register, and several risks were proposed for closure at the next Risk Management Board meeting. A path forward for performing risk elicitations for Project L-612, *230kV Transmission System Reconditioning and Sustainability Repairs*, and Project L-868, *Raw Water Fire Protection Loop for LAWPS*, was determined.

Mission Risk Elicitation and Review - A review of the current risk register was performed with Information Management personnel. Updates were incorporated in the risk register, and one risk will be proposed for closure at the next Risk Management



Board meeting. The new Risk Analyst was introduced to the Emergency Services Vice President, and a risk review of the current register was performed. No updates were needed; however, several potential new risks were discussed, and will be evaluated and characterized as needed.

Request for Services (RFS) Proposal Support – A risk review of one RFS proposal for providing Project Management, Environmental Assessment, and Biological Assessment Support to a RL subcontractor who will be performing a transmission line rebuild project on the Hanford site was completed. This proposal had appropriate scope assumptions, and no expected risk impacts.

EXTERNAL AFFAIRS

10 CFR 850 Beryllium Public Hearing – External Affairs staff supported RL with the 10 CFR 850 Beryllium Public Hearing by securing the facility, handling registration and coordinating with members of the public. This hearing addressed the amendments of the Chronic Beryllium Disease Prevention Program that the DOE is proposing.

Hanford Advisory Board (HAB) Meeting: June 2016 - MSA Communications drafted RL's agency update for the June HAB Meeting. MSA staff worked with other Hanford cleanup contractors with RL project personnel to collect material for the update. Activities included working closely with the presenter, RL Manager Stacy Charboneau, on talking points to support the update. To provide better visibility to the public, MSA Communications staff set-up an additional screen/projector for the back of the meeting room and also provided copies of the presentation for members of the public.

HAB River and Plateau Committee Meeting/Tour - MSA assisted in the preparation and execution of the HAB River and Plateau Committee tour of the Hanford Site in June. The tour included stops at the 300 Area uranium sequestration test site, Environmental Restoration Disposal Facility, and the Plutonium Finishing Plant.

Hanford Site Cleanup Tours Update - MSA conducted Tours 6 through 11 for the 2016 Hanford Site Cleanup tours during the month of June. MSA has hosted 181 visitors to date in the current tour season. In addition, MSA organized five special request tours for DOE in June.



LOOK AHEAD

None to report.

MAJOR ISSUES

None to report.

SAFETY PERFORMANCE

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

BASELINE PERFORMANCE

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

Fund Type	June 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	\$60.3	\$60.3	\$50.2	\$0.0	\$10.1
Subtotal	\$0.7	\$0.7	\$0.6	\$0.0	\$0.1	\$60.3	\$60.3	\$50.2	\$0.0	\$10.1

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. The approved funding level and Integrated Investment Portfolio (IIP) are significantly less than the contract baseline, which is due to the re-organization of the Central Engineering group to separate MSA Engineering from the Reliability Projects.

Contract-to-Date (CTD) Cost Variance (+\$10.1M) – 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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Public Works

Daniel G. Saucedo, Acting Vice President

Monthly Performance Report

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Restoration Work Begins on White Bluffs Bank Building



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INTRODUCTION

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: Projects and Strategic Planning (Infrastructure and Services Alignment Plan, Ten-Year Site Plan); Site Infrastructure Services (Electrical Utilities (EU), Water and Sewer Utilities (W&SU), B Reactor, Roads and Grounds, and Biological Controls); Facilities Management (Work Management, Maintenance Management, Projects, 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

White Bluffs Bank Rehabilitation Project – Masonry reconstruction of the White Bluffs Bank has begun. For the work to begin, the structure has to be encapsulated and a Heating, ventilation, and air conditioning (HVAC) unit installed to keep the enclosure temperature controlled and meet the mortar and grout construction specification requirements. Many components of the building have had to be meticulously deconstructed: roof, trusses, interior walls, floor, joists, and existing masonry walls that were deemed unrepairable. However, much of the original materials were saved to be used during reconstruction, and the original millwork, doors, and windows will be restored for reinstallation. Additionally, a cast iron surround for the vault door is being fabricated for installation. An exact match found in a New York state bank will be used to replicate the original.



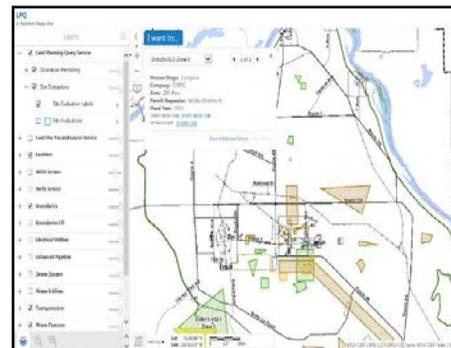
White Bluffs Bank encapsulated for masonry reconstruction

Development of the Land Planning Query (LPQ)

Portal – Real Estate Services (RES) gave a summary level briefing at the request of the U.S. Department of Energy (DOE) Richland Operations Office (RL) Waste Management and Decontamination and

Decommissioning Division. The briefing addressed RES data integration strategies and outlined key software application initiatives to establish cost effective, repeatable, and high quality facility and land management capabilities. The briefing highlighted the newest RES application, the Land Planning Query (LPQ)

Portal. The LPQ is a powerful automation portal allowing users to query a larger number of facility and land records by standard query/search field capabilities, as well as new geo-reference Geographic Information System (GIS) searches.



Screenshot from Land Planning Query Portal

Interior Monitoring of Cocooned Reactors – MSA Long-Term Stewardship (LTS) obtained approval from RL, the Environmental Protection Agency, and the State of Washington, Department of Ecology to eliminate the interior monitoring of temperature and moisture at the six cocooned reactors managed by the LTS program. Additionally, they approved the LTS recommendation to modify the inspection schedule from a 5-year interval to a 10-year interval. MSA LTS prepared a cost savings profile for this achievement that documents a nearly \$5 million dollar cost avoidance in lifecycle inspections for the reactors.

2607-E6 Lift Station Repair – With the assistance of Maintenance Services personnel, W&SU retrofitted the 2607-E6 sewer lift station with two new pumps and a set of mechanical floats. Due to the aging sewer infrastructure across the site, this was a critical project to ensure sewer collection services would remain uninterrupted for various facilities in the 200 East (200E) area. MSA will continue to monitor, maintain, and repair the sanitary sewer systems at Hanford in order to provide the necessary wastewater services supporting cleanup missions of the Hanford Site.



Pumps and mechanical floats installed at Sewer Lift Station

283E Records Inventory and Disposition – W&SU is wrapping up a records and inventory disposition campaign at the 283E Filter Plant. Documents dating back to the early 1990s, and old photos that were found, some dating back to the 1960s, were turned over to Curation Services. The completion of this project clears the way for Maintenance personnel to easily go in and remove old heaters that were at the 283E Plant.

Electrical Lines Rebuilt – Because high-voltage electrical circuits from the A-8 transformer substation to the 200E Area needed upgrading, EU, as part of Project L-780, *200E 13.8kV ED Sys Mods*, built a more direct route for the electrical lines feeding the Central Plateau. These four newly rebuilt circuits are streamlined feeds providing greater capacity and reliability while reducing the physical footprint. In parallel with these upgrades, EU will install protective equipment such as lightning arrestors to mitigate wildland fires, as well as other protective devices to minimize downtime to customers. As new projects start, EU will continue to enhance Tank Farms and Waste Treatment Plant operations capacity.



New electrical lines streamline feeds to the Central Plateau

283 West (283W) Variable Frequency Drive Acceptance Testing – W&SU is performing several critical infrastructure upgrades at the 283W Water Treatment Facility in order to improve the system’s reliability. As part of these upgrades, W&SU engineers and operators performed acceptance testing on two variable frequency drive units installed on the flocculator motors. This is a major upgrade to the plant, allowing operators to adjust the speed of paddles in the settling basin, which is necessary for the production of potable water. Two additional motors remain to be installed to complete the project.



Frequency Drive Units installed at water treatment facility

Portable Shower Trailer and Eye Wash Station Installed – To enhance the reliability and operability of the 283W Filter Plant, W&SU is performing several infrastructure upgrade projects to ensure continuing production of potable water to support Hanford cleanup activities. As a safety measure, W&SU has placed a new portable safety shower and eye wash trailer outside the plant for the duration of these crucial projects.



Workers install new safety shower and eye wash trailer

283W Water Line Repair – On June 24, 2016 MSA W&SU operators responded to a water line break outside the 283W filter plant. The operators on duty were able to slow down the flow of water while maintaining constant pressure to ensure no water infiltrated the potable water line until the area was excavated. MSA Maintenance personnel began excavation and repair activities, while W&SU continued to provide uninterrupted water service to the site. The line was repaired and returned to service.



Crews repair water line outside 283W filter plant

Screens Installed on 105-F Cocooned Reactor – MSA completed installation of stainless steel screen material over the small gaps in the siding at the 105-F cocooned reactor. The screens will minimize future intrusions into the structure by birds and bats. The work will continue at other cocooned reactors through the summer.



Screen material installed over gaps on cocooned reactor

Inspection of 105-DR Cocooned Reactor – On June 27, 2016, MSA Long-Term Stewardship performed an interior and exterior inspection of the 105-DR cocooned reactor. Initial results indicate the cocooned structure is holding up well to the elements. While numerous bats were found inside the structure, no other issues were identified. 105-DR will be added to the current project to screen off gaps and openings to minimize future intrusions. That work will be completed in the fall after the bats have migrated out of the area.

LOOK AHEAD

Nothing to report

MAJOR ISSUES

Nothing to report

SAFETY PERFORMANCE

During the month of June, there were no Occupational Safety and Health Administration Recordable injuries within PW. There were two minor First-Aid cases, one involving an employee who rolled an ankle in a gravel parking lot, and another employee who received a nose abrasion after striking a cabinet corner. There were no vehicle accidents reported.



BASELINE PERFORMANCE

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

Fund Type	June 2016					Contract-to-Date				
	BCWS	BCWP	ACWP	SV	CV	BCWS	BCWP	ACWP	SV	CV
ORP-0014 - Rad Lqd Tk Wst Stab & Disp Ops	\$0.9	\$0.4	\$0.3	(\$0.5)	\$0.1	\$12.0	\$13.5	\$11.5	\$1.5	\$2.0
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	(\$1.1)	\$1.6	\$1.2	\$2.7	\$0.4	\$57.6	\$56.8	\$61.3	(\$0.8)	(\$4.5)
RL-0041 - Nuc. Fac. D&D - RC Closure Proj	\$0.2	\$0.2	\$0.4	\$0.0	(\$0.2)	\$17.9	\$17.0	\$16.3	(\$0.9)	\$0.7
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)	\$2.4	\$2.4	\$4.3	\$0.0	(\$1.9)	\$264.2	\$264.2	\$304.9	\$0.0	(\$40.7)
Subtotal	\$2.4	\$4.6	\$6.2	\$2.2	(\$1.6)	\$353.0	\$352.8	\$396.0	(\$0.2)	(\$43.2)

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) – (+\$2.2M)

ORP-14 Current Month SV (-\$0.5M) – 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) (-\$0.5M).

RL-40 Current Month SV (+\$2.7M) – Project L-525, 24in Line Replacement from 2901Y to 200E CM SV is due to being behind schedule on subcontractor procurement for construction. No impact is anticipated to schedule, still forecasting early completion of construction field work. (-\$0.2M); The Project L-840, 24in Line Replacement from 2901Y to 200W CM SV is due to initiating pipe installation ahead of schedule (+\$0.4M); 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-846, *242A Condenser Water Cooling Tower* CM SV results from a point adjustment due to implementation of TR RL40RPT-16-012 when the project was cancelled. (+\$0.4M); Project L-853, *200E Sewer Flow Equalization Facility* CM SV is due to a point adjustment from BCR VRL40RP-16-013. (+\$0.2M); Project L-854, *200E Sewer Consolidations* CM SV is due to a point adjustment from BCR VRL40RP-16-014. (+\$0.1M); Project L-867, *North Loop Transmission Line Road Access* CM SV is due to a point adjustment from BCR VRL40RP-16-019 (+\$0.2M); 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); Project L-612, *230kV Trans Sys Recon and Sustain Repairs* CM SV is due to a point adjustment from BCR (+\$0.4M); Project L-777, *Overlay Rt 4S, 618-10 Wst Site to HR Rd* CM SV is due to a point adjustment from BCR VRL40RP-16-018 (+\$0.9M); and Project L-775, *Overlay Rt 4S, Canton Ave to Y Barricade* CM SV is due to a point adjustment from BCR VRL40RP-16-016 (+\$0.6M). Total variances in other RL-40 accounts are individually below threshold.

PW Current Month Cost Variance (CV) (-\$1.6M)

ORP-14 Current Month CV (+\$0.1M) – The Project L-780, *200E 13.8kV Electrical Distribution System Modifications*, current month variance is due to construction being performed for less than planned. (+\$0.1M).

RL-20, RL-44, & RL-100 Current Month CV – Within Threshold.

RL-40 CM CV (+\$0.4M) – Pre-Manhattan Project Facilities CM CV is due to a material charging error which will be corrected in the next accounting period. (-\$0.1M); Project L-840, *24in Line Replacement from 2901Y to 200W*, cost variance is due to award of construction subcontract under estimate. (+\$0.4M); Project L-830, *Filter Plant Filter Ctrl Sys Upgrade* CM CV is due to increased cost for work package planning and preparation work for scaffolding/monorail. In addition, rework for design errors has resulted in increased engineering and procurement cost. (-\$0.1M); and 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 (+\$0.2M). Total variances in other RL-40 accounts are individually below threshold.

RL-41 Current Month CV (-\$0.2M) – White Bluffs Bank CM CV is due to rework required on the submittal process after replacement of the masonry contractor.



SWS CM CV (-\$1.9M) – Increased staffing levels for maintenance activities were required to keep W&SU (-\$1.2M), 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 (-\$0.1M). Variances in other Site Wide Services accounts total (-\$0.2M) and are individually below threshold.

PW Contract-to-Date (CTD) SV (-\$0.2M)

ORP-14 CTD SV (+\$1.5M) – 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 (-\$0.8M) – The L-840, *24in EW Line Replacement 2901Y - 200W*, CTD SV is due to completing excavation and pipe installation ahead of schedule. (+\$0.5M); and Project L-830, *Filter Plant Filter Ctrl Sys Upgrade*, negative SV is due to engineering design completing behind schedule impacting successor activities, delays in material delivery, and a high degree of complexity within work package planning. (-\$0.5M). Several other RL-40 accounts have CTD schedule variances, which collectively total (-\$0.8M), 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. The current anticipated completion date is just after the beginning of fiscal 2017.

PW Contract-to-Date (CTD) CV (-\$43.2M) – 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 (+\$2.0M) – 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 +\$0.7M, but are individually below threshold.

RL-40 CTD CV (-\$4.5M) – The negative variance includes: Project L-525, *24in Line Replacement from 2901Y to 200E*, CTD CV is 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 CV 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 (+\$1.3M). 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 (+\$0.7M) – The B Reactor CTD CV results from a labor underrun due to an employee on short-term disability during the current fiscal year, and lower than planned labor and subcontract support.

SWS CTD CV (-\$40.7M) Variances included:

EU – Electrical Services is significantly divergent from the baseline. The CTD variance (-\$19.9M) 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 (-\$26.9M) 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 (-\$2.7M); Land and Facilities Management (+\$4.3M); NEPA Natural Gas Pipeline (+\$0.6M); and SWS Studies, Estimates, & Planning (-\$0.5M).

Variances totaling less than (+\$0.2M) exist in other SWS areas which are individually below threshold.

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Site Services & Interface Management

P.K. Brockman, Vice President

Monthly Performance Report June 2016



*Piping installed in support
of backwash pump at 283
West facility*





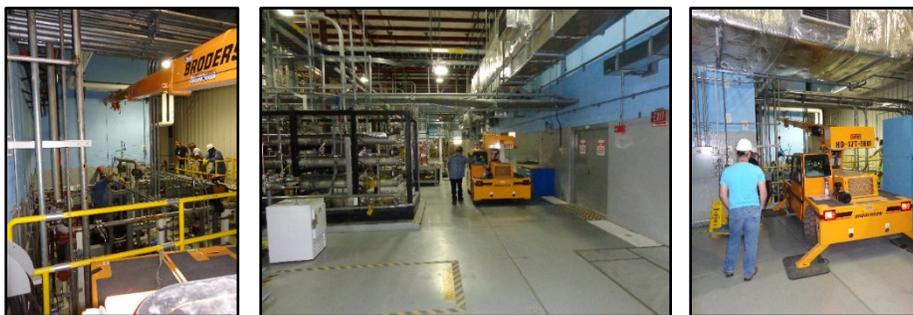
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INTRODUCTION

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

Effluent Treatment Facility Support – The Effluent Treatment Facility (ETF), operated by Washington River Protection Services (WRPS), requested support from the C&R Services, Tank Farms “WRPS” support group, to lift the transfer pump #60H-P-2B inside the 2025E building. The pump is part of a system that transfers clean export water out of the ETF. Due to the congested area inside the building, the conventional means of accomplishing this type of lift were impractical. The solution was to use a 4 1/2-ton carry deck crane, special procured for its small size, and maneuverability. The crew was able to set up within 22 feet of the pump.



Transfer pump lifted inside 2025E building

Installation of Bird Screens – Maintenance Services continues to install bird screens on the cocooned reactors that are part of the Long-Term Stewardship program within MSA. During the month of June, Maintenance Services completed installation of the screens on two of the five cocooned reactors, preventing migratory birds from nesting inside the reactors.



Metal screens installed on cocooned C-Reactor

200 West (W) Laydown Yard – On June 3 - 4, 2016, Maintenance Services, with support from C&R and Motor Carrier Services, worked in the laydown yard in the 200W shed. Removing debris in support of the installation of the new waterline.



Debris and excess equipment removed from laydown yard

Road Striping Campaign – On June 29, 2016, MSA kicked off its annual road striping campaign. As part of this year's campaign, an environmentally sustainable water-based road striping paint is being used for all road striping and stenciling work done at the Hanford Site. This effort required the road striper to be thoroughly cleaned of all previously used oil-based materials. Road maintenance is essential to providing safe driving conditions on the Hanford site.



Road striper cleaned and prepared for road striping activities

Backwash Pump Project at 283W – In June, Maintenance Services resumed work on activities associated with the Backwash Pump Project at the 283W facility for Water Utilities. The work included installation of required shoring scaffolding systems and

trolleys, and mock-up of the backwash pump into its final location so that piping dimensions could be taken for planned fabrication activities. On June 17, 2016, the new 14-inch discharge piping for backwash pump #2 was successfully installed. Installation of the discharge piping will allow the plant to backwash filters after sampling is complete. On June 18, 2016, Cement Finishers installed the form and poured concrete for the base/foundation that will support the backwash pump in the 283W facility. On June 24, 2016, crews set the new backwash pump at 283W, discharge pump #2, and installed suction piping for the pump. Upgrading the 283W Water Treatment Facility will help ensure ongoing production of safe and compliant drinking water for the Hanford Site.



New backwash pump set in place and discharge piping installed

283E Water Treatment Plant – On June 10 -11, 2016, Maintenance Services removed steam heaters and hangers that are no longer used at the 283E Water Treatment Plant. This high-priority job eliminated safety hazards and supported cleanup efforts.

Water Line Repair at 283W – From June 24 – 29, 2016, MSA Teamsters and Heavy Equipment Operators (HEOs) provided support to Water Utilities personnel for an emergency water line repair at the 283W filter plant. The HEOs and teamsters, along with support from C&R, Radiation Protection, Fitters, and Industrial Hygiene, safely and successfully excavated, repaired, and backfilled the water line.



Repairing damaged 283W water line



Waste Treatment Plant Water Demand Forecast for Water Master Plan – Interface Management personnel assisted MSA Water and Sewer Utilities in collecting Waste Treatment Plant (WTP) water demand forecasts from Bechtel National Inc. (BNI), which will be included in the MSA Water Master Plan. This information is valuable to Water and Sewer Utilities in planning for the appropriate infrastructure upgrades to support the Direct-Feed Low Activity Waste process and WTP in the future.

Urgent Heating, Ventilation, and Air Conditioning (HVAC) Repair Work Package – The CH2M HILL Plateau Remediation Company (CHPRC) Facility Maintenance group contacted MSA Interface Management on June 27, 2016, and requested support in expediting an urgent work package for repair of HVAC units located at the Plutonium Finishing Plant (PFP) facility complex. Currently, CHPRC is relocating critical equipment out of PFP (i.e., respirators, tool cribs), and only a portion of the new storage facilities is air conditioned, which is critical for the respirator equipment. MSA Interface Management is working closely with the MSA Refrigeration Equipment Services group to monitor this work package.

LOOK AHEAD

Planned Site Electrical Outages –Interface Management and MSA Projects met with WRPS on June 6, 2016, to discuss upcoming planned electrical outages which are needed to perform preventive maintenance activities (i.e., repairs and upgrades) on the Site electrical distribution system. Locations of electrical outages include Gable Mountain, the 100 Area, and locations in the 200W Area, which will impact WRPS facilities such as the Effluent Treatment Facility and C Farm. MSA Interface Management and MSA Projects are working with WRPS to select dates for the planned outages in order to avoid impacting WRPS's ongoing tank farm campaigns.

MAJOR ISSUES

None to report.

SAFETY PERFORMANCE

During the month of June, there were no Administration (OSHA) Recordable injuries with SS&IM. There were four minor first aid cases reported: an employee experienced knee pain after stepping into a depression, an employee twisted an ankle while walking, an employee was hit in the jaw while tightening tie-down straps, and an employee injured a thigh while stepping into a vehicle. There was one minor vehicle accident involving an employee who backed into a light pole, damaging the bumper.



BASELINE PERFORMANCE

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

Fund Type	June 2016					Contract-to-Date				
	BCWS	BCWP	ACWP	SV	CV	BCWS	BCWP	ACWP	SV	CV
Site-wide Services	\$0.2	\$0.2	\$0.2	\$0.0	\$0.0	\$33.8	\$33.8	\$36.8	\$0.0	(\$3.0)
Subtotal	\$0.2	\$0.2	\$0.2	\$0.0	\$0.0	\$33.8	\$33.8	\$36.8	\$0.0	(\$3.0)

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

Note: Above cost and performance data reflect Site-Wide Services scope for SS&IM reported under the Performance Measurement Baseline (PMB). A large portion of the organization’s monthly work scope and listed accomplishments are handled under the Non-PMB via the Usage Based Services (UBS) and Direct Labor Adder (DLA) funding sources. The final costs of these UBS and DLA pools reside with the end customer, although the work scope and accomplishments listed are completed with the SS&IM labor force and management team.

BASELINE PERFORMANCE VARIANCE

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

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 Integrated infrastructure planning 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.



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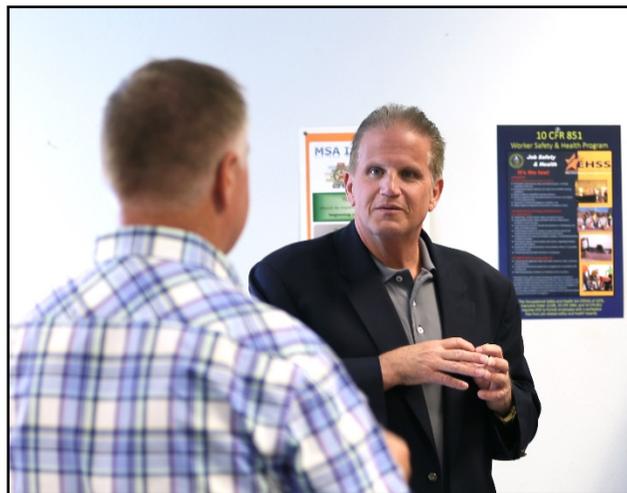


Training & Conduct of Operations

Steve Metzger, Vice President

Monthly Performance Report

June 2016



Metal Trades Department President Jimmy Hart learns about the worker-trainer program from Hanford Atomic Metal Trades Council's Randy Coleman



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INTRODUCTION

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 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

HAMMER Tour by Metal Trades Department President – On June 29, 2016, HAMMER hosted a tour with the newly elected Metal Trades Department President, Jimmy Hart. Also in attendance was DOE Richland Operations (RL’s) Chief of Staff, Erik Olds. Mr. Hart was very interested in the uniqueness of HAMMER, its training model, the Department’s mission with the DOE Training Institute (DTI), and HAMMER’s work-for-others capabilities.

MSA Field Work Supervisor Program - A significant revision to update the MSA Field Work Supervisor (FWS) training and qualification program was completed by the MSA Central Training Organization. This revision to the program addressed many identified areas for improvement, and also supports the initiative of accelerated qualification by field personnel.



HAMMER Director Attends Labor Roundtable – On June 22, 2016, RL Assistant Manager for Mission Support Joe Franco and HAMMER Director Karen McGinnis attended the U.S. Secretary of Energy’s Labor Roundtable. Secretary of Energy Moniz acknowledged the work of HAMMER and DTI.

Student Numbers Remain High Through June – Student numbers at HAMMER remained high through June. HAMMER provided 4,491 student-days of training during the month. While this represents a slight decline from the record numbers in March and May 2016, it is a nine percent increase over June 2015 and well above the FY 2014 and FY 2015 averages. HAMMER does not foresee a significant decline in student numbers in the near future because the facility is booked to near capacity through the summer and into the fall.

LOOK AHEAD

Secretary of Energy Visit to HAMMER – U.S. Secretary of Energy, Ernest Moniz, has plans to visit HAMMER in mid-August.

Hanford Site Wide Required Reading Application Set to Launch - On Wednesday, July 6, 2016 a new application will be implemented to manage required reading assignments for MSA, CHPRC, WRPS, Wastren, and their subcontractors. This new site standard will replace all existing required reading programs.

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 June 2016.



BASELINE PERFORMANCE

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

Fund Type	June 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)	\$42.9	\$42.9	\$49.3	\$0.0	(\$6.4)
Site-Wide Services	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.2	\$0.2	\$0.2	\$0.0	\$0.0
Subtotal	\$0.2	\$0.2	\$0.5	\$0.0	(\$0.3)	\$43.1	\$43.1	\$49.5	\$0.0	(\$6.4)

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 (-\$6.4M) – 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.



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