

MISSION SUPPORT ALLIANCE

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



Monthly Performance Report February 2017

W. K. Johnson
President

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



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ACRONYMS LISTING



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
HR	Human Resources
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

ACRONYMS LISTING



MSC	Mission Support Contract
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
WRPS	Washington River Protection Solutions, LLC



1.0 INTRODUCTION

The Executive Overview section is intended to provide an executive-level performance overview. Included herein are descriptions of the Mission Support Alliance, LLC (MSA) significant accomplishments considered to have made the greatest contribution toward safe, environmentally sound, and cost-effective, mission-oriented services; progress against the contract with U.S. Department of Energy (DOE) Richland Operations Office (RL); project cost summary analysis; and overviews of safety. Unless otherwise noted, all data provided is through February 2017.

1.1 KEY ACCOMPLISHMENTS

Completion of Mandatory Smart Card Login – As of February 1, 2017, all remaining standard user accounts were set to require smart card authentication to log on to the Hanford Local Area Network (HLAN). An exemption list will continue to be maintained and reviewed for those users requiring remote access with special device needs, offsite users waiting to obtain Logical Access Control Systems (LACS) cards or users requiring multiple LACS cards. This effort brings Hanford into compliance with the Multi-Factor Authentication initiative. The result is a more secure HLAN infrastructure, with significantly enhanced protection of the information processed and stored within.

Central Planning – MSA Training and Conduct of Operations (T&CO) launched the Work Management & Planning Share Point¹ site. This site includes a template for package instructions, procedures and forms, points of contact, communications of safety, hazard recognition, and training updates. In addition, T&CO Central Planning staff met with the Radiological Controls Organization to discuss future training needs for the implementation of the Sentinel² Access Control module. Sentinel Access Control is a commercial-off-the-shelf program used to perform access control functions throughout the nuclear industry. Sentinel will eventually replace the current Access Control Entry System. Additional evaluations will be performed when the program becomes available for testing.

Emergency Operations Center (EOC) Hanford Hotline Changes – The Network Operations Center (NOC) developed a process to transfer the Hanford Hotline to a secondary telephone number while the EOC updates Hotline messages. Previously, while the EOC was making an update, Hotline callers would receive a fast-busy signal. The new process now allows the NOC to transfer the Hotline to a message stating that

¹ Share Point is a management and storage system application of the Microsoft Corporation, Redmond, WA

² Sentinel is a product of PTI Systems, of League City, TX

the Hotline is currently being updated. When the EOC updates are complete, the NOC is able to transfer callers back to reach the updated EOC message. This new process will help eliminate confusion for Hanford Hotline callers.

DOE Office of River Protection (ORP) and RL Public Outreach Media Expansion – As an added source of information regarding public involvement opportunities and activities, MSA collaborated with RL and ORP to draft and submit three articles to the *TriCities Journal of Business* which will appear in the March 2017 edition. Topics include the January Hanford Advisory Board meetings, public comment periods and future public meetings.

Self-Contained Breathing Apparatus (SCBA) Re-Certification – Hanford Fire Department (HFD) personnel completed the inspection, testing, and repair of approximately 300 SCBA regulator/rack units for Washington River Protection Solutions (WRPS). As a result of actions performed by the HFD Support Services group, these actions were completed in less than 15 days. This outstanding effort allowed WRPS to minimize impacts to important work which would have resulted from SCBA unavailability.

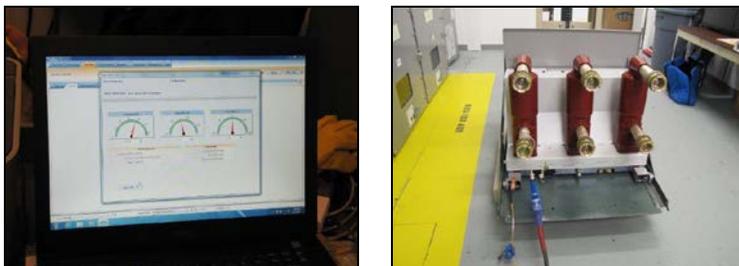
Up-Fitting of New Patrol Vehicles – The 2016 vehicle replacement cycle included 19 new patrol vehicles. This extremely large number created a sizable challenge for Fleet Services as crews worked to up-fit and return the vehicles to service, thereby satisfying performance and safety concerns.



Up-fitting patrol vehicles

Substation Testing – In February, MSA Electrical Utilities (EU) staff completed a six-year campaign of testing and inspecting equipment at the A-9 Substation, including potential transformers (PTs). In this process, maintenance actions are identified and performed during the associated outage. The enhanced testing also included circuit breakers, 13.8kV medium-voltage breaker PTs, and the substation's own service transformer. EU performed these tests with current industry testing tools and

methodologies to ensure proper settings and operation, thereby maximizing substation reliability.



Testing electrical equipment at A-9 Substation

2017 Footprint Reduction – As part of the Fiscal Year (FY) 2017 footprint reduction effort, EU was tasked to remove a ¾-mile section of the 13.8kV distribution line in the 100 Area. A considerable effort was required to support the environmental and ecological authorizations in these culturally sensitive areas. This work activity received extensive management planning, field walkdowns, waste disposal planning, material handling, and training. The work launched on January 25, 2017, and fieldwork was completed eight days later on February 2, 2017. This important task has returned lands back to their original natural appearance and condition, and all materials were removed to a Radioactive Material Area and staged for disposal at the Environmental Restoration Disposal Facility.

Electrical Line Removal – In February, EU workers removed crossarms and hardware from 26 poles along an 11-mile stretch of road. The poles were left in a configuration that will allow the poles to be removed with equipment that would cause the least land disturbance. Retrieval will take place at a later date when field conditions are acceptable.



Crossarms and hardware removed from electrical poles



Updated Pit 9 Interface Agreement – MSA Interface Management successfully updated and published the *Administrative Interface Agreement between MSA and Bechtel National Inc. (BNI)* for operation of Pit 9. MSA and BNI made arrangements for determining the proper procedures to follow in disposing of borrow fill material in a designated area at Pit 9, and MSA will be responsible for monitoring all incoming and outgoing fill material.

Analytical Tools – In February, MSA Portfolio Management (PFM) released v2.0.9 of the Ranked Integrated Priority List (RIPL) application ahead of schedule. Enhancements include drop-down lists and validation of Milestone Status and Change Request number entries. In addition, PFM initiated the next upgrade to the RIPL. This upgrade will remove certain legacy Master Data columns from display and exported data column lists. It will, however, retain abilities to load/edit/save old sandbox files, as well as retain original data in the Integrated Technical Data-mart (ITD), where it can be manually exported to a spreadsheet on demand. This will simplify the Master Data input for the current sandboxes, and improve the interface.

Small Business Utilization – MSA Supply Chain Management continues to drive small business utilization to new levels. For FY 2017 year to date, all socioeconomic subcategories are at triple digits over the contractual goals. Some key highlights through February 2017 include Small Business at 84.91% against a goal of 50%; Small Woman Owned business at 24.65% against a goal of 6.8%; and Service Disabled Veteran Owned business at 10.66% against a goal of 2%. Overall, 47% of the contract value is outsourced, and 25.8% is outsourced to small business, both exceeding the contractual requirements.

Property Management System – MSA’s Property Management System was approved by RL based on corrective actions MSA developed and implemented to address concerns stated in an audit of the system developed by the KPMG Company.

Tri-Party Agreement (TPA) Support – In February, MSA Environmental Integration Services (EIS) was tasked by ORP with providing information on the origins of TPA Section 11.8, which deals with ORP’s reporting of “critical path” schedule items. ORP appreciated EIS’ support and noted that the information provided is key to a position they will be taking with Hanford regulators.

Hanford employee Welfare Trust 1095-B Reporting – The Internal Revenue Service (IRS) announced an extension of the reporting requirements of the 1095-B forms to be postmarked and delivered to persons covered on MSA’s Health Insurance plans during



calendar year 2016. MSA Human Resources staff completed and mailed over 5,000 forms, and met the deadline date of March 2, 2017.

MSA Labor/Employee Relations – MSA Labor/Employee Relations personnel maintained open and effective lines of communication with various organizations to resolve issues and concerns at the lowest levels to ensure efficient and effective administration and consistent interpretation of the Hanford Atomic Metal Trades Council (HAMTC) and Hanford Guards Union (HGU) Labor Agreements. Communications with the Unions include weekly meetings with Hanford Atomic Metal Trades Council leaders, bi-weekly meetings with Hanford Guards Union leaders, and monthly meetings with the Central Washington Building Trades Council. Monthly interface meetings with other Hanford Site contractor signatories to the HAMTC Labor Agreement (CH2M HILL Plateau Remediation Company, Washington River Protection Solutions LLC, and Wastren Advantage) also include discussions on current issues and trends.



2.0 ANALYSIS OF FUNDS

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

Funds Source PBS	Title	MSA Expected Funding	RL Undistributed Funds	RL/MSA Expected Funding	* Funds Received	FYTD Actuals	Remaining Available Funds from Funds Received
ORP-0014	Radiological Liquid Tank Waste Stabilization and Disposition Operations	\$150.5	\$295.7	\$446.2	\$446.3	\$129.2	\$317.1
HSPD (RL11,12,13,30)	Homeland Security Presidential Directive 12	\$1,143.8	\$-	\$1,143.8	\$1,143.8	\$854.7	\$289.1
RL-0020	Safeguards & Security	\$70,619.3	\$6,739.4	\$77,358.7	\$43,353.1	\$24,177.6	\$19,175.5
RL-0040	Reliability Projects/HAMMER/ Inventory	\$54,189.7	\$799.8	\$54,989.5	\$19,274.3	\$6,195.6	\$13,078.7
RL-0041	B Reactor	\$6,094.9	\$42.7	\$6,137.6	\$5,242.5	\$911.5	\$4,331.0
SWS	Site-Wide Services	\$209,604.4	\$14,920.1	\$224,524.5	\$120,836.4	\$65,949.3	\$54,887.1
Total		\$341,802.6	\$22,797.7	\$364,600.3	\$190,296.4	\$98,217.9	\$92,078.5

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 Modification 579, dated March 17, 2017

The remaining uncosted carryover balance will fund SWS through June 8, 2017 and RL20 through June 5, 2017 based on a burn rate utilizing FYTD 2017 actual costs.



3.0 SAFETY PERFORMANCE

There were no injuries classified as “Recordable” during the month of February. Therefore, both the fiscal year 2017 Total Recordable Case (TRC) and Days Away, Restricted or Transferred (DART) rates are 0.36. These injury rates are below the Environmental Management (EM) performance goals of 1.1 (TRC) and 0.60 (DART).

During the past few months, MSA has experienced an unusual amount of reported incidents resulting from ice-related slips and falls. Discussions on slips, trips and falls and measures that can be taken to stay safe continue to be the focus at various meetings. Ice and snow cleats/traction devices were made available to employees to improve traction on existing footwear, and employees have been encouraged to attend HAMMER Slip Simulator training, which teaches good techniques for walking on slippery surfaces. MSA’s work crews have been diligently clearing walkways and parking lots to provide safe walking surfaces for employees.



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

	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17
Monthly Recordable Cases	0	2	4	3	2	1	1	0	0	3	0	0
Monthly TRC Rate	0.00	1.30	2.57	1.94	1.19	0.63	0.49	0.00	0.00	1.67	0.00	0.00
Performance (3-m Average)	0.61	0.40	1.17	1.94	1.88	1.24	0.75	0.37	0.18	0.55	0.60	0.65
Performance (12-m Average)	0.63	0.69	0.85	1.01	1.11	1.10	1.04	0.92	0.80	0.93	0.79	0.79

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:	3/9/2017

Analysis

During the month of February, there were no injuries classified as Recordable.

2017 FYTD Recordable Cases: 3
 2016 FY Recordable Cases: 20
 2015 FY Recordable cases: 10

Types of injuries MSA has experienced during FY 2017 that were classified as Recordable:
 • 2 caused by a slip/trip/fall; 1 caused by body motion
 • 3 different body parts have been affected: head; knee; ankle

Action

Injury Prevention Actions:
 • Due to hazardous weather conditions, several work delays, early releases, and cancellations were exercised. Therefore, safety meetings have been focusing on safe driving and situational awareness. It should be noted that this month there were nine slips/falls on the ice that resulted in injuries classified as First Aid.
 • Ice and snow cleats/traction devices are made available to employees to improve traction on existing footwear and help prevent slips.
 • Increased distribution and discussion on safety incidents and Lessons Learned at Presidents' Zero Accident Council (PZAC)/ Employee Zero Accident Council (EZAC) meetings, as applicable.
 • Recent back-to-work meetings have discussed the following safety topics: health & wellness - heart health; fall protection; recapping the Safety Reset; and a review of the OSHA top 10 violations.

Additional Info

None

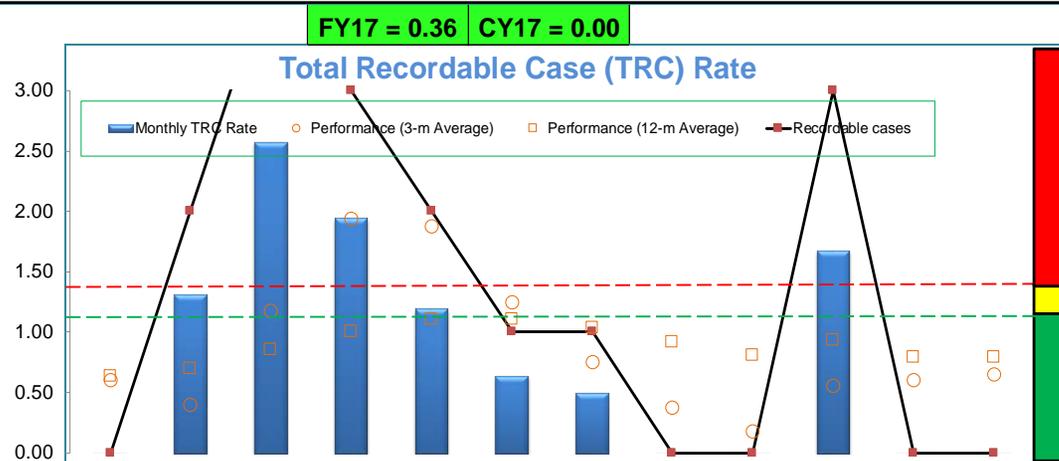


Table 3-2. Days Away, Restricted, Transferred, (DART)

Objective

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

Measure

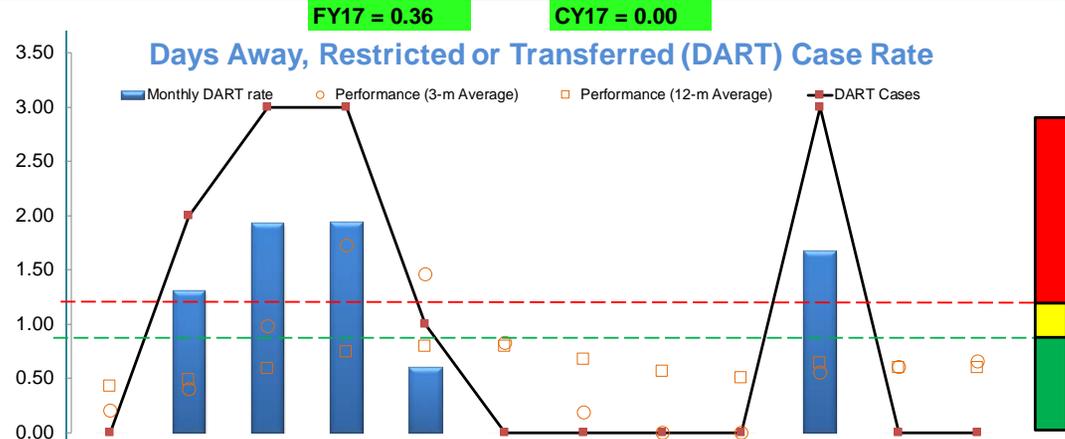
The DART rate is measured in accordance with OSHA guidelines for reporting and calculating. The rate is calculated by multiplying the number of Recordable cases by 200,000 and dividing by the total number of work hours.

Performance Thresholds

Adverse	> 0.75
Cautionary	0.6 - 0.75
Meets EM goal	< 0.6

Performance Data

	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17
Monthly DART Cases	0	2	3	3	1	0	0	0	0	3	0	0
Monthly DART rate	0.00	1.30	1.93	1.94	0.59	0.00	0.00	0.00	0.00	1.67	0.00	0.00
Performance (3-m Average)	0.20	0.40	0.98	1.72	1.46	0.83	0.19	0.00	0.00	0.55	0.60	0.65
Performance (12-m Average)	0.42	0.48	0.59	0.74	0.79	0.79	0.67	0.56	0.50	0.64	0.59	0.59



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	3/9/2017

Analysis

During the month of February, there were no injuries classified as DART.

2017 FYTD DART Cases: 3
2016 FY DART Cases: 13

- Types of injuries MSA has experienced during FY 2017 that were classified as DART:
- 2 caused by a slip/trip/fall; 1 caused by body motion.
 - 3 different body parts have been affected: head; knee; ankle

Action

- Injury Prevention Actions:
- Due to hazardous weather conditions, several work delays, early releases, and cancelations were exercised. Therefore, safety meetings have been focusing on safe driving and situational awareness. It should be noted that this month there were 9 slips/falls on the ice that resulted in injuries classified as First Aid.
 - Ice and snow cleats/traction devices are made available to employees to improve traction on existing footwear and help prevent slips.
 - Increased distribution and discussion on safety incidents and Lessons Learned at PZAC/EZAC meetings, as applicable.
 - Recent back-to-work meetings have discussed the following safety topics: health & wellness - heart health; fall protection; recapping the Safety Reset; and a review of the OSHA top 10 violations.

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

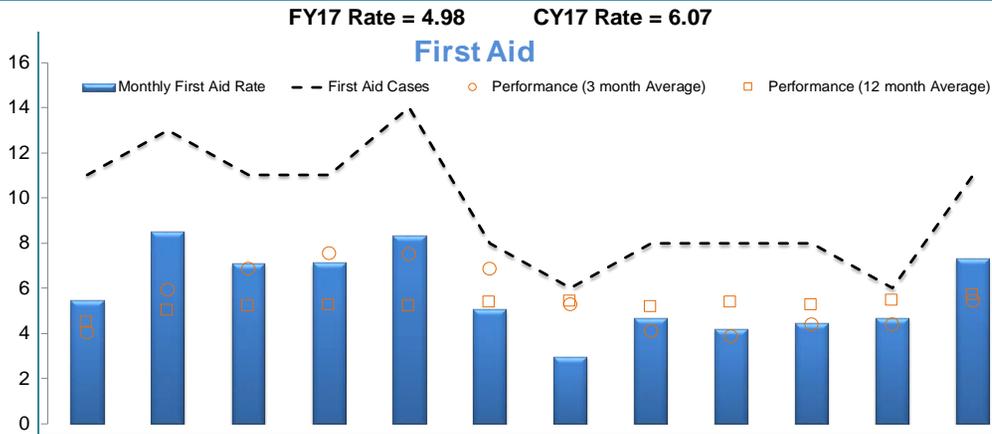
The metric is a count of the number of First Aid cases per month, and the rate of cases. The rate is calculated by multiplying the number of First Aid cases by 200,000 and dividing by the total number of work hours for a given period.

Performance Thresholds

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

Performance Data

	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17
First Aid Cases	11	13	11	11	14	8	6	8	8	8	6	11
Monthly First Aid Rate	5.43	8.48	7.07	7.10	8.32	5.03	2.95	4.65	4.17	4.45	4.66	7.27
Performance (3 month Average)	4.04	5.93	6.85	7.55	7.52	6.84	5.28	4.12	3.88	4.42	4.40	5.44
Performance (12 month Average)	4.47	5.02	5.22	5.24	5.21	5.35	5.40	5.15	5.37	5.26	5.45	5.69



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	3/9/2017

Analysis

February concluded with 11 First Aid injury cases which is about two times the average number of First Aid cases for MSA in a given month. The separate cases were the results of nine employees slipping on ice, one employee falling off of a chair, and one employee scraping an arm when walking through a door. The body parts injured included: knee (3); back (2); arm (2); hand (1); leg (1); finger (1); and, shoulder (1).

FY2017 First Aid Cases: 41

Primary types of injuries MSA has experienced during FY 2017 that were classified as First Aid:

- 38% by a slip/trip/fall, 19% by body motion, 19% by overexertion, 7% from being struck by, 7% from contact with.
- 50% arm/hand injuries, 31% leg/foot injuries, 7% head/eye injuries, 9% back injuries

FY 2016 First Aid Cases: 104, FY 2016 First Aid Case Rate= 5.40

Actions

Injury Prevention Actions:

- Due to hazardous weather conditions, several work delays, early releases, and cancelations were exercised. Therefore, safety meetings have been focusing on safe driving and situational awareness. It should be noted that this month there were 9 slips/falls on ice that resulted in injuries classified as First Aid.
- Ice and snow cleats/traction devices are made available to employees to improve traction on existing footwear and help prevent slips.
- Increased distribution and discussion on safety incidents and Lessons Learned at PZAC/EZAC meetings, as applicable.
- Recent back-to-work meetings have discussed the following safety topics: health & wellness - heart health; fall protection; recapping the Safety Reset; and a review of the OSHA top 10 violations.

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 (2017/1/23)						
b. Location (Address and Zip Code) Richland, WA 99352		b. Number RL14728			b. Phase Operations			b. To (2017/2/19)						
c. TYPE CPAF		d. Share Ratio			c. EVMS ACCEPTANCE No X Yes									
5. CONTRACT DATA														
a. QUANTITY	b. NEGOTIATED COST	c. ESTIMATED COST OF AUTHORIZED UNPRICED WORK	d. TARGET PROFIT/FEE	e. TARGET PRICE	f. ESTIMATED PRICE	g. CONTRACT CEILING	h. ESTIMATED CONTRACT CEILING	i. DATE OF OTB/OTS						
N/A	\$3,421,869	\$0	\$210,082	\$3,631,951	\$3,814,089	N/A	N/A	N/A						
6. ESTIMATED COST AT COMPLETION						7. AUTHORIZED CONTRACTOR REPRESENTATIVE								
			CONTRACT BUDGET BASE (2)	VARIANCE (3)	a. NAME (Last, First, Middle Initial) <i>Wilkinson, Robert Johnson, William K RW 3/27/17</i>			b. TITLE MSC Project Manager						
a. BEST CASE			\$3,421,870		c. SIGNATURE <i>[Signature]</i>			d. DATE SIGNED 3/27/17						
b. WORST CASE			\$3,784,207											
c. MOST LIKELY			\$3,604,007	3,421,869	(182,137)									
8. PERFORMANCE DATA														
Item (1)	Current Period						Cumulative to Date						At Completion	
	Budgeted Cost		Actual Cost Performed (4)	Variance		Budgeted Cost		Actual Cost Performed (9)		Variance		Budgeted (12)	Estimated (13)	Variance (14)
	Work Scheduled (2)	Work Performed (3)		Schedule (5)	Cost (6)	Work Scheduled (7)	Work Performed (8)	Schedule (10)	Cost (11)					
a. WORK BREAKDOWN STRUCTURE ELEMENT														
3001.01.01 - Safeguards and Security	4,182	4,182	4,324	0	(142)	424,311	424,311	439,252	0	(14,942)	542,303	564,153	(21,850)	
3001.01.02 - Fire and Emergency Response	1,435	1,435	2,346	0	(912)	147,568	147,568	169,586	(0)	(22,018)	188,038	220,618	(32,580)	
3001.01.03 - Emergency Management	454	454	325	0	129	40,747	40,747	33,880	0	6,866	53,540	45,970	7,570	
3001.01.04 - HAMMER	237	237	639	0	(402)	45,038	45,038	53,764	(0)	(8,727)	51,502	64,000	(12,498)	
3001.01.05 - Emergency Services Management	223	223	307	0	(84)	8,702	8,702	10,122	(0)	(1,420)	12,952	15,680	(2,728)	
3001.02.01 - Site-Wide Safety Standards	27	27	111	0	(83)	4,835	4,835	6,270	(0)	(1,435)	5,611	7,639	(2,028)	
3001.02.02 - Environmental Integration	338	338	404	0	(66)	47,603	47,603	43,368	0	4,236	57,225	55,311	1,915	
3001.02.03 - Public Safety & Resource Protection	872	872	624	0	249	55,061	55,061	48,177	0	6,883	78,150	71,048	7,103	
3001.02.04 - Radiological Site Services	1	1	2	(0)	(1)	3,831	3,831	4,772	(0)	(941)	3,847	5,307	(1,460)	
3001.02.05 - WSCF Analytical Services	75	75	0	0	75	55,061	55,061	50,457	(0)	4,604	57,139	51,972	5,167	
3001.03.01 - IM Project Planning & Controls	190	190	140	0	50	32,290	32,290	28,531	0	3,759	37,636	33,705	3,931	
3001.03.02 - Information Systems	1,097	1,097	626	0	471	97,557	97,557	92,961	(0)	4,596	127,696	121,393	6,303	
3001.03.03 - Infrastructure / Cyber Security	248	248	226	0	22	27,225	27,225	30,168	(0)	(2,943)	33,514	37,589	(4,075)	
3001.03.04 - Content & Records Management	591	591	477	0	114	58,511	58,511	53,009	0	5,502	75,181	69,244	5,936	
3001.03.05 - IR/CM Management	89	89	65	0	24	4,144	4,144	9,959	0	(5,815)	6,654	12,560	(5,905)	
3001.03.06 - Information Support Services	152	152	119	0	33	13,480	13,480	10,390	0	3,090	17,756	14,478	3,277	
3001.04.01 - Roads and Grounds Services	243	243	802	0	(560)	21,951	21,951	20,922	0	1,029	28,790	28,510	280	
3001.04.02 - Biological Services	280	280	159	0	121	26,309	26,309	27,244	0	(936)	34,198	35,972	(1,774)	
3001.04.03 - Electrical Services	510	510	1,044	0	(534)	53,782	53,782	78,094	0	(24,312)	68,125	100,276	(32,152)	
3001.04.04 - Water/Sewer Services	588	588	1,276	0	(688)	49,107	49,107	83,069	(0)	(33,962)	65,425	108,364	(42,939)	
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	26	0	(26)	7,974	7,974	9,838	(0)	(1,864)	7,974	10,061	(2,087)	



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 (2017/1/23)								
b. Location (Address and Zip Code) Richland, WA 99352		b. Number RL14728			b. Phase Operations			b. To (2017/2/19)								
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 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	49	49	1	0	49	7,334	7,334	7,321	0	13	8,729	8,346	383			
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	20	0	(20)	370	370	434	(0)	(64)	370	471	(101)			
3001.04.10 - Technical Services	254	254	324	0	(69)	33,172	33,172	35,355	0	(2,184)	40,338	44,513	(4,176)			
3001.04.11 - Energy Management	249	249	156	0	92	14,568	14,568	7,903	(0)	6,665	21,836	14,509	7,326			
3001.04.12 - Hanford Historic Buildings Preservation	66	106	147	41	(41)	19,204	19,106	18,998	(98)	108	22,146	22,777	(632)			
3001.04.13 - Work Management	86	86	131	0	(45)	9,327	9,327	12,925	(0)	(3,598)	11,732	15,846	(4,113)			
3001.04.14 - Land and Facilities Management	517	517	358	(0)	160	37,611	37,611	32,354	(0)	5,257	51,169	46,445	4,724			
3001.04.15 - Mail & Courier	103	103	52	0	52	7,939	7,939	5,512	(0)	2,427	10,829	8,044	2,785			
3001.04.16 - Property Systems/Acquisitons	470	470	463	0	7	41,744	41,744	42,610	0	(866)	54,987	56,479	(1,493)			
3001.04.17 - General Supplies Inventory	11	11	6	0	5	2,235	2,235	1,059	0	1,177	2,548	1,458	1,090			
3001.04.18 - Maintenance Management Program Implem	169	169	115	0	54	7,629	7,629	7,866	0	(237)	12,364	13,018	(654)			
3001.06.01 - Business Operations	293	293	382	(0)	(89)	36,913	36,913	4,393	0	32,521	45,160	14,772	30,388			
3001.06.02 - Human Resources	208	208	192	(0)	16	18,111	18,111	17,540	(0)	571	23,998	23,732	267			
3001.06.03 - Safety, Health & Quality	1,012	1,012	1,274	0	(262)	112,678	112,678	132,411	(0)	(19,733)	141,237	165,461	(24,224)			
3001.06.04 - Miscellaneous Support	618	618	490	0	128	51,612	51,612	38,980	(0)	12,632	69,059	56,360	12,699			
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	488	488	247	0	241	54,599	54,599	48,858	(0)	5,741	68,558	62,418	6,140			
3001.08.01 - Water System	157	95	128	(61)	(33)	21,717	21,391	11,269	(325)	10,122	25,994	16,098	9,895			
3001.08.02 - Sewer System	144	97	70	(48)	27	6,796	6,769	9,898	(27)	(3,129)	16,601	19,665	(3,064)			
3001.08.03 - Electrical System	24	35	23	11	12	15,696	15,355	16,345	(341)	(990)	17,129	18,290	(1,162)			
3001.08.04 - Roads and Grounds	14	13	12	(1)	2	4,005	4,001	3,300	(4)	701	9,803	9,125	678			
3001.08.05 - Facility System	0	0	0	0	0	5,611	5,611	5,652	(0)	(41)	5,611	5,652	(41)			
3001.08.06 - Reliability Projects Studies & Estimates	319	319	290	0	29	5,394	5,394	7,205	(0)	(1,811)	12,984	15,415	(2,431)			
3001.08.07 - Reliability Project Spare Parts Inventory	0	0	24	0	(24)	86	86	2,514	0	(2,428)	86	2,693	(2,607)			
3001.08.08 - Network & Telecommunications System	0	48	180	48	(132)	11,203	11,136	15,441	(67)	(4,304)	11,203	15,605	(4,402)			
3001.08.09 - Capital Equipment Not Related to Construct	5	5	0	(0)	5	9,039	9,039	8,844	(0)	195	11,154	10,964	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	78,640	78,640	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																
e. SUBTOTAL (Performance Measurement Baseline)																
	17,091	17,080	19,124	(11)	(2,044)	1,778,562	1,777,699	1,818,853	(863)	(41,153)	2,346,405	2,440,684	(94,279)			

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 (2017/1/23)								
b. Location (Address and Zip Code) Richland, WA 99352		b. Number RL14728			b. Phase Operations				b. To (2017/2/19)								
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 (12)	Estimated (13)	Variance (14)				
	Work Scheduled (2)	Work Performed (3)	Work Performed (4)	Schedule (5)	Cost (6)	Work Scheduled (7)	Work Performed (8)	Work Performed (9)	Schedule (10)	Cost (11)							
a2. WORK BREAKDOWN STRUCTURE ELEMENT																	
3001.01.04 - HAMMER	762	762	1,215	0	(453)	102,442	102,442	104,148	0	(1,705)	121,238	127,091	(5,853)				
3001.02.04 - Radiological Site Services	1,044	1,044	564	(0)	480	58,844	58,844	41,512	(0)	17,332	87,635	67,802	19,833				
3001.02.05 - WSCF Analytical Services	984	984	0	(0)	984	85,878	85,878	53,176	0	32,702	113,653	73,593	40,060				
3001.03.02 - Information Systems	196	196	171	0	25	2,609	2,609	2,381	0	228	8,034	7,860	174				
3001.03.04 - Content & Records Management	70	70	75	0	(5)	835	835	799	0	36	2,670	2,596	74				
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	2,394	2,394	2,982	(0)	(588)	21,113	21,113	21,526	(0)	(414)	87,530	89,318	(1,788)				
3001.04.05 - Facility Services	546	546	791	0	(245)	48,841	48,841	55,263	0	(6,422)	64,312	73,442	(9,130)				
3001.04.06 - Transportation	151	151	477	0	(326)	20,350	20,350	35,446	0	(15,096)	24,570	42,358	(17,788)				
3001.04.07 - Fleet Services	631	631	1,200	0	(569)	85,246	85,246	103,382	0	(18,136)	102,971	125,573	(22,602)				
3001.04.08 - Crane and Rigging	787	787	868	(0)	(81)	83,897	83,897	89,894	0	(5,997)	106,027	113,492	(7,465)				
3001.04.10 - Technical Services	5	5	217	0	(212)	22	22	1,780	0	(1,758)	149	3,664	(3,515)				
3001.04.13 - Work Management	0	0	37	0	(37)	595	595	2,913	0	(2,319)	595	3,339	(2,745)				
3001.04.14 - Land and Facilities Management	585	585	711	0	(126)	49,136	49,136	48,639	(0)	497	65,481	65,608	(127)				
3001.04.15 - Mail & Courier	17	17	15	0	2	1,107	1,107	1,143	0	(36)	1,590	1,642	(52)				
3001.06.01 - Business Operations	745	745	773	(0)	(28)	80,716	80,716	85,206	(0)	(4,490)	101,571	107,725	(6,154)				
3001.06.02 - Human Resources	141	141	254	(0)	(113)	16,279	16,279	21,698	(0)	(5,419)	20,209	27,034	(6,825)				
3001.06.03 - Safety, Health & Quality	155	155	127	(0)	29	12,778	12,778	10,268	(0)	2,510	17,156	14,905	2,252				
3001.06.04 - Miscellaneous Support	71	71	134	0	(63)	9,299	9,299	11,545	(0)	(2,245)	11,298	14,290	(2,991)				
3001.06.05 - Presidents Office (G&A nonPMB)	293	293	216	(0)	77	23,801	23,801	19,444	(0)	4,357	32,001	27,487	4,514				
3001.06.06 - Strategy	22	22	17	0	5	2,848	2,848	2,463	(0)	384	3,456	3,047	409				
3001.A1.01 - Transfer - CHPRC	5,655	5,655	5,166	0	489	594,646	594,646	524,022	0	70,624	750,618	681,931	68,688				
3001.A1.02 - Transfer - WRPS	1,146	1,146	4,069	0	(2,922)	121,065	121,065	192,840	0	(71,775)	152,357	248,400	(96,043)				
3001.A1.03 - Transfers - FH Closeout	0	0	3	0	(3)	176	176	217	0	(41)	184	258	(75)				
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	7	0	(7)	1,188	1,188	2,850	0	(1,662)	1,188	2,990	(1,802)				
3001.A2.02 - Non Transfer - AMH	12	12	0	0	12	1,593	1,593	954	(0)	639	1,919	1,191	728				
3001.A2.03 - Non Transfer - ATL	16	16	0	0	16	1,112	1,112	702	0	410	1,541	1,013	528				
3001.A2.04 - Non-Transfer - WCH	302	302	(7)	0	309	40,477	40,477	41,547	0	(1,070)	48,597	47,370	1,226				
3001.A2.05 - Non-Transfers - HPM	0	0	47	0	(47)	3	3	1,803	0	(1,799)	3	2,188	(2,185)				
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	395	0	(395)	0	616	(616)				
3001.A4.01 - Request for Services	332	332	561	0	(229)	69,151	69,151	96,258	0	(27,107)	78,442	106,741	(28,300)				
3001.A4.02 - HAMMER RFSs	3	3	530	0	(527)	7,069	7,069	28,345	0	(21,276)	7,149	31,508	(24,359)				
3001.A4.03 - National Guard RFSs	0	0	0	0	0	1,602	1,602	1,550	0	52	1,605	1,552	53				
3001.A4.04 - PNNL RFSs	17	17	16	0	1	6,878	6,878	10,042	(0)	(3,164)	7,319	10,702	(3,383)				
3001.A5.01 - RL PD	53	53	158	0	(105)	3,072	3,072	5,339	0	(2,267)	4,567	6,429	(1,862)				
3001.A5.02 - ORP PD	0	0	60	0	(60)	37	37	6,710	0	(6,673)	37	7,138	(7,101)				





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 (2017/1/23)								
b. Location (Address and Zip Code)		b. Number			b. Phase			b. To (2017/2/19)								
		c. 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	48	48	268	0	(221)	786	786	3,741	0	(2,955)	2,081	6,781	(4,699)			
3001.A5.04 - ORP Project Funded	0	0	120	0	(120)	0	0	2,075	0	(2,075)	0	3,197	(3,197)			
3001.A6.01 - Portfolio PMTOs	0	0	0	0	0	210	210	161	0	49	210	161	49			
3001.A7.01 - G&A Liquidations	(1,445)	(1,445)	(1,903)	0	459	(146,727)	(146,727)	(154,144)	0	7,417	(187,291)	(199,887)	12,595			
3001.A7.02 - DLA Liquidations	(942)	(942)	(1,556)	0	614	(72,733)	(72,733)	(93,059)	(0)	20,325	(99,595)	(125,945)	26,350			
3001.A7.03 - Variable Pools Revenue	(7,210)	(7,210)	(7,162)	0	(48)	(492,453)	(492,453)	(470,329)	0	(22,125)	(691,095)	(670,788)	(20,307)			
3001.B1.01 - UBS Assessments for Other Providers	2	2	0	0	2	119	119	0	0	119	184	0	184			
3001.B1.02 - UBS Other MSC - HAMMER M&O	11	11	0	0	11	545	545	0	(0)	545	843	0	843			
3001.B1.03 - Assessment for Other Provided Services	109	109	0	0	109	5,563	5,563	0	(0)	5,563	8,612	0	8,612			
3001.B1.04 - Assessment for PRC Services to MSC	60	60	0	0	60	3,288	3,288	0	(0)	3,288	4,977	0	4,977			
3001.B1.07 - Request for Services	1	1	0	0	1	247	247	0	(0)	247	274	0	274			
a2. WORK BREAKDOWN STRUCTURE ELEMENT																
b2. COST OF MONEY																
c2. GENERAL AND ADMINISTRATIVE																
d2. UNDISTRIBUTED BUDGET													0			
e2. SUBTOTAL (Non - Performance Measurement	7,770	7,770	11,243	0	(3,473)	858,288	858,288	918,705	0	(60,416)	1,071,609	1,159,467	(87,857)			
f. MANAGEMENT RESERVE											3,855	3,855	0			
g. TOTAL	24,861	24,850	30,367	(11)	(5,517)	2,636,850	2,635,988	2,737,557	(863)	(101,570)	3,421,870	3,604,007	(182,137)			
9. RECONCILIATION TO CONTRACT BUDGET BASE																
a. VARIANCE ADJUSTMENT																
b. TOTAL CONTRACT VARIANCE																



5.0 FORMAT 3, DD FORM 2734/3, BASELINE

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

CONTRACT PERFORMANCE REPORT															FORM APPROVED	
FORMAT 3 - BASELINE															OMB No. 0704-0188	
DOLLARS IN Thousands																
1. Contractor			2. Contract			3. Program			4. Report Period							
a. Name Mission Support Alliance			a. Name Mission Support Contract			a. Name Mission Support Contract			a. From (2017/1/23)							
b. Location (Address and Zip Code) Richland, WA 99352			b. Number RL14728			b. Phase Operations			b. To (2017/2/19)							
c. TYPE CPAF			d. Share Ratio			c. EVMS ACCEPTANCE No <input type="checkbox"/> X <input checked="" type="checkbox"/> Yes										
5. CONTRACT DATA																
a. ORIGINAL NEGOTIATED COST \$2,854,966				b. NEGOTIATED CONTRACT CHANGES \$566,903		c. CURRENT NEGOTIATED COST (a+b) \$3,421,869		d. ESTIMATED COST OF UNAUTHORIZED UNPRICED WORK \$0			e. CONTRACT BUDGET BASE (C+D) \$3,421,869		f. TOTAL ALLOCATED BUDGET \$3,421,869		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																
(1)	BCWS CUMULATIVE TO DATE (2)	BCWS FOR REPORT PERIOD (3)	BUDGETED COST FOR WORK SCHEDULED (BCWS) (Non-Cumulative)													
			Six Month Forecast By Month											UNDISTRIBUTED BUDGET (15)	TOTAL BUDGET (16)	
			Mar FY17 (4)	Apr FY17 (5)	May FY17 (6)	Jun FY17 (7)	Jul FY17 (8)	Aug FY17 (9)	Sep FY17 (10)	Oct FY18 (11)	Nov FY18 (12)	Remaining FY18 (13)	FY19 (14)			
a. PERFORMANCE MEASUREMENT BASELINE (Beginning of Period)	1,761,471	17,131	20,726	19,003	17,027	22,519	17,149	17,615	24,407	15,037	17,612	259,508	137,307	0	2,346,512	
b. BASELINE CHANGES AUTHORIZED DURING REPORT PERIOD	17,091	(17,131)	(8)	(6)	(7)	6	14	14	6,553	14	18	(7,015)	349	0	(108)	
a. PERFORMANCE MEASUREMENT BASELINE (End of Period)	1,778,562		20,718	18,997	17,020	22,525	17,163	17,629	30,961	15,051	17,630	252,494	137,656	0	2,346,404	



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

FORM APPROVED
OMB No. 0704-0188

DOLLARS IN Thousands

1. Contractor		2. Contract		3. Program			4. Report Period									
a. Name Mission Support Alliance		a. Name Mission Support Contract		a. Name Mission Support Contract			a. From (2017/1/23)									
b. Location (Address and Zip Code) Richland, WA 99352		b. Number RL14728		b. Phase Operations			b. To (2017/2/19)									
c. TYPE CPAF		d. Share Ratio		c. EVMS ACCEPTANCE 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													
			Mar FY 17 (4)	Apr FY17 (5)	May FY17 (6)	Jun FY17 (7)	Jul FY17 (8)	Aug FY17 (9)	Sep FY17 (10)	Oct FY18 (11)	Nov FY18 (12)	Remaining FY18 (13)	FY19 (14)			
a2. NON - PERFORMANCE MEASUREMENT BASELINE (Beginning of Period)	850,519	7,770	9,103	7,479	7,534	8,998	6,751	7,259	10,757	6,486	7,466	78,882	62,608	0	1,071,610	
b2. BASELINE CHANGES AUTHORIZED DURING REPORT PERIOD	7,770	(7,770)	0	0	0	0	0	0	0	0	0	0	(0)	0	(0)	
a2. NON - PERFORMANCE MEASUREMENT BASELINE (End of Period)	858,288		9,103	7,479	7,534	8,998	6,751	7,259	10,757	6,486	7,466	78,882	62,608	0	1,071,609	
7. MANAGEMENT RESERVE															3,855	
8. TOTAL	2,636,850	0	29,821	26,476	24,554	31,522	23,914	24,888	41,718	21,537	25,096	331,375	200,263	0	3,421,869	



6.0 FORMAT 5, DD FORM 2734/5, EXPLANATIONS AND PROBLEM ANALYSIS

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

1. Contractor	2. Contract		3. Program	4. Report Period
a. Name Mission Support Alliance	a. Name Mission Support Contract		a. Name Mission Support Contract	a. From (2017/1/23)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2017/2/19)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NO X YES	
5. Evaluation				

Explanation of Variance /Description of Problem:

Current Month Cost Variance (CV):

3001.01.02 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.

3001.01.04 HAMMER – Unfavorable CM CV is due to the assumption that less Environmental Management (EM) funding would be required because HAMMER could self-fund itself by performing enough services for non-Hanford entities. This assumption that was included in the proposal has not occurred. As a result, the EM budget will remain lower than the EM funds authorized. This divergent situation has remained and continued to increase the FY 2017 CV. Services delivered at HAMMER have not been adversely affected because the services are executed consistent with the approved IIP scope.

3001.03.02 Information Systems – Favorable CM CV is due to continued savings from self-performance of Software Engineering Services.

3001.04.01 Roads and Grounds Services – Unfavorable CM CV is due to severe weather events which caused an increase of labor usage hours and deicer materials realized in December/January to support snow removal efforts on roads, parking lots and walkways.

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.

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 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.



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 (2017/1/23)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2017/2/19)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NO X YES	
5. Evaluation				

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

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 has operated at authorized FY 2017 funding levels that exceed the contract budget. There are no impacts associated with this CM unfavorable CV.

Corrective Action – Current Month Cost Variance: None

Current Month Schedule Variance:

3001.08.01 Water System – Unfavorable CM SV is due to weather delays which prevented construction mobilization of both subcontract construction support as well as MSA construction support on project L-868 “Raw Water Fire Protection Loop for LAWPS”.

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

Corrective Action – Current Month Schedule Variance: None.

Cumulative Cost Variance: Several key areas contributing to the Cumulative-to-Date CV (CTD 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 CTD CV is primarily due to RL approved funding and priority list scope being divergent from the baseline for FY 2013, FY 2014, FY 2015, FY 2016 and FY 2017.



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 (2017/1/23)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2017/2/19)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NO X YES	
5. Evaluation				

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. MSA has submitted the proposal for the FY 2016 Labor and Pension adders and is currently waiting for definitization. The variances associated with labor and pension impact all WBS elements that include labor.

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

3001.01.02 Fire & Emergency Response: Unfavorable CTD 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 CV.

3001.01.03 Emergency Management: Favorable CTD 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.

3001.01.04 HAMMER: Unfavorable CTD 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 not occurred. As a result of this inaccurate assumption, the EM budget will remain lower than the EM funds authorized. Because of this divergent situation, the CTD CV 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.



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 (2017/1/23)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2017/2/19)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NO X YES	
5. Evaluation				

3001.02.03 Public Safety & Resource Protection (PSRP): Favorable CTD 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.

3001.03.04 Contents & Records Management: Favorable CTD CV is primarily due to the approved funding and IIP scope being divergent from the baseline, but is also due to the cost savings associated with self-performance of the records scope, and a reduction in system administration/software engineering costs from the self-performance of software engineering services.

3001.03.05 IR/CM Management: Unfavorable CTD 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: Unfavorable CTD 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: Favorable CTD 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.

3001.04.14 Land and Facilities Management – Favorable CTD CV is primarily due to the approved funding and IIP scope being divergent from the baseline. No mitigating actions are required at this time.

3001.06.01 Business Operations: Favorable CTD CV is primarily due to credits associated with affiliate fee on IT scope and training on overtime pending final resolution.

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

3001.06.04 Miscellaneous Support: Favorable CTD 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.



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 (2017/1/23)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2017/2/19)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NO X YES	
5. Evaluation				

3001.07.01 Portfolio Management: Favorable CTD CV is primarily due to less Portfolio Management support required than assumed for integrated planning actions.

3001.08.01 Water System: Favorable CTD CV is due to projects L-525, "24in Line Replacement from 2901Y to 200E" & L-840, "24in Line Replacement from 2901Y to 200W" awarding the construction subcontracts for substantially less than initially estimated. The significant construction cost savings is attributable to the contractor's expertise in this type of construction and significantly less difficult site conditions encountered than were assumed when preparing the initial cost estimate. In addition previously reported projects L-399 "T-Plant Potable & Raw Water Line Rest" and L-311 "200W Raw Water Reservoir Refurbish" contributed to this positive variance.

3001.A1 – 3001.B1 Non-PMB: Unfavorable CTD 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 with WBS 3001.A7.01 – 3001.A7.03.

Impacts - Cumulative Cost Variance: CTD CV is primarily due to approved funding and priority list scope being divergent from the baseline during FY 2013 – FY 2017. Because the work scope is primarily level of effort, the CTD CV 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 2017, MSA will continue to monitor the delta values between the contract baseline and RL funding values to determine if change proposals are warranted. Until then, the divergent data will continue.

Cumulative Schedule Variance:

3001.08.01 Water System – Unfavorable CTD SV is due to engineering design completing behind schedule which impacted successor activities that led to delays in material delivery of valves/actuators and control panels, and delays to work performance due to Filter Plant issues on project "L-830, Filter Plant Filter Control System Upgrade".

3001.08.03 Electrical System – Unfavorable CTD SV is due to an incorrect planning assumption in loading the budget for the Test & Treat contract for project "L-789 Prioritize T&D Systems Wood Power Poles Test & Replace."



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 (2017/1/23)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728	b. Phase - Operations	b. To (2017/2/19)
	c. Type CPAF	d. Share Ratio NO X YES	
5. Evaluation			

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

Corrective Action – Cumulative Schedule Variance: No corrective action as each project is stand-alone.

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 VAC is primarily due to the RL approved funding and priority list scope being divergent from the baseline for FY 2013, FY 2014, FY 2015, FY 2016 and FY 2017.

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. The FY 2016 Labor and Pension proposal is pending definitization. For FY 2017, the labor and pension variances will continue to increase during the remainder of this fiscal year.

Impacts – At Complete Variance:

The VAC is primarily due to the approved funding and priority list scope being divergent from the baseline during FY 2013 – FY 2017. Because the work scope is primarily level of effort, the VAC is not a predictive indicator for future performance. The amount of support provided in the future will be dependent upon RL approved funding and priority list scope.

Corrective Action - At Complete Variance:

For FY 2009 – FY 2012, MSA has incorporated negotiated contract variance proposals into the contract baseline. For FY 2013 through FY 2017, 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 for February 2017 remained at \$3,421.9M.



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 (2017/1/23)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2017/2/19)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NO X YES	
5. Evaluation				

Changes in Estimated Cost of Authorized / Unpriced Work:

The Authorized Unpriced Work (AUW) for February 2017 remained at \$0M.

Changes in Estimated Price:

The Estimated Price of \$3,814.1M is based on the Most Likely Management Estimate at Completion (MEAC) of \$3,604.0M and fee of \$210.1M. 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, FY 2015, and FY 2016 were within a 10 percent variance, proposals have not yet been processed to increase the Negotiated Contract Cost. Since FY 2017 funding is higher than the Contract Budget Base, it is expected that the FY 2017 variance will exceed the 10% threshold from Section B.5 of the MSA contract.

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

During February 2017, the Estimate at Completion (EAC) decreased by (\$0.3M) from \$3,604.3M to \$3,604.0M; (\$0.3M) in the Performance Measurement Baseline (PMB), (\$0.1M) in the Non-PMB and \$0.1M in Management Reserve. The decrease in the PMB was primarily due to labor forecast adjustments due to site closures, delays and early releases ("R" time) as well as delays in filling vacancies.

The Non-PMB EAC for Usage Based Services (UBS) and Request for Services (RFS) is typically updated using a factor based on the trending FYTD actual costs incurred and the FYTD realized hours. The month of February had several site closures and delays so it was determined the most accurate outlook would be to retain the previous month EAC.

Changes in Undistributed Budget:

The Undistributed Budget of \$0M did not change this reporting period.

Changes in Management Reserve:

The Management Reserve for February 2017 increased by \$0.1M from \$3.7M to \$3.8M.



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

1. Contractor	2. Contract		3. Program	4. Report Period
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b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2017/2/19)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NO X YES	
5. Evaluation				

Differences in the Performance Measurement Baseline:

This reporting period the Performance Measurement Baseline decreased by (\$0.1M) from \$2,346.5M to \$2,346.4M. The decrease was due to the risk reserves identified by Reliability Project BCR # **VRL40RP-17-019** – Initiate L-612, 230kV Transmission System Reconditioning and Sustainability Repairs Definitive Design and Construction and Move Budget from Reliability Planning Package. Additionally, BCR **VRL40RP-17-024** – *Create a Level 4 and 14 Level 5 WBSs for Reliability Projects FY 2017 Planning Packages and Move Budget from the Out-Year Reliability Projects Planning Package*, adjusted the time phasing of the budget, but did not change the contract value.

Differences in the Non - Performance Measurement Baseline:

The Non-PMB remained at \$1,071.6M for this reporting period.

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) collects the cost of centralized management, support from others, craft indirect time, and non-labor cost such as training and facilities. These costs are distributed via a rate on direct labor. Usage-Based Services (UBS) are services liquidated to customers (internal and external). The UBS cost is associated with a service and distributed on a unit rate to the customer based upon requests (“pay by the drink”).

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

Fiscal Year 2017 to Date – February 2017					
Account Description	BCWS	BCWP	ACWP	CV	Liquidation
Direct Labor Adder					
Software Engineer Services DLA (3001.03.02.03)	\$899.3	\$899.3	\$873.3	\$26.0	\$(833.5)
Content & Records Management DLA (3001.03.01.04)	\$308.9	\$308.9	\$306.7	\$2.2	\$(251.3)
Transportation DLA (3001.04.06.02)	\$666.8	\$666.8	\$2,133.3	\$(1,466.5)	\$(2,546.0)
Maintenance DLA (3001.04.05.02)	\$2,186.3	\$2,186.3	\$3,486.6	\$(1,300.3)	\$(3,157.0)
Janitorial Services DLA (3001.04.05.03)	\$375.7	\$375.7	\$467.8	\$(92.1)	\$(330.0)
Total Direct Labor Adder	\$4,437.0	\$4,437.0	\$7,267.7	\$(2,830.7)	\$(7,117.8)

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 2017 to Date – February 2017					
Account Description	BCWS	BCWP	ACWP	CV	Liquidation
Usage Based Services					
Training (3001.01.04.02)	\$3,504.7	\$3,504.7	\$5,162.2	\$(1,657.5)	\$(5,070.6)
HRIP (3001.02.04.02)	\$2,377.1	\$2,377.1	\$1,334.8	\$1,042.3	\$(1,381.4)
Dosimetry (3001.02.04.03)	\$2,434.9	\$2,434.9	\$1,420.0	\$1,014.9	\$(2,186.6)
Information Technology Services (3001.03.07.01)	\$11,011.0	\$11,011.0	\$11,129.9	\$(118.9)	\$(12,517.0)
Work Management (3001.04.13.01)	\$-	\$-	\$237.7	\$(237.7)	\$(230.5)
Courier Services (3001.04.15.02)	\$78.6	\$78.6	\$71.3	\$7.3	\$(69.2)
Occupancy (3001.04.14.06)	\$2,693.1	\$2,693.1	\$3,694.3	\$(1,001.2)	\$(3,420.4)
Crane & Rigging (3001.04.08.02)	\$2,831.3	\$2,831.3	\$3,461.2	\$(629.9)	\$(3,246.4)
Guzzler Trucks (3001.04.06.03)	\$30.4	\$30.4	\$1.1	\$29.3	\$-
Fleet (3001.04.07.02)	\$2,944.6	\$2,944.6	\$5,634.4	\$(2,689.8)	\$(4,976.8)
Total UBS	\$27,905.7	\$27,905.7	\$32,146.9	\$(4,241.2)	\$(33,098.9)
Total DLA / UBS	\$32,342.7	\$32,342.7	\$39,414.6	\$(7,071.9)	\$(40,216.7)

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 (-\$7.1M) – Transportation DLA costs have increased in response to the ongoing Stevens Center and DOE moves, as well as additional support caused by the Winter weather impacts to road, lot, and walkway upkeep. Maintenance DLA cost impact a result of continual project work, such as the water line excavation at MO720/M0721. Occupancy volume has increased due to the recent inclusion of 2261 Stevens and 1981 Snyder facilities, per the LMSI/MSA scope transition. Overall, the Usage Based and Direct Labor Adder service demand is far in excess of contract baseline assumptions, especially in Fleet count/services, GSA vehicle count, and Training classroom student volume. Due to the nature of the accounts, costs will continue to mirror increased service requests and liquidation values in all of the pools.



8.0 RELIABILITY PROJECT STATUS

Activity in February was centered on continuing progress on projects carried over from FY 2016. (Table 8-1 below.) For further information concerning accomplishments and issues related to the Reliability Projects, refer to the Site Services and Interface Management Service Area section of this report.

Table 8-1. Current Active Reliability Projects Summary

Projects to be Completed (\$000's)																
Work Scope Description (RL-40 Projects)	Contract to Date - Performance								Project Lifecycle				Complete Dates			VAC Cost
	BCWS	BCWP	ACWP	SV	CV	SPI	CPI	CSPI	BAC	EAC	VAC	% Complete	Complete Date	Forecast Date	Schedule at Complete	
L-419, 24in Line Renov/Replace from 2901U to 200E	373.3	357.2	267.2	(16.1)	90.0	1.0	1.3	1.1	3,795.5	3,705.6	89.9	9.4%	3/28/18	3/28/18	G	G
L-612, 230kV Transmission System Reconditioning and Sustainability Repairs	971.5	972.5	614.1	1.0	358.4	1.0	1.6	1.3	1,562.4	1,370.7	191.7	62.2%	5/23/19	5/23/19	G	G
L-761, Phase 2a Procure, Install, & Closeout	2,161.9	2,095.1	1,452.6	(66.8)	642.5	1.0	1.4	1.2	2,162.2	1,617.0	545.2	96.9%	12/29/16	3/15/17	R	G
L-789, Prioritize T&D Sys Wood PP Test & Replace	631.4	295.7	220.3	(335.7)	75.4	0.5	1.3	0.9	1,446.3	1,409.5	36.8	20.4%	1/18/18	4/9/18	R	G
L-830, Filter Plant Filter Ctrl Sys Upgrade	1,050.6	772.4	1,562.8	(278.2)	(790.4)	0.7	0.5	0.6	1,050.6	2,460.8	(1,410.2)	73.5%	9/19/16	9/18/17	R	R
L-525, 24in Line Replacement 200E	3,614.7	3,607.5	2,014.8	(7.2)	1,592.7	1.0	1.8	1.4	3,618.9	2,022.6	1,596.3	99.7%	3/2/17	2/28/17	G	G
L-840, 24in Line Replacement 200W	3,467.6	3,467.6	1,907.6	0.0	1,560.0	1.0	1.8	1.4	3,467.6	1,907.6	1,560.0	100.0%	1/27/17	2/16/17	Y	G
L-775, Chip SI Rt 4s, Canton Ave to Y Barricade	163.1	162.1	127.0	(1.0)	35.1	1.0	1.3	1.1	1,808.8	1,788.3	20.5	9.0%	10/10/17	10/10/17	G	G
L-776, Chip SI Rt 4s, Y Brrcd to 618 Wst St Ntrnc	107.0	106.1	54.0	(0.9)	52.1	1.0	2.0	1.5	1,710.4	1,671.8	38.6	6.2%	10/10/17	10/10/17	G	G
L-777, Chip SI Rt 4s, 618-10 Wst Site to HR Road	129.2	128.3	88.4	(0.9)	39.9	1.0	1.5	1.2	1,665.7	1,640.3	25.4	7.7%	10/10/17	10/10/17	G	G
L-859, Rebuild 1st St from Canton Ave to IDF Entrance Road	139.9	138.9	110.5	(1.0)	28.4	1.0	1.3	1.1	1,152.6	1,104.6	48.0	12.1%	8/29/17	8/29/17	G	G
L-853, 200E Sewer Flow Equalization Facility	892.1	876.9	831.8	(15.2)	45.1	1.0	1.1	1.0	5,255.8	5,184.6	71.2	16.7%	1/28/19	1/28/19	G	G
L-854, 200E Sewer Consolidations	603.0	591.2	565.9	(11.8)	25.3	1.0	1.0	1.0	6,044.3	5,980.2	64.1	9.8%	11/28/18	11/28/18	G	G
L-868, Raw Water Fire Protection Loop for LAWPS	376.8	352.8	150.7	(24.0)	202.1	0.9	2.3	1.6	1,227.1	636.1	591.0	28.8%	12/28/17	10/25/17	G	G
L-894, Raw Water Cross Connection Isolation 200E/W	300.0	300.0	124.6	0.0	175.4	1.0	2.4	1.7	300.0	124.6	175.4	100.0%	11/17/16	2/1/17	R	G
RL-40 Total	14,982.1	14,224.3	10,092.3	(757.8)	4,132.0	0.9	1.4	1.2	36,268.2	32,624.3	3,643.9					

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-761, *Replace RFAR, Phase 2a - Procure, Install, & Closeout*: Unfavorable SV is due to the Construction Mobilization ramp-up due to delay in hiring of construction crew, and procurement and installation of the office and craft change trailers.
- L-789, *Prioritize T&D Sys Wood PP Test & Replace*: Unfavorable SV is due to an incorrect planning assumption in loading the dollars for the Test & Treat contract. A Baseline Change Request (BCR) is coming in March.
- L-830, *Filter Plant Filter Control System Upgrade*: Unfavorable SV is because engineering design completed behind schedule impacting successor activities, delays in material delivery of valves/actuators and control panels, and delays to work performance due to Filter Plant issues. Work planning and construction inefficiencies in construction increased the variance. The SV is not recoverable, and will increase until the project completes.

CTD Cost Variances (CV):

- L-419, *24in Line Renov/Replace from 2901U to 200E*: Favorable CV is due to utilizing previous design for proximity project and incurring less engineering costs for the design phase than planned.
- L-612, *230kV Transmission System Reconditioning and Sustainability Repairs*: Favorable CV is due to the construction subcontract performed for significantly less than the original estimate. The Environmental Assessment (EA) was contracted and not self-performed. Performance was taken on the contracted draft EA, however, due to numerous comments, a second submittal will be required, and the positive variance will decrease. In addition, a contract for approximately \$20K was established with Pacific Northwest National Laboratory (PNNL) to perform the floodplain analysis, which will further decrease the positive cost variance.
- L-761, *Replace RFAR, Phase 2a - Procure, Install, & Closeout*: Favorable CV is primarily due to loaning project crafts to other projects, thereby significantly reducing labor costs during mobilization, and planned hiring of all resources is not complete so actual costs were not incurred (Work Package Planner, Field Supervisor, etc.). Because alternate accommodations had been identified there was an additional cost savings of \$100K resulting from canceling the purchase of



mobile craft break trailers. The acquisition/installation of the office and craft change trailers has not been completed, so approximately \$168K in costs have not occurred.

- *L-789, Prioritize T&D Sys Wood PP Test & Replace*: Favorable CV is due to receiving less managerial cost than planned. A BCR is in process.
- *L-830, Filter Plant Filter Control System Upgrade*: Unfavorable CV is due to design requiring additional funding to resolve comments provided at initial 90% design submittal, additional in-house engineering required to complete material procurement, Operational Test Procedures and Acceptance Test Procedures, and increased work package planning cost, and construction cost not anticipated, (scaffolding, rigging, outage costs, confined space efficiencies, and extensive work planning efforts). Construction costs have increased due to insufficient design details, work package planning, and unavailable materials. The cost variance is not recoverable.
- *L-525, 24 Inch Line Replacement, 200E*: Favorable CV is due to the award of the construction subcontract for substantially less than the initial estimate.
- *L-840, 24 Inch Line Replacement 200W*: Favorable CV is due to modest cost savings from performing site clearing work for less than planned cost, and the fixed price construction contract being awarded for substantially less than the estimate.
- *L-776, Chip Sl Rt 4s, Y Brrcd to 618 Wst St Ntrnc*: Favorable CV is due to receiving less engineering and environmental costs than planned during the design phase.
- *L-868, Raw Water Fire Protection Loop for LAWPS*: Favorable CV is due to efficiencies in both project support (+\$134.3K), and favorable performance in the conceptual design/definitive design contracts (+\$43.9K).
- *L-894, Raw Water Cross Connection Isolation 200E/W*: Favorable CV is due to the Study Report utilizing fewer resources than originally anticipated.

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

- *L-419, 24in Line Renov/Replace from 2901U to 200E*: Favorable VAC is due to utilizing previous design for proximity project and receiving less engineering costs for the design phase than planned.
- *L-612, 230kV Transmission System Reconditioning and Sustainability Repairs*: Favorable VAC is due to the conceptual design subcontract award,



Environmental Assessment (EA) contract, and planning costs being less than planned. Rework of the draft EA and required subcontract with PNNL will reduce the positive cumulative cost variance to approximately the Estimate at Completion (EAC) level.

- L-761, *Replace RFAR, Phase 2a - Procure, Install, & Closeout*: The favorable VAC is due to Mobilization costs significantly less than planned, because project resources had been loaned to other projects. Also, the procurement of the mobile break trailers was canceled. Additionally, instrument technicians, Project Control, and Estimating staff, as well as the work planner, were not required full time during mobilization. The BCR planned for March has been delayed due to newly identified staffing requirements.
- L-830, *Filter Plant Filter Control System Upgrade*: Unfavorable VAC is due to increased costs for design work and engineering support during procurements and construction, and equipment and construction not adequately scoped. The project is currently being rebaselined to complete the remaining scope. The original BCR was not approved as written; it will be rewritten for impacts out of MSA's control only. Items within MSA's control will be reported as a variance to performance.
- L-525, *24-Inch Line Replacement, 200E*: Favorable VAC is due to modest savings for site clearing work due to favorable site conditions, and the construction subcontract award for substantially less than the initial estimate. The significant construction cost savings are attributable to the contractor's expertise in this type of construction, and significantly less difficult site conditions currently being encountered than was assumed when preparing the initial cost estimate.
- L-840, *24 Inch Line Replacement 200W*: Favorable VAC is due to modest savings for site clearing work due to favorable site conditions, and the construction subcontract award for substantially less than the initial estimate. The significant construction cost savings are attributable to the contractor's expertise in this type of construction, and significantly less difficult site conditions currently being encountered than was assumed when preparing the initial cost estimate.
- L-868, *Raw Water Fire Protection Loop for LAWPS*: Favorable VAC is due to efficiencies in project support (+\$192.5K), and receiving very competitive bids on Design (\$43.9K) and Construction contracts (+\$354.2K).
- L-894, *Raw Water Cross Connection Isolation 200E/W*: Favorable VAC is due to the Study Report utilizing less resource cost than originally anticipated.

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	2018	2019
L-419	L-419, 24" Line Renovation/Replacement from 2901U to 200E	152	278	9.4%	10-Aug-15	28-Mar-18	10-Aug-15 A	28-Mar-18					
L-525	L-525, 24"Line Renovation/Replacement from 2901Y to 200E	152	6	99.7%	01-Apr-15	02-Mar-17	01-Apr-15 A	28-Feb-17					
L-612	L-612, 230kV Transmission System Reconditioning and Sustainability Upgrades	352	570	62.2%	31-Aug-15	23-May-19	31-Aug-15 A	23-May-19					
L-761 Ph2a	L-761, Replace RFAR Phase 2a	154	17	96.9%	20-Jul-15	29-Dec-16	20-Jul-15 A	15-Mar-17					
L-775	L-775, Chip Seal RT 4s, Canton Ave to Y Barricade	186	163	9%	10-Aug-15	10-Oct-17	10-Aug-15 A	10-Oct-17					
L-776	L-776, Chip Seal Rt 4S Y Brrcd to 618 Wst St Ntrnc	72	163	6.2%	15-Jun-16	10-Oct-17	21-Jun-16 A	10-Oct-17					
L-777	L-777, Chip Seal RT 4s, 618-10 Wst Site to HR Road	186	163	7.7%	24-Aug-15	10-Oct-17	10-Aug-15 A	10-Oct-17					
L-789	L-789, Prioritized T&D System Wood Pole Upgrades	203	286	20.4%	10-Aug-15	18-Jan-18	10-Aug-15 A	09-Apr-18					
L-830	L-830, Filter Plant Filter Control System Upgrade	125	147	73.5%	29-Jun-15	19-Sep-16	29-Jun-15 A	18-Sep-17					
L-840	L-840, 24"Line Renovation/Replacement from 2901Y to 200W	461	0	100%	01-Apr-15	27-Jan-17	01-Apr-15 A	16-Feb-17 A					
L-853	L-853, 200E Sewer Flow Equalization Facility	309	488	16.7%	17-Aug-15	28-Jan-19	17-Aug-15 A	28-Jan-19					
L-854	L-854, 200E Sewer Consolidations	283	448	9.8%	17-Aug-15	28-Nov-18	17-Aug-15 A	28-Nov-18					
L-859	L-859, Rebuild 1st Street, Canton Avenue to IDF Entrance	461	134	12.1%	08-Sep-15	29-Aug-17	08-Sep-15 A	29-Aug-17					

Remaining Work
 Baseline

MSC - Reliability Projects
Summary Schedule
Data Date: 19-Feb-17



Table 8-2, cont. Reliability Projects Schedule

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	2018	2019
L-868	L-868, Raw Water Fire Protection Loop for LAWPS	155	174	28.8%	04-Jan-16	28-Dec-17	14-Dec-15 A	25-Oct-17	[Gantt chart showing remaining work (light blue) and baseline (yellow) for L-868 across years 2015-2019]				
L-894	L-894, Raw Water Cross Connection Isolation 200E/W	23	0	100%	29-Aug-16	17-Nov-16	29-Aug-16 A	01-Feb-17 A	[Gantt chart showing remaining work (light blue) and baseline (yellow) for L-894 across years 2015-2019]				

 Remaining Work
 Baseline

MSC - Reliability Projects
Summary Schedule
Data Date: 19-Feb-17





9.0 BASELINE CHANGE REQUEST LOG

Baseline Change Request Log for February

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

Three BCRs related to Reliability Projects:

- VRL40RP-17-019 – Initiate L-612, *230kV Transmission System Reconditioning and Sustainability Repairs*, Definitive Design and Construction and Move Budget from Reliability Planning Package
- VRL40RP-17-024 – Create a Level 4 and 14 Level 5 WBSs for Reliability Projects FY 2017 Planning Packages and Move Budget from the Out-Year Reliability Projects Planning Package
- VRL40RP-17-027 – Administrative BCR – Add KPG Milestones to Five Reliability Projects

Two BCRs were Administrative in Nature:

- VMSA-17-004 Rev 4 – Administrative BCR – Create Lower Level Task Order (LLTO) WBSs for Cost Collection Established in the Month of February
- VMSA-17-009 – Administrative BCR – Mod 568, Incorporate Contract Changes to Section J.11 Deliverables in the Technical Baseline



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	FY17 Budget	FY17 Management Reserve	Post Contract Budget	Post Contract Mgmt Reserve	Total Lifecycle	Cum Lifecycle Budget
Prior PMB Total	Jan 2017	1,230,506		1,230,506	1,230,506	219,185		1,116,006		2,346,512	2,346,512
VMSA-17-004 Rev 4						0		0		0	2,346,512
VMSA-17-009						0		0		0	2,346,512
VRL40RP-17-019						(7)		(108)		(108)	2,346,404
VRL40RP-17-024						6,533		0		0	2,346,404
VRL40RP-17-027						0		0		0	2,346,404
	Feb 2017	1,230,506		1,230,506	1,230,506	225,712		1,115,899		2,346,404	
Prior Non-PMB Total	Jan 2017	604,007		604,007		93,498		467,603		1,071,610	1,071,610
VMSA-17-004 Rev 4						0		0		0	1,071,610
Revised Non-PMB Total	Feb 2017	604,007		604,007		93,498		467,603		1,071,610	
Total Contract Performance Baseline	Feb 2017	1,834,513		1,834,513	1,834,513			1,583,501		3,418,014	
Management Reserve	Jan 2017		0	0			3,667		3,747	3,747	3,747
VRL40RP-17-019							108		108	108	3,855
Revised Management Reserve	Feb 2017		0	0			3,775		3,855	3,855	
Total Contract Budget Base				1,834,513				1,587,357		3,421,870	
Prior Fee Total	Jan 2017	109,961		109,961		21,547		100,122		210,082	210,082
Revised Fee Total	Feb 2017	109,961		109,961		21,547		100,122		210,082	
Change Log Total	Feb 2017			1,944,473				1,687,478		3,631,952	



10.0 RISK MANAGEMENT

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

- The Risk Management Board was held to review and approve the proposed new and closed risks, and review the overall company risk posture associated with December 2016 and January 2017 data. The following items were approved:
 - Four new Mission risks; two related to Public Works, one related to Information Management, and one related to Emergency Services.
 - One new Programmatic risk, related to the Public Services proposed Water Treatment Facility.
 - One closed Mission risk, related to Public Works.
 - Five new Reliability Project risks for projects L-761, *RFAR Phase II*; L-775, *Chip Seal Route 4S, Canton Ave to the Wye Barricade*; L-776, *Chip Seal Route 4S, Wye Barricade to 618-10 Waste Site*; L-777, *Chip Seal Route 4S, 618-10 Waste Site to Horn Rapids Road*; and L-789, *Prioritized T&D System Wood Power Poles Testing and Replacement*.
 - Twenty-four closed Reliability Project risks for Projects L-419, *24" Line Renovation / Replacement from 2901U to 200E*; L-525, *24" Line Renovation / Replacement from 2901Y to 200E*; L-612, *230kV Transmission System Sustainability Upgrades*; L-775, *Chip Seal Route 4S, Canton Ave to the Wye Barricade*; L-776, *Chip Seal Route 4S, Wye Barricade to 618-10 Waste Site*; L-777, *Chip Seal Route 4S, 618-10 Waste Site to Horn Rapids Road*; L-840, *24" Line Renovation/Replacement from 2901Y to 200W Area*.
- Risk Reporting:
 - In accordance with the MSC-PLN-ENG-42375, *Hanford Mission Support Contract Risk Management Plan*, the monthly Risk Management report was submitted to the RL Contracting Office (December data). Additionally, the report consisting of January data was submitted to the RL Contracting Office at the end of February.
- Mission Risk Management:
 - Mission Risk Elicitations – Risk Management met with the Chief Operations Officer to finalize a draft risk associated with non-contractual agreements. Additional actions included:



- Risk Management met with Emergency Services to review and edit a draft risk related to the availability of the 400 Area Fire Station. This risk was approved by the Risk Management Board (RMB).
 - Risk Management met with Emergency Services/Hanford Fire Department representatives to draft two risks associated with Fire System Maintenance. These risks are anticipated to be presented at the next RMB for approval.
Also, the team met with Site Services & Interface Management/Fleet staff to develop a risk associated with new Fall Protection requirements. This risk is anticipated to be presented at the next RMB for approval.
 - Risk Management met with Information Management (IM) personnel to review the FY 2017 IM-related infrastructure activities to determine which, if any, of these activities qualifies as a Project requiring Risk Management. None of these activities meet the minimum requirement to be classified as a Project; however, other areas for potential risk elicitation were discussed, and will be pursued in follow-on meetings.
- Mission Risk Review – Risk Management met with the Public Works/Water Utilities and Electrical Utilities teams to review and update the existing risk registers for each scope. Updates were captured as necessary, and two new risks are in development.
- Project Risk Analysis:
 - Project Risk Review and Update – The monthly risk review was performed with the Project Manager to review and revise the White Bluffs Bank rehabilitation project risk register. Updates to the risk register were captured as appropriate.
 - Reliability Project Risk Review and Update – The monthly risk review was performed with the Project Manager to review and revise the Reliability Project risk registers. Risk Management performed reviews of fourteen projects this month. Updates to each of their risk registers were captured as appropriate.
 - Monte Carlo Quantitative Risk Analysis – The corrected final Monte Carlo quantitative analyses were completed for Projects L-612, 230kV



Transmission System Sustainability Upgrades, and L-830, Filter Plant Control System Upgrade. The analysis results were approved.

- Risk Management reviewed the monthly Operations Project Reports for each reliability project and any related Key Risks for monthly reporting to DOE.
- Other Support:
 - Client Interface – The recurring Quarterly RL/MSA Risk Management Interface meeting was held with the RL Assistant Manager for Mission Support and his directors. Risk Management communicated the progress made during the pilot meetings, and the proposed path forward for future interfaces. Challenges associated with capturing risk impacts to other Hanford contractors were also discussed, along with future state program goals.
 - Management Reserve (MR) Drawdown Curves development – The Risk Management team completed a Reliability Project MR Drawdown Curve for each active Reliability Project with an approved Baseline Change Request. An overall RL-40 MR Drawdown Curve was completed to reflect these projects. An MR Drawdown Curve for Mission risks is also in development.
 - Contract Change Proposal Support – Risk Management supported the kickoff for two contract change proposals, one related to performing Air Modeling for Site Access, and one related to Long Term Stewardship of the 100-N and 100-IU-6/Segment 4B Areas.
 - Request for Services (RFS) Proposal Support – A risk review was performed of two RFS proposals, one associated with supporting Savannah River Site Strike Contingency, and one associated with providing Hanford Site Evaluation Support for Potential Transport Route Improvements on DOE Property. These proposals had appropriate scope assumptions, and no expected risk impacts.
 - Structured Improvement Activity – The MSA Risk Realization Tracking and Reporting Process Development Kaizen was held on February 1-2, 2017. A draft process to capture the cost and schedule impacts of realized risks will be briefed to the executive management team for approval and implementation.



11.0 DASHBOARD SUMMARY

Table 11-1. Performance Evaluation and Measurement Plan

February FY 2017					
2017 Performance Evaluation and Measurement Plan					
Deliverables	Plan	MSA	Status		
			YTD	FEB	
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.	9/30/2017	Brockman	
		a Biological Controls – Pest Removal		Synoground	
		b Biological Controls – Tumbleweed Removal		Synoground	
		c Biological Controls – Vegetation		Synoground	
		d Crane and Crew Support		Brockman	
		e Electrical – Power Availability		Synoground	
		f Facilities Maintenance		Brockman	
		g Fire Protection System Maintenance		Walton	
		h Fleet Services – Heavy Equipment (Cranes)		Brockman	
		h Fleet Services – Heavy Equipment (Evacuators)		Brockman	
		h Fleet Services – Heavy Equipment (General Purpose)		Brockman	
		i Fleet Services – Light Equipment (Hanford Patrol)		Brockman	
		i Fleet Services – Light Equipment (Hanford Fire)		Brockman	
		i Fleet Services – Light Equipment (Special Purpose Trucks)		Brockman	
		j IT - Cyber Security – System Patching		Eckman	
		k PFP Support - Loaned Labor		Brockman	
		l Public Works - Maintenance Backlog		Metzger	
		m RSS - Dosimetry External Services		Wilson	
		n RSS - Instrument Calibration		Wilson	
		o Spent Fuel Activity Support - Loaned Labor		Brockman	
		p Water – Potable		Synoground	
		p Water – Raw		Synoground	
		1.1.2		Implement FY17 actions per the approved schedule of the MSC-PLN-ENG-56352 <i>Maintenance Management Program Management Plan</i> , Rev 2 and HNF-56046, rev 5, <i>MSA Maintenance Management Program Five-Year Plan</i> .	9/30/2017
1.1.3	Transition Public Works Maintenance Backlog process to required Deferred Maintenance Management process.	9/30/2017	Synoground		
1.1.4	Complete approved project investment portfolio elements as measured by the cost/schedule performance index, which is calculated as (CPI + SPI)/2.	9/30/2017	Brockman		

LEGEND

- = On schedule
- = Complete
- = In jeopardy

- = Objective missed
- = N/A



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

February FY 2017 2017 Performance Evaluation and Measurement Plan					Status	
Deliverables			Plan	MSA	YTD	FEB
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	Maximize efficient MSA use of resources to meet the other Hanford contractors' changing project needs.	9/30/2017	Brockman		
	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 10/15/16 and implement FY17 actions per the approved schedule.	9/30/2017	Synoground		
	2.1.3	Demonstrate effective safety and quality management to include, but not be limited to, a robust Contractor Assurance System.	9/30/2017	Jensen		
	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.).	9/30/2017	Brockman		
	2.1.5	Apply disciplined work controls to Fire Systems Maintenance by fully emulating Phoenix to maximize safety, compliance, and integration with OHCs for site fire systems.	9/30/2017	Walton		
	2.1.6	Provide Hanford contractors with integrated tools to maximize "wrench time."	9/30/2017	Metzger		
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.			9/30/2017	Wilkinson		
Provide leadership to improve management effectiveness and collaborate and participate proactively with customers.						
Work with DOE and the other Hanford contractors in a spirit of cooperation to demonstrate operational excellence to include, but not limited to, the following areas:						
o Business and financial management using approved purchasing, estimating, property, budget, planning, billing, labor, accounting, and performance measurement systems, providing visibility and transparency to DOE with respect to each of the foregoing						
o 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						
o Safeguards and security, fire department operations, emergency response, and emergency operations/emergency management						
o Land Management						
o Infrastructure and services program management, operations and maintenance						
o Effective contractor human resources management						
o Problem identification and corrective action implementation						
Performed work safely and in a compliant manner that assures the workers, public, and environment are protected from adverse consequences						

LEGEND

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



12.0 CONTRACT DELIVERABLES STATUS

The following itemizes the contract deliverables due to RL in February, and provides a 30-day look ahead through March 2017.

Table 12-1. February – March 2017 Contract Deliverables

CDRL	Deliverable	Responsible	Date Due	Date Submitted to DOE	Action	Response Time	Date Due from DOE	Date Approved by DOE
CD0123	Monthly Billing Reports for DOE Services - Jan	Eckman	2/5/17	1/24/2017	Information	N/A	N/A	N/A
CD0051	Milestone Review and IAMIT Meeting Minutes - Nov	Wilson	2/9/17	1/31/2017	Information	N/A	N/A	N/A
CD0144	Monthly Performance Report - Dec	Olsen	2/10/17	2/8/2017	Review	None	N/A	N/A
CD0038	Summary of Fire and Other Property Damage Experienced	Walton	2/15/17	2/15/2017	Review	30 days	3/18/17	
CD0084	Bonneville Power Administration (BPA) Power and Transmission Service invoice verification and breakdown of site contractor costs - Dec	Synoground	2/28/17	2/27/2017	Review	30 days	3/27/17	
CD0051	Milestone Review and IAMIT Meeting Minutes - Jan	Wilson	TBD*	No Meeting Held	Information	N/A	N/A	N/A
CD0123	Monthly Billing Reports for DOE Services - Feb	Eckman	3/5/17	2/27/2017	Information	N/A	N/A	N/A
CD0144	Monthly Performance Report - Jan	Olsen	3/10/17	3/8/2017	Review	None	N/A	N/A
CD0101	Draft CERCLA 5-Year Review Report for the Hanford Site	Synoground	3/20/17		Approve	45 days		
CD0036	Hanford Site Prescribed Fire Plan	Walton	3/30/17		Approve	30 days		
CD0084	Bonneville Power Administration (BPA) Power and Transmission Service invoice verification and breakdown of site contractor costs - Jan	Synoground	3/30/17		Review	30 days		
CD0020	Transmitter Review	Walton	3/31/17		Approve	60 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 2017:

- GF049, due June 1, 2017: DOE to provide a Hanford “planning case” budget to prepare the updated *Hanford Lifecycle Scope, Schedule, and Cost Report*, and
- GF050, due October 31, 2017: DOE Approval of the *DRAFT Hanford Lifecycle Scope, Schedule, and Cost Report* (Lifecycle Report).

On-time delivery of both of these items is anticipated.



13.0 SELF-PERFORMED WORK

Table 13-1. Mission Support Contract Socioeconomic Reporting.

Plan Category	MSA Goal	FY 2017 Actual To-Date	Cumulative %
Small Business	50.0%	84.9%	55.2%
Small Disadvantaged Business	10.0%	28.0%	16.3%
Small Women-Owned Business	6.8%	24.7%	11.9%
HubZone	2.7%	13.9%	4.4%
Small Disadvantaged, Service Disabled	2.0%	10.7%	4.6%
Veteran-Owned Small Business	2.0%	11.1%	6.1%

Through February 2017

Prime Contract Targets:

- At least 40% contracted out beyond MSA, LLC = 47% (\$1,390M/\$2,980M)
- Small Business 25% of Total MSC Value = 26% (\$770M/\$2,980M)



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SERVICE AREA SECTIONS

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

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



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MISSION SUPPORT ALLIANCE

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Business Operations

Rich Olsen, Vice President and Chief Financial Officer

Monthly Performance Report

February 2017



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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, contract and subcontract administration, and financial controls to effectively manage the Mission Support Contract (MSC). Business Operations is responsible for activities that include Finance and Accounting (F&A), Program Controls, and Contracts.

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). Contracts 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; assigns and tracks all open action items to completion; and provides Property and Warehouse Management services, including Inventory Management, Excess Property, Receiving, Warehousing, Shipping, Stores Delivery, and Courier Services.

KEY ACCOMPLISHMENTS

PROGRAM CONTROLS

Performance Incentive (PI) 2.1.4 Self-Assessment – The integration self-assessment for PI 2.1.4, *Effective Planning, Organizing, Controlling and Reviewing Activities*, is complete, and the draft report has been prepared. The draft report includes five top-priority improvement opportunities with action plans. MSA briefed the RL Assistant Manager for Mission Support on the opportunities and actions on February 28, 2017. The final self-assessment report with recommendations and action plans is due to RL by March 31, 2017.

CONTRACTS AND PROCUREMENT

Small Business Utilization – MSA Supply Chain Management continues to drive small business utilization to new levels. For FY 2017 year to date, all socioeconomic subcategories are at triple digits over the contractual goals. Some key highlights



through February 2017 include Small Business at 84.91% against a goal of 50%; Small Woman Owned business at 24.65% against a goal of 6.8%; and Service Disabled Veteran Owned business at 10.66% against a goal of 2%. Overall, 47% of the contract value is outsourced, and 25.8% is outsourced to small business, both exceeding the contractual requirements.

Strategic Agreements Support and Cost Savings -- MSA continues to support the National Nuclear Security Administration and Environmental Management (NNSA/EM) Supply Chain Management Center in utilization of Strategic Agreements. Through the first quarter Fiscal Year (FY) 2017, MSA realized \$1.6 million (M) in cost savings associated with Government Strategic Sourcing agreements against a goal of \$1.2M, and an additional \$1.8M in other savings for a total of \$3.4M in documented savings.

PROPERTY AND WAREHOUSE MANAGEMENT (P&WM)

Warehouse Working Group – In February, MSA implemented the Warehouse Working Group to evaluate common issues and concerns with Hanford Warehousing and Logistics. Benefits are already starting to be seen.

Software Update – The MSA Warehouse teamed with the MSA Business Systems organization to successfully add the Data Migration Toolkit to the existing Sunflower¹ Asset Management System software. This tool allows users to make direct mass property record updates rather than 1) performing them one record at a time, or 2) having database administrators perform the changes through the “back end” of the system, which at times has resulted in corrupted data. As an example, shortly after installation of the tool, updates were made to over 11,000 property records in approximately 20 minutes, a fraction of the time previously required. This tool is available to all the contractors using MSA’s instance of Sunflower, as well as RL and the DOE Office of River Protection (ORP).

ISMS Surveillance – During the month, Property and Warehouse Management received the out brief/final report of a recent ISMS surveillance performed by members of MSA’s Safety and Health Program Support group. The surveillance identified one finding, one opportunity for improvement and three good practices. The surveillance team was also complimentary of the group’s attitude toward safety and willingness to accept ideas to improve safety posture.

Support to WRPS – Warehouse Operations provided Storekeeper support on February 24, 2017 in support of WRPS. The work was to validate the physical inventory

¹ Sunflower Asset is a trademark of the Sunflower Systems company, San Ramon, CA 94583



of Convenience Storage items against what is recorded in the Asset Suite Inventory Module.

FINANCE AND ACCOUNTING

Financial Services – As of February 2017, MSA performed payroll/accounting for other Hanford contractors, as noted below:

- Processed 54,439 paychecks/advices for CHPRC and Washington River Protection Solutions LLC (WRPS) employees;
- Processed 8621,168 physical checks to vendors for Fluor Hanford, Inc. (FH), CHPRC, and WRPS;
- Processed 1,990 electronic payments to vendors for FH, CHPRC, and WRPS;
- Processed 18,448 timecard corrections for CHPRC, and WRPS.
- Performed manual entry and approval of 1,119 timecards for those on short-term disability for CHPRC and WRPS.

Property Management System – MSA's Property Management System was approved by RL based on corrective actions MSA developed and implemented to address concerns stated in the KPMG audit of the system.

Rate Reviews Process – The Business Operations Change Control Board (BOCCB) met on February 14, 2017 and determined the mid-year Forward Pricing Rates review schedule:

- Absence/Continuity of Service Rates (ABS/COS): Due to multiple unknown factors such as the HEWT rate finalization, the board agreed that a full rate recalculation should be done in April using data through March to capture the unknowns and provide a more accurate status. At that time a rate change will be proposed.
- Direct Labor Adders (DLAs): the Software Engineering, Content & Records Management, Transportation, Maintenance, and Janitorial direct labor adders were reviewed and it was noted that the DOE moves and inclement weather significantly impacted the Transportation DLA, which will likely require a rate change in second quarter. The weather also slowed down the work for Maintenance activities because of unsafe conditions. The Janitorial staff has been operating on average four full time employees (FTEs) below planned levels due to delays in hiring and employees on short-term disability. A full rate recalculation will be done in April using March data to determine necessary rate changes for these direct labor adders.



- General and Administrative (G&A) Rate: For Fiscal Year (FY) 2017 first quarter, the G&A is over liquidating by 0.5 percent. A full rate recalculation will be done in April using March data to determine if a rate change is necessary.

LOOK AHEAD

FY 2018 – FY 2019 Integrated Investment Portfolio (IIP) Planning – RL and MSA have begun working together to develop the key planning assumptions, objectives, and initiatives for the FY 2018 Contract/Baseline Alignment Guidance (C/BAG).

Time Information System Certification – Beginning in March 2017, when submitting either original or corrected time cards, employees will receive a pop-up message requesting their concurrence and certification that the time recorded is true, accurate, and complete to the best of their knowledge. Time cards will not be submitted until employees click on the “OK” button in the pop-up window. The purpose of adding this to the time card submittal process is to better ensure employee compliance to company policy and/or the applicable Collective Bargaining Agreement.

MAJOR ISSUES

None to report.

SAFETY PERFORMANCE

There were no Occupational Safety and Health Administration (OSHA) or First Aid Injury cases reported for Business Operations in February 2017.



BASELINE PERFORMANCE

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

Fund Type	February 2017					Contract-to-Date				
	BCWS	BCWP	ACWP	SV	CV	BCWS	BCWP	ACWP	SV	CV
RL-0011 – Nuclear Mat Stab & Disp PFP	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$1.3	\$1.3	\$1.3	\$0.0	\$0.0
RL-0012 – SNF Stabilization & Disp	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.5	\$0.5	\$0.5	\$0.0	\$0.0
RL-0013 – Solid Waste Stab & Disp	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$1.6	\$1.6	\$1.6	\$0.0	\$0.0
RL-0020 - Safeguards & Security	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.5	\$0.5	\$(4.0)	\$0.0	\$4.5
RL-0030 – Soil & Water Rem-Grndwtr/Vadose	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$1.4	\$1.4	\$1.4	\$0.0	\$0.0
RL-0040 - Nuc. Fac. D&D – Remainder Hanford	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$2.8	\$2.8	\$0.7	\$0.0	\$2.1
RL-0041 - Nuc Fac D&D - RC Closure Proj	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Site-wide Services	\$0.8	\$0.8	\$0.9	\$0.0	(\$0.1)	\$88.0	\$88.0	\$63.1	\$0.0	\$24.9
Subtotal	\$0.8	\$0.8	\$0.9	\$0.0	(\$0.1)	\$96.1	\$96.1	\$64.6	\$0.0	\$31.5

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], and 3001.90.04 [MSA Transition])

Current Month Cost Variance (\$0.1M) – February negative cost variance due to 2430 Stevens Relocation costs incurred as a result of ongoing move activity.

Contract-to-Date (CTD) Cost Variance +\$31.5M – The positive CTD cost variances in RL-20, RL-40 and Site-wide Services are primarily due to September 2016 credits associated with Affiliate Fee on Information Technology scope and Training on Overtime pending final resolution.



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MISSION SUPPORT ALLIANCE

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Emergency Services

Craig Walton, Vice President

Monthly Performance Report

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Fire Ops Recruit Training by Hanford Fire Department



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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)

Evaluation of Independent Drill for Credit – On February 16, 2017, Emergency Management personnel evaluated the Independent Drill for Exercise Credit at the CH2M Hill Plateau Remediation Company (CHPRC) Plutonium Uranium Extraction facility. In addition, EMP provided a control cell in the Emergency Operations Center (EOC) to enhance the drill participation for the CHPRC facility emergency response organization. In conjunction with the drill, EMP staff conducted a Unified Dose Assessment Center (UDAC) training session to help EOC UDAC responders maintain proficiency.

TriTech Computer Aided Dispatch and 911 Call Taking Solution Demonstration – In February, Emergency Services personnel hosted a demonstration by TriTech Software Systems on Computer Aided Dispatch and 911 Call Taking solutions. Team members from Emergency Management, Hanford Patrol and Hanford Fire attended the demonstration to evaluate the technology for use in their integrated programs for emergency response.

Approved Deliverable – On February 6, 2017, Emergency Management personnel received approval for the U.S. Department of Energy (DOE) Richland Operations Office (RL) Deliverable, *Continuity of Operations Plan*.

Radiological Assistance Program (RAP) Region 8 Support – Members attended the National RAP meeting in Phoenix, AZ, February 19-25, 2017, and also provided support to the ORCA Exercise mid-planning conference in Anchorage, Alaska, February 21-23, 2017.

Contract Deliverable (CD) Approved – CD0043, *Limited Emergency Preparedness Evaluation/Training Exercise Report*, was approved by RL on February 28, 2017.



HANFORD FIRE DEPARTMENT (HFD)

Self-Contained Breathing Apparatus (SCBA) Re-Certification – HFD personnel completed the inspection, testing, and repair of approximately 300 SCBA regulator/rack units for Washington River Protection Solutions (WRPS). As a result of actions performed by the HFD Support Services group, these actions were completed in less than 15 days. This outstanding effort allowed WRPS to minimize impacts to important work which would have resulted from SCBA unavailability.

Successful Breathing Air System Compressor Maintenance – HFD completed a full rebuild on Compressor #1 for the Breathing Air System on February 23, 2016. A considerable amount of other maintenance on the compressor was also completed at this time, including drain valves, safety valves, and oil, antifreeze, and air filters change out.

Contract Deliverable Submitted – On February 15, 2017, CD0038, *Summary of Fire and Other Property Damage Experienced*, was submitted to RL for approval.

SAFEGUARDS AND SECURITY (SAS)

SAS Survey Results – SAS personnel received results on February 7, 2017, from two DOE surveys conducted from October 2014 through July 2016. The surveys rating was Satisfactory.

Safeguards and Security CD Approved – CD CD0010, *Patrol Security Incident Response Plan*, was approved by RL on February 24, 2017.

LOOK AHEAD

Nothing to report

MAJOR ISSUES

Nothing to report

SAFETY PERFORMANCE

Emergency Services reported no Occupational Safety and Health Administration (OSHA) recordable injuries in February. There were two minor First Aid cases reported, both involving employees slipping on ice.



BASELINE PERFORMANCE

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

Fund Type	February 2017					Contract-to-Date				
	BCWS	BCWP	ACWP	SV	CV	BCWS	BCWP	ACWP	SV	CV
HSPD-12 (RL-0011,RL-0012, RL-0013, RL-0030)	\$0.2	\$0.2	\$0.2	\$0.0	\$0.0	\$3.1	\$3.1	\$2.7	\$0.0	\$0.4
RL-0020 - SAS	\$4.2	\$4.2	\$4.3	\$0.0	(\$0.1)	\$424.3	\$424.3	\$439.2	\$0.0	(\$14.9)
Site-wide Services	\$1.9	\$1.9	\$2.8	\$0.0	(\$0.9)	\$194.0	\$194.0	\$211.00	\$0.0	(\$17.0)
Subtotal	\$6.3	\$6.3	\$7.3	\$0.0	(\$1.0)	\$621.4	\$621.4	\$652.9	\$0.0	(\$31.5)

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

Explanation of Fund Type Assignments by Project Baseline System (PBS) and Work Breakdown Structure (WBS): Homeland Security Presidential Directive (HSPD-12) work was funded by four different PBSs (RL-0011, RL-0012, RL-0013, RL-0030) in FY 2016 under WBS 3001.01.05.02, and carryover funding of \$1.1M will be spent against the HSPD-12 scope in FY 2017. New FY 2017 HSPD-12 funding and scope is now funded under Site-wide Services, WBS 3001.01.05.04. Other areas funded by Site-wide Services are HFD, WBS 3001.01.02, Site-wide Emergency Management, WBS 3001.01.03, and Emergency Services Management, WBS 3001.01.05.01. PBS RL-0020 (Safeguards and Security) work is budgeted under WBS 3001.01.01.

BASELINE PERFORMANCE VARIANCE:

Current Month (CM) Cost Variance (CV) (-\$1.0M) – CM unfavorable CV is attributed to several baseline differences as described in the Contract-to-Date variance. ES is working to RL-directed contract baseline re-alignment guidance that provides for a higher spending target than the baseline.

Contract-to-Date CV (-\$31.5M) – The primary drivers for the unfavorable CTD 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. The above activities are being worked according to 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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MISSION SUPPORT ALLIANCE

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Environmental, Safety, & Health

Mike Wilson, Vice President

Monthly Performance Report

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YOU are at the Intersection of MSA Safety and Environmental Programs

Voluntary Protection Program
Integrated Safety Management System

Environmental Mgmt System
Automated Job Hazard Analysis
Employee Job Task Analysis

Stop Work Authority
Zero Accident Council

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

2010-10-0116 Rev 0
October 21, 2010



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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/Hanford Guards Union
- Safety Representatives;
- Environmental Integration Services (EIS);
- Public Safety & Resource Protection (PSRP); and
- Radiological Site Services

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

Tri-Party Agreement (TPA) Support – In February, EIS was tasked by the Department of Energy (DOE), Office of River Protection (ORP) with providing information on the origins of TPA Section 11.8, which deals with ORP's reporting of "critical path" schedule items. ORP appreciated EIS' support and noted that the information provided is key to a position they will be taking with Hanford regulators.

EIS also provided training on the TPA to a new DOE attorney and a new DOE Richland Operations Office (RL) Project Manager. Topics addressed included its origin, legal tenets, structure, implications, roles and functions.

10-Year Compliance History – EIS provided support to CH2M Plateau Remediation Company (CHPRC) by compiling the *10-Year Compliance History* for the Hanford Site in support of a Notice of Intent (NOI). CHPRC is working on Resource Conservation and Recovery Act permitting documents for the newly proposed Dry Storage Facility for the Waste Encapsulation and Storage Facility capsules. CHPRC intends to file an NOI with the State of Washington Department of Ecology for the new facility.



Food and Farm Sampling – During the month, PSRP Environmental Surveillance (ES) personnel completed wine sample collections in the Mattawa, WA and Columbia Basin areas. Analytical results are provided in the *Hanford Site Environmental Report*, and are used to demonstrate compliance with the public dose limits, including calculations to determine the Maximally Exposed Individual Pathway for food and farm products. In conjunction with this sampling, RL conducted an Operational Assessment (OA) of the event. The results of the OA include commendations for exemplary personnel performance (i.e., event preparation and coordination, pre-job safety briefing, and sample collection technique), and a recommendation to reduce the number of wineries from three to two for Calendar Year 2017.

Look Ahead

300 Area Water System Transfer – EIS met with drinking water and waste water points of contact from Pacific Northwest National Laboratory (PNNL) to discuss the transition process for the transfer of 300 Area water and sewer permits from MSA to PNNL. To ease the transition, PNNL took the action to schedule a future meeting with MSA's Water & Sewer Utilities (W&SU) management and the drinking water compliance officer to coordinate testing of the chlorination system while the drinking water system permit is still MSA's responsibility.

2017 Safety Connect – MSA is planning and developing the 2017 Safety Connect that is scheduled for April 18 – 19, 2017, at the TRAC facility in Pasco, Washington. Safety Connect, which is solely sponsored by MSA, will leverage best practices from the previous Health & Safety Exposition while expanding Hanford and community participation, involving new stakeholders, and increasing Science, Technology, Engineering and Math (STEM) involvement. Focus areas include safety, science of safety, STEM/higher education, first responders, and health & work/life balance. Coordinated efforts between RL, MSA, and CHPRC are underway to create a transportation and shipping of radioactive material scenario that will be demonstrated in the arena during the event.

Hanford Earth Month Website Update – EIS plans to create online links for activities relating to Earth Month (April), with direct communication for events. EIS utilized community outreach by incorporating "Go Green Tri Cities" activities with the public into their Earth Month plans.

Data Management Replacement Program – MSA's Worker Protection organization is replacing the aging radiological area access control programs. The Access Control/Entry System and the Automated Radiological Access Control System currently used on site



will be replaced with a newer, more versatile access control program, called Sentinel¹. The Sentinel software is in the early stages of implementation across all contractors at the Hanford Site. Full deployment of the system is expected in 2018.

In addition, PSRP is evaluating Sentinel as a potential replacement of the aging data management and reporting software for Hanford facility effluents and ES data (the automated bar coding of all samples at Hanford, and the Environmental Release System). While reviewing Hanford's Environmental Data Systems existing data system solutions that may be able to satisfy MSA data management needs, MSA conferred with the DOE Office of Legacy Management database manager to discuss DOE's use of EQuIS Professional², one of the commercially available software platforms.

MAJOR ISSUES

2607-W16 Z1 Lift Station – EIS and W&SU management and engineering staff are in discussions with the Washington Department of Health (WDOH) to determine acceptable options for managing sewage from buildings previously supported by the Z1 lift station. The Z1 Lift Station was isolated from service after radiological contamination was discovered on the lid of the lift station during demolition of the Plutonium Finishing Plant. This isolation interrupted sewer service to a number of nearby Hanford office buildings. WDOH agreed that MSA can utilize the storage capacity of the piping and manholes upstream of the lift station (approximately 5,500 gallons). This will be a temporary measure to support the disrupted buildings. Provided it meets the applicable regulatory requirements for a holding tank sewage system, this can be done without a permit, and without altering the existing onsite sewage system permit. An assessment containing diagrams and calculations is being prepared for WDOH. Until plans are approved and implemented, the water supply to affected buildings has been turned off.

SAFETY PERFORMANCE

ES&H reported no Occupational Safety and Health Administration (OSHA) Recordable injuries in February, although one ES&H employee was involved in a minor, no-injury accident while operating a government vehicle. The employee failed to stop when other traffic stopped, and hit a private-use vehicle.

¹ Sentinel is a product of PTI Systems, of League City, TX

² EQuIS Professional is a product of EarthSoft, Inc., of Pensacola, FL



BASELINE PERFORMANCE

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

Fund Type	February 2017					Contract-to-Date				
	BCWS	BCWP	ACWP	SV	CV	BCWS	BCWP	ACWP	SV	CV
Site Wide Services	\$2.3	\$2.3	\$2.3	\$0.0	\$0.0	\$214.6	\$214.6	\$217.1	\$0.0	(\$2.5)
Subtotal	\$2.3	\$2.3	\$2.3	\$0.0	\$0.0	\$214.6	\$214.6	\$217.1	\$0.0	(\$2.5)

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 (CM) Cost Variance (CV) (\$0.0M): – CM is within threshold.

CTD CV (-\$2.5M) – The unfavorable CTD CV is primarily due to the approved funding and work scope continuing at a higher level of support than assumed in the contract baseline. There are no other potential contributing factors. Prior to Fiscal Year (FY) 2014, funds and budget were more closely aligned, resulting in minimal variances. In FY 2014, the Environmental funding was virtually cut in half, resulting in staffing reductions and CTD underruns. In FY 2015, the Environmental funding was restored, and then both Environmental and Safety/Health programs received funding increases to support the level of service required by the Hanford Site. The resulting overruns consumed the prior CTD underrun. In FY 2016, the funding was again significantly higher than budgeted values, resulting in additional CTD overruns.

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Human Resources

T.A. Beyers, Vice-President

Monthly Performance Report

February 2017



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INTRODUCTION

Mission Support Alliance (MSA) Human Resources (HR) is tasked and responsible for providing a full-range of HR support to its customers. The organization is comprised of the following areas of expertise:

- Staffing/Diversity and Development;
- Total Compensation;
- Benefits Accounting/Pension & Savings Management;
- Labor/Employee Relations; and
- HR Technical Projects.

The HR organization, in support of direct MSA operations, is committed to developing and delivering programs that promotes and enhances MSA's ability to recruit, develop and retain a diverse and highly skilled MSA workforce to support Hanford's current and future missions.

In addition, as a Hanford site-wide service provider, HR serves as the administrator for multiple Hanford site employee benefit plans. As the administrator, HR ensures administration and delivery of market competitive employee benefit plans, including health & welfare and pension, to MSA and other Hanford contractor employees.

In both roles, HR is committed to addressing all customers in a fair, honest, ethical and confidential manner. Through partnership and collaboration with all customers and stakeholders, it is the organization's priority to advance strategic outcomes, promote well-informed decisions, and proactively address customers' needs while exceeding expectations.

KEY ACCOMPLISHMENTS

Service Contract Act Fringe Benefit Adder Information Sessions – MSA HR held information sessions for current and former non-union, non-exempt employees to educate them on the Mission Support Contract requirement associated with the Service Contract Act's (SCA's) Fringe Benefits Adder. The SCA's Fringe Benefit Adder is an hourly rate due to specific employees. In lieu of the Fringe Benefit rate, the employer may provide company-paid benefits to the employees that are equal to, or in excess of, the hourly rate. An amount is owed to the employee on a bi-weekly basis when the company-provided benefits are less than the rate for the hours worked during the pay period. In February, HR staff were able to meet on an individual basis with 81% of the



employee population that may be affected by the implementation of the Fringe Benefit Adder.

STAFFING/DIVERSITY & DEVELOPMENT

Career Development Workshop – MSA Staffing Diversity, & Development team members presented the second of five career development modules at Goodwill Industries on February 24, 2017. Feedback from the workshop was positive. Representatives from Goodwill Industries are also interested in partnering with MSA at its “Career Connect” event, currently scheduled for October 2017, which will provide opportunities for disability and diversity outreach efforts.

Breakfast of Champions Award Ceremony – On February 28, 2017, MSA’s HR organization hosted the “Breakfast of Champions” award ceremony, a recognition event that allows managers and employees to celebrate the exceptional and outstanding performance of MSA employees across the company. A total of 36 award recipients participated in the event. Since its inception, a total of 170 honorees have been recognized at the event. MSA “Breakfast of Champions” recognition events are typically conducted three times each calendar year; the next ceremony is planned for the summer of 2017.

TOTAL COMPENSATION

Hanford employee Welfare Trust – 1095-B Reporting – The Internal Revenue Service (IRS) announced an extension of the reporting requirements of the 1095-B forms to be postmarked and delivered to persons covered on MSA’s Health Insurance plans during calendar year 2016. HR staff completed and mailed over 5,000 forms, and met the deadline date of March 2, 2017.

BENEFITS ACCOUNTING

Pension and Savings Committee Meeting – MSA HR personnel coordinated and participated in the fourth quarter Hanford Site Pension and Savings Committee Meeting held on February 27, 2017. At the meeting, a decision was made to move forward with the preliminary work necessary to offer a Roth 401(k) option in the Operations and Engineering Investment Plan. Prior to implementation, amendments will be drafted, an implementation fee will be negotiated with the investments vendor (The Vanguard Group), and approval will be requested consistent with the H-2 clause of the Mission Support Contract. The possibility of periodic, automatic re-enrolling of participants who are not currently contributing to the Hanford Site Savings Plans along with a “One-Step” automatic increase in percentage deferrals was discussed for future



consideration. Other topics included pension and savings plan investment performance and fees, the transition from High-Yield debt investment to Bank Loans investments, Pension and Savings Plan budget vs. actual costs, and legal updates.

LABOR/EMPLOYEE RELATIONS

MSA Labor/Employee Relations – MSA Labor/Employee Relations personnel maintained open and effective lines of communication with various organizations to resolve issues and concerns at the lowest levels to ensure efficient and effective administration and consistent interpretation of the Hanford Atomic Metal Trades Council (HAMTC) and Hanford Guards Union (HGU) Labor Agreements. Communications with the Unions include weekly meetings with Hanford Atomic Metal Trades Council leaders, bi-weekly meetings with Hanford Guards Union leaders, and monthly meetings with the Central Washington Building Trades Council. Monthly interface meetings with other Hanford Site contractor signatories to the HAMTC Labor Agreement (CH2M HILL Plateau Remediation Company, Washington River Protection Solutions LLC, and Wastren Advantage) also include discussions on current issues and trends.

LOOK AHEAD

Nothing to report.

MAJOR ISSUES

None to report.

SAFETY PERFORMANCE

There were no OSHA recordable injuries reported in February. There were no first-aid injuries reported, and no vehicle accidents reported.



BASELINE PERFORMANCE

Table HR-1. Human Resources Operations Cost/Schedule Performance (dollars in millions).

Fund Type	February 2017					Contract-to-Date				
	BCWS	BCWP	ACWP	SV	CV	BCWS	BCWP	ACWP	SV	CV
Site-wide Services (SWS)	\$0.2	\$0.2	\$0.2	\$0.0	\$0.0	\$18.1	\$18.1	\$17.5	\$0.0	\$0.6
Subtotal	\$0.2	\$0.2	\$0.2	\$0.0	\$0.0	\$18.1	\$18.1	\$17.5	\$0.0	\$0.6

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 [3001.06.02, Human Resources])

Current Month Cost Variance (CV) (\$0.0M) – February monthly costs were on Plan.

Contract-to-Date (CTD) CV (+\$0.6M) – The positive CTD CV is a result of the ongoing cost credits received by the SWS Pension Plan account, from the Hanford Site Pension Plan trust fund.

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Information Management

Todd Eckman, Vice President

Monthly Performance Report

February 2017



Support Building for 300 Area tower being removed from service.



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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 IM and site mapping services; and the Mission Service Desk.

The goal of IM is to ensure technology solutions and innovation in supporting every project's success associated with 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

CONTENT & RECORDS MANAGEMENT (CRM)

Electronic Records Management Assessment (Phase One) – MSA's CRM team completed the initial phase of the management assessment to evaluate the self-performers who have been declaring electronic records in the Integrated Document Management System (IDMS) for their respective contractors. The initial phase included reviewing the records and metadata, as well as the existing Electronic Records Authorization. The CRM team will now review the results, and finalize the assessment report.

Historic Documents Management – The CRM Document Control team met with CH2M HILL Plateau Remediation Company (CHPRC) Engineering and Document Management and Control System (DMCS) Administration representatives to review the process for entering 30-year-old documents into configuration management. While managing change for the Hanford Nuclear Site, Document Control recognizes that some changes from 30 years ago still need to be entered into a system that didn't exist at the time. Document Control is responsible for validating documents are processed correctly, and produce error-free records in accordance with U.S. Department of Energy (DOE) guidelines. With the expertise of everyone at the meeting, they arrived at a solution that ensures the documents would be entered into the DMCS correctly and without error.

BUSINESS OFFICE

IM Business Office Provides Site Move Support – The IM Business Office has been coordinating the Information Technology (IT) equipment moves, including disconnects and reconnects, for the major relocations of the DOE moves into Stevens Center, CHPRC moves into the Federal Building, MSA moves into the 851 Smart Park facility, and WRPS moves into the FERMI facility. This support will continue into May.

INFRASTRUCTURE SYSTEMS

Preparations to Vacate 300/400 Area – The expedited review of the IT Footprint Reduction Engineering Study related to the 300 and 400 Areas' telecommunications towers was completed. Preparation of work packages to vacate the 300 Area telecommunications tower and the 400 Area telecommunications tower have been initiated. In February, a roles and responsibilities meeting was conducted to coordinate the various performing organizations. Project execution will see a consolidation of IT resources and an accompanying reduction in operating costs.

Emergency Operations Center (EOC) Hanford Hotline Changes – The Network Operations Center (NOC) developed a process to transfer the Hanford Hotline to a secondary telephone number while the EOC updates Hotline messages. Previously, while the EOC was making an update, Hotline callers would receive a fast-busy signal. The new process now allows the NOC to transfer the Hotline to a message stating that the Hotline is currently being updated. When the EOC updates are complete, the NOC is able to transfer callers back to reach the updated EOC message. This new process will help eliminate confusion for Hanford Hotline callers.

Link Added to Expiration Messages – MSA IM updated password expiration notice messages to include a link to the Password Helper (PH) tool. PH assists users with creating a password that meets cyber password complexity requirements. Adding this link to the password expiration notices increases visibility to the PH tool, and will help ease the password change process for Hanford customers.

Server Updated – Administrators successfully updated the Skype for Business 2015 Server¹ infrastructure with the latest cumulative update. This update contained performance enhancements as well as fixed issues identified by Microsoft. The update was completed successfully and without user impact.

¹ Skype for Business 2015 Server is a trademarked virtual server software product of the Microsoft Corporation, Redmond, WA



Hanford Local Area Network (HLAN) Virtual Environment Upgraded – In February, MSA personnel successfully upgraded several systems improving Hanford’s overall virtual network environment. This included a major version upgrade to the thin client management console, which was a major version upgrade followed by security patching to 35 physical servers that host 957 virtual servers.

Completion of Mandatory Smart Card Login – As of February 1, 2017, all remaining standard user accounts were set to require smart card authentication to log on to the HLAN. An exemption list will continue to be maintained and reviewed for those users requiring remote access with special device needs, offsite users waiting to obtain Logical Access Control Systems (LACS) cards or users requiring multiple LACS cards. This effort brings Hanford into compliance with the Multi-Factor Authentication initiative. The result is a more secure HLAN infrastructure, with significantly enhanced protection of the information processed and stored within.

LOOK AHEAD

Site Storage and Infrastructure Refresh Project – The MSA IM organization has committed to upgrade and refresh site storage hardware. This operational project aims to reduce the IT footprint at the Hanford and provide better performance to users by taking advantage of the latest advances in storage technology. Based on the selection of a technology solution by the project team in early February, procurement activities were initiated. The procurement documents were delayed in order to secure a Terms and Conditions return clause concerning minimum performance requirements. The extension of procurement activities will not impact the project schedule.

Electronic Records Submittal Process – Members of the CRM Tri-Party Agreement working group have initiated a path forward on submitting administrative records electronically. As the team waits for the official go-ahead to process documents electronically, it is assisting the MSA customer to create a procedure-driven process. This process will cover how customers should submit documents and index the metadata and how the CRM team will process and handle documents, including sensitive documents. In addition, the CRM team is updating the indexing guides and desk procedure for the electronic process and future projects to clean up the historical metadata.

Washington Closure Hanford LLC (WCH) Records Transfer – MSA CRM staff participated in a customer support meeting with WCH, Records Management, IM, IT, and MSA Human Resources staff to discuss turning over WCH records to MSA at the end of the WCH contract. WCH plans are to transfer approximately 12,000 records to IDMS in two stages. The first stage occurred in September 2016, at the end of the WCH



contract; the second stage is planned in mid-2017 to allow for the final records to be completed.

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

Key Performance Goals (KPG) Dashboard Revision – IM is working on the development of the Fiscal Year (FY) 2017 Work Plan change to the RL KPG dashboard. This change will tie the Operations KPG 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 FY Work Plan metrics for the KPG.

MAJOR ISSUES

None to report.

SAFETY PERFORMANCE

There were no OSHA recordable injuries reported in February. There were no first-aid injuries reported, and no vehicle accidents reported.

BASELINE PERFORMANCE

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

Fund Types	February 2017					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	\$13.4	\$13.4	\$16.3	\$0.0	(\$2.9)
RL-0040 - Nuc. Fac. D&D - Remainder Hanford	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.3	\$0.3	\$0.3	\$0.0	\$0.0
Site-Wide Services	\$2.3	\$2.3	\$1.5	\$0.0	\$0.8	\$226.1	\$226.1	\$213.2	\$0.0	\$12.9
Subtotal	\$2.5	\$2.5	\$1.7	\$0.0	\$0.8	\$239.8	\$239.8	\$229.8	\$0.0	\$10.0

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



BASELINE PERFORMANCE VARIANCE

Current Month (CM) Cost Variance (CV) (+\$0.8M)

CM Site-Wide Services (SWS) (+\$0.8) – The positive CM CV is due to savings associated with the self-performance of Software Engineering Services.

Contract-to-Date (CTD) CV (+\$10.0M) – The CTD CV in these accounts is primarily due to the approved funding and Integrated Investment Portfolio (IIP) scope being divergent from the baseline. CTD CV will continue and expenditures will be in accordance with approved funding and MSA IIP scope.

RL-20 (-\$2.9M) – The baseline budget did not include Unclassified Cyber Security. Performance of this approved IIP work has resulted in an unfavorable CTD CV.

SWS (+\$12.9M) – The CTD CV in these accounts is primarily due to the approved funding, and IIP scope being divergent from the baseline. The CTD CV 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;
- IT Cross Functional Services;
- Information Systems;
- Business Management Systems;
- IM System Work Portal;
- Hanford Site Emergency Alerting System;
- Long-Term Storage;
- Major Collection Management;
- Inventory & Schedule Management;
- Information Resources and Content Management;
- Multi-Media Services; Geospatial; and
- Mail Services.

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

February 2017



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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

Analytical Tools – In February, PFM released v2.0.9 of the Ranked Integrated Priority List (RIPL) application, fourteen days ahead of schedule. Enhancements include drop-down lists and validation of Milestone Status and Change Request number entries. In addition, PFM initiated the next upgrade to the RIPL. This upgrade will remove certain legacy Master Data columns from display and exported data column lists. It will, however, retain abilities to load/edit/save old sandbox files, as well as retain original data in the Integrated Technical Data-mart (ITD), where it can be manually exported to a spreadsheet on demand. This will simplify the Master Data input for the current sandboxes, and improve the interface.

Budget Formulation – PFM provided the RL Assistant Manager for Business and Financial Operations (AMB) a review and familiarization of the new release v2.0.9 of the RIPL application, and provided an overview of the upgrades. These upgrades will provide Budget Formulation analysts with new capabilities to map and/or compare funding priorities with change requests.

Dashboards Activities – In support of the Assistant Manager for River and Plateau (AMRP), PFM deployed a new release of the Monthly Project Status Report to implement Fiscal Year 2017 updates.



Lifecycle Report – PFM completed the suitability evaluation of using the baseline case being developed for the River Protection Project System Plan Revision 8 for the 2018 Lifecycle Report. On February 28, 2017, prior to a presentation to the regulators at the Lifecycle Report Project Managers Meeting, RL and DOE Office of River Protection (ORP) personnel were briefed about the evaluation results.

Decision Management – PFM continues to be responsible for administering all actions associated with baseline management through the Hanford Contract Alignment Board (HCAB). Actions completed this period were as follows:

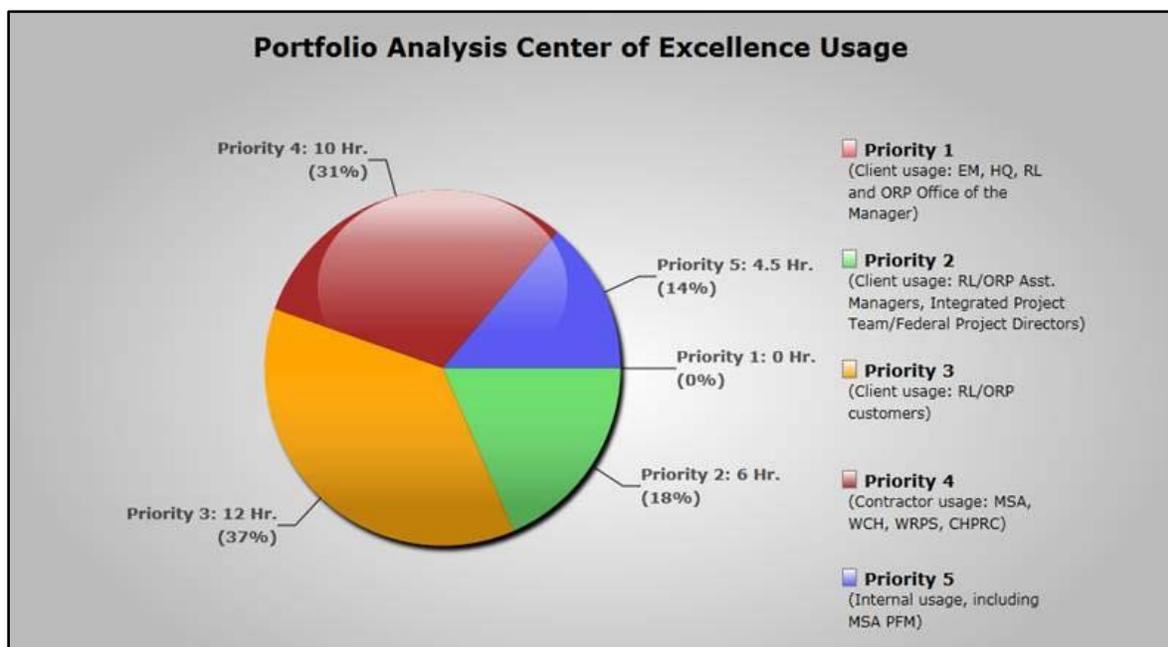
DSF(s)* Under Development	Reviewed for Completeness	IST** Review of DSF(s)	Scheduled IST Meeting(s)	DSF(s) reviewed by Board Members	Scheduled HCAB Meeting for Approval of DSF	Closed
1	1	1	0	9	0	8

* DSF – Decision Summary Form

** IST - Integrated Support Team

Technical Improvements – On February 28, 2017, PFM supported the RL Groundwater Project review of technical improvements to move them through the decision process, close-out improvements that have been implemented, and document the lifecycle cost savings.

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 February are displayed in the chart below:





LOOK AHEAD

In support of RL staff relocating to the Stevens Center business park, PFM completed an estimate for the construction and integration of the “satellite” PACE infrastructure. Plans are to build a new facility with similar capabilities of the current PACE, to allow for the continued utilization of PFM-developed tools for strategic planning. This approach will further expand capabilities of MSA now and in the next contract.

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 February 2017.

BASELINE PERFORMANCE:

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

Fund Type	February 2017					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	\$1.1	\$1.1	\$1.1	\$0.0	\$0.0
Site-Wide Services	\$0.5	\$0.5	\$0.2	\$0.0	\$0.3	\$52.9	\$52.9	\$47.2	\$0.0	\$5.7
Subtotal	\$0.5	\$0.5	\$0.2	\$0.0	\$0.3	\$54.7	\$54.7	\$48.8	\$0.0	\$5.9

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) (+\$0.3M) – The CM underrun is due to two open positions in the Software Engineering Services (SES) team that supports PFM, reduced effort on the part of SES staff as they are supporting other MSA work, reduced support from staff augmentation due to provision of support to others as well as MSA PFM staff temporarily supporting other organizations.

Contract-to-Date (CTD) CV (+\$5.9M) – The positive CTD CV is primarily due to less PFM support required than assumed for integrated planning actions.

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President's Office

W. K. Johnson, President

R. E. Wilkinson, Chief Operations Officer

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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, 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, 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 The 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. The MSA Engineering Organization also includes the MSA Maintenance Management Program (MMP)/Reliability Engineering.

The MSA MMP provides reliable and cost-effective infrastructure and site services integral and necessary to accomplish the Hanford Site environmental clean-up mission. This service includes the MSA core value of creating a culture of safe and secure operations through the maintenance of Hanford Site's infrastructure assets and services in accordance with Department of Energy (DOE) O 430.1B, Chg. 2, Real Property Asset Management, and CRD O 430.1b, Chg. 1 (Supplemental Rev. 1). These MSA core values are met by applying availability, reliability and maintainability principles and practices to both the plant upgrade and Operation and Maintenance (O&M) Program phases of Hanford Infrastructure Assets.

The External Affairs department provides a myriad of communication functions for DOE Hanford Site contractors, employees, and the public. The group supports Richland Operations (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

QUALITY ASSURANCE AND PERFORMANCE OVERSIGHT:

Source Inspection Services – MSA’s activities in February were as follows:

February 2017	CHPRC Current Month Total	WRPS Current Month Total	Others	Total to date
Source Inspections	1	4		36
Annual Desk Reviews				0
Supplier Evaluations/Audits	1	0		11
First Article Inspection				0

Acquisition Verification Services (AVS) Activities – MSA’s AVS activities for the CH2M HILL Plateau Remediation Company (CHPRC) and Washington River Protection Solutions, LLC (WRPS) in February were as follows:

February 2017	CHPRC Current Month Total	WRPS Current Month Total	Others	Total to date
Re-certifications	3	1	3	25
Annual Evaluations		3	1	29
Visual Acuity Evaluations	2	4	1	11

Performance Oversight Activities – The January Executive Safety Review Board (ESRB) Meeting was held on January 31, 2017. The primary purpose of the meeting was to review the Root Cause Analysis and associated Corrective Action Plan for MSA-Issue Identification Form (IIF)-2016-0607, “Project L-525, *Excavation Snagged Live 480v Electrical Conduit*”. During the presentation, it was determined that additional information regarding actions taken during the event was necessary prior to putting the issue to a vote. A special session of the ESRB will be convened once the required information is gathered.

EXTERNAL AFFAIRS

Comment Period for 300 Area Process Trenches and the 183-H Solar Evaporation Basins – In February, MSA Communications & External Affairs (C&EA) helped develop the ListServe notice, Administrative Record Link, fact sheet, and advertising. C&EA also distributed documentation to the Public Information Repositories for CHPRC’s public comment period for the proposed modifications to the Hanford Facility Sitewide Dangerous Waste Permit. The team also assisted in the organization and execution of a public meeting.



New Facilitation Team for Hanford Advisory Board (HAB) Meetings – In February, DOE began a new contract with ProSidian Consulting, LLC as the new facilitation team for HAB meetings. MSA participated in meetings and teleconferences, edited proposed agendas, and conducted HAB committee meetings to facilitate a smooth transition to the new vendor. Additionally, MSA worked with DOE to verify and identify vendor responsibilities which were being contested, and provided documentation to RL.

RL and DOE Office of River Protection (ORP) Public Outreach Media Expansion – As an added source of information regarding public involvement opportunities and activities, MSA collaborated with RL and ORP to draft and submit three articles to the *TriCities Journal of Business* which will appear in the March 2017 edition. Topics include the January Hanford Advisory Board meetings, public comment periods and future public meetings.

HAB Annual Board Packet Submitted – MSA C&EA assisted RL in the creation, circulation and delivery of the updated annual HAB membership packet to the DOE Environmental Management headquarters.

HAB River & Plateau Committee (RAP) and Executive Issues Committee (EIC) Meetings - MSA edited, circulated and printed all RL PowerPoint presentations for the HAB River & Plateau Committee (RAP) and Executive Issues Committee (EIC) meetings.

Online Tour Guide Briefing Tool - MSA developed an online tool for briefing Hanford Site Cleanup tour guides on best practices for conducting tours of the Hanford Site. The material addresses a variety of topics, including tour preparations, bus commentary, security awareness, tour schedules, visitor escorting, accountability for tour participants, radiological safety, and emergency response. The robust program includes input from subject matter experts in the area of safety and security, and is designed as an annual refresher for both public and special interest group tour guides.

ENGINEERING

During February, Engineering staff activities included:

- Communication of the action plan and path forward for restoring back-up fire water pumping capability in the 300 Area to the primary customer Pacific Northwest National Laboratory (PNNL).
 - Continued with design efforts and shared design information with PNNL for input during the review period. Design for resolution is being finalized and procurement for a new diesel-powered water pump skid is expected to begin by the end of March 2017.



- Initiated interface meetings with WRPS and CHPRC engineering personnel to ensure coordination of change management processes during the implementation of the facility modifications necessary to install replacement Radio Fire Alarm Reporter (RFAR) units. This work is being performed as part of Project L-761, *Phase 2a Procure, Install, & Closeout*.

LOOK AHEAD

None to report.

MAJOR ISSUES

None to report.

SAFETY PERFORMANCE

In February there were no Occupational Safety and Health Administration (OSHA) Recordable injuries or First Aid Injuries.

BASELINE PERFORMANCE

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

Fund Type	February 2017					Contract-to-Date				
	BCWS	BCWP	ACWP	SV	CV	BCWS	BCWP	ACWP	SV	CV
Site-wide Services	\$0.9	\$0.9	\$0.7	\$0.0	\$0.2	\$74.1	\$74.1	\$62.9	\$0.0	\$11.2
Subtotal	\$0.9	\$0.9	\$0.7	\$0.0	\$0.2	\$74.1	\$74.1	\$62.9	\$0.0	\$11.2

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) (+\$0.2M) – The favorable CM CV is primarily associated with the MSA Engineering Organization. The approved funding level and Integrated Investment Portfolio (IIP) are significantly less than the contract baseline. February's weather delay/"R" time impacts also affected the month's direct labor costs.

Contract-to-Date (CTD) CV (+\$11.2M) – The favorable CTD CV 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 less work than had been planned in the baseline.

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Public Works

Todd Synoground, Vice President

Monthly Performance Report

February 2017



Removal of electrical poles in the 100 Area



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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: Electrical Utilities (EU), Water and Sewer Utilities (W&SU), B Reactor, Roads and Grounds, Biological Controls, Real Estate Services (RES), and Compliance & Risk Mitigation (C&RM)/Operations Communications. 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

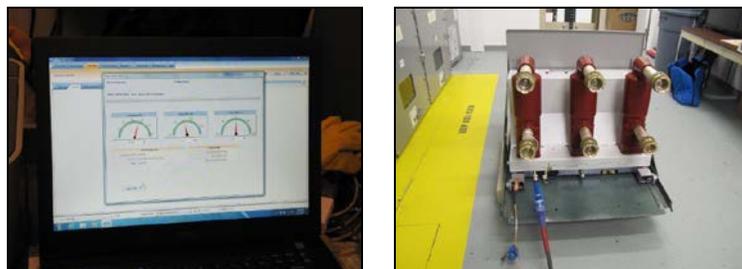
2017 Footprint Reduction – As part of the Fiscal Year (FY) 2017 footprint reduction effort, EU was tasked to remove a ¾-mile section of the 13.8kV distribution line in the 100 Area. A considerable effort was required to support the environmental and ecological authorizations in these culturally sensitive areas. This work activity received extensive management planning, field walkdowns, waste disposal planning, material handling, and training. The work launched on January 25, 2017, and fieldwork was completed eight days later on February 2, 2017. This important task has returned lands back to their original natural appearance and condition, and all materials were removed to a Radioactive Material Area and staged for disposal at the Environmental Restoration Disposal Facility.

Electrical Line Removal – EU removed crossarms and hardware from 26 poles along an 11-mile stretch of road. The poles were left in a configuration that will allow the poles to be removed with equipment that would cause the least land disturbance. Retrieval will take place when field conditions are acceptable.



Crossarms and hardware removed from electrical poles

Substation Testing – In February, EU completed a six-year campaign of testing and inspecting equipment at the A-9 Substation, including potential transformers (PTs). In this process, maintenance actions are identified and performed during the associated outage. The enhanced testing also included circuit breakers, 13.8kV medium-voltage breaker PTs, and the substation’s own service transformer. EU performed these tests with current industry testing tools and methodologies to ensure proper settings and operation, thereby maximizing substation reliability.



Testing electrical equipment at A-9 Substation

609-N Fire Station Upgrade – On February 27-28, 2017, EU provided switching and support for the 609-N Fire Station. As construction and other subcontractors were upgrading the facility, EU adjusted its schedule around the outages. Specifically, EU upgraded meter and data server systems, as well as a primary transformer to include new fused cutouts and bird-guarding components.



Upgrading electrical equipment at 609-N Fire Station

Lift Station Contamination Event – Environmental Integration Services supported W&SU during a contamination event at lift station 2607-Z1. The lift station was isolated, railings were replaced, the lift station lid was painted, and surveys were performed on the interior. Although survey results were negative, the control panel for the lift station continues to remain in a high-contamination area. On February 13, 2017, a teleconference was held with Washington State Department of Health (DOH), U.S. Department of Energy, Richland Operations Office, and MSA personnel with regard to the current status of the lift station and proposed efforts to mitigate and redirect wastewater. DOH

concurrent with capping the collection system manhole and using the sewer line as a holding tank for short-term resolution. The holding tank would hold approximately 5,000 gallons of storage.

Water Leak Near Canister Storage Building – On February 27, 2017, W&SU was notified of a water leak in the area south of the Canister Storage Building. After responding, it was found that an automatic air release vent on the 12-inch raw water supply line was leaking at a rate of approximately five gallons per minute. The isolation valve to the automatic air release vent was shut to stop the leak. The total volume of water leaked was estimated at 50,000 gallons. After performing an evaluation of the surrounding waste information data system sites, it was determined there were no impacts, because the volume of the leak was below regulatory threshold values for reporting.



Water leak by Canister Storage Building

Solid Waste Landfill – On February 22, 2017, the final layer of dirt was placed on top of the Solid Waste Landfill. Achievement of this milestone required 150 loads of dirt, with trucks averaging 30 loads a day.



Solid Waste Landfill

LOOK AHEAD

Nothing to report

MAJOR ISSUES

Nothing to report

SAFETY PERFORMANCE

During the month of February, there were no Occupational Safety and Health Administration (OSHA) Recordable injuries reported within PW. There were two minor first-aid cases reported. One case involved an employee who injured a hand after slipping on ice. The second case also involved an employee who'd slipped on ice, and reported an injured knee. There were no vehicle accidents reported.



BASELINE PERFORMANCE

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

Fund Type	February 2017					Contract-to-Date				
	BCWS	BCWP	ACWP	SV	CV	BCWS	BCWP	ACWP	SV	CV
RL-0040 - Nuc. Fac. D&D - Remainder Hanf	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$6.1	\$6.1	\$6.3	\$0.0	(\$0.2)
RL-0041 - Nuc. Fac. D&D - RC Closure Proj	\$0.1	\$0.1	\$0.1	\$0.0	\$0.0	\$18.8	\$18.7	\$18.3	(\$0.1)	\$0.4
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	\$2.4	\$2.4	\$3.9	\$0.0	(\$1.5)	\$263.8	\$263.8	\$313.0	\$0.0	(\$49.2)
Subtotal	\$2.5	\$2.5	\$4.0	\$0.0	(\$1.5)	\$288.7	\$288.6	\$338.0	(\$0.1)	(\$49.4)

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 (CM) Schedule Variance (SV) – (\$0.0M)

CM Cost Variance (CV) (-\$1.5M):

Site Wide Services (SWS) CM CV (-\$1.5M) – Increased staffing levels for maintenance activities were required to keep 3001.04.04 W&SU (-\$0.7M), and 3001.04.03 EU (-\$0.5M) operational; the result is an unfavorable CM CV. These systems have degraded across the site due to age. W&SU and EU are a part of the Enhanced Maintenance Program (EMP), 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 3001.02.05 Waste Sampling and Characterization Facility Analytical Services (Readiness to Serve) (+\$0.1M); 3001.04.01 Roads and Grounds (-\$0.6M); 3001.04.02 Biological Controls (+\$0.1M); and 3001.04.14 Land Use Planning (+\$0.2M).

Contract-to-Date (CTD) SV (-\$0.1M) is within threshold.

CTD CV (-\$49.4M) Variances exist in RL-40, RL-41, RL-44, and RL-100 that total (-\$0.2M), and are individually below threshold.



SWS CTD CV (-\$49.2M) Variances included:

3001.04.03 EU – EU is significantly divergent from the baseline. The CTD CV (-\$24.3M) is primarily due to repairs relating to an aging infrastructure and upgraded staffing requirements. In addition, more material procurements were made due to new requirements that were not included in the baseline. These new requirements included the disposal of Power/Telecommunications lines to the Environmental Restoration Disposal Facility, a trailer mounted load center, bushings to replace the A-9 Transformer (needed for an unplanned outage), spare parts from a vendor who went out of business, an infrared camera, and an analyzer. In addition, the baseline was not adequate for a number of maintenance items that needed to be replaced due to the aging life of the infrastructure on the Hanford site. An EMP 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.

3001.04.04 W&SU – W&SU is significantly divergent from the baseline. The CTD CV (-\$34.0M) 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 EMP, 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 CV variances related to being divergent from the baseline are tied to the following Work Breakdown Structures:

- 3001.02.05 Waste Sampling and Characterization Facility (+\$4.0M);
- 3001.04.01 Roads & Grounds (+\$1.0M);
- 3001.04.02 Biological Services (-\$1.0M);
- 3001.04.10.01 Sanitary Waste Management and Disposal (+\$1.0M);
- 3001.04.10.02 Laundry Services (-\$0.7M);
- 3001.04.10.03 Traffic Management (+\$1.0M);
- 3001.04.10.04 Site Infrastructure and Logistics Program Management (-\$1.5M);
- 3001.04.10.06 Public Works Program Planning Management and Administration (-\$1.0M);
- 3001.04.14 Land and Facilities Management (+\$5.5M); and
- 3001.06.04 NEPA Natural Gas Pipeline (+\$0.6M).



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Site Services & Interface Management

P.K. Brockman, Vice President

Monthly Performance Report February 2017



Replacement of semi-tractor clutch assembly



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INTRODUCTION

The Mission Support Alliance, LLC (MSA) and 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; Fleet Services; Motor Carrier Services; Maintenance Services; and Projects/Strategic Planning. 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

Repair of Semi-Tractor – MSA Fleet Services workers recently replaced the entire clutch assembly in a semi-tractor supporting MSA Motor Carrier Services. The tractor is primarily used to transport large equipment such as bulldozers, excavators, and backhoes which are crucial to MSA and the other Hanford contractors for meeting cleanup deadlines on the Hanford Site.

Up-Fitting of New Patrol Vehicles – The 2016 vehicle replacement cycle included 19 new patrol vehicles. This extremely large number created a sizable challenge for Fleet Services as crews worked to up-fit and return the vehicles to service, thereby satisfying performance and safety concerns.



Up-fitting patrol vehicles

Updated Fire Protection Interface Agreement – During February, MSA Interface Management successfully updated and published the document, *Administrative Interface Agreement for Fire Protection Flow-Down of Roles, Responsibilities, Authorities and Enforcement between Washington River Protection Solutions LLC (WRPS) and MSA*. The revision gave the MSA and WRPS subject matter experts the opportunity to revisit the responsibilities of each contractor, as established by this agreement.



Updated Pit 9 Interface Agreement – MSA Interface Management successfully updated and published the *Administrative Interface Agreement between MSA and Bechtel National Inc. (BNI)* for operation of Pit 9. MSA and BNI made arrangements for determining the proper procedures to follow in disposing of borrow fill material in a designated area at Pit 9, and MSA will be responsible for monitoring all incoming and outgoing fill material.

MSA/WRPS Water Interface Control Document (ICD) – The latest revision to the Water ICD between MSA and WRPS was issued on February 23, 2017. The most significant change to the ICD was the addition of the water forecasts provided by the other Hanford contractors, organized by facility or process operation. These forecasts include both normal and peak demands, and demand durations. This information is important for MSA’s infrastructure operations, and for right-sizing infrastructure upgrade projects.

Service Catalog Activities – An upgrade to the MSA Service Catalog took place on the evening of Wednesday, February 22, 2017. The new catalog, now based on current commercial standards, features a completely new look and improved navigation features.

LOOK AHEAD

Support of Plutonium Finishing Plant (PFP) Demolition – On March 14, 2017, MSA’s Crane & Rigging Services, Motor Carrier Services, Fleet Services, Maintenance Services, and Interface Management will meet with the CH2M HILL Plateau Remediation Company to discuss ongoing support and/or issues that need immediate response in MSA’s continual efforts to support the PFP demolition project.

MAJOR ISSUES

None to report.

SAFETY PERFORMANCE

During the month of February, there were no Occupational Safety and Health Administration (OSHA) Recordable injuries reported within SS&IM. There were seven minor first-aid cases reported, five of which involved employees slipping on ice; minor arm, back and knee injuries were incurred as a result. Additionally, one employee scraped an arm on a piece of equipment, and one employee fell to the floor when attempting to sit in a chair. In addition, there was one non-injury vehicle accident reported when a vehicle bottomed out on an old train track. Damage to the vehicle was minor.



BASELINE PERFORMANCE

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

Fund Type	February 2017					Contract-to-Date				
	BCWS	BCWP	ACWP	SV	CV	BCWS	BCWP	ACWP	SV	CV
ORP-0014 - Rad Lqd Tk Wst Stab & Disp Ops	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$14.5	\$14.5	\$12.8	\$0.0	\$1.7
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 Hanford	\$0.7	\$0.6	\$0.7	(\$0.1)	(\$0.1)	\$60.4	\$59.7	\$61.8	(\$0.7)	(\$2.1)
Site-wide Services	\$0.2	\$0.2	\$0.2	\$0.0	\$0.0	\$40.6	\$40.6	\$44.5	\$0.0	(\$3.9)
Subtotal	\$0.9	\$0.8	\$0.9	(\$0.1)	(\$0.1)	\$116.8	\$116.1	\$120.7	(\$0.7)	(\$4.6)

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: This cost and performance data reflects Site-Wide Services scope and Reliability Projects for SS&IM reported under the Performance Measurement Baseline (PMB). A 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 (for example, waterline breaks and non-Reliability Project maintenance activities). Although the work scope and accomplishments listed are completed with the SS&IM labor force and management team, the final costs of these UBS and DLA pools reside with the end customer and are reported in the non-PMB.

BASELINE PERFORMANCE VARIANCE

Current Month (CM) Schedule Variance (SV) (-\$0.1M)

ORP-0014 CM SV (\$0.0M) – The CM SV for February is within threshold.

RL-0020 CM SV (\$0.0M) – The CM SV for February is within threshold.

RL-0040 CM SV (-\$0.1M) – The unfavorable CM SV for February is due to Project L-868, *Raw Water Fire Protection Loop for LAWPS*, experiencing weather delays which prevented construction mobilization, Construction Subcontract (\$45.1K), and MSA construction support (\$18.3K).



Site-wide Services (SWS) CM SV (\$0.0M) – The SWS SV for February is within threshold.

Contract-to-Date (CTD) SV (-\$0.7M)

ORP-0014 CTD SV (\$0.0M) – The CTD SV is within threshold.

RL-0020 CTD SV (\$0.0M) – The CTD SV is within threshold.

RL-0040 CTD SV (-\$0.7M) – The unfavorable CTD SV is due to Project L-830, *Filter Plant Filter Control System Upgrade*, engineering design completing behind schedule and negatively impacting successor activities, delays in material delivery of valves/actuators and control panels, and delays to work performance due to Filter Plant issues. Work planning and inefficiencies in construction has increased the variance (-\$0.3M), and Project L-789, *Prioritize T&D Sys Wood PP Test & Replace*, having an incorrect planning assumption for the Test & Treat contract (-\$0.3M). Also, L-761, *Replace RFAR Phase 2a*, Construction Mobilization ramp-up is behind schedule in hiring project resources and the acquisition/installation of the office and craft change trailers (-\$0.1M).

SWS CTD SV (\$0.0M) – The CTD SV is within threshold.

CM Cost Variance (CV) (-\$0.1M)

ORP-0014 CM CV (\$0.0M) – The CV is within threshold.

RL-0020 CM CV (\$0.0M) – The CV is within threshold.

RL-0040 CM CV (-\$0.1M) – The unfavorable CM CV is due to the Project L-761, *Replace RFAR Phase 2a*, work scope and approved funding not being finalized. A BCR is in process, but until implemented, the CM variance will continue. Work performed to-date includes continuation of design, bid award for the job/shower facility, work planning, and staff hiring and training (-\$0.1M).

Site-wide Services (SWS) CM CV (\$0.0M) – The SWS CV for February is within threshold.

CTD CV (-\$4.6M)

ORP-0014 CTD CV (+\$1.7M) – The Project L-858, *200E 13.8kV ED Dsgn & Bse Svc Ld Reconfig*, favorable CTD CV is due to reduced cost as a result of early completion of preliminary conceptual design activities. High quality conceptual design allowed for an abbreviated version of Definitive and Final Design allowing for early award of the Engineering Design Contract. Ecological and cultural reviews took much less effort than planned, because the construction is in a previously disturbed area, and qualified under the Tank Farms Environmental Impact Statement. In addition, the construction



subcontractor's bid came back substantially lower than planned (+\$1.2M). Variances for other ORP-14 projects totaling (+\$0.5M), and are individually below threshold.

RL-0020 CTD CV (-\$0.3M) – The CTD CV is within threshold.

RL-0040 CTD CV (-\$2.1M) – The CTD CV is primarily due to Project L-830, *Filter Plant Filter Control System Upgrade*, design requiring additional effort to resolve comments provided at initial 90% design submittal; additional in-house engineering required to complete material procurement; Operations Test Procedures and Acceptance Test Procedures; increased work package planning cost and construction cost not anticipated, (scaffolding, rigging, outage costs, confined space efficiencies, and extensive work planning efforts). Construction costs have increased due to insufficient design details, work package planning, and unavailable materials (-\$0.8); the Studies, Estimates and Planning account is also overrun (-\$0.5M).

Also, several prior year Infrastructure Reliability Projects overran:

- 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); Reliability Project Spares Inventory Change (-\$2.3M)
- Project ET-51, *HLAN Network Upgrade - Ph. 2* (-\$1.1M)
- Project L-713, *Records Storage Facility* (-\$2.2M)
- Project ET60, *Enterprise Voiceover Internet Protocol (VoIP) Solution, Implementation* (-\$2.5M)
- EU System capital equipment not related to construction (CENRTC) (-\$1.0M)
- Water/Sewer Systems CENRTC. (-\$0.6M)
- Transportation Systems CENRTC. (-\$0.6M)

These unfavorable prior year CTD CV amounts are offset by the following current project favorable CVs:

- Project L-525, *24in Line Replacement from 2901Y to 200E*, due to a modest savings for site clearing work due to favorable site conditions and the award of the construction subcontract for significantly less than the initial estimate (+\$1.6M).
- Project L-840, *24in Line Replacement from 2901Y to 200W* has a modest savings for site clearing work due to favorable site conditions, and the award of the construction subcontract for significantly less than the baseline estimate. The significant construction cost savings is attributable to the contractor's expertise in this type of construction, and notably less difficult site conditions currently



being encountered than was assumed when preparing the initial cost estimate (+\$1.6M).

- Project L-761, *Phase 2a Procure, Install, & Closeout* (+\$0.6M), due primarily to loaning project crafts to other projects thereby significantly reducing labor costs during mobilization, as well as planned hiring of all resources is not complete so actual costs were not incurred (Work Package Planner, Field Supervisor, etc). There was an additional cost savings (+\$0.1M) resulting from canceling the purchase of mobile craft break trailers and the acquisition/installation of the office and craft change trailers has not completed (+\$0.2M).
- Project L-894, *Raw Water Cross Connection Isolation 200E/W*, is underrunning due to the Study Report utilizing less resource cost than originally anticipated (+\$0.2M).
- Project L-868, *Raw Water Fire Protection Loop for LAWPS* (+\$0.2M), is underrunning due to efficiencies in both project support, (+\$0.1M), and favorable performance in the conceptual design/definitive design contracts, (+\$43.9K).
- Project L-419, *24in Line Renov/Replace from 2901U to 200E*, due to utilizing previous design for a proximity project and receiving less engineering costs for the design phase than planned (+\$0.1M).
- Project L-789, *Prioritize T&D Sys Wood PP Test & Replace*, due to receiving less managerial cost than planned (+\$0.1M).
- Project L-612, *230kV Transmission System Reconditioning and Sustainability Repairs*, due to engineering and subcontracts being less than planned. EA was contracted and not self-performed. Performance taken on the contracted draft EA, however, due to numerous comments, a second submittal will be required and the positive variance will decrease. In addition, a contract for approximately \$20K was established with PNNL to perform the floodplain analysis which will further decrease the positive cost variance (+\$0.4M).
- Project L-776, *Chip Sl Rt 4S Y Brrcd to 618 Wst St Ntrnc*, due to receiving less engineering, \$29.6K, and environmental, \$17.9K, cost than planned during the design phase (+\$0.1M).
- RP PMA is also underrun (+0.1M).

In addition, are the following prior year project positive CVs:

- 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-742, *Rt3/Rt4S Turn Lane & Rt. 4S Turn-Outs* (+\$0.5M)
- Project L-753, *Maintenance Shelters for Crane & Rigging* (+\$1.1M)
- Project L-712, *Rattlesnake Mountain Combined Community Communications Facility and Communications Upgrades* (+\$0.7M)
- HFD CENRTC (+\$2.8M).

Variances for other RL-40 projects are individually below threshold.

SWS CTD CV (-\$3.9M) – The CTD CV is due to the deltas between the contract baseline and the approved and funded items for MSA FY 2013 – FY 2017 work scope. These items include increased support required for Interface Management including the Service Catalog scope and additional support from others (e.g., Safety Staff, Environmental Personnel, etc.) in the Project Management Account.



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MISSION SUPPORT ALLIANCE

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Training & Conduct of Operations

Steve Metzger, Vice President

Monthly Performance Report February 2017



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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 Central Training function is responsible for implementing a training management system to meet the technical, organizational, and professional development training requirements of personnel. This function also meets 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 Elements and Requirements*. This function also assesses and verifies implementation of ConOps at MSA-managed projects and facilities.

The MSA Work Management program incorporates the principles of the Integrated Safety Management and Environmental Management System at the activity level through the development and use of technical Work Documents.

KEY ACCOMPLISHMENTS

FORMALITY OF OPERATIONS

Maintenance Management – Maintenance Management has completed 21 of 69 milestones associated with the Maintenance Management Program Plan. The most notable was the evaluation and adjustment of Work Management and Maintenance Management metrics. The evaluation and adjustment of metrics is an annual process that allows the organization to determine if the metrics during the prior year are still providing value, as well as determining the value of institutionalizing new metrics that have not been put in place to date. As the improvements towards reliability focused maintenance continues, new metrics were identified to be brought on line this fiscal year.

Central Planning – TCO launched the Work Management & Planning Share Point¹ site. This site includes a template for package instructions, procedures and forms, points of

¹ Share Point is a document management and storage system application of the Microsoft Corporation, Redmond, WA



contact, communications of safety, hazard recognition, and training updates. In addition, TCO Central Planning staff met with the Radiological Controls Organization to discuss future training needs for the implementation of the Sentinel² Access Control module. Sentinel Access Control is a commercial-off-the-shelf program used to perform access control functions throughout the nuclear industry. Sentinel will eventually replace the current Access Control Entry System. Additional evaluations will be performed when the program becomes available for testing.

Central training also developed a project-based schedule populated with tasks and resources for Fiscal Year (FY) 2017 and into FY 2018. The resources loaded schedule will be the vehicle used by MSA Central Training to track training programs products for all organizations to ensure these programs are maintained up-to-date. The use of this tool will be further developed as the organization matures.

HAMMER ACTIVITIES

Health Physics Technician (HPT) Trainees Complete Their First Exam – Thirty-five students participating in the trainee program at the Volpentest HAMMER Federal Training Center (HAMMER), took their first of three Radiological Control Technician Fundamental Academics exam. The program is expected to be complete by the end of April.

LOOK AHEAD

Fire Ops 101 – The Washington State Counsel of Fire Fighters and International Association of Fire Fighters will conduct Fire Ops 101 training March 23-24, 2017. This is an event that showcases HAMMER as a premier fire training center, and has a huge showing of outreach and support to the community and surrounding area.

Hazardous Material (HAZMAT) Workshop – Washington State Patrol and State Fire Marshall will conduct an annual State Hazardous Material (HAZMAT) Workshop the last week of March 2017. This workshop allows first responders from across the state and region to participate in training that might not otherwise be available to their departments.

MAJOR ISSUES

None to report.

² Sentinel is a product of PTI Systems, of League City, TX



SAFETY PERFORMANCE

There were no Occupational Safety and Health Administration (OSHA) injury cases reported by T&CO during February.

BASELINE PERFORMANCE

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

Fund Type	February 2017					Contract to Date				
	BCWS	BCWP	ACWP	SV	CV	BCWS	BCWP	ACWP	SV	CV
RL-0040 - Nuc. Fac. D&D - Remainder Hanford	\$0.2	\$0.2	\$0.6	\$0.0	(\$0.4)	\$44.9	\$44.9	\$53.6	\$0.0	(\$8.7)
Site-Wide Services	\$0.1	\$0.1	\$0.1	\$0.0	(\$0.0)	\$9.5	\$9.5	\$13.1	\$0.0	(\$3.6)
Subtotal	\$0.3	\$0.3	\$0.7	\$0.0	(\$0.4)	\$54.4	\$54.4	\$66.7	\$0.0	(\$12.3)

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 – Current Month (CM) Cost Variance (CV) (-\$0.4M) – The unfavorable CM CV is similar to the detail listed in the Contract to Date (CTD) CV explanation. 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 has not occurred. As a result, the monthly EM budget will remain lower than the EM funds authorized. Because of this divergent situation, an unfavorable CV occurs monthly. Services delivered at HAMMER will not be adversely affected because the services are executed consistent with the approved Integrated Investment Portfolio (IIP) scope.

RL-40 – CTD CV (-\$8.7M) – The unfavorable CTD CV is largely due to the assumption that less DOE Office of EM funding would be required because HAMMER could self-fund itself by performing enough services for non-Hanford entities. This assumption has not occurred. As a result of this inaccurate assumption, the EM budget will remain lower than the EM funds authorized. Because of this divergent situation, the CTD CV will continue to increase. Services delivered at HAMMER will not be adversely affected because the services are executed consistent with the approved IIP scope. No other potential contributing performance issues are currently identified.



Site Wide Services (SWS) – Current Month CV (\$0.0M) – The CM CV is within threshold.

SWS – CTD CV (-\$3.6M) – CTD CV is due to the approved funding and IIP scope being divergent from the baseline in the Work Management Accounts within T&CO. The variance will continue and expenditures will be in accordance with approved funding and Integrated Investment Portfolio (IIP) scope.