

MISSION SUPPORT ALLIANCE

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



Monthly Performance Report

May 2017

W. K. Johnson
President

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



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

TERMS

| | |
|---------|---|
| AMB | Assistant Manager for Business and Financial Operations |
| AMMS | Assistant Manager for Mission Support |
| AMRP | Assistant Manager for River and Plateau |
| AMSE | Assistant Manager for Safety and Environment |
| BCR | Baseline Change Request |
| BO | Business Operations |
| CHPRC | CH2MHILL Plateau Remediation Company |
| CTD | Cost-to-Date |
| CV | Cost Variance |
| DART | Days Away Restricted Transferred |
| DLA | Direct Labor Adder |
| DOE | U.S. Department of Energy |
| ECOLOGY | State of Washington, Department of Ecology |
| EM | Office of Environmental Management |
| ES | Emergency Services |
| ES&H | Environment, Safety, and Health |
| FY | Fiscal Year |
| FYTD | Fiscal Year to Date |
| HAMMER | Volpentest Hazardous Materials Management and Emergency Response Training and Education Center |
| HCAB | Hanford Contract Alignment Board |
| HLAN | Hanford Local Area Network |
| HQ | Headquarters |
| 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 May 2017.

Key Accomplishments

Voluntary Protection Program (VPP) Star Status – On May 29, 2017, the U.S. Department of Energy Headquarters (DOE-HQ) VPP Team concluded a one week onsite assessment of MSA’s Safeguards and Security (SAS) Star Site. During the review, the Team recognized SAS’s efforts to maintain a strong partnership between management and workers, reduce injury rates, and meet the safety and health expectations required of a Star Site. Upon completion, SAS achieved the final recommendation of continued VPP Star level with no conditions. A final report from the Team containing assessment details and associated opportunities for improvement is forthcoming.

Response to Plutonium Uranium Extraction (PUREX) Emergency – Emergency Management Program (EMP) personnel activated and staffed the Hanford Emergency Operations Center (EOC) May 9-10, 2017, due to a partially-collapsed tunnel at the PUREX facility. EMP staff ensured the EOC was staffed at the appropriate level, and equipment was operational throughout the event. The EOC processes, procedures, and training developed and implemented by EMP enabled the EOC staff to take planned actions in a timely manner, and effectively react to unplanned actions and requests.

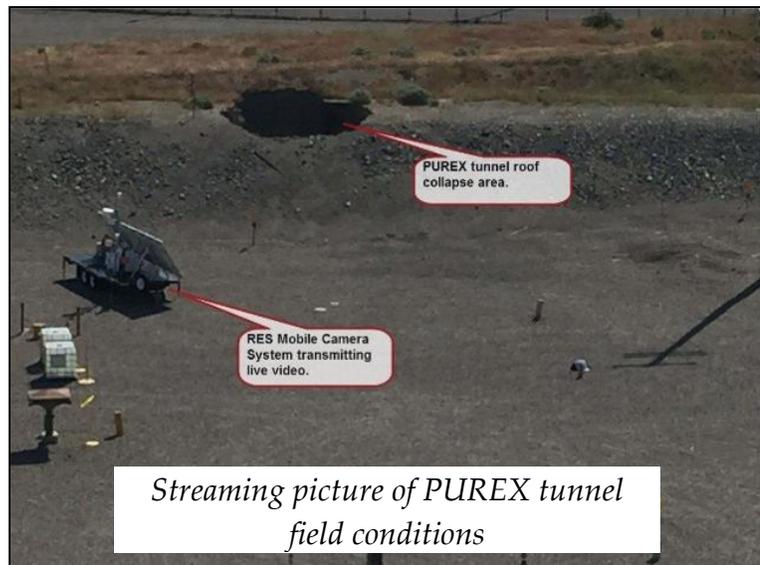
Support to PUREX Tunnel Event – When a tunnel collapse was discovered at the PUREX facility on May 9, 2017, numerous organizations supported the recovery effort, including MSA Crane & Rigging (C&R). Mobile crane operators put in many hours of excavator operation to back-fill the void that was created. Additionally, a C&R crew was utilized to secure the protective cover with sixty-seven 3,500-pound ecology blocks. The ecology blocks were lifted over the tunnel in accordance with a critical lift plan.



Concrete blocks secure protective cover over PUREX tunnel

Mobile Camera Monitoring System Utilized to View PUREX Tunnel Incident

– One of the Mobile Camera Monitoring System (MCMS) units was positioned south of PUREX, providing video surveillance of the Exhaust Stack when the PUREX tunnel's collapsed roof was discovered on May 9, 2017. Once the Emergency Operations Center became aware that an MCMS unit was within close proximity to the tunnel, access to the live streaming video the MCMS transmits was made available so emergency personnel had a live video feed of the situation. The MCMS unit continued to provide streaming video of the site, enabling emergency and operational management to observe field conditions from Hanford Local Area Network computers away from the tunnel.



Contract Extension – On May 16, 2017, Contract Modification 595 was received from RL, exercising Option Period 2 extending the Mission Support Contract through May 25, 2019.

Site Savings Recognition – In May, MSA received recognition from the Head of Contracting Activity, Office of Environmental Management, for MSA's dedicated involvement to the Strategic Sourcing Initiative (SSI). MSA's concentrated effort and strong participation in the SSI served as a significant driver of the savings total with a site savings amount of \$1,717,000, exceeding MSA's fiscal year (FY) 2016 goal of \$880,000 by 95.1%.

MSA Mentor Protégé Receives Award – MSA's current Protégé, I-3 Global, Inc., received the Protégé of the Year Award for its outstanding work and progress under the DOE Mentor-Protégé Program. I-3 Global, Inc. specializes in information technology (IT)/information systems, management services, security and staff augmentation. Currently, I-3 Global provides IT services to MSA. This award was presented to I-3 Global at the 16th Annual DOE Small Business Expo on May 17, 2017. MSA continues to mentor I-3 Global under the Mentor-Protégé Agreement.

Support to Washington River Protection Solutions (WRPS) C-Farm – MSA Support Services coordinated efforts with WRPS C-farm to upgrade the Heating, Ventilation, and Air Conditioning (HVAC) system in the egress tent. The task was walked down, materials ordered, and work steps planned with the intent to install the upgrades before the arrival of hot weather. On May 31, 2017, the Support Services sheet metal crew completed the removal of the outdated units, and installed a new ducted delivery system. This installation was urgent because WRPS employees had stopped work at the C-Farm egress tent due to locally high temperatures.



New HVAC installed in C-Farm egress tent

Lighting Upgrades Following Engineering Study – MSA Electrical Utilities (EU) made multiple lighting upgrades on the Hanford Site following a recent engineering study and safety concerns that identified numerous areas to change. As an example, EU supported the CH2M HILL Plateau Remediation Company (CHPRC) by improving the Canister Storage Building parking lot light deficiencies. Specifically, EU replaced 16 low-sodium light fixtures on four poles with energy-efficient light-emitting diode (LED) lights. EU also installed LED flood lights in the 200 East Area to eliminate the use of a portable light plant. LED lights are brighter, produce less waste, require less maintenance, and operate longer than older lamps. EU continues to engineer solutions for Hanford’s aging lighting systems, improving safety and visibility where required for the Hanford mission.



Examples of light fixtures replaced with energy-efficient LEDs

Alternative Water Hydrant for Filling Water Trucks – MSA Water & Sewer Utilities (W&SU) worked with CHPRC at the Plutonium Finishing Plant (PFP) to identify an alternative water hydrant for filling water trucks. For some time now, a single hydrant has been relied upon to fill multiple water trucks daily for dust suppression during demolition and operation activities. To alleviate demands from the truck filling stations on the potable system, W&SU staff identified a nearby raw water hydrant that could be utilized as a truck-filling location. The site is less than half a mile away from the PFP, and guarantees a separate, backup source of water.



Raw water hydrant used as backup water source

The potable and raw systems on the Central Plateau are separate systems that rely on their own individual sets of water pumps. W&SU has several projects set for the summer of 2017 that include water outages at the 283-W Water Treatment Facility. Due to these outages, potable water usage will need to be curtailed, which would specifically impact PFP demolition activities. Having a backup truck-filling location on the Raw Water system is an advantage for both PFP and W&SU, because it is necessary for all water users' needs to be balanced against supply capabilities.

HAMMER Receives Excellent 2017 Voluntary Protection Program (VPP) First Trimester Results – The Volpentest HAMMER Federal Training Center (HAMMER) VPP team recently shared the 2017 first trimester interview results, revealing an excellent overall score. The comprehensive average increased to a 4.6 from the 4.5 received during the third trimester of 2016. Tenet areas of employee involvement, safety and health training, and hazard control received the highest scores. Employee feedback is being analyzed for areas of continued improvement in reaching the highest standard of safety possible.

Cellular Services Contract Transitioned - At RL's direction, IM staff worked with RL, DOE-HQ, and MSA Contracts, Accounting and Project Controls personnel to successfully transition the MSA Verizon Wireless¹ cellular services contract to a DOE-HQ Verizon Wireless contract on May 1, 2017. This move will take advantage of the DOE-HQ larger user base to reduce cellular costs by pooling minutes into smaller monthly plans on cellular phones; and take advantage of the managed services

¹ Verizon Wireless, a telecommunications company, is a wholly owned subsidiary of Verizon Communications, Basking Ridge, NJ



administered by a DOE-HQ contractor. This transition will eliminate the need for individual cost distribution to Hanford prime contractors because funding is being held back at the DOE-HQ level. MSA will still administer the cellular program, and provide oversight and reporting through the IM Business Office.

Maintenance Management Program Plan – The MSA Maintenance Management organization has completed 40 of 69 milestones associated with Maintenance Management Program Plan, most notable was the ExMax Mobile Pilot. Evaluation of Fire Systems Maintenance (FSM) and Safeguards and Security (SAS) by MSA Engineering staff concluded that there are no Predictive Maintenance Activities to be implemented at this time for FSM or SAS.

Administrative Records (AR) Team Prepares for All-Electronic Operation - The AR team is performing an audit of records, images and metadata of the Administrative Records Public website. The AR documents decisions on remedial waste or hazardous material management. This audit assures customers and the public that they have access to complete and accurate information. This effort also supports the goal for the AR to go all electronic. The team is performing this cleanup and auditing while continuing daily processing of incoming documentation.

Quality Assurance (QA) Audit Performance Dashboard – On May 24, 2017, MSA Portfolio Management staff deployed the RL QA Audit Performance dashboard, 40 days ahead of schedule. The dashboard is designed to display real-time status of multi-year RL and contractor planned and completed QA audit and audit-related activities. Data inputs include relevant information planned and identified in the annual RL Integrated Evaluation Plan. This information, in conjunction with the contractor planned activities, will be used to formulate triennial long-range planning matrices. The matrices will show how planned QA audits and audit-equivalent activities comply with QA program requirements.

Museum Exhibit Contributions – MSA’s Curation Services organization provided access to the Manhattan Project and Cold War Era Hanford Collection for the general public through loan of Collection items to the High Desert Museum in Bend, Oregon. The exhibit, “A Complicated Legacy: The History of the Hanford Site,” opened in May, and included a discussion, led by Washington State University (WSU), on the legacies of World War II and Cold War nuclear materials production, advancements in science and technology, and the largest nuclear cleanup in history. Forty-one items from the Hanford Collection are on loan to the High Desert Museum for the duration of the exhibit.



Memorandum of Agreement – MSA executed a Memorandum of Agreement with the Hanford Atomic Metal Trades Council (HAMTC) that clarifies and modifies an existing collectively bargained provision related to return-to-work requirements. DOE Beryllium rule 10 CFR 851, *Chronic Beryllium Disease Prevention Program (CBDPP)*, Appendix A, Section 8, was used as the basis for the change to the Return to Work policy. Additionally, hospitalization and visits to the emergency room were better defined. This clarification will help to achieve consistency across the company when determining if a clearance to return to work is required.

Hanford Site Tours – MSA kicked off the 2017 Hanford Site Cleanup Tours in May, holding tours #1-4, and hosting 69 visitors. The cleanup tours provide members of the public insight into the progress of Hanford's environmental cleanup projects. One of the tours was held the day of the PUREX tunnel collapse, but MSA Communications and External Affairs (C&EA) staff were able to safely terminate the tour before leaving for that area, and those visitors had the opportunity to reschedule their tour for later in the tour season. In addition to the public tours, MSA coordinated two college course tours (Oregon State University, Nuclear Science and Engineering; and Western Washington University, Environmental Toxicology and Chemistry) and five DOE VIP tours.

Professional Development – MSA HR staff attended an event at WSU Tri-Cities, on May 23, 2017. The event focused on community partners in professional development, and the advances made at the University in relation to providing leadership training and other development opportunities to Hanford Site workers. The event was attended by Hanford Site contractors, U.S. Department of Energy (DOE) representatives, and other leaders in the community. WSU Tri-Cities Chancellor Keith Moo-Young, the keynote speaker, thanked the community partners that attended the event, and encouraged further partnership with the University in the areas of professional development. HR will be meeting with the WSU Tri-Cities Director of Professional Development and Community Education to discuss possible collaborations for tailored training geared towards MSA employees.



2.0 ANALYSIS OF FUNDS

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

| Funds Source PBS | Title | MSA Expected Funding | * Funds Received | FYTD Actuals | Remaining Available Funds from Funds Received |
|-------------------------|---|-------------------------|---------------------|--------------------|---|
| ORP-0014 | Radiological Liquid Tank Waste Stabilization and Disposition Operations | \$446.2 | \$446.4 | \$130.7 | \$315.7 |
| HSPD (RL11,12,13,30) | Homeland Security Presidential Directive 12 | \$1,143.8 | \$1,143.8 | \$959.6 | \$184.2 |
| RL-0020 | Safeguards & Security | \$75,653.0 | \$54,370.9 | \$41,951.9 | \$12,419.0 |
| RL-0040 | Reliability Projects/HAMMER/ Inventory | \$23,747.9 | \$23,178.4 | \$14,050.1 | \$9,128.3 |
| RL-0201 | Hanford Site-Wide Services | \$15,327.2 | \$9,607.9 | - | \$9,607.9 |
| RL-0041 | B Reactor | \$6,137.6 | \$5,627.9 | \$1,560.0 | \$4,067.9 |
| SWS | Site-Wide Services | \$204,189.0 | \$150,179.0 | \$116,899.9 | \$33,279.1 |
| Total | | \$326,644.7 | \$244,554.3 | \$175,552.2 | \$69,002.1 |

EAC = Estimate at Completion
HSPD = Homeland Security
Presidential Directive 12

FYTD = Fiscal Year to Date.
HAMMER = Volpentest HAMMER Federal Training Center
PBS = Project Baseline Summary.

SWS = Site-Wide Services.

* Funds received through Contract Modification 608, dated June 21, 2017

The remaining uncosted carryover balance based upon actuals will fund SWS through July 24, 2017 and RL-0020 through July 26, 2017.

NOTE: RP RL-0201 Expected Funding was reduced \$15M based on revised Contract/Baseline Alignment Guidance (CBAG) Revision 6, dated June 21, 2017.



3.0 SAFETY PERFORMANCE

During the month of May, MSA experienced one injury that was classified as both Recordable and Days Away, Restricted or Transferred (DART). As a result, the fiscal year 2017 total recordable case (TRC) now stands 0.51 and the DART rate is 0.44. These injury rates are below the EM performance goals of 1.1 and 0.60, respectively. Twelve First Aid cases were reported during the month. MSA recognizes this number is higher than most months, but still consistent with reported First Aid incidents during the same timeframe in previous years.

Raising awareness of seasonal hazards by emphasizing the use of Personal Protective Equipment (PPE), conducting focused safety discussions, distributing heat stress prevention cards and providing other forms of written communications will continue throughout the next few months.

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

Objective

To monitor the Total Recordable Case (TRC) rate for MSA employees and subcontractors (Note: does not include independent subcontractors)

Measure

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

Performance Thresholds

| | |
|-----------|-----------|
| Adverse | > 1.3 |
| Declining | 1.1 - 1.3 |
| Meets | < 1.1 |

Performance Data

| | Jun-16 | Jul-16 | Aug-16 | Sep-16 | Oct-16 | Nov-16 | Dec-16 | Jan-17 | Feb-17 | Mar-17 | Apr-17 | May-17 |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Monthly Recordable Cases | 3 | 2 | 1 | 1 | 0 | 0 | 3 | 0 | 1 | 1 | 1 | 1 |
| Monthly TRC Rate | 1.94 | 1.19 | 0.63 | 0.49 | 0.00 | 0.00 | 1.67 | 0.00 | 0.66 | 0.48 | 0.58 | 0.62 |
| Performance (3-m Average) | 1.94 | 1.88 | 1.24 | 0.75 | 0.37 | 0.18 | 0.55 | 0.60 | 0.87 | 0.41 | 0.56 | 0.55 |
| Performance (12-m Average) | 1.01 | 1.11 | 1.10 | 1.04 | 0.92 | 0.80 | 0.93 | 0.79 | 0.84 | 0.89 | 0.83 | 0.68 |

Specific Goal to Achieve

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

Leading Indicator Description

TRC is a lagging indicator.

Performance Indicator Information

| | |
|---------------|-----------------------|
| PI Owner: | Lanette Adams |
| Data Analyst: | Ron Wight |
| Data Source: | MSMET |
| PI Basis: | MSC-MP-003, Sect. 4.0 |
| Date: | 6/13/2017 |

Analysis

During the month of May, there was one injury classified as 'Recordable' and, due to the extent of the injury, days away, restricted or transferred (DART). The injury occurred when an individual was lifting a weight, twisted, and strained their back.

2017 FYTD Recordable Cases: 7
2016 FY Recordable Cases: 20
2015 FY Recordable cases: 10

Types of injuries MSA has experienced during FY 2017 that were classified as Recordable:
• 3 caused by a slip/trip/fall; 2 caused by body motion; 2 caused by struck against an object
• 7 different body parts have been affected: head; knee; ankle; tooth; leg; hand; back

Action

Injury Prevention Actions:

- Focus on the transition to warmer temperatures and environmental conditions typical for this time of year has resulted in procurement of appropriate PPE, increased communication on heat-related injuries, and pest control.
- A goal in the MSA 2017 SIP is to improve work area conditions and increase employee participation in safety & health inspections. Weekly Safety Starts, safety meeting topics and training opportunities have been and will continue to be provided to employees to improve knowledge and understanding of safety inspections.
- During the May Presidents' Zero Accident Council (PZAC) meeting, hazard analysis was a main discussion point, and attendees were encouraged to relay the information to their work groups.

Additional Info

None

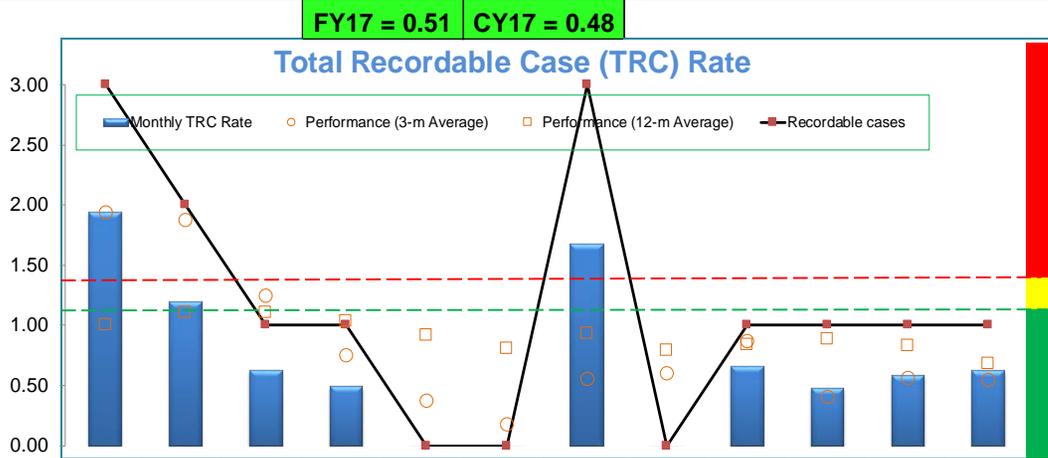


Table 3-2. Days Away, Restricted, Transferred, (DART)



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

| | Jun-16 | Jul-16 | Aug-16 | Sep-16 | Oct-16 | Nov-16 | Dec-16 | Jan-17 | Feb-17 | Mar-17 | Apr-17 | May-17 |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Monthly DART Cases | 3 | 1 | 0 | 0 | 0 | 0 | 3 | 0 | 1 | 0 | 1 | 1 |
| Monthly DART rate | 1.94 | 0.59 | 0.00 | 0.00 | 0.00 | 0.00 | 1.67 | 0.00 | 0.66 | 0.00 | 0.58 | 0.62 |
| Performance (3-m Average) | 1.72 | 1.46 | 0.83 | 0.19 | 0.00 | 0.00 | 0.55 | 0.60 | 0.87 | 0.20 | 0.37 | 0.37 |
| Performance (12-m Average) | 0.74 | 0.79 | 0.79 | 0.67 | 0.56 | 0.50 | 0.64 | 0.59 | 0.64 | 0.64 | 0.59 | 0.49 |

FY17 = 0.44 **CY17 = 0.36**

Days Away, Restricted or Transferred (DART) Case Rate

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 | 6/13/2017 |

Analysis

During the month of May, there was one injury classified as DART. The injury occurred when an individual was lifting a weight, twisted, and strained their back.

2017 FYTD DART Cases: 6
2016 FY DART Cases: 13

Types of injuries MSA has experienced during FY 2017 that were classified as DART:

- 3 caused by a slip/trip/fall; 2 caused by body motion; 1 caused by struck against
- 6 different body parts have been affected: head; knee; ankle; leg; hand; back

Action

Injury Prevention Actions:

- Focus on the transition to warmer temperatures and environmental conditions typical for this time of year has resulted in procurement of appropriate PPE, increased communication on heat-related injuries, and pest control.
- A goal in the MSA 2017 SIP is to improve work area conditions and increase employee participation in safety & health inspections. Weekly Safety Starts, safety meeting topics and training opportunities have been and will continue to be provided to employees to improve knowledge and understanding of safety inspections.
- During the May PZAC meeting, hazard analysis was a main discussion point, and attendees were encouraged to relay the information to their work groups.

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

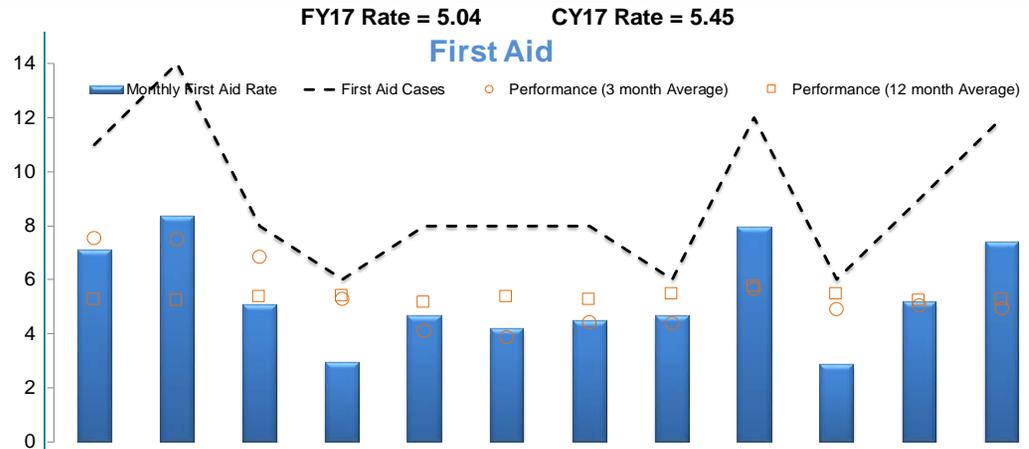
The metric is a count of the number of First Aid cases per month, and the rate of cases. The rate is calculated by multiplying the number of First Aid cases by 200,000 and dividing by the total number of work hours for a given period.

Performance Thresholds

| | |
|-----------|-----|
| Adverse | n/a |
| Declining | n/a |
| Meets | n/a |

Performance Data

| | Jun-16 | Jul-16 | Aug-16 | Sep-16 | Oct-16 | Nov-16 | Dec-16 | Jan-17 | Feb-17 | Mar-17 | Apr-17 | May-17 |
|--------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| First Aid Cases | 11 | 14 | 8 | 6 | 8 | 8 | 8 | 6 | 12 | 6 | 9 | 12 |
| Monthly First Aid Rate | 7.10 | 8.32 | 5.03 | 2.95 | 4.65 | 4.17 | 4.45 | 4.66 | 7.93 | 2.86 | 5.18 | 7.41 |
| Performance (3 month Average) | 7.55 | 7.52 | 6.84 | 5.28 | 4.12 | 3.88 | 4.42 | 4.40 | 5.66 | 4.90 | 5.05 | 4.95 |
| Performance (12 month Average) | 5.24 | 5.21 | 5.35 | 5.40 | 5.15 | 5.37 | 5.26 | 5.45 | 5.74 | 5.47 | 5.22 | 5.26 |



Specific Goal to Achieve

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

Leading Indicator Description

Non-reportable precursors are a leading indicator to reportable events. An increase in the number of First Aid cases could indicate a potential increase of more significant events.

Performance Indicator Information

| | |
|---------------|----------------------|
| PI Owner: | Lanette Adams |
| Data Analyst: | Ron Wight |
| Data Source: | MSMET |
| PI Basis: | MSC-MP-003 Sect. 4.0 |
| Date | 6/13/2017 |

Analysis

May concluded with 12 First Aid injury cases. The injuries were the result of the following 8 different types of incidents: (1) contact [rub against]; (1) contact [temperature extreme]; (1) contact [insect]; (1) fall; (4) awkward body motion; (2) overexertion; (1) potential exposure; and, (1) struck against an object. The 8 affected body parts include: neck (3); eye (1); ankle (1); toe (1); knee (3); thumb (1); shoulder (1); and, respiratory (1).

FY2017 First Aid Cases: 69

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

- 23% by a slip/trip/fall, 19% by body motion, 15% by overexertion, 6% from being struck by, 6% from contact with; and 6% from being struck against
- 41% arm/hand injuries; 30% leg/foot injuries; 13% head/neck injuries; and 10% back injuries

Actions

Injury Prevention Actions:

- Focus on the transition to warmer temperatures and environmental conditions typical for this time of year has resulted in procurement of appropriate PPE, increased communication on heat-related injuries, and pest control.
- A goal in the MSA 2017 SIP is to improve work area conditions and increase employee participation in safety & health inspections. Weekly Safety Starts, safety meeting topics and training opportunities have been and will continue to be provided to employees to improve knowledge and understanding of safety inspections.
- During the May PZAC meeting, hazard analysis was a main discussion point, and attendees were encouraged to relay the information to their work groups.

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 (2017/4/24) | | | | | |
| b. Location (Address and Zip Code) Richland, WA 99352 | | b. Number RL14728 | | | b. Phase Operations | | | b. To (2017/5/21) | | | | | |
| 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 | \$3,459,326 | \$0 | \$210,283 | \$3,669,609 | \$3,812,883 | 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) Johnson, William K | | | b. TITLE MSC Project Manager | | | | | |
| a. BEST CASE | \$3,459,326 | | | | c. SIGNATURE <i>[Signature]</i> | | | d. DATE SIGNED 6/24/17 | | | | | |
| b. WORST CASE | \$3,782,730 | | | | | | | | | | | | |
| c. MOST LIKELY | \$3,602,600 | | 3,459,326 | (143,274) | | | | | | | | | |
| B. PERFORMANCE DATA | | | | | | | | | | | | | |
| Item (1) | Current Period | | | | | Cumulative to Date | | | | | At Completion | | |
| | Budgeted Cost | | Actual Cost Work Performed (4) | Variance | | Budgeted Cost | | Actual Cost Work Performed (9) | Variance | | Budgeted (12) | Estimated (13) | Variance (14) |
| | Work Scheduled (2) | Work Performed (3) | | Schedule (5) | Cost (6) | Work Scheduled (7) | Work Performed (8) | | Schedule (10) | Cost (11) | | | |
| a. WORK BREAKDOWN STRUCTURE ELEMENT | | | | | | | | | | | | | |
| 3001.01.01 - Safeguards and Security | 4,478 | 4,478 | 5,474 | 0 | (996) | 447,192 | 447,192 | 455,191 | 0 | (7,999) | 552,152 | 565,271 | (13,119) |
| 3001.01.02 - Fire and Emergency Response | 1,524 | 1,524 | 3,144 | 0 | (1,620) | 155,127 | 155,127 | 178,488 | (0) | (23,361) | 191,124 | 221,740 | (30,615) |
| 3001.01.03 - Emergency Management | 442 | 442 | 405 | 0 | 37 | 42,175 | 42,175 | 35,022 | 0 | 7,153 | 53,553 | 45,970 | 7,584 |
| 3001.01.04 - HAMMER | 268 | 268 | 911 | 0 | (643) | 46,675 | 46,675 | 56,491 | (0) | (9,816) | 52,400 | 64,136 | (11,736) |
| 3001.01.05 - Emergency Services Management | 222 | 222 | 183 | 0 | 39 | 10,412 | 10,412 | 11,095 | (0) | (683) | 13,967 | 15,399 | (1,432) |
| 3001.02.01 - Site-Wide Safety Standards | 29 | 29 | 108 | 0 | (79) | 4,990 | 4,990 | 6,552 | (0) | (1,561) | 5,681 | 7,570 | (1,889) |
| 3001.02.02 - Environmental Integration | 358 | 358 | 515 | 0 | (157) | 49,366 | 49,366 | 44,930 | 0 | 4,436 | 57,935 | 54,384 | 3,552 |
| 3001.02.03 - Public Safety & Resource Protection | 860 | 860 | 1,161 | 0 | (302) | 58,015 | 58,015 | 50,717 | 0 | 7,298 | 78,393 | 71,047 | 7,347 |
| 3001.02.04 - Radiological Site Services | 1 | 1 | 7 | 0 | (6) | 3,834 | 3,834 | 4,834 | 0 | (1,000) | 3,847 | 5,095 | (1,248) |
| 3001.02.05 - WSCF Analytical Services | 73 | 73 | (0) | 0 | 73 | 55,296 | 55,296 | 50,457 | (0) | 4,839 | 57,139 | 51,972 | 5,167 |
| 3001.03.01 - IM Project Planning & Controls | 202 | 202 | 154 | 0 | 47 | 33,283 | 33,283 | 29,023 | 0 | 4,260 | 38,037 | 33,603 | 4,433 |
| 3001.03.02 - Information Systems | 1,110 | 1,110 | 555 | 0 | 555 | 101,597 | 101,597 | 94,860 | (0) | 6,737 | 128,412 | 121,687 | 6,725 |
| 3001.03.03 - Infrastructure / Cyber Security | 259 | 259 | 275 | 0 | (16) | 28,424 | 28,424 | 30,992 | (0) | (2,568) | 33,941 | 37,180 | (3,239) |
| 3001.03.04 - Content & Records Management | 590 | 590 | 378 | 0 | 212 | 60,649 | 60,649 | 54,270 | 0 | 6,379 | 75,463 | 69,141 | 6,322 |
| 3001.03.05 - IR/CM Management | 89 | 89 | 97 | 0 | (8) | 4,480 | 4,480 | 10,221 | 0 | (5,741) | 6,713 | 12,584 | (5,871) |
| 3001.03.06 - Information Support Services | 169 | 169 | 132 | 0 | 37 | 14,213 | 14,213 | 10,815 | 0 | 3,398 | 18,239 | 14,794 | 3,445 |
| 3001.04.01 - Roads and Grounds Services | 258 | 258 | 619 | 0 | (361) | 23,237 | 23,237 | 21,983 | 0 | 1,254 | 29,320 | 28,972 | 347 |
| 3001.04.02 - Biological Services | 289 | 289 | 332 | 0 | (44) | 27,574 | 27,574 | 28,298 | 0 | (725) | 34,591 | 35,990 | (1,400) |
| 3001.04.03 - Electrical Services | 534 | 534 | 1,616 | 0 | (1,082) | 56,311 | 56,311 | 82,726 | 0 | (26,415) | 69,061 | 100,507 | (31,446) |
| 3001.04.04 - Water/Sewer Services | 609 | 609 | 1,622 | 0 | (1,012) | 51,871 | 51,871 | 87,777 | (0) | (35,906) | 66,351 | 107,573 | (41,222) |
| 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 | 29 | 0 | (29) | 7,974 | 7,974 | 9,927 | (0) | (1,952) | 7,974 | 10,055 | (2,080) |



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

| CONTRACT PERFORMANCE REPORT | | | | | | | | | | | | | | | |
|---|--------------------|--------------------------|---------------------------|--------------------|--------------------------|--------------------|--------------------|---------------------------|---------------------|-----------|---------------|----------------------|---------------|------------------------------------|--|
| FORMAT 1 - WORK BREAKDOWN STRUCTURE | | | | | | | | | | | | DOLLARS IN Thousands | | FORM APPROVED OMB No. 0704-0188 | |
| 1. Contractor | | 2. Contract | | | 3. Program | | | | 4. Report Period | | | | | | |
| a. Name | | a. Name | | | a. Name | | | | a. From (2017/4/24) | | | | | | |
| Mission Support Alliance | | Mission Support Contract | | | Mission Support Contract | | | | b. To (2017/5/21) | | | | | | |
| b. Location (Address and Zip Code) | | b. Number | | b. Phase | | | | | | | | | | | |
| Richland, WA 99352 | | RL14728 | | Operations | | | | | | | | | | | |
| c. TYPE | | d. Share Ratio | | c. EVMS ACCEPTANCE | | | | | | | | | | | |
| | | CPAF | | No X Yes | | | | | | | | | | | |
| Item (1) | Current Period | | | | | | Cumulative to Date | | | | | At Completion | | | |
| | Budgeted Cost | | Actual Work Performed (4) | Variance | | Budgeted Cost | | Actual 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 | 54 | 54 | (1) | 0 | 55 | 7,619 | 7,619 | 7,322 | 0 | 297 | 8,860 | 8,347 | 513 | | |
| 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 | 5 | 0 | (5) | 370 | 370 | 467 | (0) | (98) | 370 | 485 | (115) | | |
| 3001.04.10 - Technical Services | 270 | 270 | 451 | 0 | (181) | 34,514 | 34,514 | 36,699 | 0 | (2,185) | 40,887 | 44,305 | (3,417) | | |
| 3001.04.11 - Energy Management | 260 | 260 | 163 | 0 | 97 | 15,780 | 15,780 | 8,387 | (0) | 7,394 | 22,273 | 14,481 | 7,792 | | |
| 3001.04.12 - Hanford Historic Buildings Preservation | 132 | 160 | 268 | 29 | (108) | 19,532 | 19,520 | 19,666 | (12) | (146) | 22,153 | 22,627 | (474) | | |
| 3001.04.13 - Work Management | 92 | 92 | 158 | 0 | (67) | 9,793 | 9,793 | 13,433 | (0) | (3,640) | 11,932 | 15,871 | (3,939) | | |
| 3001.04.14 - Land and Facilities Management | 620 | 620 | 472 | 0 | 147 | 40,299 | 40,299 | 33,757 | (0) | 6,541 | 53,213 | 46,586 | 6,628 | | |
| 3001.04.15 - Mail & Courier | 101 | 101 | 50 | 0 | 51 | 8,272 | 8,272 | 5,673 | (0) | 2,599 | 10,840 | 8,027 | 2,814 | | |
| 3001.04.16 - Property Systems/Acquisitions | 492 | 492 | 546 | 0 | (54) | 44,045 | 44,045 | 44,225 | 0 | (180) | 55,823 | 56,470 | (646) | | |
| 3001.04.17 - General Supplies Inventory | 11 | 11 | 155 | 0 | (144) | 2,270 | 2,270 | 1,308 | 0 | 962 | 2,548 | 1,458 | 1,090 | | |
| 3001.04.18 - Maintenance Management Program Implem | 179 | 179 | 150 | 0 | 29 | 8,502 | 8,502 | 8,243 | 0 | 259 | 12,710 | 12,597 | 113 | | |
| 3001.06.01 - Business Operations | 314 | 314 | 403 | 0 | (90) | 38,507 | 38,507 | 5,675 | 0 | 32,833 | 45,840 | 14,737 | 31,103 | | |
| 3001.06.02 - Human Resources | 219 | 219 | 224 | 0 | (5) | 19,160 | 19,160 | 18,224 | (0) | 936 | 24,397 | 23,562 | 836 | | |
| 3001.06.03 - Safety, Health & Quality | 1,056 | 1,056 | 1,624 | 0 | (568) | 117,551 | 117,551 | 137,149 | (0) | (19,597) | 142,955 | 165,434 | (22,479) | | |
| 3001.06.04 - Miscellaneous Support | 652 | 652 | 616 | 0 | 36 | 54,765 | 54,765 | 40,804 | (0) | 13,960 | 70,285 | 56,472 | 13,812 | | |
| 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 | 523 | 523 | 381 | 0 | 142 | 57,273 | 57,273 | 49,865 | (0) | 7,408 | 69,710 | 62,255 | 7,455 | | |
| 3001.08.01 - Water System | 411 | 490 | 566 | 79 | (76) | 23,433 | 24,130 | 13,233 | 698 | 10,897 | 27,498 | 16,755 | 10,743 | | |
| 3001.08.02 - Sewer System | 78 | 77 | 98 | (1) | (21) | 7,155 | 7,130 | 10,166 | (25) | (3,037) | 17,048 | 20,064 | (3,016) | | |
| 3001.08.03 - Electrical System | 40 | 22 | 52 | (18) | (30) | 15,469 | 15,467 | 16,507 | (1) | (1,039) | 16,932 | 18,093 | (1,160) | | |
| 3001.08.04 - Roads and Grounds | 237 | 72 | 152 | (165) | (80) | 4,287 | 4,104 | 3,497 | (183) | 607 | 9,972 | 8,531 | 1,441 | | |
| 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 | 647 | 648 | 399 | 2 | 249 | 6,761 | 6,761 | 8,513 | (0) | (1,752) | 8,507 | 10,513 | (2,007) | | |
| 3001.08.07 - Reliability Project Spare Parts Inventory | 0 | 0 | 24 | 0 | (24) | 86 | 86 | 2,697 | 0 | (2,612) | 86 | 2,826 | (2,741) | | |
| 3001.08.08 - Network & Telecommunications System | 0 | 0 | 66 | 0 | (66) | 11,203 | 11,175 | 16,256 | (28) | (5,082) | 11,203 | 16,555 | (5,351) | | |
| 3001.08.09 - Capital Equipment Not Related to Construct | 0 | 0 | 0 | 0 | (0) | 11,154 | 9,049 | 8,845 | (2,105) | 204 | 11,154 | 10,956 | 198 | | |
| 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 | 82,816 | 79,446 | 3,370 | | |
| 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) | | | | | | | | | | | | | | | |
| | 18,751 | 18,675 | 24,742 | (74) | (6,066) | 1,864,985 | 1,863,328 | 1,890,968 | (1,658) | (27,640) | 2,378,800 | 2,437,808 | (59,008) | | |



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

| CONTRACT PERFORMANCE REPORT | | | | | | | | | | | | | | DOLLARS IN Thousands | | FORM APPROVED OMB No. 0704-0188 | |
|--|--------------------------|-------------------------------------|---|-----------------|-------------------------------------|--------------------------|--------------------------|---|---------------------|--------------|------------------|-------------------|------------------|----------------------|--|------------------------------------|--|
| FORMAT 1 - WORK BREAKDOWN STRUCTURE | | | | | | | | | | | | | | | | | |
| 1. Contractor | | 2. Contract | | | 3. Program | | | | 4. Report Period | | | | | | | | |
| a. Name Mission Support Alliance | | a. Name Mission Support Contract | | | a. Name Mission Support Contract | | | | a. From (2017/4/24) | | | | | | | | |
| b. Location (Address and Zip Code) Richland, WA 99352 | | b. Number RL14728 | | | b. Phase Operations | | | | b. To (2017/5/21) | | | | | | | | |
| 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) | | | | | | | |
| a2. WORK BREAKDOWN STRUCTURE ELEMENT | | | | | | | | | | | | | | | | | |
| 3001.01.04 - HAMMER | 806 | 806 | 1,372 | 0 | (567) | 106,373 | 106,373 | 108,591 | 0 | (2,219) | 122,794 | 127,727 | (4,932) | | | | |
| 3001.02.04 - Radiological Site Services | 1,015 | 1,015 | 679 | 0 | 336 | 62,097 | 62,097 | 44,019 | 0 | 18,079 | 87,635 | 68,434 | 19,201 | | | | |
| 3001.02.05 - WSCF Analytical Services | 957 | 957 | 0 | 0 | 957 | 88,944 | 88,944 | 53,176 | 0 | 35,768 | 113,653 | 73,593 | 40,060 | | | | |
| 3001.03.02 - Information Systems | 199 | 199 | 207 | 0 | (8) | 3,431 | 3,431 | 2,993 | 0 | 438 | 8,247 | 7,857 | 390 | | | | |
| 3001.03.04 - Content & Records Management | 68 | 68 | 69 | 0 | (1) | 1,127 | 1,127 | 1,007 | 0 | 120 | 2,759 | 2,594 | 165 | | | | |
| 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 | 2,377 | 2,377 | 4,951 | 0 | (2,574) | 29,745 | 29,745 | 32,522 | 0 | (2,778) | 88,701 | 89,559 | (858) | | | | |
| 3001.04.05 - Facility Services | 583 | 583 | 990 | 0 | (407) | 51,591 | 51,591 | 58,404 | 0 | (6,813) | 65,316 | 73,515 | (8,199) | | | | |
| 3001.04.06 - Transportation | 154 | 154 | 492 | 0 | (337) | 20,985 | 20,985 | 36,859 | 0 | (15,874) | 24,733 | 42,902 | (18,169) | | | | |
| 3001.04.07 - Fleet Services | 652 | 652 | 1,450 | 0 | (798) | 88,126 | 88,126 | 107,819 | 0 | (19,693) | 103,884 | 126,770 | (22,886) | | | | |
| 3001.04.08 - Crane and Rigging | 834 | 834 | 1,196 | 0 | (362) | 87,977 | 87,977 | 93,529 | 0 | (5,552) | 107,654 | 114,613 | (6,959) | | | | |
| 3001.04.10 - Technical Services | 5 | 5 | 258 | 0 | (254) | 37 | 37 | 2,513 | 0 | (2,477) | 149 | 3,806 | (3,657) | | | | |
| 3001.04.13 - Work Management | 0 | 0 | 42 | 0 | (42) | 595 | 595 | 3,056 | 0 | (2,462) | 595 | 3,281 | (2,686) | | | | |
| 3001.04.14 - Land and Facilities Management | 589 | 589 | 888 | 0 | (299) | 51,433 | 51,433 | 50,973 | 0 | 460 | 65,955 | 65,799 | 156 | | | | |
| 3001.04.15 - Mail & Courier | 18 | 18 | 19 | 0 | (1) | 1,195 | 1,195 | 1,199 | 0 | (4) | 1,624 | 1,640 | (16) | | | | |
| 3001.06.01 - Business Operations | 760 | 760 | 827 | 0 | (67) | 83,896 | 83,896 | 87,804 | 0 | (3,908) | 102,429 | 107,570 | (5,140) | | | | |
| 3001.06.02 - Human Resources | 147 | 147 | 357 | 0 | (210) | 16,943 | 16,943 | 22,685 | 0 | (5,741) | 20,434 | 26,967 | (6,532) | | | | |
| 3001.06.03 - Safety, Health & Quality | 166 | 166 | 229 | 0 | (63) | 13,627 | 13,627 | 10,801 | 0 | 2,826 | 17,521 | 14,895 | 2,626 | | | | |
| 3001.06.04 - Miscellaneous Support | 73 | 73 | 346 | 0 | (273) | 9,621 | 9,621 | 12,221 | 0 | (2,600) | 11,399 | 14,467 | (3,068) | | | | |
| 3001.06.05 - Presidents Office (G&A nonPMB) | 290 | 290 | 239 | 0 | 51 | 24,841 | 24,841 | 20,253 | 0 | 4,588 | 32,127 | 27,494 | 4,634 | | | | |
| 3001.06.06 - Strategy | 23 | 23 | 21 | 0 | 2 | 2,961 | 2,961 | 2,518 | 0 | 443 | 3,502 | 3,050 | 452 | | | | |
| 3001.A1.01 - Transfer - CHPRC | 5,683 | 5,683 | 6,200 | 0 | (517) | 616,545 | 616,545 | 543,136 | 0 | 73,409 | 755,037 | 681,430 | 73,607 | | | | |
| 3001.A1.02 - Transfer - WRPS | 1,143 | 1,143 | 4,356 | 0 | (3,213) | 125,312 | 125,312 | 206,774 | 0 | (81,462) | 153,032 | 247,809 | (94,777) | | | | |
| 3001.A1.03 - Transfers - FH Closeout | 0 | 0 | 0 | 0 | 0 | 177 | 177 | 228 | 0 | (51) | 184 | 250 | (66) | | | | |
| 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 | 15 | 0 | (15) | 1,188 | 1,188 | 2,898 | 0 | (1,710) | 1,188 | 2,953 | (1,765) | | | | |
| 3001.A2.02 - Non Transfer - AMH | 12 | 12 | 0 | 0 | 12 | 1,635 | 1,635 | 954 | 0 | 681 | 1,924 | 1,191 | 733 | | | | |
| 3001.A2.03 - Non Transfer - ATL | 15 | 15 | 0 | 0 | 15 | 1,161 | 1,161 | 702 | 0 | 459 | 1,541 | 1,013 | 528 | | | | |
| 3001.A2.04 - Non-Transfer - WCH | 296 | 296 | 9 | 0 | 287 | 41,636 | 41,636 | 41,593 | 0 | 43 | 48,813 | 47,468 | 1,345 | | | | |
| 3001.A2.05 - Non-Transfers - HPM | 0 | 0 | 51 | 0 | (51) | 3 | 3 | 1,951 | 0 | (1,948) | 3 | 2,180 | (2,177) | | | | |
| 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 | 466 | 0 | (466) | 0 | 577 | (577) | | | | |
| 3001.A4.01 - Request for Services | 334 | 334 | 499 | 0 | (165) | 70,439 | 70,439 | 98,214 | 0 | (27,776) | 78,693 | 107,623 | (28,930) | | | | |
| 3001.A4.02 - HAMMER RFSS | 3 | 3 | 152 | 0 | (149) | 7,078 | 7,078 | 29,534 | 0 | (22,456) | 7,149 | 31,493 | (24,343) | | | | |
| 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 | 70 | 0 | (53) | 6,934 | 6,934 | 10,223 | 0 | (3,290) | 7,322 | 10,735 | (3,413) | | | | |
| 3001.A5.01 - RL PD | 58 | 58 | 122 | 0 | (63) | 3,405 | 3,405 | 5,721 | 0 | (2,316) | 4,734 | 7,310 | (2,576) | | | | |
| 3001.A5.02 - ORP PD | 0 | 0 | 59 | 0 | (59) | 37 | 37 | 6,894 | 0 | (6,858) | 37 | 7,140 | (7,103) | | | | |



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 (2017/4/24) | | | | | | | | | | |
| b. Location (Address and Zip Code) | | b. Number | | | b. Phase | | | | b. To (2017/5/21) | | | | | | | | | | |
| c. TYPE | | d. Share Ratio | | | c. EVMS ACCEPTANCE | | | | | | | | | | | | | | |
| Item (1) | Current Period | | | | | Cumulative to Date | | | | | At Completion | | | | | | | | |
| | Budgeted Cost | | Actual Work Performed (4) | Variance | | Budgeted Cost | | Actual Work Performed (9) | Variance | | Budgeted (12) | Estimated (13) | Variance (14) | | | | | | |
| | Work Scheduled (2) | Work Performed (3) | | Schedule (5) | Cost (6) | Work Scheduled (7) | Work Performed (8) | | Schedule (10) | Cost (11) | | | | | | | | | |
| 3001.A5.03 - RL Project Funded | 46 | 46 | 590 | 0 | (544) | 935 | 935 | 5,182 | 0 | (4,247) | 2,081 | 7,637 | (5,555) | | | | | | |
| 3001.A5.04 - ORP Project Funded | 0 | 0 | 144 | 0 | (144) | 0 | 0 | 2,475 | 0 | (2,475) | 0 | 3,062 | (3,062) | | | | | | |
| 3001.A6.01 - Portfolio PMTOs | (35) | (35) | 0 | 0 | (35) | 174 | 174 | 161 | 0 | 13 | 161 | 161 | (0) | | | | | | |
| 3001.A7.01 - G&A Liquidations | (1,477) | (1,477) | (1,265) | 0 | (212) | (152,965) | (152,965) | (160,106) | 0 | 7,141 | (189,028) | (200,026) | 10,998 | | | | | | |
| 3001.A7.02 - DLA Liquidations | (1,006) | (1,006) | (1,958) | 0 | 952 | (77,258) | (77,258) | (98,700) | 0 | 21,442 | (101,056) | (126,491) | 25,435 | | | | | | |
| 3001.A7.03 - Variable Pools Revenue | (7,253) | (7,253) | (7,816) | 0 | 563 | (520,690) | (520,690) | (495,518) | 0 | (25,172) | (696,863) | (674,094) | (22,770) | | | | | | |
| 3001.B1.01 - UBS Assessments for Other Providers | 2 | 2 | 0 | 0 | 2 | 126 | 126 | 0 | 0 | 126 | 184 | 0 | 184 | | | | | | |
| 3001.B1.02 - UBS Other MSC - HAMMER M&O | 10 | 10 | 0 | 0 | 10 | 578 | 578 | 0 | 0 | 578 | 843 | 0 | 843 | | | | | | |
| 3001.B1.03 - Assessment for Other Provided Services | 106 | 106 | 0 | 0 | 106 | 5,904 | 5,904 | 0 | 0 | 5,904 | 8,612 | 0 | 8,612 | | | | | | |
| 3001.B1.04 - Assessment for PRC Services to MSC | 59 | 59 | 0 | 0 | 59 | 3,476 | 3,476 | 0 | 0 | 3,476 | 4,977 | 0 | 4,977 | | | | | | |
| 3001.B1.07 - Request for Services | 1 | 1 | 0 | 0 | 1 | 249 | 249 | 0 | 0 | 249 | 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) | 7,729 | 7,729 | 15,882 | 0 | (8,152) | 887,962 | 887,962 | 961,334 | 0 | (73,372) | 1,077,298 | 1,161,563 | (84,266) | | | | | | |
| f. MANAGEMENT RESERVE | | | | | | | | | | | 3,229 | 3,229 | 0 | | | | | | |
| g. TOTAL | 26,480 | 26,405 | 40,623 | (74) | (14,219) | 2,752,948 | 2,751,290 | 2,852,302 | (1,658) | (101,011) | 3,459,326 | 3,602,600 | (143,274) | | | | | | |
| 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 | | a. Name | | | a. Name | | | | | a. From (2017/4/24) | | | | | | |
| Mission Support Alliance | | Mission Support Contract | | | Mission Support Contract | | | | | | | | | | | |
| b. Location (Address and Zip Code) | | b. Number | | | b. Phase | | | | | b. To (2017/5/21) | | | | | | |
| Richland, WA 99352 | | RL14728 | | | Operations | | | | | | | | | | | |
| c. TYPE | | d. Share Ratio | | | c. EVMS ACCEPTANCE | | | | | | | | | | | |
| CPAF | | | | | No X Yes | | | | | | | | | | | |
| 5. CONTRACT DATA | | | | | | | | | | | | | | | | |
| a. ORIGINAL NEGOTIATED COST | | | | b. NEGOTIATED CONTRACT CHANGES | | c. CURRENT NEGOTIATED COST (a+b) | | d. ESTIMATED COST OF UNAUTHORIZED UNPRICED WORK | | | e. CONTRACT BUDGET BASE (C+D) | | f. TOTAL ALLOCATED BUDGET | | g. DIFFERENCE (E - F) | |
| \$2,854,966 | | | | \$604,360 | | \$3,459,326 | | \$0 | | | \$3,459,326 | | \$3,459,326 | | \$0 | |
| h. CONTRACT START DATE | | | | i. CONTRACT DEFINITIZATION DATE | | | j. PLANNED COMPLETION DATE | | | k. CONTRACT COMPLETION DATE | | l. ESTIMATED COMPLETION DATE | | | | |
| 2009/05/24 | | | | 2009/05/24 | | | 2019/05/25 | | | 2019/05/25 | | 2019/05/25 | | | | |
| 6. PERFORMANCE DATA | | | | | | | | | | | | | | | | |
| ITEM (1) | BCWS CUMULATIVE TO DATE (2) | BCWS FOR REPORT PERIOD (3) | BUDGETED COST FOR WORK SCHEDULED (BCWS) (Non-Cumulative) | | | | | | | | | | | | | |
| | | | Six Month Forecast By Month | | | | | | | | | | | | UNDISTRIBUTED BUDGET (15) | TOTAL BUDGET (16) |
| | | | Jun FY17 (4) | Jul FY17 (5) | Aug FY17 (6) | Sep FY17 (7) | Oct FY18 (8) | Nov FY18 (9) | Dec FY18 (10) | Jan FY18 (11) | Feb FY18 (12) | Remaining FY18 (13) | FY19 (14) | | | |
| a. PERFORMANCE MEASUREMENT BASELINE (Beginning of Period) | 1,846,235 | 18,460 | 22,870 | 17,424 | 17,950 | 30,051 | 14,438 | 17,383 | 19,228 | 13,027 | 18,121 | 207,571 | 135,872 | 0 | 2,378,630 | |
| b. BASELINE CHANGES AUTHORIZED DURING REPORT PERIOD | 18,751 | (18,460) | 112 | 90 | 84 | (468) | 0 | 0 | 0 | 0 | 0 | 60 | 0 | 0 | 170 | |
| a. PERFORMANCE MEASUREMENT BASELINE (End of Period) | 1,864,986 | | 22,982 | 17,514 | 18,034 | 29,584 | 14,438 | 17,383 | 19,228 | 13,027 | 18,121 | 207,631 | 135,872 | 0 | 2,378,800 | |



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

| DOLLARS IN Thousands | | | | | | | | | | | | | | | FORM APPROVED OMB No. 0704-0188 | |
|--|-----------------------------|-------------------------------------|--|--------------|-------------------------------------|--------------|--------------|---------------------|---------------|---------------|---------------|---------------------|-----------|---------------------------|------------------------------------|--|
| 1. Contractor | | 2. Contract | | | 3. Program | | | 4. Report Period | | | | | | | | |
| a. Name Mission Support Alliance | | a. Name Mission Support Contract | | | a. Name Mission Support Contract | | | a. From (2017/4/24) | | | | | | | | |
| b. Location (Address and Zip Code) Richland, WA 99352 | | b. Number RL14728 | | | b. Phase Operations | | | b. To (2017/5/21) | | | | | | | | |
| 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 | | | | | | | | | | | | | |
| | | | Jun FY17 (4) | Jul FY17 (5) | Aug FY17 (6) | Sep FY17 (7) | Oct FY18 (8) | Nov FY18 (9) | Dec FY18 (10) | Jan FY18 (11) | Feb FY18 (12) | Remaining FY18 (13) | FY19 (14) | | | |
| a2. NON - PERFORMANCE MEASUREMENT BASELINE (Beginning of Period) | 880,233 | 7,765 | 9,035 | 6,779 | 7,290 | 10,802 | 6,486 | 7,466 | 8,287 | 5,472 | 7,708 | 57,415 | 62,608 | 0 | 1,077,346 | |
| b2. BASELINE CHANGES AUTHORIZED DURING REPORT PERIOD | 7,729 | (7,765) | (4) | (3) | (3) | (4) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | (49) | |
| a2. NON - PERFORMANCE MEASUREMENT BASELINE (End of Period) | 887,962 | | 9,032 | 6,777 | 7,287 | 10,798 | 6,486 | 7,466 | 8,287 | 5,472 | 7,708 | 57,415 | 62,608 | 0 | 1,077,298 | |
| 7. MANAGEMENT RESERVE | | | | | | | | | | | | | | | 3,229 | |
| 8. TOTAL | 2,752,948 | 0 | 32,014 | 24,291 | 25,321 | 40,382 | 20,924 | 24,849 | 27,516 | 18,499 | 25,828 | 265,046 | 198,480 | 0 | 3,459,326 | |



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 (2017/4/24) |
| b. Location (Address and Zip Code) Richland, WA 99352 | b. Number - RL14728 | | b. Phase - Operations | b. To (2017/5/21) |
| | c. Type CPAF | d. Share Ratio | c. EVMS Acceptance NO X YES | |
| 5. Evaluation | | | | |

Explanation of Variance /Description of Problem:

Current Month Cost Variance (CV):

3001.01.01 Safeguards and Security – Unfavorable CM CV is due to implementation of the Graded Security Protection Policy that significantly increased manpower requirements and the bid assumption that the Spent Nuclear Material (SNM) would be shipped off the Hanford site by year 3. This policy was subsequent to the MSA baseline proposal and implementation.

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 Fiscal Year (FY) 2017 CV. Services delivered at HAMMER have not been adversely affected because the services are executed consistent with the approved Integrated Investment Portfolio (IIP) scope.

3001.02.03 Public Safety & Resource Protection – Unfavorable CM CV is primarily due to the cultural and historical resource program and seismic monitoring account’s approved IIP funded scope being divergent from the contract baseline.

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 primarily due to additional labor support required for filling road potholes due to the severe winter weather.

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.



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 (2017/4/24) |
| b. Location (Address and Zip Code) Richland, WA 99352 | b. Number - RL14728 | | b. Phase - Operations | b. To (2017/5/21) |
| | c. Type CPAF | d. Share Ratio | c. EVMS Acceptance NO X YES | |
| 5. Evaluation | | | | |

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.

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 – Favorable CM SV is due to efficiencies during construction execution in both subcontractor performance and project support for project L-868 “Raw Water Fire Protection Loop for LAWPS”. Efficiencies include contractor owned equipment allowing multiple construction activities to be performed concurrently, contractor resource availability allowing for crew sizes substantially larger than anticipated, and optimal soil conditions during excavations because of minimal pit runs and no black sand encountered.

3001.08.04 Roads and Grounds – Unfavorable CM SV is primarily due to the suspension of construction as a result of the Plutonium-Uranium Extraction (PUREX) tunnel collapse. The contractor mobilized and was required to demobilize the same week.

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:



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 (2017/4/24) |
| b. Location (Address and Zip Code) Richland, WA 99352 | b. Number - RL14728 | | b. Phase - Operations | b. To (2017/5/21) |
| | c. Type CPAF | d. Share Ratio | c. EVMS Acceptance NO X YES | |
| 5. Evaluation | | | | |

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.

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 2016, which increased the contract value. The FY 2016 pension and labor adder proposal was negotiated and incorporated in April 2017. At the request of RL, the labor and pension proposals are submitted annually at fiscal year-end. The FY 2017 variances associated with labor and pension will continue to grow during the FY.

3001.01.01 Safeguards and Security: Unfavorable CTD CV is primarily due to differences in the baseline budgeting and FY 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 FY 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 FY 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



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 (2017/4/24) |
| b. Location (Address and Zip Code) Richland, WA 99352 | b. Number - RL14728 | | b. Phase - Operations | b. To (2017/5/21) |
| | c. Type CPAF | d. Share Ratio | c. EVMS Acceptance NO X YES | |
| 5. Evaluation | | | | |

CTD CV will continue to increase. Services delivered at HAMMER will not be adversely affected because the services are executed consistent with the approved FY IIP/funding. No other potential contributing performance issues were identified.

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 in Field Surveillance/Near-Facility Monitoring and Curation Services. No mitigating actions are required at this time.

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

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 were included in the baseline have been authorized through the FY 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 FY 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 high performance buildings & sustainability, executive order 13514, site sustainability, and recycling services areas approved funding and IIP scope being divergent from the baseline. No mitigating actions are required at this time.

3001.04.14 Land and Facilities Management – Favorable CTD CV is primarily due to condition assessment surveys 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.



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 (2017/4/24) |
| b. Location (Address and Zip Code) Richland, WA 99352 | b. Number - RL14728 | | b. Phase - Operations | b. To (2017/5/21) |
| | c. Type CPAF | d. Share Ratio | c. EVMS Acceptance NO X YES | |
| 5. Evaluation | | | | |

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 FY 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.

3001.07.01 Portfolio Management: Favorable CTD CV is primarily due to less Portfolio Planning, Analysis & Performance Services 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 favorable variance.

3001.08.08 Network & Telecommunications: Unfavorable CTD CV is primarily due to approved funding authorizations for the HLAN Phase 2 Network expansion, Records Storage Facility, and Enterprise VoIP Solution Implementation scope that was divergent from the baseline.

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.



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 (2017/4/24) |
| b. Location (Address and Zip Code) Richland, WA 99352 | b. Number - RL14728 | | b. Phase - Operations | b. To (2017/5/21) |
| | c. Type CPAF | d. Share Ratio | c. EVMS Acceptance NO X YES | |
| 5. Evaluation | | | | |

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 – Favorable CTD SV is due to efficiencies during construction execution in both subcontractor performance and project support for project L-868 Raw Water Fire Protection Loop for LAWPS. Efficiencies include contractor owned equipment allowing multiple construction activities to be performed concurrently, contractor resource availability allowing for crew sizes substantially larger than anticipated, and optimal soil conditions during excavations because of minimal pit runs and no black sand encountered. The favorable CTD SV is partially offset by project L-830, Filter Plant Filter Control System Upgrade due to engineering design completing behind schedule impacting successor activities, like delays in material delivery and delays in work activities.

3001.08.04 Roads and Grounds – Unfavorable CTD SV is primarily due to the suspension of construction as a result of the PUREX tunnel collapse. The contractor mobilized and was required to demobilize the same week.

3001.08.09 Capital Equipment Not Related to Construction – Unfavorable CTD SV due to project EC04 to procure a 150 Ton Crane for the Crane & Rigging department. The procurement was planned to occur in April but due to the vendor not having the crane in inventory, the procurement is now planned to occur in September.

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 is required because 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.



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 (2017/4/24) |
| b. Location (Address and Zip Code) Richland, WA 99352 | b. Number - RL14728 | | b. Phase - Operations | b. To (2017/5/21) |
| | c. Type CPAF | d. Share Ratio | c. EVMS Acceptance NO X YES | |
| 5. Evaluation | | | | |
| <p>MSA received contract modifications associated with pension cost and labor adder adjustments for FY 2009 through FY 2016 which increased the contract value. The FY 2016 pension and labor adder proposal was negotiated and incorporated in April 2017. At the request of RL, the labor and pension proposals are submitted annually at fiscal year-end. The FY 2017 variances associated with labor and pension will continue to grow during the fiscal year.</p> <p>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.</p> <p>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.</p> <p><u>Negotiated Contract Changes:</u> The Negotiated Contract Cost for May 2017 decreased by \$0.1M from \$3,459.4M to \$3,459.3M. The budget decrease is from BCR VMSA-17-016 – Mod 593 – Reduce Budget for Closure of Non-PMB PMTOs 16-001, 16-002, and 16-003.</p> <p><u>Changes in Estimated Cost of Authorized / Unpriced Work:</u> The Authorized Unpriced Work (AUW) for May 2017 remained at \$0M.</p> <p><u>Changes in Estimated Price:</u> The Estimated Price of \$3,812.9M is based on the Most Likely Management Estimate at Completion (MEAC) of \$3,602.6M and fee of \$210.3M. The Most Likely MEAC reflects recognition of significant additional work scope in FY 2009 through FY 2012 related to the American Recovery and Reinvestment Act of 2009 (ARRA) support activities to site contractors, and other DOE-authorized activities beyond the original contract assumptions. BCRs 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.</p> | | | | |



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

| | 2. Contract | | 3. Program | 4. Report Period |
|--|-------------------------------------|----------------|-------------------------------------|---------------------|
| a. Name Mission Support Alliance | a. Name Mission Support Contract | | a. Name Mission Support Contract | a. From (2017/4/24) |
| b. Location (Address and Zip Code) Richland, WA 99352 | b. Number - RL14728 | | b. Phase - Operations | b. To (2017/5/21) |
| | c. Type CPAF | d. Share Ratio | c. EVMS Acceptance NO X YES | |
| 5. Evaluation | | | | |
| <p><u>Differences between Current Month and Prior Month EAC's Format 1, Column (13) (e):</u> During May 2017, the Estimate at Completion (EAC) increased by \$3.3M from \$3,599.3M to \$3,602.6M; \$1.6M in the Performance Measurement Baseline (PMB), \$1.9M in the Non-PMB and (\$0.2M) in Management Reserve. The PMB increase is primarily driven by a net cost pass back in May for mid-year adjustments to labor adders/G&A and out month increases due to the net of lower G&A and higher labor adders for the balance of the fiscal year. The Non-PMB increase is primarily due to Other Hanford Contractors, CHPRC and WRPS, requesting more support than planned.</p> <p><u>Changes in Undistributed Budget:</u> The Undistributed Budget of \$0M did not change this reporting period.</p> <p><u>Changes in Management Reserve:</u> The Management Reserve for May 2017 decreased by (\$0.2M) from \$3.4M to \$3.2M. The decrease was due to risks realized for the L-775, L-776 and L-777 projects.</p> <p><u>Differences in the Performance Measurement Baseline:</u> This reporting period the Performance Measurement Baseline increased by \$0.2M from \$2,378.6M to \$2,378.8M. The increase was primarily due to realized risks for the following BCRs.</p> <ul style="list-style-type: none"> • VRL40RP-17-004 Rev 1 – Increase Budget for Project L-775 “Chip Seal Route 4S Canton Avenue to Wye Barricade” from Management Reserve due to Realized Risk (ID #1735) • VRL40RP-17-005 Rev 1 – Increase Budget for L-776 “Chip Seal Route 4S Wye Barricade to 618 Waste Site Entrance” from Management Reserve due to Realized Risk (ID# 1736) • VRL40RP-17-007 Rev 1 – Increase Budget for Project L-777 “Chip Seal Route 4S, 618-10 West Site to Horn Rapids Road” from Management Reserve due to Realized Risk (ID# 1737) | | | | |



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

| | 2. Contract | | 3. Program | 4. Report Period |
|---|-------------------------------------|-------------------|-------------------------------------|---------------------|
| a. Name Mission Support Alliance | a. Name Mission Support Contract | | a. Name Mission Support Contract | a. From (2017/4/24) |
| b. Location (Address and Zip Code) Richland, WA 99352 | b. Number - RL14728 | | b. Phase - Operations | b. To (2017/5/21) |
| | c. Type CPAF | d. Share Ratio | c. EVMS Acceptance NO X YES | |
| <p>Additionally the following BCRs related to Reliability Project adjusted time phasing, but did not change the contract value.</p> <ul style="list-style-type: none"> VRL40RP-17-026 – Move Budget from FY 2017 Reliability Project Planning Package (L-357, L-863 and L-888) to Reliability Project Studies, Estimates, & Planning for Initial Project Planning VRL40RP-17-029 – Move Budget from FY 2018 Reliability Projects Out-Year Planning Budget to Reliability Project Management & Strategic Planning per RL Direction and Re-Baseline VRL40RP-17-030 – Move Budget for L-781 from FY 2017 Reliability Project Planning Package to FY 2018 Reliability Project Planning Package Due to Delay in Project Start <p><u>Differences in the Non - Performance Measurement Baseline:</u></p> <p>This reporting period the Non-PMB decreased by (\$0.1M) from \$1077.4M to \$1077.3M. The decrease was due to implementation of BCR VMSA-17-016 – Mod 593 – Reduce Budget for Closure of Non-PMB PMTOs 16-001, 16-002, and 16-003.</p> <p><u>Best/Worst/Most Likely Management Estimate at Completion (MEAC):</u></p> <p>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.</p> | | | | |



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 – May 2017 | | | | | |
|--|------------------|------------------|-------------------|--------------------|---------------------|
| Account Description | BCWS | BCWP | ACWP | CV | Liquidation |
| Direct Labor Adder | | | | | |
| Software Engineer Services DLA (3001.03.02.03) | \$1,721.7 | \$1,721.7 | \$1,485.5 | \$236.2 | \$(1,489.1) |
| Content & Records Management DLA (3001.03.01.04) | \$600.7 | \$600.7 | \$514.9 | \$85.8 | \$(449.5) |
| Transportation DLA (3001.04.06.02) | \$1,273.8 | \$1,273.8 | \$3,548.3 | \$(2,274.5) | \$(4,472.5) |
| Maintenance DLA (3001.04.05.02) | \$4,509.8 | \$4,509.8 | \$6,312.0 | \$(1,802.2) | \$(5,759.8) |
| Janitorial Services DLA (3001.04.05.03) | \$801.7 | \$801.7 | \$783.2 | \$18.5 | \$(587.8) |
| Total Direct Labor Adder | \$8,907.7 | \$8,907.7 | \$12,643.9 | \$(3,736.2) | \$(12,758.7) |

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.



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

| Fiscal Year 2017 to Date – May 2017 | | | | | |
|---|------------|------------|------------|--------------|--------------|
| Account Description | BCWS | BCWP | ACWP | CV | Liquidation |
| Usage Based Services | | | | | |
| Training (3001.01.04.02) | \$7,420.2 | \$7,420.2 | \$9,605.9 | \$(2,185.7) | \$(10,009.4) |
| HRIP (3001.02.04.02) | \$3,984.2 | \$3,984.2 | \$2,455.4 | \$1,528.8 | \$(2,741.9) |
| Dosimetry (3001.02.04.03) | \$4,081.0 | \$4,081.0 | \$2,805.7 | \$1,275.3 | \$(3,289.4) |
| Information Technology Services (3001.03.07.01) | \$19,643.2 | \$19,643.2 | \$22,126.0 | \$(2,482.8) | \$(20,225.1) |
| Work Management (3001.04.13.01) | \$- | \$- | \$380.7 | \$(380.7) | \$(365.3) |
| Courier Services (3001.04.15.02) | \$166.5 | \$166.5 | \$127.2 | \$39.3 | \$(124.6) |
| Occupancy (3001.04.14.06) | \$4,990.2 | \$4,990.2 | \$6,028.6 | \$(1,038.4) | \$(5,466.7) |
| Crane & Rigging (3001.04.08.02) | \$7,698.8 | \$7,698.8 | \$7,964.6 | \$(265.8) | \$(7,512.0) |
| Guzzler Trucks (3001.04.06.03) | \$58.3 | \$58.3 | \$(1.0) | \$59.3 | \$- |
| Fleet (3001.04.07.02) | \$5,824.4 | \$5,824.4 | \$10,071.0 | \$(4,246.6) | \$(9,162.8) |
| Total UBS | \$53,866.8 | \$53,866.8 | \$61,564.1 | \$(7,697.3) | \$(58,897.2) |
| Total DLA / UBS | \$62,774.5 | \$62,774.5 | \$74,208.0 | \$(11,433.5) | \$(71,655.9) |

ACWP = Actual Cost of Work Performed.

CV = Cost Variance

BAC = Budget at Completion.

BCWP = Budgeted Cost of Work Performed.

BCWS = Budgeted Cost of Work Scheduled.

FYTD Cost Variance (-\$11.4M) – Transportation DLA costs have increased in response to the ongoing Stevens Center/DOE moves, the additional winter weather support necessitated this fiscal year, and an increase in ongoing Site Operations & Maintenance support. Maintenance DLA cost impact a result of continual increased project work across the Site including PFP support. Occupancy volume has increased due to the FY 2017 inclusion of 2261 Stevens and 1981 Snyder facilities per the IT scope transition. Overall, the Usage Based and DLA service demand is far in excess of contract baseline assumptions, and continues to increase the ongoing variance, especially in the areas of 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 May 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-830, Filter Plant Filter Ctrl Sys Upgrade | 1,455.2 | 1,215.8 | 1,871.2 | (239.4) | (655.4) | 0.8 | 0.6 | 0.7 | 1,455.2 | 2,478.9 | (1,023.7) | 83.5% | 4/13/17 | 11/15/17 | R | R |
| L-419, 24in Line Renov/Replace from 2901U to 200E | 1,198.2 | 1,571.0 | 1,435.5 | 372.8 | 135.5 | 1.3 | 1.1 | 1.2 | 3,795.5 | 3,473.6 | 321.8 | 41.4% | 3/28/18 | 2/13/18 | G | G |
| L-868, Raw Water Fire Protection Loop for LAWPS | 705.2 | 1,215.0 | 530.9 | 509.8 | 684.1 | 1.7 | 2.3 | 2.0 | 1,227.1 | 542.6 | 684.6 | 99.0% | 12/28/17 | 6/8/17 | G | G |
| L-894, Raw Water Cross Connection Isolation 200E/W | 453.6 | 508.2 | 223.9 | 54.5 | 284.3 | 1.1 | 2.3 | 1.7 | 1,400.0 | 1,088.9 | 311.1 | 36.3% | 3/1/18 | 2/20/18 | G | G |
| L-853, 200E Sewer Flow Equalization Facility | 1,109.7 | 1,098.0 | 994.0 | (11.7) | 104.0 | 1.0 | 1.1 | 1.0 | 5,713.2 | 5,599.4 | 113.8 | 19.2% | 1/28/19 | 1/28/19 | G | G |
| L-854, 200E Sewer Consolidations | 743.5 | 730.4 | 671.9 | (13.1) | 58.5 | 1.0 | 1.1 | 1.0 | 6,033.0 | 5,963.7 | 69.4 | 12.1% | 11/28/18 | 11/28/18 | G | G |
| L-789, Prioritize T&D Sys Wood PP Test & Replace | 336.6 | 325.6 | 298.2 | (11.0) | 27.4 | 1.0 | 1.1 | 1.0 | 1,250.0 | 1,261.8 | (11.8) | 26.0% | 5/21/18 | 7/23/18 | R | G |
| L-612, 230kV Transmission System Reconditioning and Sustainability Repairs | 1,024.2 | 1,022.0 | 696.9 | (2.3) | 325.0 | 1.0 | 1.5 | 1.2 | 1,562.4 | 1,319.3 | 243.1 | 65.4% | 5/23/19 | 5/15/19 | G | G |
| L-777, Chip SI Rt 4s, 618-10 Wst Site to HR Road | 145.5 | 131.6 | 102.5 | (13.9) | 29.2 | 0.9 | 1.3 | 1.1 | 1,723.2 | 1,720.0 | 3.2 | 7.6% | 10/10/17 | 9/28/17 | G | G |
| L-775, Chip SI Rt 4s, Canton Ave to Y Barricade | 179.7 | 165.8 | 141.5 | (13.9) | 24.3 | 0.9 | 1.2 | 1.0 | 1,864.7 | 1,869.6 | (4.9) | 8.9% | 10/10/17 | 9/28/17 | G | G |
| L-859, Rebuild 1st St from Canton Ave to IDF Entrance Road | 372.9 | 231.3 | 264.9 | (141.6) | (33.6) | 0.6 | 0.9 | 0.7 | 1,152.6 | 264.9 | 887.7 | 20.1% | 8/29/17 | 8/14/18 | R | G |
| L-776, Chip SI Rt 4s, Y Brccd to 618 Wst St Ntrnc | 123.3 | 109.4 | 68.4 | (13.9) | 41.0 | 0.9 | 1.6 | 1.2 | 1,766.3 | 1,756.9 | 9.4 | 6.2% | 10/10/17 | 9/28/17 | G | G |
| L-761, Phase 2a Procure, Install, & Closeout | 2,161.9 | 2,133.5 | 2,269.2 | (28.5) | (135.7) | 1.0 | 0.9 | 1.0 | 2,162.2 | 2,567.3 | (405.2) | 98.7% | 12/29/16 | 6/19/17 | R | Y |
| RL-40 Total | 10,009.6 | 10,457.5 | 9,569.0 | 447.9 | 888.6 | 1.0 | 1.1 | 1.1 | 31,105.3 | 29,906.7 | 1,198.6 | | | | | |

| 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 | Critical Path at Risk |



RELIABILITY STATUS, CONT.

Reliability Projects Variance Explanations

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

- L-830, Filter Plant Filter Control System Upgrade: Unfavorable SV is due to lack of progress on completion of Filters 3 and 4. Issues with the effluent valve actuators has prevented the Project from moving forward. Troubleshooting and corrective actions are currently being performed to correct the control issue.
- L-419, 24in Line Renov/Replace from 2901U to 200E: Favorable SV is due to early performance of the pipeline excavation and installation ahead of the as-planned start.
- L-868, Raw Water Fire Protection Loop for LAWPS: Favorable SV is due primarily to efficiencies during construction execution in both subcontractor performance and project support. Efficiencies include contractor owned equipment (multiple construction activities performed concurrently), contractor resource availability (crew sizes substantially larger than anticipated), and optimal soil conditions during excavations (a minimal pit run and no black sand encountered).
- L-894, Raw Water Cross Connection Isolation 200E/W: Favorable CV is due to conceptual design activities completing ahead of schedule.
- L-859, Rebuild 1st St from Canton Ave to IDF Entrance Road: Unfavorable CV is due to the suspension of construction as a result of the PUREX tunnel collapse. The Contractor mobilized, and was required to demobilize the same week.

CTD Cost Variances (CV):

- L-830, Filter Plant Filter Control System Upgrade: Unfavorable CV is due to design requiring additional funding for 1) resolving comments provided at the initial 90% design submittal, 2) in-house engineering required to complete material procurement, 3) Operational Test Procedures (OTP) and Acceptance Test Procedures (ATP), 4) increased work package planning cost, and 5) construction cost not anticipated (scaffolding, rigging, outage costs, confined space inefficiencies, and extensive work planning efforts). Construction costs increased due to insufficient design details, work package planning, and unavailable materials. In addition, issues identified during performance of the ATP/OTP has further increased cost for corrections. The cost variance is not recoverable.



- L-419, *24in Line Renov/Replace from 2901U to 200E*: Favorable CV is due to the fixed price contractor work scope being performed at significantly lower cost than budgeted, including the Vegetation Clearing, and Pipeline Excavation and Installation.
- L-868, *Raw Water Fire Protection Loop for LAWPS*: Favorable CV is due to receiving favorable bids on Design and Construction contracts, and efficiencies in project support associated with optimal field conditions and encountering minimal underground interferences.
- L-894, *Raw Water Cross Connection Isolation 200E/W*: Favorable CV is due to conceptual design and the Study Report utilizing fewer resources than originally anticipated.
- L-853, *200E Sewer Flow Equalization Facility*: Favorable CV is due to efficiencies in both subcontractor design efforts, and project support. Efficiencies are associated with using historical geotechnical reports in lieu of performing a new geotechnical survey, and weekly design workshops to address concerns and provide timely design inputs to minimize rework.
- L-854, *200E Sewer Consolidations*: Favorable CV is due to efficiencies in both project support and credit received from the construction contractor. Efficiencies are associated with using historical geotechnical reports in lieu of performing a new geotechnical survey, and weekly design workshops to address concerns and provide timely design inputs to minimize rework.
- L-612, *230kV Transmission System Reconditioning and Sustainability Repairs*: Favorable CV is due to the subcontracted conceptual design having been completed with a significant favorable cost variance. The estimated value was \$436K, versus the contracted value of \$132K.
- L-859, *Rebuild 1st St from Canton Ave to IDF Entrance Road*: Unfavorable CV is due to the suspension of construction as a result of the PUREX tunnel collapse. The Contractor mobilized and was required to demobilize the same week.
- L-761, *Replace RFAR, Phase 2a - Procure, Install, & Closeout*: The Project is on hold pending resolution of scope. Resolution and a Baseline Change Request (BCR) forecasted for late September 2017. The current rescoping work is not budgeted.

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

- 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. Issues identified during the ATP/OTP performance are adding to the EAC cost for correction.

- L-419, *24in Line Renov/Replace from 2901U to 200E*: Favorable VAC is due to cost savings during the design phase, vegetation clearing performed for significantly less than budgeted, and the pipeline installation contract bid significantly lower than budgeted.
- L-868, *Raw Water Fire Protection Loop for LAWPS*: Favorable VAC is due to efficiencies in project support, and receiving very competitive bids on Design and Construction contracts.
- L-894, *Raw Water Cross Connection Isolation 200E/W*: Favorable VAC is due to conceptual design and the Study Report utilizing less resource cost than originally anticipated.
- L-853, *200E Sewer Flow Equalization Facility*: Favorable VAC is due to efficiencies in both subcontractor design efforts and project support. Efficiencies are associated with using historical geotechnical reports in lieu of performing a new geotechnical survey, and weekly design workshops to address concerns and provide timely design inputs to minimize rework.
- L-612, *230kV Transmission System Reconditioning and Sustainability Repairs*: Favorable VAC is due to the subcontracted conceptual design completed with a significant favorable cost variance. The estimated value was \$436K versus the contracted value of \$132K. The draft environmental assessment (EA) is predominately complete. The Cultural Resources Report is currently with the State historic preservation officer/Tribes. It is anticipated that significant comments will be received requiring MSA responses.
- L-859, *Rebuild 1st St from Canton Ave to IDF Entrance Road*: The favorable VAC reflects reduced costs due to suspension of project construction as a result of the PUREX tunnel collapse. The project has been reevaluated and will be restarted in January 2018.
- L-761, *Replace RFAR, Phase 2a - Procure, Install, & Closeout*: Unfavorable VAC is due to the upward escalation of Project cost to approximately \$21M. Options are being evaluated to lower the total Project cost. Options considered include combining the Radio Fire Alarm Receiver (RFAR) and Fire Alarm Control Unit projects (Projects L-761 and L-863), as well as a change to communicating architecture. The replanning effort is forecasted to complete this fiscal year.



Upon completion of planning documents, an estimate, schedule, and scope definition will be developed to support a restart BCR.

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 1 | | | | |
|--|---|--------------------------|-----|--------|----------------|-----------------|----------------|-----------------|-------------|------|------|------|------|
| Activity ID | Activity Name | OD | RD | % Comp | Baseline Start | Baseline Finish | Forecast Start | Forecast Finish | 15 | 2016 | 2017 | 2018 | 2019 |
| L-419 | L-419, 24" Line Renovation/Replacement from 2901U to 200E | 152 | 184 | 41.4% | 10-Aug-15 | 28-Mar-18 | 10-Aug-15 A | 13-Feb-18 | | | | | |
| L-612 | L-612, 230kV Transmission System Reconditioning and Sustainability Upgrades | 352 | 500 | 65.4% | 31-Aug-15 | 23-May-19 | 31-Aug-15 A | 15-May-19 | | | | | |
| L-761 Ph2a | L-761, Replace RFAR Phase 2a | 154 | 20 | 98.7% | 20-Jul-15 | 29-Dec-16 | 20-Jul-15 A | 19-Jun-17 | | | | | |
| L-775 | L-775, Chip Seal RT 4s, Canton Ave to Y Barricade | 186 | 91 | 8.9% | 10-Aug-15 | 10-Oct-17 | 10-Aug-15 A | 28-Sep-17 | | | | | |
| L-776 | L-776, Chip Seal Rt 4S Y Brrcd to 618 Wst St Ntrnc | 72 | 91 | 6.2% | 15-Jun-16 | 10-Oct-17 | 21-Jun-16 A | 28-Sep-17 | | | | | |
| L-777 | L-777, Chip Seal RT 4s, 618-10 Wst Site to HR Road | 186 | 91 | 7.6% | 24-Aug-15 | 10-Oct-17 | 10-Aug-15 A | 28-Sep-17 | | | | | |
| L-789 | L-789, Prioritized T&D System Wood Pole Upgrades | 203 | 295 | 26% | 10-Aug-15 | 21-May-18 | 10-Aug-15 A | 23-Jul-18 | | | | | |
| L-830 | L-830, Filter Plant Filter Control System Upgrade | 125 | 125 | 83.5% | 29-Jun-15 | 13-Apr-17 | 29-Jun-15 A | 15-Nov-17 | | | | | |
| L-853 | L-853, 200E Sewer Flow Equalization Facility | 309 | 424 | 19.2% | 17-Aug-15 | 28-Jan-19 | 17-Aug-15 A | 28-Jan-19 | | | | | |
| L-854 | L-854, 200E Sewer Consolidations | 283 | 384 | 12.1% | 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 | 311 | 20.1% | 08-Sep-15 | 29-Aug-17 | 08-Sep-15 A | 14-Aug-18 | | | | | |
| L-868 | L-868, Raw Water Fire Protection Loop for LAWPS | 155 | 13 | 99% | 04-Jan-16 | 28-Dec-17 | 14-Dec-15 A | 08-Jun-17 | | | | | |
| L-894 | L-894, Raw Water Cross Connection Isolation 200E/W | 376 | 188 | 36.3% | 29-Aug-16 | 01-Mar-18 | 29-Aug-16 A | 20-Feb-18 | | | | | |

Remaining Work
 Baseline

**MSC - Reliability Projects
Summary Schedule
Data Date: 21-May-17**





9.0 BASELINE CHANGE REQUEST LOG

Baseline Change Request Log for May

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

One BCR incorporated Contract Modifications:

- VMSA-17-016 – Mod 593 – Reduce Budget for Closure of Non-PMB PMTOs 16-001, 16-002, and 16-003

Six BCRs related to Reliability Projects:

- VRL40RP-17-004 Rev 1 – Increase Budget for Project L-775 “Chip Seal Route 4S Canton Avenue to Wye Barricade” from Management Reserve due to Realized Risk (ID #1735)
- VRL40RP-17-005 Rev 1 – Increase Budget for L-776 “Chip Seal Route 4S Wye Barricade to 618 Waste Site Entrance” from Management Reserve due to Realized Risk (ID# 1736)
- VRL40RP-17-007 Rev 1 – Increase Budget for Project L-777 “Chip Seal Route 4S, 618-10 West Site to Horn Rapids Road” from Management Reserve due to Realized Risk (ID# 1737)
- VRL40RP-17-026 – Move Budget from FY 2017 Reliability Project Planning Package (L-357, L-863 and L-888) to Reliability Project Studies, Estimates, & Planning for Initial Project Planning
- VRL40RP-17-029 – Move Budget from FY 2018 Reliability Projects Out-Year Planning Budget to Reliability Project Management & Strategic Planning per RL Direction and Re-Baseline
- VRL40RP-17-030 – Move Budget for L-781 from FY 2017 Reliability Project Planning Package to FY 2018 Reliability Project Planning Package Due to Delay in Project Start

One BCR was Administrative in Nature:

- VMSA-17-004 Rev 7 – Administrative BCR – Create Lower Level Task Order (LLTO) WBSs for Cost Collection Established in the Month of May



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 | Apr 2017 | 1,230,506 | | 1,230,506 | 1,230,506 | 255,127 | | 1,148,124 | | 2,378,630 | 2,378,630 |
| VMSA-17-004 Rev 7 | | | | | | 0 | | 0 | | 0 | 2,378,630 |
| VRL40RP-17-004 Rev 1 | | | | | | 56 | | 56 | | 56 | 2,378,686 |
| VRL40RP-17-005 Rev 1 | | | | | | 56 | | 56 | | 56 | 2,378,741 |
| VRL40RP-17-007 Rev 1 | | | | | | 58 | | 58 | | 58 | 2,378,799 |
| VRL40RP-17-026 | | | | | | 0 | | 0 | | 0 | 2,378,799 |
| VRL40RP-17-029 | | | | | | 293 | | 0 | | 0 | 2,378,799 |
| VRL40RP-17-030 | | | | | | (353) | | 0 | | 0 | 2,378,799 |
| | May 2017 | 1,230,506 | | 1,230,506 | 1,230,506 | 255,236 | | 1,148,293 | | 2,378,799 | |
| Prior Non-PMB Total | Apr 2017 | 604,007 | | 604,007 | | 99,235 | | 473,340 | | 1,077,347 | 1,077,347 |
| VMSA-17-004 Rev 7 | | | | | | 0 | | 0 | | 0 | 1,077,347 |
| VMSA-17-016 | | | | | | (49) | | (49) | | (49) | 1,077,298 |
| Revised Non-PMB Total | May 2017 | 604,007 | | 604,007 | | 99,186 | | 473,291 | | 1,077,298 | |
| Total Contract Performance Baseline | May 2017 | 1,834,513 | | 1,834,513 | 1,834,513 | | | 1,621,584 | | 3,456,097 | |
| Management Reserve | Apr 2017 | | 0 | 0 | | | 3,318 | | 3,398 | 3,398 | 3,398 |
| VRL40RP-17-004 Rev 1 | | | | | | | (56) | | (56) | (56) | 3,342 |
| VRL40RP-17-005 Rev 1 | | | | | | | (56) | | (56) | (56) | 3,286 |
| VRL40RP-17-007 Rev 1 | | | | | | | (58) | | (58) | (58) | 3,229 |
| Revised Management Reserve | May 2017 | | 0 | 0 | | | 3,149 | | 3,229 | 3,229 | |
| Total Contract Budget Base | | | | 1,834,513 | | | | 1,624,813 | | 3,459,326 | |
| Prior Fee Total | Apr 2017 | 109,961 | | 109,961 | | 21,701 | | 100,323 | | 210,283 | 210,283 |
| Revised Fee Total | May 2017 | 109,961 | | 109,961 | | 21,701 | | 100,323 | | 210,283 | |
| Change Log Total | May 2017 | | | 1,944,473 | | | | 1,725,135 | | 3,669,609 | |



10.0 RISK MANAGEMENT

May 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 April 2017 data. The following items were approved:
 - One new Mission risk related to the MSA Information Management organization.
 - Two Mission risk re-characterizations, one related to the MSA Information Management organization and one related to the MSA Public Works organization.
 - Three new Reliability Project risks: two for Project L-612, *230kV Transmission System Sustainability Upgrades*; and one related to Project L-419, *24" Line Renovation / Replacement from 2901U to 200E*.
 - Three closed Reliability Project risks: one for Project L-830, *Filter Plant Filter Control System Upgrade (Valves)*; and two related to Project L-612, *230kV Transmission System Sustainability Upgrades*.
 - One new Reliability Project Risk Handling Plan (RHP) related to Project L-612, *230kV Transmission System Sustainability Upgrades*.
- Risk Reporting – In May, 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. This report consisted of April data.
- Mission Risk Management:
 - Mission Risk Elicitations – Risk Management facilitated a Risk Elicitation for Information Management regarding a potential risk related to Washington River Protection Solutions' (WRPS') Public Address system in the Tank Farms. A risk is currently in development. Additional actions included:
 - Risk Management facilitated a follow-on risk elicitation for Emergency Services to continue drafting a set of new risks related to Hanford Fire Department equipment.



- Risk reviews were performed for Public Works (PW), Environmental, Safety and Health (ES&H), and Information Management (IM) to review and update risks identified as “Client,” and to capture all relevant risk updates. “Client” risks are those risks that have been determined to be outside of the ability of MSA to manage and are proposed for transfer to RL. These risk reviews are being performed to ensure client risks are current and valid prior to planned discussions with RL in preparation for risk transfer.
- Mission Risk Review and Update – A risk review was performed on the Water Utilities Risk Register to capture all relevant risk updates.
- Project Risk Analysis:
 - Reliability Project Risk Elicitation – A risk elicitation was held for Project L-894, *Raw Water Cross-Connection Isolation 200E/W*. A risk register for this project was developed.
 - Project Risk Review and Update – Risk Management toured the White Bluffs Bank rehabilitation project site with the Project Manager, and reviewed the associated risk register. Updates to this risk register were captured as appropriate. Additional actions included:
 - Performed monthly risk review with the Project Managers to review and revise the Reliability Project risk registers for all active projects. Updates to these risk registers were captured as appropriate.
 - Risk Management 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 MSA/DOE Risk Interface Meeting was held on May 4, 2017. This meeting was sparsely attended due to scheduling conflicts, however the current state of the MSA Risk Management program and ongoing activities were discussed. Additional actions included:



- Risk Management met with the DOE counterpart for the Volpentest HAMMER Federal Training Center (HAMMER) and HPM Corporation (HPMC), the Site occupational medical services provider, to review a recently approved Training & Conduct of Operations risk regarding the need for an update or replacement of the Enterprise Learning Management (ELM) system. Additionally, an informal risk elicitation was performed to identify areas of concern that will be evaluated for potential risk identification.
- Risk Register Database Software Solution Initiative – A representative from MSA Risk Management received a demonstration of the Enterprise Risk and Opportunity Management System (EROMS), currently in development for WRPS. A Statement of Work (SOW) for an Inter-Contractor Work Order to transfer the software, once completed, to MSA is in the review/negotiation process. Additional actions included:
 - MSA’s Risk Manager met with the project team currently developing EROMs to review and further develop a basis of estimate for anticipated revisions to the software once it has been transferred to MSA. These revisions will be focused on ensuring the software is flexible enough to meet multiple contractors’ and Department of Energy organizations’ Risk Register needs.
- Operation Change Control Board (OCCB) Packet Review - The standard review of the OCCB Packet was completed and assessed for risks for new work scope.
- Structured Improvement Activity – Completed the Cost Saving Profile for the Risk Realization Tracking and Recording Process Development Kaizen as part of the follow-on actions leading to implementation of the new process.



11.0 DASHBOARD SUMMARY

Table 11-1. Performance Evaluation and Measurement Plan

| May FY 2017 | | | | | | |
|---|--|--|------------|------------|--|--|
| 2017 Performance Evaluation and Measurement Plan | | | | | | |
| Deliverables | Plan | MSA | Status | | | |
| | | | YTD | MAY | | |
| 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. | | Demonstrate that the following performance measure targets were met. | | 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 | | |
| | | Fleet Services – Heavy Equipment (Evacuators) | | Brockman | | |
| | | Fleet Services – Heavy Equipment (General Purpose) | 9/30/2017 | Brockman | | |
| | i | Fleet Services – Light Equipment (Hanford Patrol) | | Brockman | | |
| | | Fleet Services – Light Equipment (Hanford Fire) | | Brockman | | |
| | | Fleet Services – Light Equipment (Special Purpose Trucks) | | Brockman | | |
| | j | IT - Cyber Security – System Patching | | Eckman | | |
| | k | PPF 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 | | |
| 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 | Metzger | | | |
| 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 |  | = Objective missed |
|  | = Complete |  | = N/A |
|  | = In jeopardy | | |



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

| May FY 2017 | | | | | |
|---|-------|---|-------------|-------------|-------------|
| 2017 Performance Evaluation and Measurement Plan | | | | | |
| Deliverables | Plan | MSA | Status | | |
| | | | YTD | MAY | |
| 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 | On schedule |
| | 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 | On schedule |
| | 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 | On schedule |
| | 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 | On schedule |
| | 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 | On schedule |
| | 2.1.6 | Provide Hanford contractors with integrated tools to maximize "wrench time." | 9/30/2017 | Metzger | On schedule |
| 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 | On schedule |
| Provide leadership to improve management effectiveness and collaborate and participate proactively with customers. | | | | | On schedule |
| 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: | | | | | On schedule |
| 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 | | | | | On schedule |
| 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 | | | | | On schedule |
| o Safeguards and security, fire department operations, emergency response, and emergency operations/emergency management | | | | | On schedule |
| o Land Management | | | | | On schedule |
| o Infrastructure and services program management, operations and maintenance | | | | | On schedule |
| o Effective contractor human resources management | | | | | On schedule |
| o Problem identification and corrective action implementation | | | | | On schedule |
| Performed work safely and in a compliant manner that assures the workers, public, and environment are protected from adverse consequences | | | On schedule | On schedule | |

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 May, and provides a 30-day look ahead through June 2017.

Table 12-1. May – June 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 - Apr | Eckman | 5/5/17 | 5/3/2017 | Information | N/A | N/A | N/A |
| CD0144 | Monthly Performance Report - Mar | Olsen | 5/10/17 | 5/2/2017 | Review | None | N/A | N/A |
| CD0035 | Hanford Site Wild Land Fire Plan | Walton | 5/15/17 | 5/15/2017 | Approve | 30 days | 6/15/17 | |
| CD0084 | Bonneville Power Administration (BPA) Power and Transmission Service invoice verification and breakdown of site contractor costs - Mar | Synoground | 5/30/17 | 5/30/2017 | Review | 30 days | 6/30/17 | |
| CD0070 | Bald Eagle Site Management Plan for the Hanford Site in South Central Washington | Wilson | 6/1/17 | 5/30/2017 | Approve | 45 days | 7/14/17 | |
| CD0047 | Radiological Assistance Program Response Plan for RAP Region 8 | Walton | 6/1/17 | 5/30/2017 | Approve | 60 days | 7/30/17 | |
| CD0123 | Monthly Billing Reports for DOE Services - May | Eckman | 6/5/17 | 5/31/2017 | Information | N/A | N/A | N/A |
| CD0144 | Monthly Performance Report - Apr | Olsen | 6/10/17 | 6/7/2017 | Review | None | N/A | N/A |
| CD0083 | Annual Electrical Load Forecasts | Synoground | 6/15/17 | | Review | 30 days | | |
| CD0042 | Annual Field Emergency Preparedness Evaluation Exercise Report | Walton | 6/23/17 | | Approve | 45 days | | |
| CD0084 | Bonneville Power Administration (BPA) Power and Transmission Service invoice verification and breakdown of site contractor costs - Apr | Synoground | 6/30/17 | | Review | 30 days | | |
| CD0129 | Content (Records) Management Security Plan | Eckman | 6/30/17 | | Approve | 45 days | | |
| CD0169 | Hanford Site Interface Management Plan | Brockman | 6/30/17 | | Review | 30 days | | |

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

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

IAMIT = Interagency Management Integration Team.

TPA = Tri-Party Agreement.

N/A = No action.



12.1 GOVERNMENT-FURNISHED SERVICES/INFORMATION AND DOE DECISIONS

There are two Government-Furnished Services and Information (GFS/I) items due to MSA in 2017:

- GF0049, due June 1, 2017: DOE to provide a Hanford “planning case” budget to prepare the *DRAFT Hanford Lifecycle Scope, Schedule, and Cost Report*, and
- GF0050, due October 31, 2017: DOE Approval of the *DRAFT Hanford Lifecycle Scope, Schedule, and Cost Report* (Lifecycle Report).

The agencies of the Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) have been discussing either delaying or deleting the M-036-01H milestone, which directs submittal of the 2018 Lifecycle Report. Until the discussions have concluded and the Tri-Party Agreement Agencies agree on the path forward for this report, it is not anticipated that RL will provide the GF0049 GFS/I “planning case” budget by June 1, 2017, or the associated GF0050 GFS/I deliverable by October 31, 2017.

[Editor’s note: As of June 1, 2017, GF0049 had not yet been received from RL. If indeed a contract modification is issued to either delay or delete the requirement for GF0049 and GF0050, it should be noted that per MSA’s contract with RL, MSA will be granted a day for day slip on the DRAFT Lifecycle Report deliverable for each day that the “planning case” budget is delayed.]



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% | 83.2% | 55.5% |
| Small Disadvantaged Business | 10.0% | 20.6% | 16.2% |
| Small Women-Owned Business | 6.8% | 22.4% | 12.1% |
| HubZone | 2.7% | 12.4% | 4.6% |
| Small Disadvantaged, Service Disabled | 2.0% | 12.2% | 4.8% |
| Veteran-Owned Small Business | 2.0% | 13.0% | 6.3% |
| Local Small Business | Highest Preference | 43.4% | - |

Through May 2017

Prime Contract Targets:

- At least 40% contracted out beyond MSA, LLC = 46% (\$1.425B/\$3.093B)
- Small Business 25% of Total MSC Value = 26% (\$0.795B/\$3.093B)



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SERVICE AREA SECTIONS

Individual Service Area Section reports for May 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

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



Business Operations

Rich Olsen, Vice President and Chief Financial Officer

Monthly Performance Report

May 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.

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. 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.

KEY ACCOMPLISHMENTS

PROGRAM CONTROLS

Fiscal Year (FY) 2018-2019 Integrated Investment Portfolio (IIP) Planning Exercise – In March, MSA delivered an FY 2018-2019 planning overview and Integrated Investment Portfolio (IIP) to RL for evaluation. MSA subsequently prepared a draft FY 2018-2019 Contract/Budget Alignment Guidance (C/BAG), which was reviewed with RL in April. In May, RL provided a draft revised FY 2017 funding guidance to MSA which includes the incorporation of a new Project Baseline Summary (PBS), RL-0201. MSA is analyzing the draft FY 2017 guidance. Concurrently, MSA provided RL an updated FY 2017 spend forecast to the new PBS structure on May 23, 2017 as requested. RL issuance of the FY 2018-2019 C/BAG is targeted for June 2017.



CONTRACTS AND PROCUREMENT

Contract Extension – On May 16, 2017, Contract Modification 595 was received from RL, exercising Option Period 2 extending the MSC through May 25, 2019.

Site Wireless Cell Services Transition – MSA successfully transitioned site wireless cell services to the DOE Headquarters Agreement using the Verizon Agency Level Agreement. This transition required coordination and partnership with RL to ensure all lines were transferred to the new agreement.

DOE Technical Support – MSA Prime Contracts completed the kick-off for the DOE FEDHealth Software Cost and Technical Proposal on May 15, 2017. The projected proposal submittal date to RL is June 28, 2017.

Notable Small Business Performance – MSA’s small business utilization in May continued well above goal in several areas:

| May 2017 Small Business Utilization Highlights | | |
|--|---------|---------|
| Description | Goal | Actual |
| Small Business | 50.00 % | 83.20 % |
| Small Women Owned | 6.80% | 22.39% |
| Service Disabled Veteran Owned | 2.00% | 12.18% |
| Overall Contract Value Outsourced | 25.80% | 46.00% |

Site Savings Recognition – In May, MSA received recognition from the Head of Contracting Activity, Office of Environmental Management, for MSA’s dedicated involvement to the Strategic Sourcing Initiative (SSI). MSA’s concentrated effort and strong participation in the SSI served as a significant driver of the savings total with a site savings amount of \$1,717,000, exceeding MSA’s FY 2016 goal of \$880,000 by 95.1%.

MSA Mentor Protégé Receives Award – MSA’s current Protégé, I-3 Global, Inc., received the Protégé of the Year Award for its outstanding work and progress under the DOE Mentor-Protégé Program. I-3 Global, Inc. specializes in information technology (IT)/information systems, management services, security and staff augmentation. Currently, I-3 Global provides IT services to MSA. This award was presented to I-3 at the 16th Annual DOE Small Business Expo on May 17, 2017. MSA continues to mentor I-3 Global under the Mentor-Protégé Agreement.

PROPERTY AND WAREHOUSE MANAGEMENT (P&WM)

Support to PUREX Tunnel Activities – In May, P&WM supported procurement of a covering for use by the CH2M HILL Plateau Remediation Company (CHPRC) at the PUREX tunnel roof collapse site. P&WM staff located a local source that was responsive to CHPRC’s schedule requirements, expedited the order (which included transmitting multiple configuration changes to the vendor), and assisted in the receiving process of the tarp.



Loading tarp cover for securing PUREX tunnel cave-in site

Excess Equipment Walk Down – MSA Asset Control personnel coordinated a walk down, with support from Radiation Control and Environmental staff, of a drill rig that CHPRC’s 618-10 project has designated as excess. The drill rig has been screened for potential reuse throughout the DOE complex, with potential further screening considered in order to make every effort at making use of this equipment within the Government before releasing from Hanford.



Screening drill rig for excess

Property Tags for Body Armor – P&WM staff met with Hanford Patrol personnel to determine how best to place bar-coded property tags on a new style of body armor now being purchased. Body armor is considered sensitive property and is closely tracked by Patrol in the Site asset management system. Five sets of the body armor have arrived, and Storekeepers, who place the tags on the items, had the opportunity to see the new items and determine the best placement of the tags.

FINANCE AND ACCOUNTING

Fluor Hanford, Inc. (FH) Contract Closeout – MSA Finance assisted the FH closeout office in reconciling several general ledger accounts and helped them disposition the remaining balances for the final closeout of the contract planned in June 2017.

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

- Processed 94,139 paychecks/advices for CHPRC and Washington River Protection Solutions LLC (WRPS) employees;
- Processed 1,989 physical checks to vendors for FH, CHPRC, and WRPS;
- Processed 3,449 electronic payments to vendors for FH, CHPRC, and WRPS;



- Processed 25,450 timecard corrections for CHPRC, and WRPS.
- Performed manual entry and approval of 1,698 timecards for those on short-term disability for CHPRC and WRPS.

LOOK AHEAD

FY 2018 Labor Rates – Development of FY 2018 Preliminary Labor Rates for use by MSA Project Controls analysts for the development of Usage Base Services and Direct Labor Adder rates has been initiated. The rates will be finalized utilizing June’s actuals.

Transition to New Project Baseline Summary (PBS) – MSA General Accounting team members met with MSA Project Controls personnel to plan the upcoming transition to the new PBS 0201 being implemented now that continuing resolution has ended. Implementation will require actions in the areas of funding, opening/closing cost account charge numbers, subcontract recoding, and cost transfers. The inventory funding will also be impacted and a separate meeting is planned specifically to discuss how to accomplish that portion of the transition.

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 May 2017.



BASELINE PERFORMANCE

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

| Fund Type | May 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 | \$(4.1) | \$0.0 | \$4.6 |
| 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 | \$0.2 | \$0.0 | (\$0.2) | \$2.8 | \$2.8 | \$0.9 | \$0.0 | \$1.9 |
| 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 | \$1.0 | \$0.0 | (\$0.2) | \$91.9 | \$91.9 | \$66.1 | \$0.0 | \$25.8 |
| Subtotal | \$0.8 | \$0.8 | \$1.2 | \$0.0 | (\$0.4) | \$100.0 | \$100.0 | \$67.7 | \$0.0 | \$32.3 |

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 -\$0.4M – May’s unfavorable cost variance is primarily due to the ongoing RL-40 General Supplies Inventory account business practice of costs and subsequent credits offsetting. The Site-wide Service variance is attributable to additional costs required for Performance Reporting and Warehouse Operations beyond original contract bid.

Contract-to-Date (CTD) Cost Variance +\$32.3M – The favorable CTD cost variances in RL-20, RL-40 and Site-wide Services are primarily due to credits associated with



Affiliate Fee on Information Technology scope and Training on Overtime pending final resolution, received in September 2016 and March 2017.

MISSION SUPPORT ALLIANCE

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

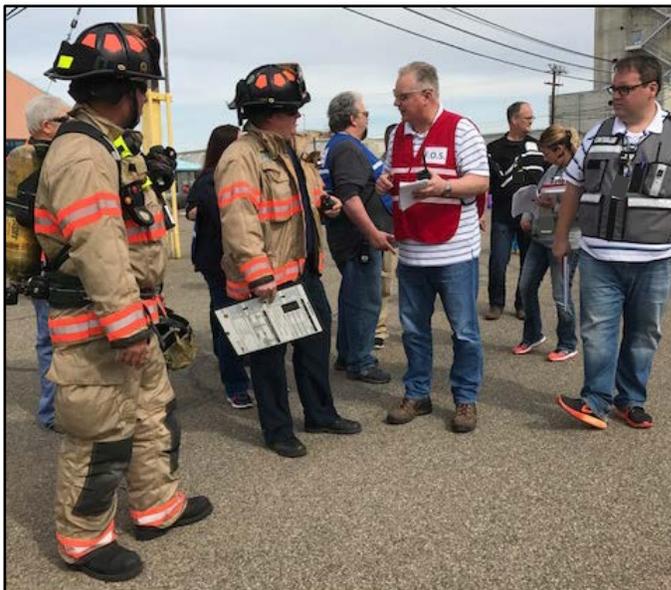


Emergency Services

Craig Walton, Vice President

Monthly Performance Report

May 2017



Emergency Management Program Supports 222S Drill



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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

Response to Plutonium Uranium Extraction (PUREX) Emergency – Emergency Management Program (EMP) personnel activated and staffed the Hanford Emergency Operations Center (EOC) May 9-10, 2017, due to a partially-collapsed tunnel at the PUREX facility. EMP staff ensured the EOC was staffed at the appropriate level, and equipment was operational throughout the event. The EOC processes, procedures, and training developed and implemented by EMP enabled the EOC staff to take planned actions in a timely manner, and effectively react to unplanned actions and unanticipated requests.

EMERGENCY MANAGEMENT PROGRAM

Formal Evaluation of PUREX Tunnel Event – EMP personnel are reviewing documentation associated with the PUREX tunnel event. EMP facilitated meetings with the Hanford Fire Department, Site Emergency Directors, Hanford Patrol, the CH2M HILL Plateau Remediation Company (CHPRC) Facility Emergency Response Organization, and others to identify good practices as well as opportunities for improvement. A formal evaluation of the response to the PUREX event will be submitted to U.S. Department of Energy (DOE) Richland Operations Office (RL).

Contract Deliverable Submitted -- Contract Deliverable CD0047, "*Radiological Assistance Program Response Plan for RAP Region 8,*" was submitted for RL approval on schedule on May 30, 2017.

HANFORD FIRE DEPARTMENT (HFD)

HFD Recruit Academy Graduation – An HFD graduation ceremony was conducted for five Recruit Academy firefighters on May 11, 2017. Graduates successfully completed the appropriate classes (including Firefighter 2, Wildland Fire, High Angle, Confined Space, Trench, Water and Low Angle Rescue and Hazardous Materials Operations), , and obtained International Fire Service Accreditation Congress Certification.



Prescribed Burn Activities – HFD personnel continued prescribed burn activities in May. Nearly 8,000 cubic yards were burned. HFD also completed annual fire break maintenance along Washington State Highways 24 and 240.

HFD Annual Safety Summit – HFD’s Annual Safety Summit forum was conducted May 9-10, 2017. Safety and operational issues were discussed with actions assigned and prioritized.

Contract Deliverable Submitted – Contract Deliverable CD0035, *“Hanford Site 2017 Wildland Fire Management Plan,”* was submitted for RL’s approval on May 15, 2017.

SAFEGUARDS AND SECURITY (SAS)

Rattlesnake Barricade Operating Hours – SAS personnel coordinated with Washington River Protection Solutions LLC and CHPRC to establish summer operating hours at the Rattlesnake Barricade in support of changes in work schedules of Site contractors. Operating hours were changed to reduce the potential for heat stress conditions in the field.

Voluntary Protection Program (VPP) Assessment – The DOE-Headquarters (HQ) VPP Assessment Team reviewed SAS’s VPP Program on May 22-25, 2017. The assessment team conducted interviews with members of various groups to ensure that promotion of excellence in safety through management leadership and employee involvement of workers met existing VPP criteria. DOE-HQ recommended SAS remain at the Star level with no conditions.

Human Reliability Program Surveillance Report – SAS personnel received an overall rating of *“Satisfactory”* from RL on May 9, 2017 for the Human Reliability Program Surveillance conducted April 25-26, 2017. There were no suggestions or findings.

SAS Contract Deliverables Submitted/Approved -- Contract Deliverable CD0007, *“Hanford Patrol Training Plan,”* was submitted for RL approval on May 2, 2017. RL approval of Contract Deliverable CD0020, *“Transmitter Review,”* was received on May 9, 2017, of Contract Deliverable CD0007, *“Hanford Patrol Training Plan,”* was received on May 12, 2017, and of Contract Deliverable CD0010, *“Patrol Security Incident Response Plan,”* was received on May 16, 2017.

LOOK AHEAD

Nothing to report



MAJOR ISSUES

Nothing to report

SAFETY PERFORMANCE

Emergency Services reported one Occupational Safety and Health Administration (OSHA) Recordable (Lost Days Away) injury in May when an employee sustained an injured back during training. There were four First Aid events: three injuries (knee pain, minor skin burn, stubbed toe) occurred during training; one injury occurred during an inspection of fire damage and the employee smelled an unknown odor. Additionally, one vehicle accident was reported after an employee backed into a sign. No injuries or damage were reported.

BASELINE PERFORMANCE

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

| Fund Type | May 2017 | | | | | Contract-to-Date | | | | |
|---|--------------|--------------|--------------|--------------|----------------|------------------|----------------|----------------|--------------|-----------------|
| | BCWS | BCWP | ACWP | SV | CV | BCWS | BCWP | ACWP | SV | CV |
| HSPD-12 (RL-0011,RL-0012, RL-0013, RL-0030) | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$2.9 | \$2.9 | \$2.8 | \$0.0 | \$0.1 |
| RL-0020 - SAS | \$4.5 | \$4.5 | \$5.5 | \$0.0 | (\$1.0) | \$447.1 | \$447.1 | \$455.1 | \$0.0 | (\$8.0) |
| Site-wide Services | \$2.2 | \$2.2 | \$3.8 | \$0.0 | (\$1.6) | \$204.8 | \$204.8 | \$221.9 | \$0.0 | (\$17.1) |
| Subtotal | \$6.7 | \$6.7 | \$9.3 | \$0.0 | (\$2.6) | \$654.8 | \$654.8 | \$679.8 | \$0.0 | (\$25.0) |

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

Explanation of Fund Type Assignments by Project Baseline Summary (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 3001.01.05.02.05. 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 (SAS) work is budgeted under WBS 3001.01.01.



BASELINE PERFORMANCE VARIANCE:

Current Month (CM) Cost Variance (CV) (-\$2.6M) – 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 (CTD) CV (-\$25.0M) – 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. These 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.

MISSION SUPPORT ALLIANCE

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



Environmental, Safety, & Health

Mike Wilson, Vice President

Monthly Performance Report

May 2017

YOU are at the Intersection of MSA Safety and Environmental Programs

YOU

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!**



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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 (RSS)

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

KEY ACCOMPLISHMENTS

Voluntary Protection Program (VPP) Star Status – On May 29, 2017, the U.S. Department of Energy (DOE) Headquarters VPP Team concluded a one week onsite assessment of MSA’s Safeguards and Security (SAS) Star Site. During the review, the Team recognized SAS’s efforts to maintain a strong partnership between management and workers, reduce injury rates, and meet the safety and health expectations required of a Star Site. Upon completion, SAS achieved the final recommendation of continued VPP Star level with no conditions. A final report from the Team that contains assessment details and associated opportunities for improvement is forthcoming.

Chronic Beryllium Disease Prevention Program (CBDPP) Use of Metal Ratio Process – The CBDPP Committee formalized the use of a metal ratio process utilizing strontium, rubidium and beryllium as a means of predicting whether a sample is naturally occurring versus processed (anthropogenic) beryllium. This process was developed through extensive studies with various samples and analytical techniques. If the analytical process demonstrates that a sample is proportionally within the bounds of beryllium associated with strontium and rubidium, contractors can develop a technical basis to determine if the normal beryllium control levels are exceeded. A technical



evaluation demonstrating this occurrence could result in cost savings through elimination of several further rounds of sampling.

Museum Exhibit – PSRP Curation Services provided access to the Manhattan Project and Cold War Era Hanford Collection for the general public through loan of Collection items to the High Desert Museum in Bend, Oregon. The exhibit, “A Complicated Legacy: The History of the Hanford Site,” opened in May, and included a discussion, led by Washington State University Tri-Cities, on the legacies of World War II and Cold War nuclear materials production, advancements in science and technology, and the largest nuclear cleanup in history. Forty-one items from the Hanford Collection are on loan to the High Desert Museum for the duration of the exhibit.

Support to Washington Department of Fish and Wildlife (WDFW) – Ecological Monitoring (EM) worked in coordination with the WDFW in collecting mouse-eared bats (*Myotis yumanensis*) for testing of the White Nose Syndrome (WNS) Fungus. The WDFW is surveying the entire state at known winter roosts and larger maternity roosts. The Hanford Site maternity roost in the 183F clearwell is the largest known *Myotis yumanensis* species of bats habitat in the state. MSA support included two biologists and one radiological control technician. A total of 37 bats were captured, of which 25 had both muzzle and wing swabs taken for analysis for the fungus that causes the WNS. No physical signs of WNS were present on any of the bats collected and all bats were determined to be females and appeared healthy. Formal results are expected back during the month of June to determine if the disease-causing fungus is present at some level in the maternity colony on Hanford.

Annual Firebreak Survey – During May, EM completed the firebreak survey that runs along the Hanford Site on Highway 240 and Highway 24. This work is performed annually to survey for ecological resources including, but not limited to, ground squirrels, burrowing owls, rare plants, and migratory bird nests. Over 30 miles of firebreak were surveyed with multiple bird nests, rare plants and ground squirrel colonies marked and protected.

Vernal Pool Survey with DOE – EM completed a survey of the vernal pools on Gable Butte, accompanying the DOE Site Stewardship Division who was performing an in-field operational assessment. Fieldwork included an assessment of pool status and size; sampling of pool water to ascertain the presence or absence of macro invertebrates and toad tadpoles; observations and signs of pool use by bird and mammal species and local plant communities surrounding and/or moving into the pools as they dry out. Motion-triggered field cameras were also retrieved for analysis of photographs taken. This field visit resulted in the first discovery of spadefoot toad tadpoles in the pools, and



documented the use of the pools by elk and mule deer. The Washington State Natural heritage Program ranks the Columbia Plateau Vernal Pool ecosystem as an imperiled ecosystem with a high-to-moderate risk of extinction in Washington. The Hanford Site Biological Resources Management Plan ranks vernal pools as a Level 5, “Irreplaceable Resource”.

Emergency Planning and Community Right-to-Know Act (EPCRA) – EIS staff worked with the Washington State EPCRA Program Coordinator for the Emergency Response Commission Ecology Community Right-to-Know Unit in an effort to improve the online reporting process for the Hanford Site Tier Two Emergency and Hazardous Chemical Inventory (Tier Two report). The Ecology online interface is designed for users to manually enter inventory. Due to the size of the inventory and the multitude of locations, Hanford presented a unique situation making manual data entry unfeasible. Ecology has provided EIS an application it developed specifically for those users and facilities who cannot enter their data manually.

LOOK AHEAD

PROJECT UPDATES

Electric Vehicle Charging Stations – EIS staff spoke with a representative from Washington River Protection Solutions (WRPS) about their plans to buy and install three electric vehicle charging stations. Each station would have four charging ports, and take credit cards so that both government and private vehicles would be able to use them. Current plans are to install two in the 200 Area; the location for the third charger has not yet been determined.

Benton Franklin Transit (BFT) Vanpool – EIS met with Transit representatives on May 2, 2017 to discuss expanded vanpooling options. Beginning this fall, vanpool riders will be able to submit paperwork online, get matched with other riders, and track greenhouse gas emission savings. Rescheduled bus routes accommodate frequent transportation routes by Hanford employees in town, as well as provide time estimates while waiting for transportation pick up. Given that about 73 percent of current vanpools through the BFT are occupied by Hanford employees, the option to develop a Hanford vanpool website utilizing the BFT software was presented to help increase communication and involvement. The Hanford vanpool website would replace the current BFT RideShare site.

Site Air Modeling Project Update – EIS worked with the MSA Geospatial Information Management Team to develop emission source, facility and receptor maps for inclusion in the Site Air Modeling Project Technical Basis. The MSA review of the draft Technical



Basis ended on May 31, 2017. Comments were incorporated and the document is being finalized for the start of the RL draft review which will start on June 22, 2017. A presentation is planned the week of July 24, 2017, to brief DOE Richland Operations Office (RL) and DOE Office of River Protection senior management on the final draft of the Technical Basis.

MAJOR ISSUES

None

SAFETY PERFORMANCE

ES&H reported no Occupational Safety and Health Administration (OSHA) Recordable injuries in May.

BASELINE PERFORMANCE

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

| Fund Type | May 2017 | | | | | Contract-to-Date | | | | |
|--------------------|--------------|--------------|--------------|--------------|----------------|------------------|----------------|----------------|--------------|----------------|
| | BCWS | BCWP | ACWP | SV | CV | BCWS | BCWP | ACWP | SV | CV |
| Site Wide Services | \$2.3 | \$2.3 | \$3.2 | \$0.0 | (\$0.9) | \$224.4 | \$224.4 | \$225.9 | \$0.0 | (\$1.5) |
| Subtotal | \$2.3 | \$2.3 | \$3.2 | \$0.0 | (\$0.9) | \$224.4 | \$224.4 | \$225.9 | \$0.0 | (\$1.5) |

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) (-\$0.9M) – CM unfavorable CV is attributed to baseline differences as described in the Contract-to-Date (CTD) variance. ES&H is working to RL-directed guidance that provides for a higher spending target than the baseline.

CTD CV (-\$1.5M) – 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 and FY 2017, 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

May 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 promote and enhance MSA's ability to recruit, develop and retain a diverse 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 (SCA) Training – On May 3, 2017, MSA made arrangements for a subject matter expert to provide training on the Service Contract Act (SCA) as it relates to activities on the Hanford Site. The training course covered many areas of the SCA, comprising of requirements, exemptions, wage and hour rules, fringe benefits, and vacation and holiday pay. The training was well received and appreciated by all attendees.

Cross-Contractor Staffing Interface – On Tuesday, May 16, 2017, the Mission Support Alliance (MSA) HR Staffing team held an interface meeting with the Staffing team from the CH2M Hill Plateau Remediation Company (CHPRC) to share information on Staffing processes and to collaboratively discuss ideas for process improvements. The



discussion for this interface meeting centered on best practices to adequately document steps in the staffing process and ensure official files are audit worthy. MSA hosts these interface meetings with other Hanford contractors to foster partnerships and to strengthen its role as the Site Integrator.

STAFFING/DIVERSITY & DEVELOPMENT

HR Management 2017 Spring Seminar – On May 17, 2017, a representative of MSA’s Staffing, Diversity and Development team attended the local Columbia Basin Society for HR Management seminar in Richland, Washington. The daylong seminar had several keynote speakers presenting topics on workplace safety and audits, diversity and inclusion, and leadership. Participation in events such as this seminar promotes employee development and engagement, while ensuring staff members are well-versed in the most recent HR concepts and compliance issues.

Delta High School Internship Fair – On May 5, 2017, members of MSA HR Staffing, Diversity & Development team attended Delta High School’s annual Internship Fair. The purpose of this event is to assist current junior-year students find meaningful internship opportunities during their senior year. The event allows students to interact with local employers and pursue opportunities with those that align with their future aspirations. Many of the students who attended have interests in pursuing careers in science, technology, engineering, and math; all of which can be found at MSA. The Staffing, Diversity and Development team will continue to work closely with hiring managers interested in utilizing the Intern Program.

Columbia Basin College Career Workshop – On May 12, 2017, MSA Staffing, Diversity & Development staff, along with the Director of MSA Cyber Security, attended Columbia Basin College’s 4th Annual Computer Science/Cyber Security Career Workshop. The event included a key note speaker, interactive job fair and a panel discussion. Attending students were excited to engage directly with MSA’s Director of Cyber Security. Feedback received was that they appreciated hearing straight from the source what the team at MSA is doing to keep the Hanford Site Network safe and secure. The students were additionally interested in the Co-Op Intern Program and information regarding future opportunities in this area.

MSA Recognition Program – MSA recently completed a revamp of the Special Thanks and Recognition (STAR) Program, including all new automated STAR certificates. The peer-to-peer recognition program is a real-time mechanism for employees to convey appreciation to co-workers for their accomplishments or exceptional customer service.



WSU Tri-Cities Professional Development – MSA’s HR Staff attended an event at Washington State University, Tri-Cities (WSU-TC), on May 23, 2017. The event focused on community partners in professional development, and the advances made at the University in relation to providing leadership training and other development opportunities to Hanford Site workers. The event was attended by Hanford Site contractors, U.S. Department of Energy (DOE) representatives, and other leaders in the community. WSU-TC Chancellor Keith Moo-Young, the key-note speaker, thanked the community partners that attended the event, and encouraged further partnership with the University in the areas of professional development. HR will be meeting with the WSU-TC Director of Professional Development and Community Education to discuss possible collaborations for tailored training geared towards MSA employees.

BENEFITS ACCOUNTING

Pension and Savings Committee Meeting – MSA’s HR coordinated the quarterly pension and Savings Committee meeting on May 11, 2017. The committee approved investment option changes for the Savings Plans, including adding a 2065 Target Retirement Fund, and combining the 2010 Target Retirement Fund with the Target Retirement Income Fund. The Committee additionally voted to add an International index fund to the Savings Plans. Other topics included Hanford Site Pension Plan and Hanford Site Savings Plan investment performance and fees, the preliminary pension plan funding valuation, and renewal of fiduciary insurance coverage.

Benefits Metrics Data Deliverable – MSA’s HR provided benefits information to CHPRC and Washington River Protection Solutions, LLC (WRPS), and submitted information for MSA to meet DOE’s biannual benefits data request. The benefit data request included medical, dental, life, time off, leave, severance, retirement, participant counts, and cost and plan design information. This year’s request also included a detailed census files for participants with medical, dental, and life insurance coverage. A kickoff meeting, and two progress meetings, were held during May to coordinate the ibenefits submissions. MSA-Information Technology staff assisted in reporting the census data. Information was sent to CHPRC and WRPS for submission through the ibenefits application.

TOTAL COMPENSATION

Calibration Technician Salary Program Development – In May, MSA Total Compensation partnered with the MSA Labor Relations team to develop a comprehensive salary program for the newly unionized Calibration Technicians group.



A plan was developed using available market and peer data, and then was presented to the local DOE program.

LABOR/EMPLOYEE RELATIONS

Service Catalog System – The MSA Service Catalog system is now being used to request “special circumstance” absences. The new on-line process allows special circumstance absences to be formally documented and approved. The on-line process also provides an audit record that ties back to the original approval of the absence request.

Personally Identifiable Information (PII) Concerns – MSA Labor & Employee Relations personnel worked with HPMC Occupational Medical Services (HPMC) and Hanford Atomic Metal Trades Council (HAMTC) members to resolve HPMC concerns related to Personally Identifiable Information (PII) required for the administration of the Labor Assets Management Program. Successful discussions with HAMTC and HPMC led to a revision to the HPMC medical form related to “Authorization for Release of Protected Information,” which resolved all of the PII concern issues.

Labor Compliance Update Meeting – Members of the MSA HR management team attended the Assistant General Counsel (GC) Human Resources Labor Counsel Update hosted by the DOE Richland Operations Office (RL). The purpose of the meeting was to provide updates to various executive orders related to such matters as establishing paid sick leave for Federal contractors, regulations prohibiting discrimination based on sexual orientation and gender identity, fair pay, safe workplaces, and strengthening overtime protections.

Memorandum of Agreement – MSA executed a Memorandum of Agreement with Hanford Atomic Metal Trades Council (HAMTC) that clarifies and modifies an existing collectively bargained provision related to return-to-work requirements. DOE Beryllium rule 10 CFR 851, *Chronic Beryllium Disease Prevention Program (CBDPP)*, Appendix A, Section 8, was used as the basis for the change to the return to work policy. Additionally, hospitalization and visits to the emergency room were better defined. This clarification will help to achieve consistency across the company when determining if a clearance to return to work is required.

TECHNICAL PROJECTS

First Quarter 2017 Fernald Committee Meeting – In May, HR conducted the First Quarter 2017 Fernald Benefits Committee meeting. During this meeting the Committee discussed the accomplishments that occurred during the previous quarter, Health



Reimbursement Arrangement and Catastrophic Drug utilization for Medicare-eligible retirees and their dependents for plan year 2016 and year-to-date 2017, and the status of the United Medical Resources contract for plan year 2018. A representative from OneExchange attended the meeting to provide the 2016 Annual Review, which noted improvements over the previous year’s statistics. The meeting concluded with a review of the Welfare plan statistics, which included participant census and financial data.

MAJOR ISSUES

None to report.

SAFETY PERFORMANCE

There were no OSHA recordable injuries reported in May. 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 | May 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 | \$19.2 | \$19.2 | \$18.2 | \$0.0 | \$1.0 |
| Subtotal | \$0.2 | \$0.2 | \$0.2 | \$0.0 | \$0.0 | \$19.2 | \$19.2 | \$18.2 | \$0.0 | \$1.0 |

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 (CM) Cost Variance (CV) (\$0.0M) – The May variance is within threshold.

Contract-to-Date (CTD) CV (+\$1.0M) – The favorable 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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MISSION SUPPORT ALLIANCE

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Information Management

Todd Eckman, Vice President

Monthly Performance Report

May 2017



RSA SecurID Tokens Retired & Recycled



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INTRODUCTION

Mission Support Alliance, LLC's (MSA) 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

NETWORK AND COMPUTING SERVICES

Data Center Receives new Storage Appliances – New storage appliances were racked and wired in one of the data centers to progress towards replacing the existing on premise storage, which is used for all site storage, with the exception of Virtual Desktop Infrastructure (VDI). This new flash storage line will provide for increased performance, a reduced footprint and optimized for cloud integration choices.



New Flash Storage Line

RSA Security, LLC (RSA)¹ SecurID Tokens Retired – All Hanford site RSA hardware & software tokens used for remote access have been retired and returned to the manufacturer for proper disposal. At the RSA Facility, each token will be dismantled and all reusable/recyclable parts will be appropriately retrieved.

VDI Migration Complete – IM has completed the migration of all VDI over to the new SolidFire² *All-Flash Array* storage solution in both data centers. Users are seeing an increase in thin client/hosted desktop performance, and analysts are able to provide tunable and predictable performance to each virtual machine.

¹ RSA Security, LLC, of Bedford, MA, is a subsidiary of Dell EMC

² Solidfire- provides cloud service providers with storage systems.



CONTENT AND RECORDS MANAGEMENT

Administrative Records (AR) Team Prepares for All-Electronic Operation - The AR team is performing an audit of records, images and metadata of the Administrative Records Public website. The AR documents decisions on remedial waste or hazardous material management. This audit assures customers and the public that they have access to complete and accurate information. This effort also supports the goal for the AR to go all electronic. The team is performing this cleanup and auditing while continuing daily processing of incoming documentation.

INFORMATION SUPPORT SERVICES

Navigation Support Services Provided - MSA-IM is providing Long-Term Stewardship (LTS) navigation services in the field using global positioning system surveying equipment. MSA LTS is assessing the waste sites they have become responsible for in the last few years. The equipment is loaded with several different layers of geospatial information including Waste Information Data System Sites, and Closure Verification Package boundaries.

BUSINESS OFFICE

Cellular Services Contract Transitioned - At the direction of U.S. Department of Energy (DOE) Richland Operations Office (RL), IM staff worked with RL, DOE Headquarters (DOE-HQ) and MSA Contracts, Accounting and Project Controls personnel to successfully transition the MSA Verizon Wireless³ cellular services contract to a DOE-HQ Verizon Wireless contract on May 1, 2017. This move will take advantage of the DOE-HQ larger user base to reduce cellular costs by pooling minutes into smaller monthly plans on cellular phones; and take advantage of the managed services administrated by a DOE-HQ contractor. This transition will eliminate the need for individual cost distribution to Hanford prime contractors because funding is being held back at the DOE-HQ level. MSA will still administer the cellular program, and provide oversight and reporting through the IM Business Office.

LOOK AHEAD

Exchange Upgrade Panning Moves Forward - Activities are underway to complete a long term email strategy by June 29, 2017. The strategy will provide a roadmap and recommendations for Hanford's Exchange deployment. A Network Assessment was held May 9, 2017 through May 11, 2017. Testing and deployment preparation has

³ Verizon Wireless, a telecommunications company, is a wholly owned subsidiary of Verizon Communications, Basking Ridge, NJ



included specially configured laptops located throughout the site and downtown Richland area. Discussions continue for licensing, costs and functionality.

Emergency Radio Engineering Study – The reliability project for the Emergency Radio system has begun. With a tentative schedule in place, work has been initiated to collect the information to complete the study. Discussions were held with the vendor to identify options for equipment upgrades. Following this meeting it was determined that the vendor will provide propagation studies of coverage from potential new end point locations. Once they have been received, they will be analyzed and used to determine if an alternate location will meet the necessary coverage required. All solutions and options will be included in the study.

Washington Closure Hanford (WCH), LLC Records Transfer – MSA Content and Records Management (CRM) staff participated in a customer support meeting with WCH, Records Management, IM, MSA IT and Human Resources staff to discuss turning over WCH records to MSA at the end of the WCH contract. WCH plans were to transfer approximately 12,000 records to the Integrated Document Management System in two stages. The first stage occurred in September 2016, at the end of the WCH contract; the second stage is planned for mid-2017, to allow for the final records to be completed.

Site Storage and Infrastructure Refresh Project – The IM organization has committed to upgrade and refresh site storage hardware. This operational project aims to reduce the information technology (IT) footprint at Hanford and provide better performance to users by taking advantage of the latest advances in storage technology. Storage has been procured, received, racked and configured. Data migration for all hosted desktops and databases are being planned.

Wireless System Replacement Project – The project to replace the current Worldwide Interoperability for Microwave Access (WiMax) wireless system with the WiFlex system (current flexible wireless technology) is continuing. Design of the core system is complete; installation of 2.1 MHz radio equipment at 506BA at the 180-foot level is being scheduled. This will be the first radio installation for the project other than test radios. This project is being coordinated with a Washington River Protection Solutions project to install a wireless public address system, message reader boards, tone alert radios, and video display monitors in and around the Hanford site tank farms.

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 May. There was one first aid injury reported when an employee suffered neck strain. No vehicle accidents were reported during the month.

BASELINE PERFORMANCE

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

| Fund Types | May 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 | \$14.3 | \$14.3 | \$17.0 | \$0.0 | (\$2.7) |
| 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 | \$1.4 | \$0.0 | \$0.9 | \$235.0 | \$235.0 | \$217.8 | \$0.0 | \$17.2 |
| Subtotal | \$2.5 | \$2.5 | \$1.6 | \$0.0 | \$0.9 | \$249.6 | \$249.6 | \$235.1 | \$0.0 | \$14.5 |

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) (+\$0.9M)

CM CV - Site-Wide Services (SWS) (+\$0.9) – The favorable CM CV is because of savings associated with the self-performance of Software Engineering Services.

Contract-to-Date (CTD) CV (+\$14.5M) – 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.



CTD CV – RL-20 (-\$2.7M) – The CTD CV in this account is primarily due to the approved funding and IIP scope being divergent from the baseline. In particular, the baseline budget does not include Unclassified Cyber Security. The unfavorable CTD CV will continue, and expenditures will be in accordance with approved funding and IIP scope.

CTD CV – Site Wide Services (+\$17.2M) – The CTD CV in these SWS 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;
- IM System Work Portal;
- Hanford Site Emergency Alerting System;
- Long-Term Storage;
- Major Collection Management;
- Information Resources and Content Management;
- Multi-Media Services;
- Geospatial;
- 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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MISSION SUPPORT ALLIANCE

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Portfolio Management

Steve Young, Vice President

Monthly Performance Report

May 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 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 - On April 6, 2017, MSA received a request from RL to implement the EMTRAX budget execution tool which was previously hosted at the Oak Ridge site. The automated tool allows budget analysts to manage and track budgets at the lower level control points for New Obligational Authority, prior year recovered funding and beginning uncosted funding. It provides the analysts with the capability to see at any given time where the funding has been authorized, how much is left, and what is left in reserve. RL required an implementation date of May 1, 2017 in order to meet DOE-Environmental Management deadlines and to ensure accessibility by RL Budget and Finance once the system was turned off in Oak Ridge. The upgraded RL-specific software was deployed to the production environment as required on May 1, 2017, meeting the deadline and preventing any delays by the RL Budget and Finance organization. RL subsequently requested PFM to review the EMTRAX system to determine what enhancements could be made that would further simplify the process for RL. PFM began looking through the code for new opportunities, and will be coordinating that effort with the users prior to making any additional improvements.

Regulatory Decision Document (RDD) Reporting Tool – At the request of the RL Assistant Manager for River and Plateau (AMRP) organization, PFM was requested to make revisions to the RDD Reporting Tool. This unique tool was developed to associate an RDD with the respective waste site, facility, pipeline, operable unit and selected remedy, and display regulatory decision status via a variety of standardized reports that include specialized hyperlinks to RDD source documents. The tool also



provides a geographic visualization and filtering capability for the RDD status of the various cleanup objects. This approach, created by PFM, has dramatically cut down time and resources in order to quickly identify various elements of cleanup and how they align to site prioritization.

GEN2 Reports – PFM provided further assistance to AMRP by producing GEN2 Reports used for analysis of AMRP project performance. These reports are generated in Excel¹ format from CH2M HILL Plateau Remediation Company earned value information stored in the Integrated Technical Data-mart (ITD). An application was developed that automatically generates the reports that were time intensive for the client to create manually.

Assistant Manager for Safety and Environment (AMSE) Safety Report – PFM completed development and deployed enhancements to the AMSE Safety Report that include specific label changes. This tool allows facility representatives to input monthly safety report information by contractor and/or category. The product from this tool is a consolidated report that is produced and contains trending information as well as details on all RL surveillances/assessments/audits, good practices, as well as issues and concerns. The report is posted regularly on the Project Data Management System (PDMS) to allow accessibility to all authorized DOE personnel who need to have data on a real time basis.

DASHBOARDS ACTIVITIES

Quality Assurance (QA) Audit Performance Dashboard – On May 24, 2017, PFM deployed the RL QA Audit Performance dashboard 40 days ahead of schedule. The dashboard is designed to display real-time status of multi-year RL and contractor planned and completed QA audit and audit-related activities. Data inputs include relevant information planned and identified in the annual RL Integrated Evaluation Plan. This information, in conjunction with the contractor planned activities, will be used to formulate triennial long-range planning matrices. The matrices will show how planned QA audits and audit-equivalent activities comply with QA program requirements.

Management/Independent Assessment Performance Dashboard – The data capture process and database design was initiated for the RL Management/Independent Assessment Performance Dashboard for the AMSE organization. The dashboard will provide quality performance indicators of completed management and independent assessments. Data inputs include relevant information captured in the RL Management

¹ Excel is a spreadsheet application developed by the Microsoft Corporation, Redmond, WA



and Independent Assessment Evaluation Tool, a Microsoft Access² application. The data will be used to monitor and report on the quality of management and independent assessments against performance indicators such as number of issues identified, timeliness in completing corrective actions and their effectiveness, etc. The dashboard will support RL in implementing and sustaining effective and value-added management and independent assessment programs, and will be a module of the RL AMSE Continuous Improvement dashboard suite.

RL Office of Access and Use (OAU) SharePoint³ Site – PFM provided support for the RL OAU SharePoint site. New document libraries and views were created. The site is used for collaboration on and recording of OAU correspondence, presentations, briefings, reports, and stakeholder interface documents.

RL AMSE SharePoint Site – PFM provided support for the RL AMSE SharePoint site. New content for the organization was added. Also, a new request was received for a SharePoint capability that would allow RL to track the progress of annual Records Information Management System (RIMS) product review and report the completion status in an efficient, timely and transparent manner. Management system stewards are responsible for reviewing and updating the RIMS products (cross-cutting processes, procedures and program descriptions) listed in their respective management systems on an annual basis.

MSA Report Input Tool (RIT) – PFM deployed the MSA RIT which will be used by subject matter experts to efficiently enter in monthly reporting analysis and data for multiple MSA dashboards. Follow-on efforts for new enhancements were initiated to refactor the tool to allow for a more database-driven approach.

MSA CONOPS Required Reading dashboard – On May 8, 2017, PFM deployed the MSA CONOPS Required Reading dashboard. The dashboard displays metrics on assigned readings, allowing management to see how many reading assignments are assigned per organization and type, timeliness of completion on the assignments, and metric trending information.

Annual Hanford Lifecycle Scope, Schedule and Cost Report (Lifecycle Report) – On May 10, 2017, PFM facilitated an internal strategy meeting with RL, DOE-Office of River Protection (ORP) and MSA Tri-Party Agreement (TPA) personnel. The meeting was to review several options for resolving two different draft TPA Change Requests

² Access is a database management system application developed by the Microsoft Corporation, Redmond, WA

³ SharePoint is a web-based, document management and storage system application developed by the Microsoft Corporation, Redmond, WA



regarding the 2018 and 2019 Lifecycle Reports. After collaborative discussion it was decided to continue negotiations with the regulators at the next Project Manager Meeting in July 2017. This was especially important because ORP will be updating its project baseline for use in the next Lifecycle Report.

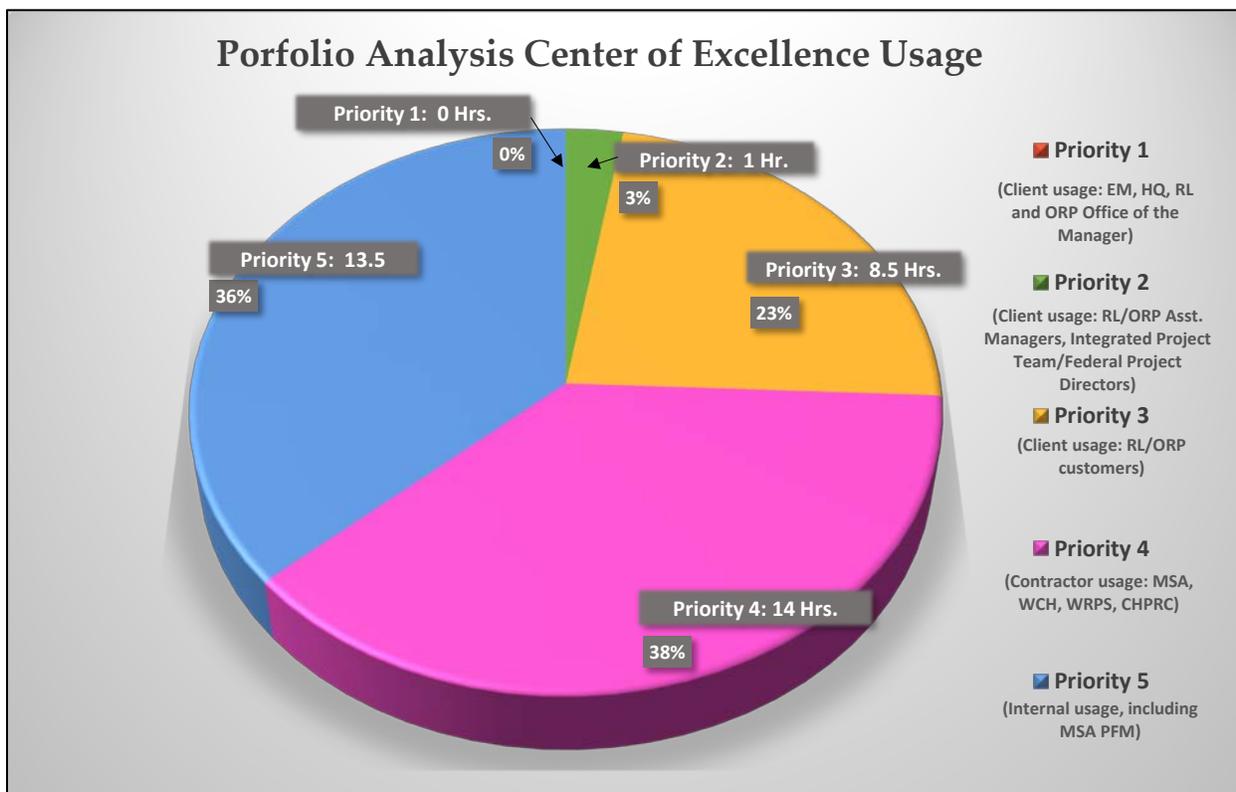
Decision Management – PFM continues to be responsible for administering all actions associated with baseline management through the Hanford Contract Alignment Board (HCAB). Actions completed this period were as follows:

| DSFs* 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 |
|-------------------------|---------------------------|------------------------|--------------------------|----------------------------------|--|--------|
| 0 | 0 | 0 | 0 | 2 | 1 | 1 |

* DSF – Decision Summary Form

** IST - Integrated Support Team

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





LOOK AHEAD

Dashboard Application Migration – PFM formulated a plan to migrate the Dundas⁴ dashboard application and database to new PFM-dedicated servers. The plan was approved by the Production Readiness Review Board on May 30, 2017, and the migration is scheduled for June 7, 2017. The migration will benefit end users and the PFM technical team with increased performance and ease in future updates.

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 May 2017.

⁴ Dundas Data Visualization, Inc. is a company specializing in data visualization and dashboard solutions.



BASELINE PERFORMANCE:

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

| Fund Type | May 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 Hanford | \$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 | \$0.4 | \$0.0 | \$0.1 | \$55.5 | \$55.5 | \$48.2 | \$0.0 | \$7.3 |
| Subtotal | \$0.5 | \$0.5 | \$0.4 | \$0.0 | \$0.1 | \$57.3 | \$57.3 | \$49.8 | \$0.0 | \$7.5 |

ACWP = Actual Cost of Work Performed

CV = Cost Variance

BCWP = Budgeted Cost of Work Performed

CTD = Contract-to-Date

BCWS = Budgeted Cost of Work Scheduled

SV = Schedule Variance

BASELINE PERFORMANCE VARIANCE

Current Month (CM) Cost Variance (CV) (+\$0.1M) – The favorable CM CV for May is within threshold.

Contract-to-Date (CTD) CV (+\$7.5M) – The favorable CTD CV is primarily due to less PFM support required than assumed for integrated planning actions.

MISSION SUPPORT ALLIANCE

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President's Office

W. K. Johnson, President

R. E. Wilkinson, Chief Operations Officer

Monthly Performance Report

May 2017



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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 External Affairs department provides a myriad of communication functions for U.S. Department of Energy (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:

Acquisition Verification Service (AVS) Activities – There were no AVS activities in May:

| May2017 | Current Month | | | Year-to-Date |
|---------------------------|---|---|--------|--------------|
| | CH2M HILL Plateau Remediation Company (CHPRC) | Washington River Protection Solutions, LLC (WRPS) | Others | |
| Re-certifications | | | | 30 |
| Annual Evaluations | | | | 39 |
| Visual Acuity Evaluations | | | | 13 |



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

| May 2017 | Current Month | | | Year-to-Date |
|-----------------------------|---------------|------|--------|--------------|
| | CHPRC | WRPS | Others | |
| Source Inspections | | 3 | | 53 |
| Annual Desk Reviews | | | 3 | 8 |
| Supplier Evaluations/Audits | | 1 | | 14 |
| First Article Inspection | | | | 0 |

EXTERNAL AFFAIRS

Hanford Advisory Board (HAB) Leadership Workshop – MSA assisted in the planning and logistics for the two-day HAB leadership workshop. Additionally, they helped develop the presentations for the key topics for Fiscal Year (FY) 2018 HAB plans.

Hanford Public Involvement Plan (PIP) Update – MSA led the Tri-Party Agreement agency public involvement officers in the latest revision of the Hanford PIP. This is the sixth revision to the plan since it was originally issued. The final draft will be published in June, 2017.

Hanford Site Tours – MSA kicked off the 2017 Hanford Site Cleanup Tours in May, holding tours #1-4, and hosting 69 visitors. The cleanup tours provide members of the public insight into the progress of Hanford's environmental cleanup projects. One of the tours was held the day of the PUREX tunnel collapse, but MSA Communications and External Affairs (C&EA) staff were able to safely terminate the tour before leaving for that area, and those visitors had the opportunity to reschedule their tour for later in the tour season.

In addition to the public tours, MSA coordinated two college course tours (Oregon State University, Nuclear Science and Engineering; and Western Washington University, Environmental Toxicology and Chemistry) and five DOE VIP tours.

Hanford Speakers Bureau Program – In May, 32 Hanford Speakers Bureau presentations were completed by speakers from RL and the DOE Office of River Protection. The presentations were conducted at Rotary clubs, a high school and middle schools in Washington and Idaho. The speakers discussed current cleanup activities, challenges and accomplishments to date.

ENGINEERING

Engineering Staffing Actions – To provide a higher level of engineering support to reduce the backlog of fire systems maintenance activities, staffing actions to fill open



positions were initiated in March 2017, and continued into May with the hiring of a new manager for the Fire Systems Engineering group (start date July 2017).

LOOK AHEAD

New Diesel-Powered Water Pump Skid Procurement – For restoring back-up fire water pumping capability in the 300 Area, the procurement of a new diesel-powered water pump skid was initiated in March 2017, and procurement award was issued in May. Delivery is anticipated in August 2017. Work packages for the demolition of the existing unit and installation of the new unit are being finalized. The detailed schedule is being optimized to see if the demonstration and installation can be achieved prior to October 1, 2017. Engineering has ensured communication of the action plan and path forward to the primary customer, Pacific Northwest National Laboratory (PNNL). PNNL has agreed that MSA's solution will meet requirements.

Interface Meetings with 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, interface meetings with Washington River Protection Solutions LLC (WRPS) and CH2M HILL Plateau Remediation Company (CHPRC) engineering personnel have begun. This work is being performed as a part of Project L-761, *Replace RFAR*. Also as part of Project L-761, a technology re-evaluation study was initiated in March 2017. The study has been engaging all stakeholders and customers to confirm the correct technology section for this project. Meetings with stakeholders and personnel key to path forward decisions are on-going. A briefing to RL decision-makers was conducted during the week of May 22, 2017. MSA project team members are working on path forward actions including presentations and discussion with RL.

Design Services and Project Support – In order to provide dedicated engineering staff in early-stage project development and pre-conceptual design activities, a new engineering group was approved and new positions are being filled. The name of the group is "Design Services and Project Support." The staffing level of this group is expected to be about eight full-time equivalent personnel. Staffing activities are continuing to develop; to date, two engineers have been identified for placement in the group and interviews for the remaining subcontracted positions were completed during May 2017. Subcontracts for selected staff augmentation candidates were initiated during the reporting month with start dates expected in June 2017. Interviews for the group manager were also held, and the offer process for the best qualified candidate has begun. It is expected that the majority of the open positions in the organization will be staffed by the end of June 2017.



MAJOR ISSUES

None to report.

SAFETY PERFORMANCE

In May there were no Occupational Safety and Health Administration (OSHA) Recordable injuries and one First Aid Injuries reported by the President's Office.

BASELINE PERFORMANCE

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

| Fund Type | May 2017 | | | | | Contract-to-Date | | | | |
|--------------------|--------------|--------------|--------------|--------------|--------------|------------------|---------------|---------------|--------------|---------------|
| | BCWS | BCWP | ACWP | SV | CV | BCWS | BCWP | ACWP | SV | CV |
| Site-wide Services | \$0.8 | \$0.8 | \$0.8 | \$0.0 | \$0.0 | \$70.4 | \$70.4 | \$57.3 | \$0.0 | \$13.1 |
| Subtotal | \$0.8 | \$0.8 | \$0.8 | \$0.0 | \$0.0 | \$70.4 | \$70.4 | \$57.3 | \$0.0 | \$13.1 |

ACWP = Actual Cost of Work Performed.

BCWP = Budgeted Cost of Work Performed.

BCWS = Budgeted Cost of Work Scheduled.

CV = Cost Variance.

CTD = Contract-to-Date

SV = Schedule Variance.

BASELINE PERFORMANCE VARIANCE

Current Month (CM) Cost Variance (CV) (\$0.0M) – The May CM CV is within threshold.

Contract-to-Date (CTD) CV (+\$13.1M) – 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.

MISSION SUPPORT ALLIANCE

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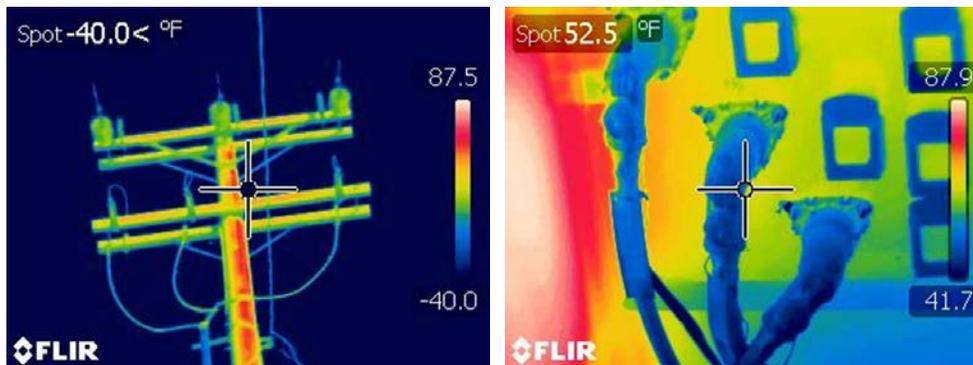


Public Works

Todd Synoground, Vice President

Monthly Performance Report

May 2017



Examples of thermal infrared imaging of Site electrical systems



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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/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.

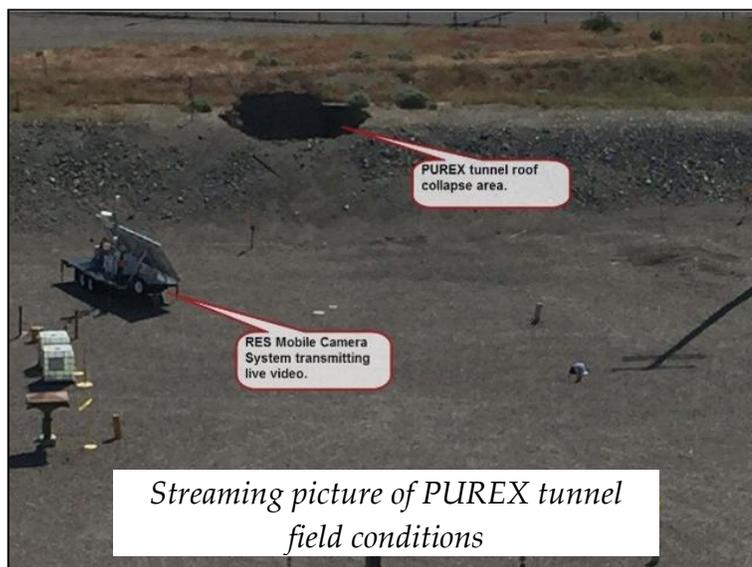
KEY ACCOMPLISHMENTS

Mobile Camera Monitoring System Utilized to View PUREX Tunnel Incident

– One of the Mobile Camera Monitoring System (MCMS) units was positioned south of Plutonium Uranium Extraction Plant (PUREX), providing video surveillance of the Exhaust Stack when the PUREX Tunnel collapsed roof was discovered on May 9, 2017. Once the Emergency Operations Center became aware that an MCMS unit was within

close proximity to the tunnel, access to the live streaming video the MCMS transmits was made available so emergency personnel in the Federal Building had a live video feed of the situation. The MCMS unit continued to provide streaming video of the site, enabling emergency and operational management to observe field conditions from Hanford Local Area Network computers away from the tunnel.

Move Coordination and Scheduling – In the month of May, MSA RES scheduled 204 personnel moves, 52 non-personnel moves, six nationalization pickups, and one excess pickup. The fiscal year (FY) 2017 moves to-date of 2,137 surpasses all of the moves that occurred in FY 2016 by over 200 moves. With five months remaining in FY 2017, MSA Move Coordination and Scheduling is projecting to move twice as many personnel as in FY 2016. RES continues to schedule moves for the relocation of U.S. Department of



Energy (DOE) Richland Operations Office (RL) and CH2M HILL Plateau Remediation Company (CHPRC) personnel. Teamsters, carpenters, and computer technicians are working overtime each week to support these move-out and move-in activities.

Lighting Upgrades Following Engineering Study – MSA Electrical Utilities (EU) made multiple lighting upgrades on the Hanford Site following a recent engineering study and safety concerns that identified numerous areas to change. As an example, EU supported CHPRC by improving the Canister Storage Building parking lot light deficiencies. Specifically, EU replaced 16 low-sodium light fixtures on four poles with energy-efficient light-emitting diode (LED) lights. EU also installed LED flood lights in the 200 East (200E) Area to eliminate the use of a portable light plant. LED lights are brighter, produce less waste, require less maintenance, and operate longer than older lamps. EU continues to engineer solutions for Hanford’s aging lighting systems, improving safety and visibility where required for the Hanford mission.



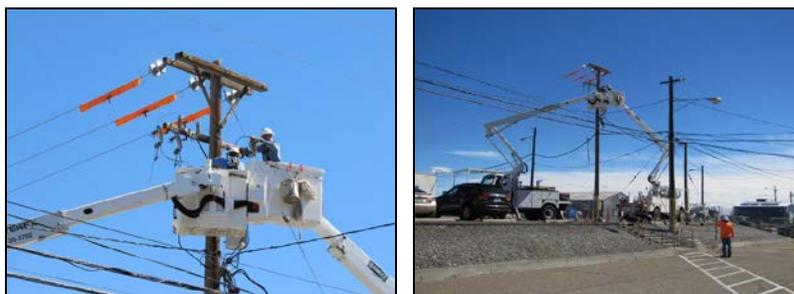
Examples of light fixtures replaced with energy-efficient LEDs

Severe Lightning Strikes Hanford – During the evening of May 4, 2017, a series of lightning strikes caused alarms to go off and a breaker to trip on line 4, feeding the 200 West (200W) Area. Later, EU discovered a lightning strike had damaged a transformer on a pole near the Plutonium Finishing Plant (PFP). During the repairs, EU downsized the equipment and bird-guarded the components. Other system disturbances were recorded at other Area substations as well. EU personnel assessed these findings, but no power losses were revealed. EU is working diligently to protect and maintain Hanford’s electrical infrastructure and environment.



Transformer repaired following lightning strike

EU Continues Enhancing Reliability and Protecting Wildlife – On May 17, 2017, EU provided switching support for CHPRC to perform modifications to Building 272BB near the 200E Waste Encapsulation and Storage Facility. During the outage, EU utilized the downtime to perform bird-guard upgrades. EU’s policy is to continue to enhance reliability by upgrading electrical pole hardware with bird-guard components, possibly the reason no animal outages have occurred this fiscal year. Correspondingly, EU works with MSA’s Ecological Monitoring and Environmental Surveillance to minimize impacts and protect Hanford’s local wildlife.



Electrical poles upgraded with bird-guard components

Alternative Water Hydrant for Filling Water Trucks – MSA Water & Sewer Utilities (W&SU) worked with CHPRC at PFP to identify an alternative water hydrant for filling water trucks. For some time now, a single hydrant has been relied upon to fill multiple water trucks daily for dust suppression during demolition and operation activities. To alleviate demands from the truck filling stations on the potable system, W&SU staff identified a nearby Raw Water hydrant that could be utilized as a truck-filling location. The site is less than half a mile away from PFP, and guarantees a separate, backup source of water.

The potable and raw systems on the Central Plateau are separate systems that rely on their own individual sets of water pumps. W&SU has several projects set for the summer of 2017 that include water outages at the 283-W Water Treatment Facility. Due to these outages, potable water usage will need to be curtailed, which would specifically impact PFP demolition activities. Having a backup truck-filling location on the Raw Water system is an advantage for both PFP and W&SU, because it is necessary for all water users’ needs to be balanced against supply capabilities.

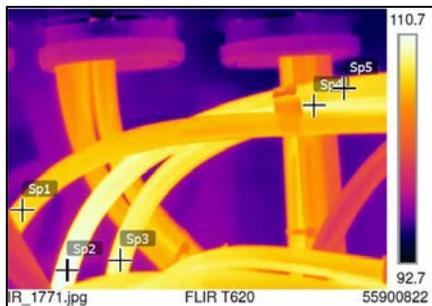


Raw water hydrant used as backup water source

100 Area Cut/Cap Project – W&SU, along with MSA Maintenance Services, resumed work on the 100 Area Cut/Cap project in May. New flanges were installed on the 100D/F/H line, and the 100D export line was re-pressurized to confirm leak-free fittings. Water service was restored to the 100N fire station and to the remaining portion of the export system. The 100D valve pit and 100N excavation were backfilled to complete the scope. Abandoned hydrants were removed and staged for disposal. This critical work scope satisfies a DOE initiative for footprint reduction in the 100 Areas.

Leaking Raw Water Line – On May 3, 2017, a leaking raw water line was discovered below the main level of the 1901-Y Valve House. The leak was estimated at 25 gallons per minute for 30 hours for a total of 45,000 gallons. This was below regulatory threshold value for reporting, and there were no impacts to surrounding Waste Information Data System (WIDS) sites. The following day, valves around the Hanford Site were strategically closed to keep the main raw water line grid in operation and isolate the leak.

Repair of Automatic Transfer Switch Equipment – W&SU, with assistance from



Infrared thermography scan of electrical system

Maintenance Services, performed electrical repairs to the automatic transfer switch (ATS) equipment supplying power to raw water pump #2 in the 200W area. During infrared thermography scanning, hot spots were noted in the electrical equipment. The terminations in the ATS cabinet were re-torqued to ensure proper connections. These predictive maintenance techniques have proven beneficial to identifying problems early, thereby reducing the likelihood of a system failure.

Safety Shower for Tank Work – WRPS needed to utilize a safety shower for a pumping evolution of an underground tank adjacent to U-Plant in West Area. Due to the potential exposure hazard to the workers dealing with the mixed waste emptied from the tank, a safety shower was required to be operational in the direct vicinity of the job. The one available safety shower onsite needed to be flushed and disinfected, and generator established power. W&SU effected a quick turnaround of these activities to ensure the unit was ready to support the pumping evolution within the time requirements.



Safety shower being cleaned and disinfected



LOOK AHEAD

Timeline for Major Hanford Projects – The RES team is working to develop a timeline that lists the major Hanford projects for both RL and the DOE Office of River Protection for the next 50 years. RES met with RL to request the information and identify sources of the data. RES will address initial concerns regarding the level of detail and potential conflicts with the DOE acquisition team activities.

Solid Waste Landfill Interim Cover Repairs – Solid Waste Landfill repairs began on February 22, 2017, for a repair and maintenance project which will include the addition of up to two feet of backfill material and replacement/repair of the perimeter fence line. This project is expected to last through the early summer months of 2017. To date, a total of 556 truckloads, or the equivalent of 5,000 yards of dirt, have been delivered to the landfill. Planning walkdown work and material bids for replacing the fence around the landfill have begun, and a plant force work review was held on May 23, 2017. The inspection for the asbestos portion of the Solid Waste Landfill will be scheduled to assess for compliance with the Air Operating Permit.

MAJOR ISSUES

Nothing to report.

SAFETY PERFORMANCE

During the month of May, there were no Occupational Safety and Health Administration Recordable injuries reported within PW. There was one minor first aid injury reported when an employee stepped off a platform and sprained an ankle.



BASELINE PERFORMANCE

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

| Fund Type | May 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 | \$0.3 | \$0.0 | (\$0.2) | \$19.1 | \$19.1 | \$18.9 | \$0.0 | \$0.2 |
| RL-0044 - B Reactor | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.1 | \$0.0 | (\$0.1) |
| RL-0100 - Richland Comm & Reg Supt | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.3 | \$0.0 | (\$0.3) |
| Site-Wide Services (SWS) | \$2.6 | \$2.6 | \$5.0 | \$0.0 | (\$2.4) | \$275.7 | \$275.7 | \$327.0 | \$0.0 | (\$51.3) |
| Subtotal | \$2.7 | \$2.7 | \$5.3 | \$0.0 | (\$2.6) | \$300.9 | \$300.9 | \$352.6 | \$0.0 | (\$51.7) |

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) (+\$2.6M):

RL-41 CM CV (-\$0.2M) – Unfavorable CM CV are due to B Reactor activities being divergent from the baseline. MSA currently provides more tours than had been planned in the original baseline.

Site Wide Services (SWS) CM CV (-\$2.4M) – Increased staffing levels for maintenance activities were required to keep 3001.04.04 W&SU (-\$1.0M), and 3001.04.03 EU (-\$1.1M) 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 due to divergence from the baseline exist in 3001.02.05 Waste Sampling and Characterization Facility Analytical Services (Readiness to Serve) (+\$0.1M); 3001.04.01 Roads and Grounds (-\$0.4M);

3001.04.10.01 Sanitary Waster Management (-\$0.1M); and 3001.04.14 Land Use Planning (+\$0.1M).

Contract-to-Date (CTD) SV (\$0.0M)

CTD CV (-\$51.7M) Variances exist in RL-40, RL-41, RL-44, and RL-100 that total (-\$0.4M), and are individually below threshold.

SWS CTD CV (-\$51.3M) Variances included:

3001.04.03 EU – EU is significantly divergent from the baseline. The CTD CV (-\$26.4M) 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 Integrated Investment Portfolio (IIP) scope.

3001.04.04 W&SU – W&SU is significantly divergent from the baseline. The CTD CV (-\$35.9M) is principally due to extensive infrastructure repairs and implementation of the Preventive Maintenance Program. Also, staffing levels are currently higher than the baseline due to the maintenance activities required to maintain the water and sewer distribution system. The system has degraded across the site due to age. W&SU is also part of the 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 (+\$4.3M);
- 3001.04.01 Roads & Grounds (+\$1.3M);
- 3001.04.02 Biological Services (-\$0.7M);
- 3001.04.10.01 Sanitary Waste Management and Disposal (+\$0.8M);
- 3001.04.10.02 Laundry Services (-\$0.8M);
- 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 (-\$0.6M);
- 3001.04.14 Land and Facilities Management (+\$6.8M); and
- 3001.06.04 NEPA Natural Gas Pipeline (+\$0.6M).

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Site Services & Interface Management

Brian Von Bargaen, Acting Vice President

Monthly Performance Report

May 2017



Excavator used to fill void in PUREX tunnel



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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 (C&R); Fleet Services; Motor Carrier Services; Maintenance Services; and Project Services. SS&IM's goal is to provide effective and timely services that are centered on customer needs in support of the Hanford environmental cleanup objectives.

KEY ACCOMPLISHMENTS

Support to Plutonium Uranium Extraction Facility (PUREX) Tunnel Event – When a tunnel collapse was discovered at the PUREX facility on May 9, 2017, numerous organizations supported the recovery effort, including MSA C&R. Mobile crane operators put in many hours of excavator operation to back-fill the void that was created. Additionally, a C&R crew was utilized to secure the protective cover with sixty-seven 3500-pound ecology blocks. The ecology blocks were lifted over the tunnel in accordance with a critical lift plan.



Concrete blocks secure protective cover over PUREX tunnel

Reallocation of Equipment to Support Plutonium Finishing Plant (PFP) – PFP demolition crews and MSA Fleet Services personnel identified several concerns with properly servicing equipment in the contamination area (CA) around PFP. The size of the area and contamination levels created delays and labor-intensive situations in getting products and tools to the equipment. Additionally, the tools taken into the CA had to be left in place, resulting in increased expenses. Discussions between the two organizations identified a solution that involved staging a currently-unused lube service trailer with products and tools inside the CA. This solution eliminated carrying items into the zone. Fleet Services workers offered to donate the lubrication service

trailer if PFP would agree to pay for the necessary repairs and cleaning. An agreement was reached, and on May 18, 2017, the trailer was ready for delivery into the CA.



Lube service trailer converted for products/tools storage

Support to Washington River Protection Solutions (WRPS) C-Farm – MSA Support Services coordinated efforts with WRPS C-farm to upgrade the Heating, Ventilation, and Air Conditioning (HVAC) system in the egress tent. The task was walked down, materials ordered, and work steps planned with the intent to install the upgrades before the arrival of hot weather. On May 31, 2017, the Support Services sheet metal crew completed the removal of the outdated units, and installed a new ducted delivery system. This installation was urgent because WRPS employees had stopped work at the C-Farm egress tent due to locally high temperatures.



New HVAC installed in C-Farm egress tent

100 Area Cut and Cap Project – The 100 Area Cut and Cap Project was conducted in May to isolate fire hydrants no longer needed in the 100 Areas of the Hanford site. The service pipelines were fed from the 42-inch export water line from the 182D Facility. Isolation and removal of these systems will reduce maintenance and operation requirements.



Pipelines isolated and cut for removal of unused fire hydrants



LOOK AHEAD

Collaboration Document for MSA Interface Management and Projects – MSA Interface Management, in collaboration with MSA Project Services, drafted a document that defines the roles of both groups in engaging the Other Hanford contractors (OHCs) in the execution of MSA projects. This collaboration was initiated to help streamline the rollout of MSA projects with the OHCs. This document will help establish a path for the MSA project managers to connect with the appropriate OHC technical points of contact for the review of Site Evaluation and Excavation Permit documents. MSA Interface Management and MSA Projects will be meeting to finalize this document and discuss other interface concerns.

PFM Demolition Activities – MSA Interface Management, C&R, Fleet Services, and Motor Carrier Services met with the CH2M HILL Plateau Remediation Company (CHPRC) PFM Deactivation & Decommissioning (D&D) group to discuss future project plans. Beginning the week of May 1, 2017, CHPRC added additional shifts at PFM, including swing and graveyard shift. Phase 1 consisted of only CHPRC staff, but Phase 2 included MSA support services. CHPRC will need MSA's ongoing support at PFM through the end of Fiscal Year (FY) 2017.

MAJOR ISSUES

None to report.

SAFETY PERFORMANCE

During the month of May, there were no Occupational Safety and Health Administration (OSHA) Recordable injury reported within SS&IM. There were three minor first-aid cases reported:

- Chemicals splashed into an employee's eye;
- An employee popped a knee while getting into a vehicle;
- An employee scraped a thumb against a microwave plastic guard.

In addition, there were two non-injury vehicle accidents reported. One incident involved hitting an ecology block, resulting in light damage to a front bumper, and the second accident involved a driver clipping a yield sign while negotiating a turn. No vehicle damage was incurred; however, the sign post was broken.

SITE SERVICES & INTERFACE MANAGEMENT



BASELINE PERFORMANCE

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

| Fund Type | May 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 | \$1.4 | \$1.3 | \$1.3 | (\$0.1) | \$0.0 | \$65.9 | \$64.3 | \$64.0 | (\$1.6) | \$0.3 |
| Site-wide Services | \$0.2 | \$0.2 | \$0.2 | \$0.0 | \$0.0 | \$41.6 | \$41.6 | \$45.2 | \$0.0 | (\$3.6) |
| Subtotal | \$1.6 | \$1.5 | \$1.5 | (\$0.1) | (\$0.0) | \$123.3 | \$121.7 | \$123.6 | (\$1.6) | (\$1.9) |

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 (SWS) 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)

Office of River Protection (ORP)-0014 CM SV (\$0.0M) – The CM SV is within threshold.

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



RL-0040 CM SV (-\$0.1M) – The unfavorable CM SV is due to Project L-859, *Rebuild 1st St. from Canton Ave. to IDF Entrance Rd.*, suspending construction as a result of the PUREX tunnel collapse.

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

Contract-to-Date (CTD) SV (-\$1.6M)

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 (-\$1.6M) – The unfavorable CTD SV is due to Capital Equipment Not Related to Construction (CENRTC) Procurement EC04, *Receive 150-Ton Crane*, being delayed in purchase/delivery until August.

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

CM Cost Variance (CV) (\$0.0M)

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

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

RL-0040 CM CV (\$0.0M) – The CM CV is within threshold.

SWS CM CV (\$0.0M) – The SWS CM CV is within threshold.

CTD CV (-\$1.9M)

ORP-0014 CTD CV (+\$1.7M) – The favorable CTD CV is due to Project L-858, *200E 13.8kV ED Dsgn & Bse Svc Ld Reconfig*, taking advantage of preliminary conceptual design activities completed earlier. High quality conceptual design for an abbreviated version of Definitive & Final Design resulted in 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 fell under the Tank Farms Environmental Impact Statement. Numerous meetings were held last year with ORP and WRPS on this project. Project design, cost estimates, facility roles and responsibilities, and project scope/ schedule, were continually discussed in the course of these meetings. This enabled activities that normally are more labor-intensive to be accomplished quickly and with less cost. In addition, the Construction Subcontractor's bid came back significantly lower than planned (+\$1.2M). Variances for other ORP-14 projects totaling (+\$0.5M) are individually below threshold.

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

RL-0040 CTD CV (+\$0.3M) – The favorable CTD CV is within threshold.



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);
- 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)
- Electrical Utilities System CENRTC (-\$1.0M)

In addition, the following prior year Infrastructure Reliability Projects underran:

- 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-753, *Maintenance Shelters for C&R* (+\$1.1M)
- Hanford Fire Department CENRTC (+\$2.8M).

The following are current project favorable CVs:

- Project L-525, *24in EW Line Replacement - 2901Y to 200E*, and its sister project, L-840, *24in EW Line Replacement 2901Y - 200W*, experienced modest savings for site clearing work due to favorable site conditions and the award of the construction subcontract 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 encountered than was assumed when preparing the initial cost estimate (+\$1.6M each).

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

SWS CTD CV (-\$3.6M) – 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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Training & Conduct of Operations

Steve Metzger, Vice President

Monthly Performance Report

May 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 (CT) 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 (MSC) 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 Maintenance Management program 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 DOE O 430.1B, Chg. 2, *Real Property Asset Management*, and CRD O 430.1b, Chg. 1 (Supplemental Rev. 1). This core value is accomplished by applying availability, reliability and maintainability principles and practices to both the plant upgrade and Operation and Maintenance Program phases of Hanford Infrastructure Assets.

MSA Work Management program incorporates the principles of Integrated Safety Management and Environmental Management (EM) System at the activity level through the development and use of technical work documents.

KEY ACCOMPLISHMENTS

MSA CENTRAL TRAINING

Central Training activities in May included the following:

- Training analysis of four Biological Control job classifications were completed, and the results approved by the Biological Controls Manager. The next step is to evaluate existing training material against procedure requirements and



processes, correct discrepancies, and develop a Training Program Description for the organization.

- The Radiological Assistance Program (RAP) training evaluation and material update is coming to a close. All of the On-the-Job-Training/On-the-Job-Evaluations and the essential Qualification Cards are in their final approval stages. We are currently waiting for final review and approval from the RAP program owners.
- The release of the new Training Reports tool is complete and located on the MSA Central Training web page.
- In response to the MSA Procedures group developing and implementing new procedure formats, MSA Central Training is modifying its in-process procedures, and has-reinitiated the review and approval process. The new format provides a consistent and easy to follow format for users.

MAINTENANCE PROGRAM

Maintenance Management Program Plan – Maintenance Management has completed 40 of 69 milestones associated with Maintenance Management Program Plan, most notable was the ExMax Mobile Pilot. Evaluation of Fire Systems Maintenance (FSM) and Safeguards and Security (SAS) by Engineering concludes that there are no Predictive Maintenance Activities to be implemented at this time for FSM or SAS.

HAMMER ACTIVITIES

Annual DOE Enterprise-Wide Workshop – HAMMER staff, supporting the DOE Training Institute (DTI), participated in the DOE Security Awareness Special Interest Group (SASIG) annual workshop and meetings May 1-4, 2017, at the Argonne National Laboratory in Lemont, Illinois. This workshop supports the promotion of security awareness in the areas of insider threat programs, security briefings, recent security issues, active shooter, nanotechnology, Operations Security, sovereign citizens, security culture and social media. The DOE SASIG workshop and meetings are used for the rapid communication and collaboration of security-related issues, such as updates from DOE Headquarters, requests for assistance from SASIG members, and new policy information. An update on the DTI implementation was also provided.

HAMMER Receives Excellent 2017 Voluntary Protection Program (VPP) First Trimester Results – The HAMMER VPP team recently shared the 2017 first trimester interview results, revealing an excellent overall score. The comprehensive average



increased to a 4.6 from the 4.5 received during the third trimester of 2016. Tenet areas of employee involvement, safety and health training, and hazard control received the highest scores. Employee feedback is being analyzed for areas of continued improvement in reaching the highest standard of safety possible.

University of Washington “Lab Day” – On May 12, 2017, HAMMER supported the University of Washington Lab Day events by offering students a venue for realistic, hands-on experience. The training is an extension of the *Weapons of Mass Destruction (WMD) Development, Deployment, and Detection* course offered at the University of Washington. The subject course is designed to give students a practical understanding of the development of nuclear, biological, and chemical weapons, as well as missile delivery systems. Through hands-on activities and presentations by expert Pacific Northwest National Laboratory (PNNL) instructors, students gained the essential experience and understanding of various types of WMD and the methods used to detect them.

48th Chemical Brigade Training – After hosting approximately 200 soldiers of the 20th Chemical, Biological, Radiological, Nuclear, and Explosives (CBRNE) Command’s 48th Chemical Brigade in April, approximately 50 soldiers of the 48th Chemical Brigade returned to HAMMER May 7-10, 2017, to complete their Radiological training exercise utilizing the Richland Bomb Pit. This training supports the overall mission of the 48th Chemical Brigade to deploy and conduct operations in support of combat commanders or other government agencies to counter CBRNE threats.

Development of Airline Training Course – HAMMER is working with Washington River Protection Solutions to develop a comprehensive Airline Training Course to prepare workers for a possible Airline Field Trial to replace the Self-Contained Breathing Apparatus requirement at the Tank Farms. The training will incorporate several aspects of the work at Tank Farms including radiological control, operations, beryllium, planning, and respiratory protection. A pilot class is scheduled for June 2017.

Kickoff for MSA General Employee Training (MGET) Work Life Lesson – HAMMER held a kickoff meeting for the biennial review/revision of the Work Life lesson in MGET. Subject matter experts for Fitness for Duty, Employee Concerns, the Employee Assistance Program, Procedural Compliance, and Workers’ Compensation were actively involved in the review. Additionally, new training content on workers’ compensation is being added to the lesson to satisfy a requirement in the MSC recently identified by the MSA Legal Department.



HAMMER Hosts WMD Training – On May 23, 2017, PNNL conducted two half-day sessions focused on WMD training. The first session introduced new PNNL support staff to the training areas and props used at HAMMER during WMD/Counter Proliferation training at HAMMER. The second session familiarized United States government clients with PNNL training conducted at HAMMER, specifically nuclear WMD.

81st Stryker Brigade Personnel Conduct HAMMER Campus Tour – On May 23, 2017, HAMMER staff met with three 81st Stryker Brigade representatives to provide a first-hand look at the two sites on the HAMMER campus where they will conduct the upcoming supply and fuel transfer with another Washington National Guard unit in June. Through their continued partnership with HAMMER, the National Guard can obtain required training and support areas needed to complete their ongoing training mission to ensure the success of any future deployment at home and abroad.

LOOK AHEAD

HAMMER Construction Projects Update – HAMMER recently conducted modifications to the sprinkler and Heating, Ventilation, and Air Conditioning systems as part of the Al Alm Building locker room conversion project. Crews worked on carpet and ceiling installation, as well as punch list items. HAMMER staff members are expected to take occupancy of the new offices by June 1, 2017.

“Take Your Daughters and Sons to Work Day” – HAMMER staff are preparing to host “Take Your Daughters and Sons to Work Day” for the DOE Richland Operations Office (RL) and Office of River Protection staff on June 28, 2017. The day will include engaging activities and demonstrations suitable for young audiences.

MAJOR ISSUES

None to report.

SAFETY PERFORMANCE

There was one Occupational Safety and Health Administration (OSHA) injury case reported by T&CO during May. Classified as a “body motion” injury, an employee’s knee “popped” while transitioning from kneeling to a standing position.



BASELINE PERFORMANCE

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

| Fund Type | May 2017 | | | | | Contract to Date | | | | |
|---|--------------|--------------|--------------|--------------|----------------|------------------|---------------|---------------|--------------|-----------------|
| | BCWS | BCWP | ACWP | SV | CV | BCWS | BCWP | ACWP | SV | CV |
| RL-0040 - Nuc. Fac. D&D - Remainder Hanford | \$0.3 | \$0.3 | \$0.9 | \$0.0 | (\$0.6) | \$46.6 | \$46.6 | \$59.0 | \$0.0 | (\$12.4) |
| Site-Wide Services | \$0.3 | \$0.3 | \$0.3 | \$0.0 | \$0.0 | \$18.5 | \$18.5 | \$21.9 | \$0.0 | (\$3.4) |
| Subtotal | \$0.6 | \$0.6 | \$1.2 | \$0.0 | (\$0.6) | \$65.1 | \$65.1 | \$80.9 | \$0.0 | (\$15.8) |

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) (-\$0.6M)

RL-40 – Current Month (CM) Cost Variance (CV) (-\$0.6M) – The unfavorable CM CV is primarily due to the detail listed in the Contract to Date (CTD) CV explanation. The assumption that less 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.

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

Contract-to-Date (CTD) CV (-\$15.8M)

RL-40 – CTD CV (-\$12.4M) – The unfavorable CTD CV is largely 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 IIP scope. No other potential contributing performance issues are currently identified.



SWS – CTD CV (-\$3.4M) – 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 IIP scope.