

MISSION SUPPORT ALLIANCE

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



Monthly Performance Report

March 2020

R. E. Wilkinson
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

A&E	Architecture and Engineering
ALARA	As Low as Reasonably Achievable
AMB	Assistant Manager for Business and Financial Operations
AMMS	Assistant Manager for Mission Support
AMRP	Assistant Manager for River and Plateau
AMSE	Assistant Manager for Safety and Environment
ATP	Acceptable Test Procedures
BCR	Baseline Change Request
BPA	Bonneville Power Administration
BIO	Business Integration & Operations
CAS	Contractor Assurance Systems
CHRP	Cultural and Historic Resource Program
CHPRC	CH2MHILL Plateau Remediation Company
CTD	Cost-to-Date
CV	Cost Variance
DART	Days Away Restricted Transferred
DLA	Direct Labor Adder
DOE	U.S. Department of Energy
ECOLOGY	State of Washington, Department of Ecology
EIS	Environmental Integration Services
EM	Office of Environmental Management
EMP	Enhanced Maintenance Program
EOC	Emergency Operations Center
ERDF	Environmental Restoration Disposal Facility
ES	Emergency Services
ESH&Q	Environment, Safety, Health, and Quality
EU	Electrical Utilities
FY	Fiscal Year
FYTD	Fiscal Year to Date
GIS	Geographic Information System
GFS/I	Government-Furnished Services and Information
HAMMER	Volpentest Hazardous Materials Management and Emergency Response Training and Education Center

ACRONYMS LISTING



HCAB	Hanford Contract Alignment Board
HLAN	Hanford Local Area Network
HMAPS	Hanford Maps
HQ	Headquarters
HR	Human Resources
HRIP	Hanford Radiological Instrumentation Program
HSPD	Homeland Security Presidential Directive
ICWO	Inter-Contractor Work Order
IH	Industrial Hygiene
IM	Information Management
IIP	Integrated Investment Portfolio
IPT	Integrated Project Team
ISAP	Infrastructure and Services Alignment Plan
ISMS	Integrated Safety Management System
IT	Information Technology
LLTO	Lower Level Task Order
MOA	Memorandum of Agreement
MSA	Mission Support Alliance, LLC
MSC	Mission Support Contract
NEPA	National Environmental Policy Act
NOC	Network Operations Center
OCCB	Operational Change Control Board
OTP	Operational Test Procedures
ORP	Office of River Protection
OSHA	Occupational Safety and Health Administration
PFM	Portfolio Management
PFP	Plutonium Finishing Plant
PMB	Performance Measurement Baseline
PMTO	Portfolio Management Task Order
PNNL	Pacific Northwest National Laboratory
PO	Presidents Office
POSP	Parent Organization Support Plan
PPE	Personal Protection Equipment
PTA	Patrol Training Academy
PRC	Plateau Remediation Company
PW	Public Works
RES	Real Estate Services

ACRONYMS LISTING



RFS	Request for Service
RMB	Risk Management Board
ROD	Record of Decision
RHP	Risk Handling Plan
RL	Richland Operations Office
RPIP	Reliability Project Investment Portfolio
SAS	Safeguards & Security
SNM	Spent Nuclear Material
SS&IM	Site Services and Interface Management
SV	Scheduled Variance
T&CO	Training and Conduct of Operations
TRC	Total Recordable Case
UBS	Usage-Based Services
VAC	Variance at Completion
VoIP	Voice over Internet Protocol
VPP	Voluntary Protection Program
WBS	Work Breakdown Structure
WRPS	Washington River Protection Solutions, LLC



1.0 INTRODUCTION

The Executive Overview section is intended to provide an executive-level performance overview. Included herein are descriptions of the Mission Support Alliance, LLC (MSA) significant accomplishments considered to have made the greatest contribution toward safe, environmentally sound, and cost-effective, mission-oriented services; progress against the Mission Support Contract with the 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 March 2020.

1.1 KEY ACCOMPLISHMENTS

MSA Coronavirus (COVID-19) Response – The Hanford Site moved to an essential mission-critical operations posture on March 24, 2020. The essential mission-critical operations status meant that ongoing projects at the Site would be evaluated through a revised hazards safety analysis to determine which of them should and could safely continue based on need. Operations would be prioritized by national security, the protection of the public, workforce, and the environment, and addressing regulatory requirements.

In response to the COVID-19 pandemic, and in support of the ensuing DOE directives for keeping the Hanford Site safe and secure. As noted below, MSA has taken numerous steps to maintain essential mission critical operations:

- **Emergency Medical Services (EMS) COVID-19 Response Protocol** – The Hanford Fire Department (HFD) implemented updated Benton-Franklin Health Department Emergency Medical Services (EMS) response protocols that assist EMS personnel in the potential identification of a patient who may have COVID-19 and provide guidance for personal protective equipment (PPE) inventory and replacement, and infection control. The HFD also implemented additional social distancing actions including restricted access to dispatch and decontamination, and cleaning methods for apparatus and station protocols.
- **Telecommuting Support** – MSA’s Information Management (IM) team hosted five Information Technology Fairs to help prepare DOE and other Hanford contractors for telecommuting in the wake of the COVID-19 pandemic. Instructions were given and demos were provided to help users on the best-suited route of telecommuting based on the setup they have both at home and at work. Users brought in their work-provided devices for patching and/or re-imaging, and remote software installations. Other users brought in their personal devices, some brand new in the box, and even a few full desktop

computer setups (tower, monitor, etc.) for assistance with remote work setup. *Microsoft Teams*¹ software training was also provided to show users the benefits to using the platform as a collaboration tool. In total, the team of roughly 45 IM employees helped nearly 800 Hanford site employees over the course of one week.

- **Infrastructure Expanded to Support Telework** – Prompted by the essential mission critical operations directive, MSA Network & Computing Services staff expanded the infrastructure to support additional telecommuters. These efforts included adding eight physical servers for Virtual Desktop Infrastructure (VDI), expanding VDI virtual servers, building the NetMotion² infrastructure and pushing the Thin Client platform to all laptops. Hanford Local Area Network (HLAN) usage peaked in March, with 3,444 unique remote VDI users, 915 NetMotion users and 65 DirectAccess³ users for 4,424 remote access connections.
- **COVID-19 Facility Sanitization** – In response to requirements as imposed due to the COVID-19 pandemic, MSA Custodial Services developed and implemented a cleaning and sanitization process to ensure the health and safety of the Hanford Site workforce. As the site transitioned into an essential services posture and most employees were sent home, the janitorial crew did just the opposite and took on a new role as essential personnel. During the last two weeks of March, MSA Janitors sanitized, and cleared for occupancy, fifteen facilities that had been isolated due to employees being tested for COVID-19. Additionally, nearly thirty temporary janitors were hired in March in anticipation of increased cleaning and sanitization requests once the site returns to normal operations.



Custodial Services prepares for cleaning and sanitization work

¹ Microsoft Teams, a product of Microsoft Corporation, Redmond, WA, is a communication software that enables workplace chatting and video meetings. .

² NetMotion is a network traffic optimization software, produced by NetMotion Software, Seattle WA.

³ Direct Access, a product of Microsoft Corporation, Redmond, WA, is a software that provides intranet connectivity.



- **HAMMER COVID-19 Virus Response** – In response to the COVID-19 virus, the Volpentest HAMMER Federal Training Center (HAMMER) made several adjustments out of an abundance of caution to minimize impacts. Precautions included a significant increase in custodial services, additional hand sanitizing stations and wipes, the use of personal protective equipment, and re-enforcing all training areas to provide social distancing. HAMMER also reevaluated how business is to be conducted across the campus, as well as travel for the National Programs organization. Training at HAMMER was canceled temporarily. Additionally, many meetings and events were canceled, including the HAMMER Steering Committee meeting, subcommittee meetings, and the Fire Ops 101 training event.
- **Impacts to Tri-Party Agreement Milestones** – Acting on a request from DOE Office of Chief Counsel, MSA Environmental Integration Services (EIS) drafted correspondence for DOE to send to the Tri-Party Agreement (TPA) agencies in anticipation of impacts to TPA milestones stemming from the global pandemic caused by the Coronavirus. The letter informed the agencies that DOE would invoke “force majeure” if any milestones were impacted due to site closures, staffing or funding shortages or any other scenario brought on by the virus. The letter also offered the use of email as a temporary measure for approving TPA documents.
- **Timecard Process Developed** – The MSA Information Systems team developed an automated process to fill out and submit timecards for employees on the Hanford site that are not able to be at work due to COVID-19.

During March, COVID-19 preparations notwithstanding, and prior to Hanford moving to the essential mission critical operations posture, significant work onsite as noted below was also accomplished.

New DFLAW Dashboard Created – MSA Software Engineering Services staff successfully deployed Version 1.1 of Direct Feed Low Activity Waste Dashboard (DFLAW) on March 4, 2020, which is used Site wide to provide a front-end interface for input and reporting of overall health and statistics. The new version included changes to the system’s background image, consolidation of several project drill-downs, and an update to the behavior of global-level milestones with image uploads.

Prescribed Burn Activities – The Hanford Fire Department Fuels Management Group conducted 5,070 cubic yards of prescribed burn activities during the month of March.



Hanford Fire Department prescribed burn actions in progress

DOE Key Performance Goal Dashboards – The DOE Key Performance Goal (KPG) 2020 Dashboards were released to production on March 11, 2020. The scope expanded from the original dashboard to include a DOE Office of River Protection (ORP) metrics dashboard and a DOE-RL metrics dashboard, both of which roll up to a One Hanford Site dashboard. The purpose of this dashboard suite is to provide the DOE-RL and DOE-ORP organizations, including Senior Management, the ability to quickly access status and risk across all of the current year’s KPGs.

Sanitary Water Line Leak by 274WA – On March 16, 2020, MSA Water and Sewer Utilities personnel notified the MSA Environmental Single-Point-of-Contact (ESPOC) of a sanitary water line leak in the 200 East Area. The cause of the failure was a broken male adapter on the 2-inch water line. An estimated 2,225 gallons of water were released to the ground. The sanitary water line was secured on Monday, March 16, 2020, and repairs were completed on Tuesday, March 17, 2020. Appropriate notifications were made to the State of Washington, Department of Ecology-Yakima Central Regional Office and the Nuclear Waste Program Office. A draft 30-day noncompliance report was issued on March 19, 2020.



Water leak in sanitary water line

New Discharge Location for Potable Waterline Flushing – MSA Long-Term Stewardship (LTS) staff, in collaboration with MSA Engineering personnel, are assisting Pacific Northwest National Laboratory (PNNL) workers with their plans to establish a new discharge location for potable waterline flushing in the 300 Area. Pipeline flushing discharges are currently directed to a small storm water runoff basin. A larger and

more appropriately sized basin has been located. Continued routine flushing is necessary at this time in order to meet drinking water standards.

Tumbleweed Removal Efforts – During March, MSA Biological Controls staff continued to support essential functions while facilities are in Minimum Safe mode. For example, the 6608 Sewer Lagoon Perimeter Fence is an effective tool to prevent tumbleweeds from entering the basins before the filtration equipment becomes plugged. During the last few months, the fence and surrounding exterior had become saturated and required extensive buck raking to eliminate ramping into the basins. While crews stabilize the exterior, hand removal on the interior eliminated further vegetation.

New Ladder Truck – During March, after performing the necessary in-service inspections, MSA Fleet Services staff spent several days installing the equipment necessary to make the newest addition to the Hanford Fire Department fleet operational. All tools, equipment, spare valves and fittings now have a secure location, which not only ensures the items stay affixed, but also makes it easier for the firefighters to verify that all the equipment is on-board and not left on the scene or at the station.



Storage locations installed in ladder truck

K-Basin Material Control and Accountability Termination Documentation – In March, MSA Safeguards and Security (SAS) personnel submitted HNF-64597, *"Nuclear Material Content of K East Basin Sludge and K West Basin Sludge Nuclear Material Measurement and Measurement Control Program,"* to support final termination of materials from Material Control and Accountability requirements at K Basins. This document captures information on the Measurement Control programs for the K Basin sludge, and will allow the cancelation of a local deviation to the current DOE Material Control and Accountability order.

Virtual Tabletop Exercise – On March 31, 2020, MSA Cybersecurity staff, along with personnel from Records Management, Legal, Communications and the DOE customer,



joined together for a virtual Personal Identifiable Information/Personal Health Information (PII/PHI) table top exercise. This exercise was to create a resource that documents the staff, communications, and flow of information when a PII or PHI data breach occurs on the Hanford site. The lessons and results from this effort will be documented and follow-up actions will be reviewed and worked. Examples of ideas stemming from the exercise included adding alerts into the Integrated Document Management System (IDMS) system, and integrating personnel from the Legal department earlier in the process.

Email Records Retained Meeting Federal Requirements – The Department of Energy has adopted the Capstone Approach to meet Federal email records management requirements. MSA Information Management staff are leveraging the new capabilities of Office 365/Exchange⁴, which provides automatic archiving of email records to preserve them without any user action. The implementation of the Capstone Approach does not require any action by users, and allows them to work in their current mailbox unchanged. The retention policy will automatically be applied in the background for a seamless transition.

Site Tours – MSA External Affairs personnel planned and implemented Hanford Site tours for two DOE visitor groups in early March: for the DOE Low-Level Waste Disposal Federal Review Group; and for the UK Nuclear Decommissioning Authority Chief Executive Officer and his staff. Tour activities included ordering transportation; facilitating visitor badging (including working with the DOE Foreign Nationals and Assignments Office for the foreign national visitors); developing and distributing tour agendas; providing visitor information; and securing facility tour briefers. MSA also assisted with coordinating DOE and contractor management project overviews for the visitors prior to their site tour.

⁴ Office 365/Exchange is a line of subscription services offered by Microsoft Corporation, headquartered in Redmond, WA



1.2 LOOK AHEAD

Continued Coronavirus (COVID-19) Pandemic Support – As the evolving situation with COVID-19 affects members of the Site in several ways, MSA has committed to constant and transparent communication with all employees to help them stay informed and more importantly, stay safe and healthy. MSA will continue to work with Washington State Benton-Franklin Health District (BFHD) medical officials, and monitor Centers for Disease Control and Prevention (CDC) updates, checking webpages frequently for new information.

Local Area Network for Emergency Services Project – MSA Information Management is currently configuring the network switches, servers, and storage infrastructure in the Lab for the Emergency Services (ES) Local Area Network (LAN) Project. The ES-LAN project brings the latest technology to the Emergency Services organizations and provides an infrastructure for all of their modernization projects. Phase one of the installation is scheduled to begin in April 2020, and continue through September 2020. Phase one will install the core infrastructure components at two telecommunications nodes, while phase two will conclude with the installation of switches for the new meteorological tower project in early FY 2021.

Password Complexity Revamp – Current Hanford Local Area Network (HLAN) password requirements are not in compliance with the National Institute of Standards and Technology (NIST) standard, released December 31, 2017. The Password Complexity Revamp Project will bring HLAN and its affected users, software, and programs into NIST compliance by using passphrases instead of passwords. Using passphrases will eliminate half-yearly password change requirements, and remove requirements for using symbols and numbers. This project began in February 2020 and has an estimated six-month duration.

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-14	ORP – Reliability Projects	\$154.8	\$154.8	\$110.2	\$44.6
RL-0020	Safeguards & Security	\$91,005.3	\$50,641.3	\$40,178.5	\$10,462.8
RL-0040	GSI and Spares Inventory	\$1,708.5	\$1,708.5	\$78.2	\$1,630.3
RL-0201	Reliability Projects, HAMMER, B-Reactor	\$98,707.9	\$47,463.5	\$22,538.9	\$24,924.6
SWS	Site-Wide Services	\$229,296.7	\$124,130.2	\$102,689.4	\$21,440.8
Total		\$420,873.2	\$224,098.3	\$165,595.2	\$58,503.1

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 883, dated March 24, 2020.

Based upon FY20 forecast the remaining uncosted balance will fund SWS through April 23, 2020 and RL-20 through May 6, 2020.



3.0 SAFETY PERFORMANCE

During the month of March, there were no reported incidents classified as a “Recordable” injury. Therefore, the fiscal year 2020 total recordable case (TRC) rate measures 0.46 and the Days Away Restricted or Transferred (DART) rate is 0.37. Both rates are below the DOE performance measurement baseline of 1.1 and 0.60, respectively. One First Aid case was recorded, which is below the average for a given month. MSA will continue to closely monitor First Aid cases to determine emerging trends and implement awareness activities, as warranted.

MSA continues to be responsive to the COVID-19 pandemic and has implemented controls to protect employees. Many workers continue to perform work assignments while the Hanford Site operates in mission essential mode. Mission critical work assignments were analyzed using the criteria set forth by the Benton Franklin Health District guidelines for COVID-19, and work controls were implemented and communicated to the workers. MSA increased the frequency of communications through available resources to ensure that employees continue to be informed of the latest status of the Hanford Site, including access to buildings and work areas.



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

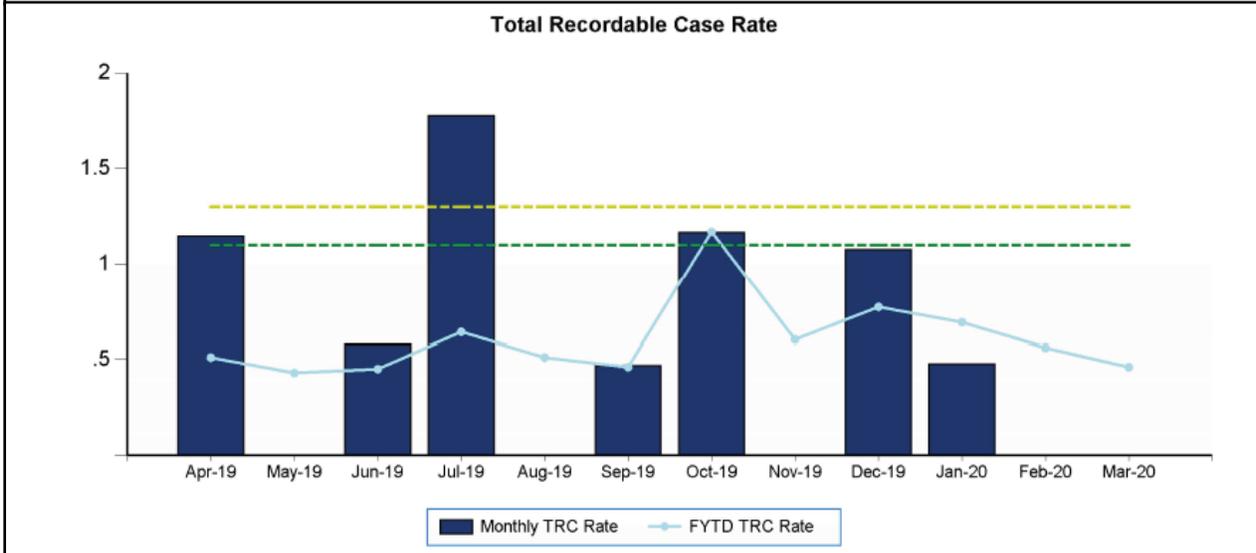
FYTD TRC Rate (Green)
Monthly TRC Rate (Green)

Definition

Monitor the Total Recordable Case (TRC) rate for MSA employees and subcontractors (Note: Does not include independent subcontractors). The TRC is measured in accordance with OSHA guidelines for calculating and reporting. The rate is calculated by multiplying the number of Recordable cases by 200,000 and dividing by the total number of work hours.

Goals

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.
Monthly TRC Rate (Effective: 10/01/2017): Green <= 1.1, Yellow < 1.3, Red >= 1.3
FYTD TRC Rate (Effective: 10/01/2017): Green <= 1.1, Yellow < 1.3, Red >= 1.3
CYTD TRC Rate (Effective: 10/01/2017): Green <= 1.1, Yellow < 1.3, Red >= 1.3



Field	2019-04	2019-05	2019-06	2019-07	2019-08	2019-09	2019-10	2019-11	2019-12	2020-01	2020-02	2020-03
Monthly TRC Rate	1.15	0	58	1.78	0	.47	1.17	0	1.08	.48	0	0
FYTD TRC Rate	51	43	45	.64	.51	.46	1.17	.6	.77	.69	.56	.46
CYTD TRC Rate	59	45	47	.79	.55	.48	.59	.55	.59	.48	.26	.18
Monthly Recordable Cases	2	0	1	3	0	1	2	0	2	1	0	0

Analysis

During the month of March, there were no reported incidents that classified as a "Recordable" injury. FYTD, MSA has experienced 5 OSHA Recordable injuries, corresponding to a TRC rate of 0.46.

- Types of injuries MSA has experienced during FY2020 that classified as Recordable:
 - overexertion (2), body motion (2), struck against (1)
- Body parts that have been affected in FY2020:
 - back (1), arm (1), neck (1), elbow (1), knee (1)

Note: FY2019 Recordable Cases: 11 (TRC = 0.46)

Action Plan

Injury Prevention Actions:

- Revised MSC-OTHER-SP-1200369, MSA General Hazard Analysis, to incorporate the hazard and controls for the COVID-19 pandemic
- Issued several senior leadership communications focused on social distancing and personal hygiene protocols
- Implemented expanded telecommuting policy for MSA personnel
- Highlighted the following 24/7 safety topics at back to work meetings for all employees: 1) hierarchy of controls; 2) safety and daylight savings time; 3) eye protection; 4) importance of conducting emergency drills; and, 5) ladder safety.

Notes

Quality check of CAIRS information for March has been performed



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

Fiscal Year DART Rate (Green)																																																																		
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<p style="text-align: center;">Days Away, Restricted or Transferred Case Rate</p>																																																																		
<table border="1"> <thead> <tr> <th>Field</th> <th>2019-04</th> <th>2019-05</th> <th>2019-06</th> <th>2019-07</th> <th>2019-08</th> <th>2019-09</th> <th>2019-10</th> <th>2019-11</th> <th>2019-12</th> <th>2020-01</th> <th>2020-02</th> <th>2020-03</th> </tr> </thead> <tbody> <tr> <td>Monthly DART Rate</td> <td>1.15</td> <td>0</td> <td>.58</td> <td>.59</td> <td>0</td> <td>.47</td> <td>1.17</td> <td>0</td> <td>.54</td> <td>.48</td> <td>0</td> <td>0</td> </tr> <tr> <td>Fiscal Year DART Rate</td> <td>.42</td> <td>.36</td> <td>.39</td> <td>.45</td> <td>.36</td> <td>.37</td> <td>1.17</td> <td>.6</td> <td>.58</td> <td>.55</td> <td>.45</td> <td>.37</td> </tr> <tr> <td>Calendar Year DART Rate</td> <td>.59</td> <td>.45</td> <td>.47</td> <td>.49</td> <td>.41</td> <td>.42</td> <td>.49</td> <td>.45</td> <td>.46</td> <td>.48</td> <td>.26</td> <td>.18</td> </tr> <tr> <td>Monthly DART Cases</td> <td>2</td> <td>0</td> <td>1</td> <td>1</td> <td>0</td> <td>1</td> <td>2</td> <td>0</td> <td>1</td> <td>1</td> <td>0</td> <td>0</td> </tr> </tbody> </table>		Field	2019-04	2019-05	2019-06	2019-07	2019-08	2019-09	2019-10	2019-11	2019-12	2020-01	2020-02	2020-03	Monthly DART Rate	1.15	0	.58	.59	0	.47	1.17	0	.54	.48	0	0	Fiscal Year DART Rate	.42	.36	.39	.45	.36	.37	1.17	.6	.58	.55	.45	.37	Calendar Year DART Rate	.59	.45	.47	.49	.41	.42	.49	.45	.46	.48	.26	.18	Monthly DART Cases	2	0	1	1	0	1	2	0	1	1	0	0
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Table 3-3. First-Aid Case Rate

Definition												
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. 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.												
Goals												
The goal is to "do work safely" and achieve target zero by reducing injuries, accidents and incidents while encouraging reporting of all minor injuries.												
First Aid Cases												
Field	2019-04	2019-05	2019-06	2019-07	2019-08	2019-09	2019-10	2019-11	2019-12	2020-01	2020-02	2020-03
First Aid Cases	8	8	3	11	3	8	13	6	6	9	3	1
Monthly First Aid Rate	4.58	4.04	1.75	6.53	1.23	3.74	7.59	3.76	3.24	4.34	1.75	.55
Performance (12 month average)	4.26	4.19	4.13	4.12	3.96	4.04	4.19	4.09	3.78	3.92	3.64	3.52
Analysis												
During the month of March, MSA had one First Aid case that was caused by overexertion.												
In FY 2020, struck against object and overexertion have contributed to the majority of First Aid incidents. Other categories include the following:												
<ul style="list-style-type: none"> • 25% struck against object; 23% overexertion; 10% body motion; 10% slip/trip/fall; 8% contact animal, insect; 5% struck by object; 5% contact foreign body; 5% awkward position; 5% repeat motion/cum trauma; and, 4% unknown cause • 18% arm/wrist; 18% hand/finger; 16% back; 14% knee; 12% head/neck/eye; 8% leg; 6% foot/ankle; 4% shoulder; and, 2% torso 												
Note: FY2019 First Aid Cases: 88 (Rate = 4.04)												
Action Plan												
Injury Prevention Actions:												
<ul style="list-style-type: none"> • Revised MSC-OTHER-SP-1200369, MSA General Hazard Analysis, to incorporate the hazard and controls for the COVID-19 pandemic • Issued several senior leadership communications focused on social distancing and personal hygiene protocols • Implemented expanded telecommuting policy for MSA personnel • Highlighted the following 24/7 safety topics at back to work meetings for all employees: 1) hierarchy of controls; 2) safety and daylight savings time; 3) eye protection; 4) importance of conducting emergency drills; and, 5) ladder safety. 												
Notes												
Non-reportable precursors are a leading indicator to reportable events. An increase in the number of First Aid cases could indicate a potential increase of more significant events. MSA typically averages around 7 First Aid cases in a given month.												



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

5.0 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 a. Name Mission Support Alliance		2. Contract a. Name Mission Support Contract		3. Program a. Name Mission Support Contract			4. Report Period a. From (2020/02/24)								
b. Location (Address and Zip Code) Richland, WA 99352		b. Number RL14728		b. Phase Operations			b. To (2020/03/22)								
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	\$4,364,227	\$0	\$237,747	\$4,601,974	\$4,526,626	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) Wilkinson, Robert E		b. TITLE MSC Project Manager							
a. BEST CASE		\$4,364,227				c. SIGNATURE <i>[Signature]</i>		d. DATE SIGNED 4/22/2020							
b. WORST CASE		\$4,503,323													
c. MOST LIKELY		\$4,288,879		4,364,227		75,348									
8. PERFORMANCE DATA															
Item (1)	Current Period			Variance		Cumulative to Date					At Completion				
	Work Scheduled (2)	Work Performed (3)	Actual Cost Work Performed (4)	Schedule (5)	Cost (6)	Work Scheduled (7)	Work Performed (8)	Actual Cost Work Performed (9)	Schedule (10)	Cost (11)	Budgeted (12)	Estimated (13)	Variance (14)		
a. WORK BREAKDOWN STRUCTURE ELEMENT															
3001.01.01 - Safeguards and Security	5,874	5,874	5,248	0	626	651,229	651,229	643,383	0	7,846	663,933	654,983	8,950		
3001.01.02 - Fire and Emergency Response	3,127	3,127	2,830	0	297	286,935	286,935	287,136	0	(201)	293,952	294,360	(408)		
3001.01.03 - Emergency Management	370	370	349	0	21	47,581	47,581	47,416	0	165	48,415	48,217	198		
3001.01.04 - HAMMER	863	863	1,070	0	(207)	81,119	81,119	77,791	0	3,328	82,945	79,260	3,685		
3001.01.05 - Emergency Services Management	164	164	139	0	25	17,300	17,300	17,146	0	154	17,646	17,438	208		
3001.02.01 - Site-Wide Safety Standards	120	120	101	0	19	9,304	9,304	10,152	0	(847)	9,579	10,378	(799)		
3001.02.02 - Environmental Integration	291	291	295	0	(3)	59,030	59,030	57,791	0	1,238	59,678	58,434	1,244		
3001.02.03 - Public Safety & Resource Protection	991	991	749	0	242	79,711	79,711	78,066	0	1,646	81,907	80,243	1,664		
3001.02.04 - Radiological Site Services	0	0	0	0	0	5,242	5,242	5,129	0	113	5,242	5,129	113		
3001.02.05 - WSCF Analytical Services	0	0	0	0	0	50,438	50,438	50,457	0	(19)	50,438	50,457	(19)		
3001.03.01 - IM Project Planning & Controls	111	111	116	0	(5)	34,161	34,161	33,404	0	756	34,407	33,644	763		
3001.03.02 - Information Systems	726	726	520	0	205	125,743	125,743	123,884	0	1,858	127,102	126,617	485		
3001.03.03 - Infrastructure / Cyber Security	669	669	567	0	102	51,415	51,415	49,937	0	1,478	52,832	52,108	724		
3001.03.04 - Content & Records Management	542	542	445	0	97	73,609	73,609	72,904	0	705	74,684	73,982	702		
3001.03.05 - IR/CM Management	146	146	148	0	(2)	16,076	16,076	16,158	0	(82)	16,400	16,652	(252)		
3001.03.06 - Information Support Services	138	138	138	0	0	15,592	15,592	15,633	0	(41)	15,897	15,946	(49)		
3001.04.01 - Roads and Grounds Services	452	452	253	0	198	35,070	35,070	35,740	0	(670)	36,186	37,156	(970)		
3001.04.02 - Biological Services	308	308	398	0	(90)	40,743	40,743	40,542	0	201	41,432	41,203	228		
3001.04.03 - Electrical Services	1,466	1,466	1,226	0	240	134,214	134,214	133,860	0	354	137,518	136,363	1,155		
3001.04.04 - Water/Sewer Services	1,580	1,580	1,459	0	121	143,236	143,236	142,145	0	1,091	146,708	145,165	1,543		
3001.04.05 - Facility Services	0	0	0	0	0	7,900	7,900	7,900	0	(0)	7,900	7,900	(0)		
3001.04.06 - Transportation	30	30	34	0	(4)	10,982	10,982	10,935	0	47	11,048	10,977	71		



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 a. Name Mission Support Alliance b. Location (Address and Zip Code) Richland, WA 99352		2. Contract a. Name Mission Support Contract b. Number RL14728 c. TYPE CPAF			3. Program a. Name Mission Support Contract b. Phase Operations c. EVMS ACCEPTANCE No X Yes			4. Report Period a. From (2020/02/24) b. To (2020/03/22)					d. Share Ratio			
Item (1)	Current Period					Cumulative to Date					At Completion					
	Work Scheduled (2)	Work Performed (3)	Actual Cost Work Performed (4)	Variance Schedule (5) Cost (6)		Work Scheduled (7)	Work Performed (8)	Actual Cost Work Performed (9)	Variance Schedule (10) Cost (11)		Budgeted (12)	Estimated (13)	Variance (14)			
a. WORK BREAKDOWN STRUCTURE ELEMENT (Cont'd)																
3001.04.07 - Fleet Services	0	0	0	0	0	7,322	7,322	7,322	0	(0)	7,322	7,322	(0)			
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	9	9	3	0	5	766	766	679	0	87	785	694	90			
3001.04.10 - Technical Services	452	452	505	0	(53)	53,288	53,288	54,695	0	(1,407)	54,427	55,713	(1,286)			
3001.04.11 - Energy Management	119	119	116	0	3	13,134	13,134	12,715	0	419	13,398	13,011	387			
3001.04.12 - Hanford Historic Buildings Preservation	280	280	206	0	74	27,309	27,309	26,110	0	1,199	27,741	26,449	1,292			
3001.04.13 - Work Management	219	219	181	0	38	17,439	17,439	18,902	0	(1,463)	17,913	19,351	(1,438)			
3001.04.14 - Land and Facilities Management	767	767	377	0	390	52,978	52,978	50,403	0	2,574	54,311	51,589	2,723			
3001.04.15 - Mail & Courier	56	56	98	0	(41)	7,579	7,579	7,630	0	(51)	7,694	7,732	(38)			
3001.04.16 - Property Systems/Acquisitons	646	646	571	0	75	66,089	66,089	65,891	0	198	67,545	67,038	507			
3001.04.17 - General Supplies Inventory	74	74	(137)	0	212	2,512	2,512	1,438	0	1,074	2,678	1,488	1,189			
3001.04.18 - Maintenance Management Program Implementation	73	73	66	0	7	11,082	11,082	11,041	0	41	11,243	11,202	41			
3001.06.01 - Business Operations	1,024	1,024	718	0	307	65,722	65,722	24,060	0	41,663	68,291	26,824	41,467			
3001.06.02 - Human Resources	316	316	272	0	44	29,446	29,446	27,204	0	2,242	30,146	27,832	2,314			
3001.06.03 - Safety, Health & Quality	1,601	1,601	1,490	0	111	193,728	193,728	191,101	0	2,628	197,221	194,705	2,516			
3001.06.04 - Miscellaneous Support	355	355	397	0	(43)	55,977	55,977	56,695	0	(718)	56,748	57,431	(683)			
3001.06.05 - Presidents Office (G&A nonPMB)	0	0	2	0	(2)	516	516	91	0	425	823	397	426			
3001.06.06 - Strategy	0	0	0	0	0	2,529	2,529	2,529	0	0	2,529	2,529	0			
3001.07.01 - Portfolio Management	252	252	182	0	70	61,875	61,875	60,593	0	1,282	62,436	61,108	1,328			
3001.08.01 - Water System	(80)	883	590	963	293	48,928	47,213	34,408	(1,715)	12,804	50,707	37,668	13,040			
3001.08.02 - Sewer System	0	13	140	13	(127)	17,321	17,071	21,237	(250)	(4,166)	17,321	21,642	(4,320)			
3001.08.03 - Electrical System	819	520	489	(299)	31	30,547	28,830	29,234	(1,717)	(404)	32,844	32,747	97			
3001.08.04 - Roads and Grounds	52	7	6	(45)	1	10,067	10,022	9,454	(45)	568	10,218	9,651	568			
3001.08.05 - Facility System	27	51	81	24	(30)	12,976	12,956	13,283	(20)	(326)	14,186	14,880	(693)			
3001.08.06 - Reliability Projects Studies & Estimates	714	714	802	0	(88)	28,614	28,614	30,132	0	(1,518)	30,192	31,717	(1,525)			
3001.08.07 - Reliability Project Spare Parts Inventory	47	47	(10)	0	57	5,054	5,054	3,665	0	1,389	5,148	3,721	1,427			
3001.08.08 - Network & Telecommunications System	257	192	161	(66)	31	33,688	33,150	35,477	(538)	(2,327)	34,460	37,043	(2,583)			
3001.08.09 - Capital Equipment Not Related to Construction	17	0	0	(17)	0	15,129	15,126	13,713	(3)	1,413	15,769	15,138	631			
3001.08.10 - WSCF - Projects	0	0	0	0	0	979	979	810	0	169	979	810	169			
3001.08.11 - Support of Infrastructure Interface to ORP	0	0	0	0	0	994	994	775	0	219	994	775	219			
3001.08.12 - Reliability Projects Out Year Planning	0	0	0	0	0	125	0	0	(125)	0	125	126	(0)			
3001.90.04 - MSA Transition	0	0	0	0	0	5,868	5,868	5,868	0	0	5,868	5,868	0			
3001.B1.06 - Projects	0	0	0	0	0	(0)	(0)	0	0	(0)	(0)	0	(0)			
b. COST OF MONEY																
c. GENERAL AND ADMINISTRATIVE																
d. UNDISTRIBUTED BUDGET																
e. SUBTOTAL (Performance Measurement Baseline)	26,064	26,637	23,391	573	3,247	2,858,398	2,853,984	2,776,851	(4,413)	77,133	2,942,482	2,865,383	77,099			

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

CONTRACT PERFORMANCE REPORT FORMAT 1 - WORK BREAKDOWN STRUCTURE													DOLLARS IN Thousands		FORM APPROVED OMB No. 0704-0188	
1. Contractor		2. Contract			3. Program			4. Report Period								
a. Name Mission Support Alliance		a. Name Mission Support Contract			a. Name Mission Support Contract			a. From (2020/02/24)								
b. Location (Address and Zip Code) Richland, WA 99352		b. Number RL14728			b. Phase Operations			b. To (2020/03/22)								
c. TYPE CPAF		d. Share Ratio			c. EVMS ACCEPTANCE No X Yes											
Item (1)	Current Period					Cumulative to Date					At Completion					
	Budgeted Cost		Actual Cost	Variance		Budgeted Cost		Actual Cost	Variance		Budgeted	Estimated	Variance			
	Work Scheduled (2)	Work Performed (3)	Work Performed (4)	Schedule (5)	Cost (6)	Work Scheduled (7)	Work Performed (8)	Work Performed (9)	Schedule (10)	Cost (11)	(12)	(13)	(14)			
a2. WORK BREAKDOWN STRUCTURE ELEMENT																
3001.01.04 - HAMMER	1,385	1,385	1,393	0	(8)	156,407	156,407	156,053	0	354	159,493	158,654	840			
3001.02.04 - Radiological Site Services	811	811	796	0	14	71,883	71,883	71,534	0	349	73,694	72,921	772			
3001.02.05 - WSCF Analytical Services	0	0	0	0	0	53,176	53,176	53,176	0	0	53,176	53,176	(0)			
3001.03.02 - Information Systems	263	263	322	0	(59)	11,028	11,028	10,852	0	176	11,614	11,432	182			
3001.03.04 - Content & Records Management	72	72	82	0	(10)	3,317	3,317	3,349	0	(32)	3,473	3,515	(43)			
3001.03.06 - Information Support Services	0	0	0	0	0	4,043	4,043	4,043	0	(0)	4,043	4,043	(0)			
3001.03.07 - Information Technology Services	2,226	2,226	2,049	0	177	118,967	118,967	119,609	0	(642)	129,504	130,340	(836)			
3001.04.05 - Facility Services	969	969	1,224	0	(255)	91,118	91,118	90,873	0	244	93,213	93,170	44			
3001.04.06 - Transportation	500	500	464	0	36	56,188	56,188	55,770	0	418	57,638	56,737	901			
3001.04.07 - Fleet Services	1,450	1,450	1,419	0	31	157,717	157,717	158,931	0	(1,214)	160,914	161,201	(287)			
3001.04.08 - Crane and Rigging	1,008	1,008	973	0	35	130,606	130,606	130,072	0	534	132,835	131,674	1,161			
3001.04.10 - Technical Services	246	246	206	0	40	10,974	10,974	10,524	0	450	11,538	11,049	489			
3001.04.13 - Work Management	60	60	56	0	4	4,710	4,710	4,657	0	53	4,843	4,789	54			
3001.04.14 - Land and Facilities Management	847	847	974	0	(128)	78,844	78,844	79,001	0	(157)	80,642	80,587	55			
3001.04.15 - Mail & Courier	19	19	19	0	0	1,847	1,847	1,838	0	9	1,888	1,868	20			
3001.06.01 - Business Operations	820	820	1,034	0	(214)	119,055	119,055	119,377	0	(322)	121,178	121,184	(6)			
3001.06.02 - Human Resources	342	342	360	0	(18)	34,080	34,080	33,885	0	195	34,830	34,558	272			
3001.06.03 - Safety, Health & Quality	122	122	129	0	(7)	16,780	16,780	15,756	0	1,023	17,065	16,064	1,001			
3001.06.04 - Miscellaneous Support	315	315	548	0	(233)	20,158	20,158	20,930	0	(771)	20,860	22,167	(1,307)			
3001.06.05 - Presidents Office (G&A nonPMB)	327	327	341	0	(15)	30,025	30,025	30,015	0	10	30,689	30,608	82			
3001.06.06 - Strategy	20	20	22	0	(2)	3,217	3,217	3,134	0	84	3,263	3,183	80			
3001.A1.01 - Transfer - CHPRC	6,833	6,833	5,305	0	1,527	753,726	753,726	751,631	0	2,095	768,968	765,359	3,610			
3001.A1.02 - Transfer - WRPS	4,553	4,553	4,438	0	115	364,063	364,063	362,955	0	1,108	374,219	373,069	1,150			
3001.A1.03 - Transfers - FH Closeout	0	0	0	0	0	228	228	228	0	0	228	228	0			
3001.A1.04 - Transfers - CHG Closeout	0	0	0	0	0	13	13	13	0	0	13	13	0			
3001.A2.01 - Non Transfer - BNI	47	47	37	0	9	3,740	3,740	3,829	0	(90)	3,844	3,930	(86)			
3001.A2.02 - Non Transfer - AMH	0	0	0	0	0	954	954	954	0	0	954	954	0			
3001.A2.03 - Non Transfer - ATL	0	0	0	0	0	702	702	702	0	0	702	702	0			
3001.A2.04 - Non-Transfer - WCH	0	0	0	0	0	41,023	41,023	41,726	0	(703)	41,023	41,726	(703)			
3001.A2.05 - Non-Transfers - HPM	53	53	47	0	6	3,684	3,684	3,799	0	(115)	3,802	3,916	(114)			
3001.A2.06 - Non-Transfers - BNI Corp	0	0	0	0	0	7	7	1	0	6	7	1	6			
3001.A2.07 - Non-Transfers-WAI	33	33	25	0	7	1,534	1,534	1,432	0	102	1,607	1,500	107			
3001.A4.01 - Request for Services	574	574	897	0	(322)	120,347	120,347	121,176	0	(829)	121,627	122,682	(1,055)			
3001.A4.02 - HAMMER RFSS	138	138	184	0	(47)	36,979	36,979	35,629	0	1,350	37,287	36,007	1,280			
3001.A4.03 - National Guard RFSS	0	0	0	0	0	1,550	1,550	1,550	0	0	1,550	1,550	0			
3001.A4.04 - PNNL RFSS	48	48	28	0	21	11,527	11,527	12,786	0	(1,259)	11,635	12,869	(1,234)			
3001.A5.01 - RL PD	23	23	28	0	(4)	6,830	6,830	6,702	0	128	6,882	6,754	128			
3001.A5.02 - ORP PD	73	73	51	0	22	8,870	8,870	8,821	0	49	9,033	8,952	80			



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 (2020/02/24)										
b. Location (Address and Zip Code)		b. Number		b. Phase				b. To (2020/03/22)										
Richland, WA 99352		c. TYPE		c. EVMS ACCEPTANCE														
Item (1)	Budgeted Cost		Current Period			Variance		Cumulative to Date			At Completion							
	Work Scheduled (2)	Work Performed (3)	Actual Cost Work Performed (4)	Schedule (5)	Cost (6)	Work Scheduled (7)	Work Performed (8)	Actual Cost Work Performed (9)	Schedule (10)	Cost (11)	Budgeted (12)	Estimated (13)	Variance (14)					
3001.A5.03 - RL Project Funded	437	437	370	0	68	20,368	20,368	18,639	0	1,730	21,299	19,703	1,596					
3001.A5.04 - ORP Project Funded	141	141	114	0	27	8,908	8,908	8,394	0	513	9,217	8,633	584					
3001.A6.01 - Portfolio PMTOs	0	0	0	0	0	1,102	1,102	1,102	0	(0)	1,102	1,102	(0)					
3001.A7.01 - G&A Liquidations	(2,192)	(2,192)	(2,098)	0	(94)	(235,997)	(235,997)	(234,078)	0	(1,919)	(241,132)	(238,854)	(2,278)					
3001.A7.02 - DLA Liquidations	(1,804)	(1,804)	(1,623)	0	(181)	(161,795)	(161,795)	(159,799)	0	(1,996)	(166,083)	(162,881)	(3,202)					
3001.A7.03 - Variable Pools Revenue	(7,804)	(7,804)	(7,675)	0	(129)	(777,456)	(777,456)	(781,253)	0	3,797	(800,290)	(795,194)	(5,096)					
3001.B1.01 - UBS Assessments for Other Providers	0	0	0	0	0	0	0	0	0	0	0	0	0					
3001.B1.02 - UBS Other MSC - HAMMER M&O	0	0	0	0	0	0	0	0	0	0	0	0	0					
3001.B1.03 - Assessment for Other Provided Services	0	0	0	0	0	1	1	0	0	1	1	0	1					
3001.B1.04 - Assessment for PRC Services to MSC	0	0	0	0	0	1	1	0	0	1	1	0	1					
3001.B1.07 - Request for Services	0	0	0	0	0	0	0	0	0	0	0	0	0					
a2. WORK BREAKDOWN STRUCTURE ELEMENT																		
b2. COST OF MONEY																		
c2. GENERAL AND ADMINISTRATIVE											0		0					
d2. UNDISTRIBUTED BUDGET											5,499	5,499	0					
e2. SUBTOTAL (Non - Performance Measurement Baseline)	12,953	12,953	12,538	0	415	1,385,048	1,385,048	1,380,318	0	4,730	1,419,390	1,421,141	(1,750)					
f. MANAGEMENT RESERVE											2,355	2,355	0					
g. TOTAL	39,016	39,590	35,928	573.0	3,662	4,243,446	4,239,032	4,157,169	(4,413)	81,863	4,364,227	4,288,879	75,349					
9. RECONCILIATION TO CONTRACT BUDGET BASE																		
a. VARIANCE ADJUSTMENT																		
b. TOTAL CONTRACT VARIANCE																		





6.0 FORMAT 3, DD FORM 2734/3, BASELINE

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

CONTRACT PERFORMANCE REPORT																	
FORMAT 3 - BASELINE														DOLLARS IN Thousands		FORM APPROVED OMB No. 0704-0188	
1. Contractor		2. Contract				3. Program				4. Report Period							
a. Name Mission Support Alliance		a. Name Mission Support Contract				a. Name Mission Support Contract				a. From (2020/02/24)							
b. Location (Address and Zip Code) Richland, WA 99352		b. Number RL14728		b. Phase Operations		b. To (2020/03/22)											
c. TYPE CPAF		d. Share Ratio		c. EVMS ACCEPTANCE No <input type="checkbox"/> X <input checked="" type="checkbox"/> Yes													
5. CONTRACT DATA																	
a. ORIGINAL NEGOTIATED COST \$2,854,966		b. NEGOTIATED CONTRACT CHANGES \$1,509,261		c. CURRENT NEGOTIATED COST (a+b) \$4,364,227		d. ESTIMATED COST OF UNAUTHORIZED UNPRICED WORK \$0				e. CONTRACT BUDGET BASE (C+D) \$4,364,227		f. TOTAL ALLOCATED BUDGET \$4,364,227		g. DIFFERENCE (E - F) \$0			
h. CONTRACT START DATE 2009/05/24		i. CONTRACT DEFINITIZATION DATE 2009/05/24				j. PLANNED COMPLETION DATE 2020/05/25				k. CONTRACT COMPLETION DATE 2020/05/25		l. ESTIMATED COMPLETION DATE 2020/05/25					
6. PERFORMANCE DATA																	
ITEM (1)	BCWS CUMULATIVE TO DATE (2)	BCWS FOR REPORT PERIOD (3)	BUDGETED COST FOR WORK SCHEDULED (BCWS) (Non-Cumulative)													UNDISTRIBUTED BUDGET (15)	TOTAL BUDGET (16)
			Six Month Forecast By Month							Remaining Forecast By Month							
			APR FY20 (4)	MAY FY20 (5)	JUN FY20 (6)	JUL FY20 (7)	AUG FY20 (8)	SEP FY20 (9)	OCT FY21 (10)	NOV FY21 (11)	DEC FY21 (12)	JAN FY22 (13)	FEB FY22 (14)				
a. PERFORMANCE MEASUREMENT BASELINE (Beginning of Period)	2,832,335	26,883	32,818	27,523	0	0	0	0	0	0	0	0	0	0	24,660	2,944,219	
b. BASELINE CHANGES AUTHORIZED DURING REPORT PERIOD	26,064	(26,883)	302	1,056	0	0	0	0	0	0	0	0	0	0	(2,275)	(1,737)	
c. PERFORMANCE MEASUREMENT BASELINE (End of Period)	2,858,398	0	33,121	28,578	0	0	0	0	0	0	0	0	0	0	22,384	2,942,482	



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 (2020/02/24)									
b. Location (Address and Zip Code) Richland, WA 99352		b. Number RL14728			b. Phase Operations				b. To (2020/03/22)									
c. TYPE CPAF		d. Share Ratio			c. EVMS ACCEPTANCE No X Yes													
6. PERFORMANCE DATA																		
ITEM (1)	BCWS CUMULATIVE TO DATE (2)	BCWS FOR REPORT PERIOD (3)	BUDGETED COST FOR WORK SCHEDULED (BCWS) (Non-Cumulative)															
			Six Month Forecast By Month						Remaining Forecast By Month								UNDISTRIBUTED BUDGET (15)	TOTAL BUDGET (16)
			MAR FY20 (4)	APR FY20 (5)	MAY FY20 (6)	JUN FY20 (7)	JUL FY20 (8)	AUG FY20 (9)	SEP FY20 (10)	OCT FY21 (11)	NOV FY21 (12)	DEC FY21 (13)	JAN FY22 (14)					
a2. NON - PERFORMANCE MEASUREMENT BASELINE (Beginning of Period)	1,372,095	12,953	16,099	12,745	0	0	0	0	0	0	0	0	0	0	5,499	1,419,390		
b2. BASELINE CHANGES AUTHORIZED DURING REPORT PERIOD	12,953	(12,953)	0	0	0	0	0	0	0	0	0	0	0	0	0	(0)		
c2. NON - PERFORMANCE MEASUREMENT BASELINE (End of Period)	1,385,048	0	16,099	12,745	0	0	0	0	0	0	0	0	0	5,499	1,419,390			
7. MANAGEMENT RESERVE																2,355		
8. TOTAL	4,243,446	0	49,219	41,323	0	0	0	0	0	0	0	0	0	27,883	4,364,227			



7.0 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 (2019/2/24)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728	b. Phase - Operations	b. To (2020/03/22)
	c. Type CPAF	d. Share Ratio NO X YES	
5. Evaluation			

Explanation of Variance/Description of Problem:

Current Month Cost Variance (CV):

3001.01.01 Safeguards and Security – A favorable CM CV is primarily due to labor underruns resulting from attrition and rate variances.

3001.01.02 Fire and Emergency Response – A favorable CM CV is primarily due to a credit received from Energy North West/Laser Interferometer Gravitational Wave Observatory (LIGO) for the Emergency Fire and Medical Response services provided to both entities. The favorable CM CV is also a result of actual cost of received materials being less than planned and a compressor installation delayed start on the subcontract for the Hanford Fire Department Respiratory Protection program.

3001.04.14 Land and Facilities Management – The favorable CM CV is because of the WYE Generator installation delayed start.

3001.06.01 Business Operations – The favorable CM CV is primarily due to the WBS Dictionary material procurement delay due to issues related to contract award, labor underruns because of pending new hires, personnel supporting other projects, and underruns related to site issues/stop works.

3001.08.01 Water System – The favorable CM CV is primarily project L-895 “Fire Protection Infrastructure for PRW” primarily due to the subcontractor procurement of new pumps and pipes in the 282W Pump House basement. The procurement occurred during February. The project completed an accrual but took performance in March. Labor efficiencies related to MSA construction support also contributed to the favorable variance.



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

1. Contractor	2. Contract		3. Program	4. Report Period
a. Name Mission Support Alliance	a. Name Mission Support Contract		a. Name Mission Support Contract	a. From (2019/2/24)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2020/03/22)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NOX YES	
5. Evaluation				
<p>3001.A1 – 3001.B1 Non-PMB – The favorable CM CV is due to a reduction in Variable Services provided to CHPRC in March because of an Asbestos issue that halted work for several days as well as a site-wide Stop Work related to COVID-19.</p> <p>Variable Service Pools - Non-PMB – The WBS elements 3001.01.04 – 3001.06.06 represent the usage-based pool, General and Administrative (G&A), and Direct Labor Adder (DLA) accounts. Offsetting liquidation of service to customers occur with WBS 3001.A7.01 - 3001.A7.03.</p> <p>Impacts – Current Month Cost Variance: No significant impacts associated with this CM CV.</p> <p>Corrective Action – Current Month Cost Variance: None</p> <p>Current Month Schedule Variance:</p> <p>3001.08.01 Water System – The favorable CM SV resulted from projects:</p> <ul style="list-style-type: none"> L-895 “Fire Protection Infrastructure for PRW” favorable CM SV is primarily due to early procurement of the materials to install pipes and pumps in the 282W Pump House. The project planned installation of new pumps and piping in the 282W pump house basement for April. The construction subcontractor procured these items in February for installation in April. The Project accrued costs in February, but took performance in March that also contributed to the current month favorable schedule variance. On both L-826 “181B Vertical Turbine Pumps” and L-849 “Replace 200E 1.1M-gal PW Tank,” the favorable CM SV is due to the implementation of Baseline Change Request (BCR) VMSA-20-034 and VMSA-20-035 that incorporated the Total Project Schedule into the baseline. The BCR incorporated realized risks during conceptual design that resulted in the removal of scope in the current period in order to replan the remaining scope to align with the current execution strategy. 				



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 (2019/2/24)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2020/03/22)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NOX YES	
5. Evaluation				

3001.08.03 Electrical System – The unfavorable CM SV resulted because of project L-789 “Prioritize T&D Sys Wood PP Test & Replace” design change notices (DCNs) being prepared by the construction support Architecture/Engineering delayed work. Additionally, the planned line drop resulted in a suspension of electrical hot work and schedule delay.

3001.08.08 Network & Telecommunications System – The unfavorable CM SV resulted from three projects, (L-921 “Telecom Hut at Met Tower,” L-919 “Emergency Radio Upgrade,” and H-001 “Business Mgmt Systems Upgrd”) that individually show insignificant unfavorable schedule variances.

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

Impacts – Current Month Schedule Variance: Impacts to Reliability Projects are minimal because most Reliability Projects are independent stand-alone projects.

Corrective Action – Current Month Schedule Variance: None.

Cumulative Cost Variance:

3001.01.01 Safeguard and Security - The favorable CTD CV is due to Fiscal Year (FY) 2019 year-end variance distributions; labor underruns resulting from attrition, rate variances and R-Time for hazardous roads; and material and subcontract underruns due to time phasing or realized at lower-than-planned cost.

3001.06.01 Business Operations – The favorable CTD CV is primarily due to affiliate credits on Information Technology (IT) scope and training on overtime. The affiliate credits on IT scope are 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 (2019/2/24)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2020/03/22)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NOX YES	
5. Evaluation				

3001.08.01 Water System - Favorable CTD CV is because of awarding the Engineering Study on Project L-894 "Raw Water Cross Connect Isolation 200 E/W" for less than planned, the conceptual design utilizing fewer resources than originally planned, definitive design experiencing cost underruns and awarding the construction contract for less than the planned value.

Completed projects with CTD CV include the following:

- Project L-419 "Line Renovation/Replacement from 2901U to 200E" had a fixed price contract that was awarded/completed at a lower cost than budgeted.
- Project L-840 "24in Line Replacement from 2901Y to 200W" had savings on construction subcontracts due to the contractor's expertise in this type of construction and encountering significantly less difficult site conditions.
- Projects L-399 "T-Plant Potable & Raw Water Line Rest", L-525 "24-inch Line Replacement from 2901Y to 200W", and L-311 "Refurbish 200W Raw Water Reservoir" experienced savings on materials, and fixed price construction contracts.

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

Impacts - Cumulative Cost Variance: The aggregate favorable CV is primarily due to affiliate credit for IT scope and underruns during the execution of the FY 2019 work scope. During March 2020, MSA re-submitted a credit cost variance proposal for FY 2019 underruns incorporating comments from DOE-RL. MSA does not anticipate resolution of the affiliate credit on IT scope prior to the end of the MSA contract.

Corrective Action - Cumulative Cost Variance: None.



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

1. Contractor	2. Contract		3. Program	4. Report Period
a. Name Mission Support Alliance	a. Name Mission Support Contract		a. Name Mission Support Contract	a. From (2019/2/24)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2020/03/22)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NOX YES	
5. Evaluation				

Cumulative Schedule Variance:

3001.08.01 Water System – Unfavorable CTD SV is primarily due to Project L-895 “Fire Protection Infrastructure for PRW” construction activity delays including erection of the 282WF building, backup generator installation, anchoring and wiring of several major components, installation of switchgear and Programmable Logic Controllers (PLC) procurement and pre-programming.

3001.08.02 Sewer System – The unfavorable CTD SV on Project L-854 “200E Sewer Consolidations” is primarily due to immature planning & work being more complex than planned.

3001.08.03 Electrical System – Unfavorable CTD SV is because:

- Project L-789 “Prioritize T&D Sys Wood PP Test & Replace” experienced planned pole replacement activities delay due to DCNs issuance and the line drop that resulted in suspension of electrical hot work. Project H-006 “10 CFR 851” encountered breaker maintenance outage challenges with scheduling the actual outage in the field. Advance anticipation by the project of these operation changes is unrealistic. A BCR approved last month added additional outages for April and May inside contract.

3001.08.08 Network Telecommunication System – Unfavorable CTD SV is because Project L-905 “FARS & RFARS Replacement & Upgrade” delayed approval of both the Facility Management Plan and final review of the Statement of Work resulting in a two-month schedule slip.

3001.08.12 Reliability Projects Out-Year Planning - Unfavorable CTD SV is due to not completing the Out-Year Planning package as proposed during this contract period. A future BCR removing the remaining budget moves it to SWS-Undistributed Budget.

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 (2019/2/24)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728	b. Phase - Operations	b. To (2020/03/22)
	c. Type CPAF	d. Share Ratio	
c. EVMS Acceptance NO X YES			

Impacts - Cumulative Schedule Variance: Impacts to Reliability Projects are minimal because most reliability projects are independent stand-alone projects. Projects L-789 & L-854, tied to the DFLAW program schedule, are an exception.

- Project L-789 “Prioritize T&D Sys Wood PP Test & Replace” schedule impacts are due to delayed DCNs issuances and the line drop that resulted in a suspension of electrical hot work.
- Project L-854, “200E Sewer Consolidations” “200E Sewer Consolidations” schedule impact is due to adjusting the pipe installation for Phases 5 and 6 to accommodate the operation schedule of other Hanford contractors. Project completed preparation work for acceptance testing.

Corrective Action – Cumulative Schedule Variance: No corrective action is required because most of these projects are stand-alone. Projects L-789 & L-854, tied to the DFLAW program schedule are an exception.

- Project L-789 “Prioritize T&D Sys Wood PP Test & Replace.” The subcontractor has pulled their forces off-site to limit cost impacts to the project. The project expects additional costs due to subcontractor change orders for outstanding DCNs, and additional MSA support costs due to an extended schedule. These changes resulted because of placing the subcontractor on-hold and assigning them to off-site work (pause on hot work; DCNs not ready to support work in the field). The project forecasts subcontractor change orders for the next reporting period.
- Project L-854, “200E Sewer Consolidations” - To mitigate the impact, the project plans to adjust the pipe installation for Phases 5 and 6 to accommodate the operation schedule of other Hanford contractors.





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

1. Contractor	2. Contract		3. Program	4. Report Period
a. Name Mission Support Alliance	a. Name Mission Support Contract		a. Name Mission Support Contract	a. From (2019/2/24)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2020/03/22)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NOX YES	
5. Evaluation				

Variance at Complete:

The favorable VAC in the Performance Measurement Baseline (PMB) and non-PMB is primarily due to the affiliate credit on IT scope and underruns during FY 2019.

Impacts – At Complete Variance: None.

Corrective Action - At Complete Variance:

MSA does not anticipate resolution of the affiliate credit on IT scope prior to the end of the MSA contract. During March 2020, MSA re-submitted the FY 2019 Cost Variance Credit Proposal based on comments from DOE-RL. The COVID-19 Pandemic has initiated a Site Essential Operations status for MSA near the end of fiscal month March 2020. MSA is currently assessing FY 2020 work scope impacts.

Negotiated Contract Changes:

The Negotiated Contract Cost for March 2020 remained the same at \$4,364.2M.

Changes in Estimated Cost of Authorized Unpriced Work:

The Authorized Unpriced Work (AUW) for the reporting period decreased from \$1.8M to zero as part of the contract extension to May 25, 2020.

Changes in Estimated Price:

The Estimated Price for March 2020 decreased \$4.8M from \$4,531.4M to 4,526.6M. The primary reason for the decrease was due to COVID 19 Pandemic reducing MSA to Site Essential Operations near the end of fiscal month March 2020. MSA is currently assessing FY 2020 work scope impacts. The Estimated Price includes the Most Likely Management Estimate at Completion (MEAC) of \$4,288.8M and fee of \$237.8M.

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 (2019/2/24)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2020/03/22)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NOX YES	

Changes in Undistributed Budget:

The Undistributed Budget (UB) for this reporting period decreased by \$2.3M from \$30.2M to \$27.9M. The reduction to AUW for Reliability Project L-612 decreased UB by \$1.8M and Reliability Projects reduced \$0.5M in SWS UB to plan work scope until the end of the contract extension.

The following BCRs changed the UB:

- VSWS-20-006 - Create Level 5 WBS for BIO Government Personal Property Disposition and Move Budget from SWS-UB
- VMSA-20-016 - Revise L-888 Scope, Schedule and Budget for Redesign of 400A Fire Station per RL Direction and Return Budget to SWS-UB
- VMSA-20-017 Rev 2 - AUW - Correction to VMSA-20-007 Rev 1 to Eliminate L-612 AUW and SWS Unallocated Budget (UB)
- VMSA-20-030 - Create a Level 4 & 5 WBS for L-797, Key Facilities HVAC Replacements and Move Budget from SWS-UB for Procurements
- VMSA-20-033 - Add Scope and Budget to L-781 for Conceptual Design from SWS-UB
- VMSA-20-034 - Reduce L-826 Budget for Conceptual Design; Return to SWS-UB; and Move Scope Out of Contract Baseline
- VMSA-20-035 - Reduce L-849 Budget for Conceptual Design; Return to SWS-UB; and Move Scope Out of Contract Baseline
- VMSA-20-036 - Move L-919 Design/Construct Activities and Budget into the MSA Contract Extension Period of Performance from SWS-UB





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 (2019/2/24)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2020/03/22)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NO X YES	

5. Evaluation

- VMSA-20-037 - Move L-839 Definitive Design Activities and Budget into the MSA Contract Extension Period of Performance from SWS-UB
- VMSA-20-039 - Move MR to L-895, Construction for Realized Risk L-895-0005-T (1864) and Return Budget to SWS-UB

Changes in Management Reserve:

The MR for this reporting period decreased \$0.09M from \$2.4M to \$2.3M due to BCR VMSA-20-039 Move MR to L-895, Construction for Realize Risk L-895-0005-T (1864).

Differences in the Performance Measurement Baseline:

This reporting period the Performance Measurement Baseline decreased \$1.7M from \$2,944.2M to \$2,942.5M. The primary reason for the decrease was due to the reduction to Authorized Unpriced Work as identified in BCR VMSA-20-017 Rev 2.

The following BCRs adjusted time phasing, but did not change the PMB:

- VSWS-20-006 - Create Level 5 WBS for BIO Government Personal Property Disposition and Move Budget from SWS-UB
- VMSA-20-016 - Revise L-888 Scope, Schedule and Budget for Redesign of 400A Fire Station per RL Direction and Return Budget to SWS-UB
- VMSA-20-017 Rev 2 - AUW - Correction to VMSA-20-007 Rev 1 to Eliminate L-612 AUW and SWS Unallocated Budget (UB)
- VMSA-20-030 - Create a Level 4 & 5 WBS for L-797, Key Facilities HVAC Replacements and Move Budget from SWS-UB for Procurements

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 (2019/2/24)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2020/03/22)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NO X YES	
5. Evaluation				
<ul style="list-style-type: none"> • VMSA-20-033 - Add Scope and Budget to L-781 for Conceptual Design from SWS-UB • VMSA-20-034 - Reduce L-826 Budget for Conceptual Design; Return to SWS-UB; and Move Scope Out of Contract Baseline • VMSA-20-035 - Reduce L-849 Budget for Conceptual Design; Return to SWS-UB; and Move Scope Out of Contract Baseline • VMSA-20-036 - Move L-919 Design/Construct Activities and Budget into the MSA Contract Extension Period of Performance from SWS-UB • VMSA-20-037 - Move L-839 Definitive Design Activities and Budget into the MSA Contract Extension Period of Performance from SWS-UB • VMSA-20-039 - Move MR to L-895, Construction for Realized Risk L-895-0005-T (1864) and Return Budget to SWS-UB <p><u>Differences in the Non-Performance Measurement Baseline:</u></p> <p>This reporting period the non-PMB remained the same at \$1,419.4M.</p> <ul style="list-style-type: none"> • Approving the following BCR did not change the non-PMB: VG&A-20-001 - Create a Level 5 WBS for COVID-19 Planning to Collect Cost <p>Best/Worst/Most Likely Management Estimate at Completion (MEAC):</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 MR. The Worst Case Scenario assumes a 5 percent increase to the Most Likely MEAC case scenario.</p>				



8.0 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 2020 to Date – March 2020					
Account Description	BCWS	BCWP	ACWP	CV	Liquidation
Direct Labor Adder					
Software Engineer Services DLA (3001.03.02.03)	\$1,502.4	\$1,502.4	\$1,442.1	\$60.3	(\$1,380.3)
Content & Records Management DLA (3001.03.01.04)	\$416.5	\$416.5	\$417.9	(\$1.4)	(\$404.0)
Transportation DLA (3001.04.06.02)	\$2,862.9	\$2,862.9	\$2,833.0	\$29.9	(\$3,148.6)
Maintenance DLA (3001.04.05.02)	\$4,933.1	\$4,933.1	\$5,181.8	(\$248.7)	(\$4,645.4)
Janitorial Services DLA (3001.04.05.03)	\$672.6	\$672.6	\$698.7	(\$26.1)	(\$628.8)
Total Direct Labor Adder	\$10,387.5	\$10,387.5	\$10,573.5	(\$186.0)	(\$10,207.1)

ACWP = Actual Cost of Work Performed. CV = Cost Variance BAC = Budget at Completion. FYTD = Fiscal Year to Date
 BCWP = Budgeted Cost of Work Performed. BCWS = Budgeted Cost of Work Scheduled.



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

Fiscal Year 2020 to Date – March 2020					
Account Description	BCWS	BCWP	ACWP	CV	Liquidation
Usage Based Services					
Training (3001.01.04.02)	\$7,875.5	\$7,875.5	\$7,893.2	(\$17.7)	(\$7,974.4)
HRIP (3001.02.04.02)	\$2,100.6	\$2,100.6	\$2,095.0	\$5.6	(\$1,881.3)
Dosimetry (3001.02.04.03)	\$2,666.9	\$2,666.9	\$2,547.9	\$119.0	(\$3,111.1)
Information Technology Services (3001.03.07.01)	\$13,492.6	\$13,492.6	\$13,551.9	(\$59.3)	(\$16,554.9)
Work Management (3001.04.13.01)	\$342.3	\$342.3	\$333.2	\$9.1	(\$304.5)
Courier Services (3001.04.15.02)	\$107.5	\$107.5	\$111.4	(\$3.9)	(\$109.8)
Occupancy (3001.04.14.06)	\$4,951.5	\$4,951.5	\$5,205.7	(\$254.2)	(\$5,163.0)
Crane & Rigging (3001.04.08.02)	\$5,784.6	\$5,784.6	\$5,779.7	\$4.9	(\$5,896.7)
Fleet (3001.04.07.02)	\$8,293.0	\$8,293.0	\$8,652.0	(\$359.0)	(\$8,256.9)
Total UBS	\$45,614.5	\$45,614.5	\$46,170.0	(\$555.5)	(\$49,252.6)
Total DLA/ UBS	\$56,002.0	\$56,002.0	\$56,743.5	(\$741.5)	(\$59,459.7)

ACWP = Actual Cost of Work Performed.

CV = Cost Variance

BAC = Budget at Completion.

BCWP = Budgeted Cost of Work Performed.

BCWS = Budgeted Cost of Work Scheduled.

FYTD = Fiscal Year to Date

Variance (\$0.7M) - The fiscal year to date unfavorable cost variance is driven by the Maintenance DLA and Fleet Services UBS Accounts. The increased Site demand for the UBS service has resulted in Fleet materials and Mechanics labor costs exceeding plan. Maintenance DLA charges have exceeded plan as a result of COVID stop work impacts increasing DLA labor.



9.0 RELIABILITY PROJECT STATUS

Activity in March was centered on continuing progress on projects carried over from FY 2019. (Table 8-1 below.)

Table 8-1. Current Active Reliability Project Summary

Projects to be Completed (\$000's)															
Work Scope Description (Reliability Projects)	Contract to Date - Performance							PMB Project Baseline				PMB Completion Dates			
	BCWS	BCWP	ACWP	SV	CV	SPI	CPI	BAC	EAC	VAC	% Complete	Forecast Date	Baseline Complete Date	Schedule at Complete	VAC Cost
L-850, Replace 200W 1.1M-gal PW Tank	1,007.4	990.7	1,214.4	(16.7)	(223.7)	0.98	0.82	1,172.5	1,422.8	(250.3)	84%	7/21/20	5/21/20	R	Y
L-849, Replace 200E 1.1M-gal PW Tank	515.8	498.6	674.4	(17.2)	(175.9)	0.97	0.74	689.7	720.5	(30.8)	72%	5/21/20	5/21/20	G	G
L-894, Raw Water Cross Connection Isolation 200E/W	7,973.4	7,909.1	6,657.0	(64.3)	1,252.1	0.99	1.19	8,015.6	7,103.3	912.3	99%	7/28/20	5/24/20	R	G
L-895, Fire Protection Infrastructure for Plateau Raw Water	7,977.6	6,448.8	6,984.6	(1,528.8)	(535.8)	0.81	0.92	8,651.7	8,614.1	37.5	75%	5/04/21	5/21/20	R	G
L-357, Replace 12" Potable Water Line to 222-S Lab	1,654.4	1,643.2	1,687.2	(11.2)	(44.0)	0.99	0.97	1,654.4	1,699.1	(44.7)	99%	5/14/20	7/15/19	R	G
L-781, 181D Vertical Turbine Pumps	476.9	468.0	359.1	(8.8)	108.9	0.98	1.30	667.7	529.2	138.6	70%	5/21/20	5/21/20	G	G
L-897, Central Plateau Water Treatment Facility	2,784.4	2,699.4	2,561.5	(85.0)	137.9	0.97	1.05	3,051.1	3,033.3	17.7	88%	8/06/20	5/21/20	R	G
L-826, 181B Vertical Turbine Pumps	358.9	350.2	327.6	(8.7)	22.7	0.98	1.07	507.9	458.0	49.9	69%	5/21/20	5/21/20	G	G
L-839, 12" Potable Water Loop Line to WTP	193.1	218.7	148.6	25.6	70.1	1.13	1.47	310.5	202.5	108.0	70%	6/01/20	5/25/20	Y	G
L-853, 200E Sewer Flow Equalization Facility	6,054.1	6,008.1	6,598.3	(46.0)	(590.2)	0.99	0.91	6,054.2	6,753.7	(699.5)	99%	7/27/20	4/10/19	R	R
L-854, 200E Sewer Consolidations	5,960.6	5,756.6	6,137.9	(204.0)	(381.3)	0.97	0.94	5,960.7	6,387.4	(426.7)	97%	8/12/20	4/16/19	R	R
L-789, Prioritize T&D Sys Wood PP Test & Replace	7,309.3	6,076.5	6,770.7	(1,232.8)	(694.2)	0.83	0.90	8,552.1	8,749.2	(197.1)	71%	6/22/20	5/21/20	Y	Y
L-801, Upgrade SCADA	1,327.2	1,224.0	1,238.4	(103.3)	(14.5)	0.92	0.99	1,380.3	1,377.8	2.5	89%	8/10/20	5/21/20	R	G
L-791, RFL Transfer Trip Upgrades	978.1	974.5	764.8	(3.6)	209.7	1.00	1.27	1,023.3	809.6	213.6	95%	5/21/20	5/21/20	G	G
L-720, Outdoor Lighting Reconfiguration and Repl	203.0	192.1	319.8	(10.9)	(127.7)	0.95	0.60	203.0	349.8	(146.8)	95%	5/27/20	5/29/19	R	Y
H-006, 10 CFR 851	2,556.2	2,305.0	2,217.5	(251.2)	87.5	0.90	1.04	2,877.3	2,744.6	132.6	80%	7/13/20	5/21/20	Y	G

SPI & CPI	
G	>= 0.90
Y	>= 0.70 & < 0.90
R	< 0.70

Schedule at Complete	
G	On schedule
Y	1-30 working days behind schedule
R	>30 working days behind schedule

VAC Cost	
G	Underspent or <100K over
Y	>100K Over Spent
R	>300K Over Spent

Table 8-1. Current Active Reliability Project Summary (cont.)

Work Scope Description (Reliability Projects)	Projects to be Completed (\$000's)														
	Contract to Date - Performance							PMB Project Baseline				PMB Completion Dates			
	BCWS	BCWP	ACWP	SV	CV	SPI	CPI	BAC	EAC	VAC	% Complete	Forecast Date	Baseline Complete Date	Schedule at Complete	VAC Cost
L-861, Single Circuit Distribution Pole Replacement	11.8	8.9	5.2	(2.9)	3.7	0.76	1.70	283.1	439.0	(155.9)	3%	6/11/20	5/25/20	Y	Y
L-612, 230kV Trans Sys Recon & Sustainability	1,464.6	1,352.2	676.4	(112.5)	675.8	0.92	2.00	1,828.3	1,035.9	792.4	74%	7/30/20	5/21/20	R	G
L-603, Chip Seal Route 3N (Route 11A to Route 3)	13.0	1.9	1.5	(11.1)	0.4	0.14	1.24	47.8	47.5	0.3	4%	6/11/20	5/21/20	Y	G
L-879, Overlay Cypress Street	13.0	1.7	1.6	(11.2)	0.2	0.13	1.10	48.9	48.7	0.2	4%	6/11/20	5/21/20	Y	G
L-883, Chip Seal Rt 10, SR-240 to WYE Barricade	13.0	1.7	1.5	(11.3)	0.2	0.13	1.14	54.2	54.1	0.1	3%	6/11/20	5/21/20	Y	G
L-534, Overlay Interior 200 East Roads	12.9	1.7	1.5	(11.2)	0.2	0.13	1.12	52.7	52.5	0.1	3%	6/11/20	5/21/20	Y	G
L-888, 400 Area Fire Station	1,511.6	1,511.6	1,443.9	(0.0)	67.6	1.00	1.05	1,528.1	1,574.3	(46.2)	99%	5/21/20	5/21/20	G	G
L-796, Key Facilities Roof Replacements	2,104.4	2,082.9	2,128.9	(21.4)	(45.9)	0.99	0.98	2,670.1	2,966.7	(296.7)	78%	6/29/20	5/25/20	Y	Y
L-907, Fleet Complex Site Development	8.9	5.3	0.5	(3.6)	4.9	0.60	11.64	24.1	15.9	8.2	22%	6/15/20	5/21/20	Y	G
L-798, 2101M HVAC Replacement	32.2	33.0	14.9	0.9	18.1	1.03	2.21	258.8	241.6	17.2	13%	5/18/20	5/18/20	G	G
L-797, Key Facilities HVAC Replacements	14.8	19.4	0.0	4.6	19.4	1.31	N/A	401.4	386.6	14.8	5%	5/21/20	5/21/20	G	G
L-905, FARS & RFARS Replacement & Upgrade	641.9	159.9	201.7	(482.0)	(41.8)	0.25	0.79	641.9	632.0	9.8	25%	9/02/20	11/25/19	R	G
L-921, Telecom Hut at Met Tower	83.5	72.9	121.6	(10.6)	(48.7)	0.87	0.60	231.2	276.1	(44.9)	32%	6/03/20	5/21/20	Y	G
L-919, Emergency Radio Upgrade	3,876.8	3,851.5	4,148.7	(25.3)	(297.2)	0.99	0.93	4,079.0	4,332.7	(253.8)	94%	6/22/20	5/21/20	Y	Y
H-001, BMS Upgrade	647.7	627.3	514.5	(20.4)	112.8	0.97	1.22	879.3	842.1	37.2	71%	6/15/20	5/25/20	Y	G
Total	57,780.2	53,495.3	53,924.0	(4,284.9)	(428.8)	0.93	0.99	63,800.6	63,900.8	(100.2)	84%				

VAC Cost	
G	Underspent or <100K over
Y	>100K Over Spent
R	>300K Over Spent

Schedule at Complete	
G	On schedule
Y	1-30 working days behind schedule
R	>30 working days behind schedule

VAC Cost	
G	Underspent or <100K over
Y	>100K Over Spent
R	>300K Over Spent



RELIABILITY STATUS, CONT.

Reliability Projects Variance Explanations

Contract-to-Date (CTD) Schedule Variances (SV) (Threshold: +/- \$250K):

- L-895, *Fire Protection Infrastructure for Plateau Water*: Unfavorable CTD SV is due to several construction and procurement activity delays including erection of the 282WF building, backup generator, anchoring and wiring of several major components, and Programmable Logic Controllers (PLC) procurement and pre-programming subcontract.
- L-789, *Prioritize T&D Sys Wood PP Test & Replace*: Unfavorable CTD SV is primarily due to delayed design change notices issuance and a line drop that resulted in suspension of electrical hot work.
- H-006, *10CFR 851*: Unfavorable CTD SV is because of encountering breaker maintenance outage challenges with scheduling the actual outage in the field.
- L-905, *FARS & RFARS Replacement & Upgrade*: Unfavorable CTD SV is due to delayed approval of both the Facility Management Plan and final review of the Statement of Work resulting in a two-month schedule slip.
- H-006, *10 CFR 851* – Unfavorable CTD CV is due to encountering breaker maintenance outage challenges with scheduling the actual outage in the field. Advance anticipation by the project of these operation changes is unrealistic. A BCR approved last month added additional outages for April and May inside contract.

CTD Cost Variances (CV) (Threshold: +/- \$500K):

- L-894, *Raw Water Cross Connection Isolation 200E/W*: Favorable CTD CV is due to the Engineering Study report costing less than planned (\$176K), conceptual design utilizing fewer resources than originally planned (\$110K), the definitive design cost underrun (\$256K), and the construction contract being awarded for less than the planned value (\$710K).
- L-895, *Fire Protection Infrastructure for Plateau Raw Water*: Unfavorable CTD CV is due to cumulative existing Architecture/Engineering internal labor cost overruns as well as actual costs exceeding the work performed on several current construction and procurement activities.
- L-853, *200E Sewer Flow Equalization Facility*: Unfavorable CTD CV is due to overruns in MSA labor, unplanned training and material costs, compliance



requirements, and subcontract cost that exceeded expectations due to design change notices.

- L-789, *Prioritize T&D Sys Wood Test & Replace*: Unfavorable CTD CV is due to planned pole replacement activities delay because of design change notices issuance and the line drop that resulted in suspension of electrical hot work.
- L-612, *230kV Trans Sys Recon & Sustainability*: Favorable CTD CV is due to 30% Design Contract efficiencies.

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

L-894, *Raw Water Cross Connection Isolation 200E/W*: Favorable VAC is primarily due to the firm fixed price construction contract being awarded at less than the planned value, and Architectural/Engineering costs being less than planned. The current execution plan for the construction field work to install the Reduced-Pressure Back-flow Pressure Assembly based on the Facilities Management Plan partially offsets this favorable VAC.

Table 8 -2. Reliability Projects Schedule

RL-40RP CU-mar - RL-40 Reliability Projects - Current - Mar 20 Layout: MSA - Summ RP Schedule - PMB CU		Mission Support Alliance						Page 1 of 2	
Activity Name	OD	RD	Forecast Start	Forecast Finish	Baseline Start	Baseline Finish	2019	2020	
H-001, BMS Upgrade - Phase II	278	60	20-May-19 A	15-Jun-20	20-May-19	25-May-20			
H-006, 10 CFR 851	341	63	01-Oct-18 A	13-Jul-20	01-Oct-18	21-May-20			
L-357, Replace 12-in. Potable Water Line to 222-S Lab	574	32	29-Jun-17 A	14-May-20	03-Jul-17	15-Jul-19			
L-534, Inlay Interior 200 East Roads	47	47	02-Mar-20 A	11-Jun-20	02-Mar-20	21-May-20			
L-603, Overlay Route 3N (Route 11A to Route 3)	47	47	02-Mar-20 A	11-Jun-20	02-Mar-20	21-May-20			
L-612, 230kV Transmission System Reconditioning and Sustainability Upgrades - MSA	122	74	01-Oct-19 A	30-Jul-20	30-Sep-19	21-May-20			
L-720, Outdoor Lighting Reconfiguration and Replacement	407	47	01-Oct-18 A	27-May-20	15-Oct-18	29-May-19			
L-781, 181D Pump House Vertical Turbine Pump Design	1949	44	01-Oct-12 A	21-May-20	01-Oct-12	21-May-20			
L-789, Prioritized T&D System Wood Power Poles Testing & Replacement (DFLAW Priority)	1226	65	10-Aug-15 A	22-Jun-20	10-Aug-15	21-May-20			
L-791, RFL Transfer Trip Upgrades	534	44	07-May-18 A	21-May-20	07-May-18	21-May-20			
L-796, Key Facilities Roof Replacements	415	55	29-May-18 A	29-Jun-20	04-Jun-18	25-May-20			
L-797, Key Facilities HVAC replacements	40	36	24-Feb-20 A	21-May-20	24-Feb-20	21-May-20			
L-798, 2101M HVAC Replacement	60	33	23-Jan-20 A	18-May-20	03-Feb-20	18-May-20			
L-801, Upgrade SCADA	386	79	05-Sep-18 A	10-Aug-20	04-Sep-18	21-May-20			
L-826, 181 B Vertical Turbine Pumps, Header, Instrumentation, Commission	329	36	01-Oct-18 A	21-May-20	01-Oct-18	21-May-20			
L-839, 12in Potable Water Loop-Line to WTP	237	50	24-Jun-19 A	01-Jun-20	24-Jun-19	25-May-20			
L-849, Replace 200E 1.1M-gal PW Tank	954	36	10-Aug-15 A	21-May-20	24-Aug-15	21-May-20			
L-850, Replace 200W 1.1M-gal PW Tank	1246	85	29-Jul-15 A	21-Jul-20	10-Aug-15	21-May-20			
L-853, 200E Sewer Flow Equalization Facility	1245	89	17-Aug-15 A	27-Jul-20	17-Aug-15	10-Apr-19			
L-854, 200E Sewer Consolidations	998	81	17-Aug-15 A	12-Aug-20	17-Aug-15	18-Apr-19			
L-861, Single Circuit Distribution Pole Replacement	97	58	07-Jan-20 A	11-Jun-20	13-Jan-20	25-May-20			

 Summary
 Baseline

MSC - Reliability Projects
Summary Schedule
Data Date: 22-Mar-20

Table 8 -2. Reliability Projects Schedule Cont.

RL-40RP CU-mar - RL-40 Reliability Projects - Current - Mar 20 Layout: MSA - Summ RP Schedule - PMB CU		Mission Support Alliance				Page 2 of 2			
Activity Name	OD	RD	Forecast Start	Forecast Finish	Baseline Start	Baseline Finish	2019	2020	
L-879, Overlay Cypress Street	47	47	02-Mar-20 A	11-Jun-20	02-Mar-20	21-May-20			
L-883, Chip Seal Rt 10, SR-240 to WYE Barric	47	47	02-Mar-20 A	11-Jun-20	02-Mar-20	21-May-20			
L-888, 400 Area Fire Station	621	44	30-Apr-18 A	21-May-20	30-Apr-18	21-May-20			
L-894, Raw Water Cross Connection Isolation 200EW	985	90	29-Aug-16 A	28-Jul-20	29-Aug-16	24-May-20			
L-895, Fire Protection Infrastructure for Plateau Raw Water	1042	283	09-Jan-17 A	04-May-21	09-Jan-17	21-May-20			
L-897, 200 Area Water Treatment Plant	678	97	29-Nov-17 A	06-Aug-20	29-Nov-17	21-May-20			
L-905, Fire Alarm Report System (FARS) and Radio Fire Alarm Reporter (RFAR) Replacement and Upgrade	417	93	06-Aug-18 A	02-Sep-20	06-Aug-18	25-Nov-19			
L-907, Fleet Complex Site DevelopmentL-907, Fleet Complex Site Development	52	48	24-Feb-20 A	15-Jun-20	24-Feb-20	21-May-20			
L-919, Emergency Radio Upgrades	231	52	29-Apr-19 A	22-Jun-20	29-Apr-19	21-May-20			
L-921, Telecom Hut at Met Tower	97	42	18-Mar-19 A	03-Jun-20	18-Mar-19	21-May-20			

 Summary  Baseline	MSC - Reliability Projects Summary Schedule Data Date: 22-Mar-20
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10.0 BASELINE CHANGE REQUEST LOG (BCR)

Baseline Change Request Log for March 2020.

Twelve Baseline Change Requests (BCRs) were processed in March.

Nine BCRs related to Reliability Projects:

- VMSA-20-016 - Revise L-888 Scope, Schedule and Budget for Redesign of 400A Fire Station per RL Direction and Return Budget to SWS-UB
- VMSA-20-017 Rev 2 - AUW - Correction to VMSA-20-007 Rev 1 to Eliminate L-612 AUW and SWS Unallocated Budget (UB)
- VMSA-20-030 - Create a Level 4 & 5 WBS for L-797, Key Facilities HVAC Replacements and Move Budget from SWS-UB for Procurements
- VMSA-20-033 - Add Scope and Budget to L-781 for Conceptual Design from SWS-UB
- VMSA-20-034 - Reduce L-826 Budget for Conceptual Design; Return to SWS-UB; and Move Scope Out of Contract Baseline
- VMSA-20-035 - Reduce L-849 Budget for Conceptual Design; Return to SWS-UB; and Move Scope Out of Contract Baseline
- VMSA-20-036 - Move L-919 Design/Construct Activities and Budget into the MSA Contract Extension Period of Performance from SWS-UB
- VMSA-20-037 - Move L-839 Definitive Design Activities and Budget into the MSA Contract Extension Period of Performance from SWS-UB
- VMSA-20-039 - Move MR to L-895, Construction for Realized Risk L-895-0005-T (1864) and Return Budget to SWS-UB

Three BCRs were Administrative in Nature:

- VMSA-20-004 Rev 5 – Administrative BCR – Create Lower Level Task Order (LLTO) WBSs for Cost Collection Established in the Month of March
- VG&A-20-001 - Create a Level 5 WBS for COVID-19 Planning to Collect Cost
- VSWS-20-006 - Create Level 5 WBS for BIO Government Personal Property Disposition and Move Budget from SWS-UB

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	FY20 Budget	FY20 Management Reserve	Post Contract Budget	Post Contract Mgmt Reserve	Total Lifecycle	Cum Lifecycle Budget
Prior PMB Total	Jan 2020	1,230,506		1,230,506	1,230,506	244,760		1,713,713		2,944,218	2,944,218
VMSA-20-004 Rev 5						0		0		0	2,944,218
VMSA-20-016						0		0		0	2,944,218
VMSA-20-017 Rev 2						(1,828)		(1,828)		(1,828)	2,942,390
VMSA-20-030						0		0		0	2,942,390
VMSA-20-033						0		0		0	2,942,390
VMSA-20-034						0		0		0	2,942,390
VMSA-20-035						0		0		0	2,942,390
VMSA-20-036						0		0		0	2,942,390
VMSA-20-037						0		0		0	2,942,390
VMSA-20-039						92		92		92	2,942,481
VSWS-20-006						0		0		0	2,942,481
Revised PMB Total	Feb 2020	1,230,506		1,230,506	1,230,506	243,023		1,711,976		2,942,481	
Prior Non-PMB Total	Jan 2020	604,007		604,007		108,154		815,384		1,419,390	1,419,390
VMSA-20-004 Rev 5						0		0		0	1,419,390
VG&A-20-001						0		0		0	1,419,390
Revised Non-PMB Total	Feb 2020	604,007		604,007		108,154		815,384		1,419,390	
Total Contract Performance Baseline	Feb 2020	1,834,513		1,834,513	1,834,513	351,177		2,527,360		4,361,872	
Management Reserve	Jan 2020		0	0			2,447		2,447	2,447	2,447
VMSA-20-039							(92)		(92)	(92)	2,355
Revised Management Reserve	Feb 2020		0	0			2,355		2,355	2,355	
Total Contract Budget Base	Feb 2020			1,834,513				2,529,715		4,364,227	
Prior Fee Total	Jan 2020	109,961		109,961		18,212		127,786		237,747	237,747
Revised Fee Total	Feb 2020	109,961		109,961		18,212		127,786		237,747	
Change Log Total	Feb 2020			1,944,473				2,657,501		4,601,974	



11.0 RISK MANAGEMENT

March Risk Management efforts, aiding in completing the overall MSA risk determination, included the following:

- Mission Risk Management:
 - Due to the new teleworking directive, formal Mission risk reviews did not take place in March. As a result, the only changes made to Mission risks were Administrative in nature and did not affect the overall risk posture. Due to this, no RMB meeting was held.
- Project Risk Management:
 - Reliability Project Risk Review and Updates: A monthly risk review was performed with the Project Managers to review and revise the Reliability Project risk registers for all active projects. Updates to these risk registers were captured as appropriate.
 - Zero New Project Risks were opened
 - Eight Project Risks were closed:
 - Three for Project L-357, *Replace 12" Potable Water Line to 222-S Lab*
 - One for Project L-603, *Chip Seal Route 3, Rt. 11A to Rt. 4S*
 - One for Project L-781, *181D Vertical Turbine Pump*
 - One for Project L-826, *181B Vertical Turbine Pump*
 - One for Project L-853, *200E Sewer Flow Equalization Facility*
 - One for Project L-921, *Telecom Hut at Met Tower*
 - Thirty four Project Risks were re-characterized
 - One for Project L-534, *Overlay Cypress Street*
 - One for Project L-603, *Chip Seal Route 3N (Route 11A to Route 3)*
 - Five for Project L-781, *181D Vertical Turbine Pump*
 - Three for Project L-826, *181B Vertical Turbine Pump*
 - Two for Project L-839, *12" Potable Water Line to 222-S Lab*
 - One for Project L-849, *Replace 200E 1.1M-gal PW Tank*
 - One for Project L-850, *Replace 200W 1.1M-gal PW Tank*



- One for Project L-853, *200E Sewer Flow Equalization Facility*
- One for Project L-854, *200E Sewer Consolidations*
- Twelve for Project L-861, *Single Circuit Distribution Pole Replacement*
- One for Project L-879, *Overlay Cypress Street*
- One for Project L-883, *Chip Seal Rt 10, SR-240 to WYE Barricade*
- Four for Project L-921, *Telecom Hut at Met Tower*
- Risk Management staff reviewed the monthly Operations Project Reports for each Reliability Project, and any related Key Risks for monthly reporting to RL.
- Other Support:
 - Completed Risk Analysis Reports for all Phase II projects
 - Completed as Probabilistic Cash Flow report used to determine FY 2020 Management Reserve Needs
 - Enterprise Risk and Opportunity Management System (EROMS):
 - Ongoing meetings were held with software engineers and Risk representatives from DOE-RL and the other Hanford contractors to discuss the status of the ongoing requests in the newest version. This version is schedule to be implemented in the spring.



12.0 DASHBOARD SUMMARY

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

		March Fiscal Year 2020 PEMP Mod 876	
		Deliverables	YTD Mar
1.0 Effective Site Cleanup - Achievement of cleanup contractors' key milestones and regulatory commitments			
		Demonstrate that the following performance measure targets were met.	
	a	Biological Controls – Pest Removal ≥85% 3-business-day completion	
	b	Biological Controls – Tumbleweed Removal ≥80% 15-business-day completion	
	c	Biological Controls : Vegetation Pre- Emergent; ≥85% on-time campaign fulfillment; Selective; ≥85% on-time campaign fulfillment; Non-Selective; ≥85% on-time campaign fulfillment	
	d	Reserved	N/A
	e	Contractor Assurance - Causal Analysis ≥80% causal analysis completed within 45 days	
	f	Contractor Assurance - Issues Resolved ≥90% of issues screened within 5 days of initiation	
	g	Crane and Crew Support: ≥85% 2-business-day turnaround time and ≥85% 1-business-day turnaround time (emergency requests)	
	h	Facilities Maintenance ≥85% on-time completion	
	i	Fire Protection System Maintenance ≥90% of annual goal of 2,639 activities	
1.1	j	Fire Systems - Priority 1 Emergency Impairments ≤3 open Emergency Impairments at month end	
	k	Fire Systems - Priority 2 System Restrictions ≤18 total System Restrictions Priority 2 (SR-2) at end of each month	
	l	Fire Systems - Priority 3 System Restrictions ≤40 total System Restrictions Priority 3 (SR-3) at end of each month	
	m	Fleet Services – Heavy Equipment Cranes; ≥70% in service - Cranes	
	n	Fleet Services – Heavy Equipment Excavators ≥90% in service - Excavators	
	o	Fleet Services – Heavy Equipment General Purpose; ≥90% in service	
	p	Fleet Services – Light Equipment Hanford Patrol; ≥90% in-service	
	q	Fleet Services – Light Equipment Hanford Fire; ≥85% in-service	
	r	Fleet Services – Light Equipment Special Purpose; ≥90% in-service	
	s	IT-Cyber Security – System Patching: ≥97% 7-business-day turnaround time (desktops) and ≥97% 14-business-day turnaround time (databases/servers)	
	t	RSS - Dosimetry External Services: ≥95% 10-business-day turnaround time (routine exchanges) and ≥95% 30-business-day turnaround time (annual exchanges)	
	u	RSS - Instrumentation Calibration ≥90% 10-day turnaround time	

LEGEND

= On Schedule

= Objective missed

= Not Applicable (Updated quarterly)

= Complete

= In jeopardy

Presently MSA’s performance is on target (green) for 21 out of 21 performance measures to year-to-date parameters. Extension of the site closure in April is expected to intensify the situation.

1.1.g Crane and Crew Support – Red in March, Green Overall: The first week of March, Crane and Rigging’s ability to support customers was directly affected by the 2101M facility asbestos event, and the majority of scheduled work activities were canceled. On March 18, 2020, a stop work was issued due to COVID-19. All remaining scheduled work was canceled. Crane and Rigging, is however, continuing to support emergent work.

1.11 Fire Systems Priority 3 Emergency Impairments – Yellow in March, Green Overall: Fire Systems Maintenance’s (FSM) ability to reduce the backlog was affected by reduced firefighter support for Inspection Testing and Maintenance (IT&M) work, and impacts of COVID-19 pandemic.

Due to the work restrictions imposed by the Hanford Site response to COVID-19, FSM was unable to complete a number of planned maintenance activities, both corrective and preventive. Additionally recent attrition of firefighter and paramedic personnel has resulted in Hanford Fire Department (HFD) operating at reduced staffing levels. HFD is working with MSA Human Resources to develop a recruitment and retention plan.



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

March Fiscal Year 2020 PEMP Mod 876			YTD	Mar	
Deliverables			YTD	Mar	
1.0 Effective Site Cleanup - Achievement of cleanup contractors' key milestones and regulatory commitments					
Demonstrate effective management of electric, water and sewer utilities to maximize reliability and redundancy					
1.2	Water	Maintain Raw Water Pressure at ICD Level			
		Maintain Potable Water Pressure at ICD Level			
		Perform Preventative maintenance at 90% or better each month			
		Maintain backlog corrective maintenance average age of open work packages to 250 days or less			
		Ensure all water quality samples are completed on time			
			Quarterly System Health Report by Engineering submitted one calendar month after each quarter		N/A
	Sewer	Perform Preventative maintenance at 90% or better each month			
		Maintain backlog corrective maintenance average age of open work packages to 450 days or less			
		Quarterly System Health Report by Engineering submitted one calendar month after each quarter		N/A	
	Electric	Electrical power availability			
Perform Preventative maintenance at 90% or better each month					
Maintain backlog corrective maintenance average age of open work packages to 300 days or less			On Hold		
Quarterly System Health Report by Engineering submitted one calendar month after each quarter			N/A		
1.3	Maximize efficient MSA use of resources to meet the other Hanford contractors' changing project needs.				
2.0 Efficient Site Cleanup - Align resources and capabilities to support the site cleanup mission					
Demonstrate effective Hanford Site integration to include, but not limited to, identify longstanding or emerging issues that affect efficient site operations and provide recommendations for improvement.					
2.1	a	Hanford Site Strategic Document Hierarchy – Submit the Strategic Document Hierarchy including Hanford Lifecycle Cleanup Baseline Integrated Project Team (IPT) -approved business rhythm incorporation.			
	b	HLCCB Scope Gap Closure – Submit HLCCB scope, assumptions, interfaces, completion criteria documentation to DOE in support of gap closure (at least 50 percent).			
	c	Integrated Portfolio Cost Data Platform – Develop integrated portfolio cost data platform including DOE-RL pricing capability, contingent on DOE provision of key information for development.			
	d	Final Strategic Integrated Priority List Protocol – Evaluate, provide recommendations, and incorporate comments from DOE sponsors to develop the plan to incorporate HLCCB into DOE integrated priority list process.			
	e	Hanford Programmatic Risk Management Plan – Finalize the Hanford Programmatic Risk Management Plan and submit to DOE for approval.			
	f	Direct Feed Low Activity Waste (DFLAW) Dashboard – Finalize in production the DFLAW Dashboard based on Phase 1 requirements.			
	g	Conduct Operational Excellence Events: 40% of MSA's FY20 Operational Excellence events will be focused on cross-cutting inter-contractor Site integration opportunities.			

LEGEND

= On Schedule

= Objective missed

= Not Applicable (Updated quarterly)

= Complete

= In jeopardy

1.2.3.b Electric Preventative and Corrective Maintenance Backlog – Red for March, Green Overall:

Performance of PMs in March was also hampered by the discovery of asbestos in the 2101M facility, which left Electrical Utilities workers without the necessary Personal Protective Equipment (PPE) to perform field work. PMs completed in March of 2020 were only those that were deemed essential. There were 11 cancelled PMs due to the COVID19 situation. Monthly on-time completion suffered this month; however, the Annual on-time completion is still at 96%.



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

March Fiscal Year 2020 PEMP Mod 876			Deliverables		YTD	Mar	
2.0 Efficient Site Cleanup - Align resources and capabilities to support the site cleanup mission							
2.2	Demonstrate consolidation of the Hanford Site infrastructure footprint.					On Hold - Work on-track until Site min-safe closure.	
	a	Electrical Utilities (EU) footprint reduction projects: 1) Complete Phase II of Riverland Feeder removal 2) Complete removal of 105c power poles 3) complete removal of U Plant power poles					
	b	300 Area 3220 Facility footprint reduction – Move all MSA Records personnel from the 3220 Facility, and consolidate backbone Information Technology systems to include fiber optic backbone, Hanford Local Area Network distribution systems, and special applications systems to the northeast section of the 3220 Facility.					
	c	Implement high-capacity fiber optic backbone across key Central Plateau facilities – Construct fiber optic backbone cable interconnecting 2220E, 2506E3, 2506E4, 2506E2, and 2506E1 Information Management facilities to include fiber termination and optical time domain reflectometer (OTDR) testing.					
2.3	Demonstrate effective development and management of reliability projects that ensure mission milestones and regulatory						
	a	Project L-897, “200 Area Water Treatment Plant” 1) Issue an approved/released final design by 4/9/20 [Schedule ID L-897-3170] 2) Complete and approved statement of work for Construction by 5/14/2020 [Schedule ID L897-5030]					
	b	Project L-850, “Replace 200W 1.1M-gallon PW Tank” 1) Award the L-850 construction contract by 4/9/2020 [Schedule ID L850-8350]					
	c	Project L-612, “230kV Transmission System Reconditioning and Sustainability Repairs” 1) Complete approved 30% design by 3/12/2020 [Schedule ID L612-1060]					
	d	Project L-853, “200E Sewer Flow Equalization Facility” and L-854, “200E Sewer Consolidation” 1) Sewer system fully operational by 4/30/20					On Hold
TOTAL OBJECTIVE FEE POOL							

LEGEND

= On Schedule

= Objective missed

= Not Applicable (Updated quarterly)

= Complete

= In jeopardy



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

March Fiscal Year 2020 PEMP Mod 876		YTD	Mar
Deliverables			
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.			
Provide leadership to improve management effectiveness and collaborate and participate proactively with customers.			
Work with DOE and the other Hanford contractors in a spirit of cooperation to demonstrate operational excellence to include, but not limited to, the following areas:			
a	Business and financial management using approved purchasing, estimating, property, budget, planning, billing, labor, accounting, and performance measurement systems, providing visibility and transparency to DOE with respect to each of the forgoing		
b	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		
c	Safeguards and security, fire department operations, emergency response, and emergency operations/emergency		
d	Land Management		
e	Infrastructure and services program management, operations and maintenance		
f	Effective contractor human resources management		
g	Problem identification and corrective action implementation		
Performed work safely and in a compliant manner that assures the workers, public, and environment are protected from adverse consequences			
Take proactive and effective actions to ensure and accomplish a smooth contract transition.			
Take proactive and effective actions to close and reduce contract closeout actions to effectively reduce efforts needed when the MSC enters its closeout period.			
TOTAL COMPREHENSIVE FEE POOL			
TOTAL FEE POOL* (Adjusted for Contract Modifications: N/A)			

LEGEND

 = On Schedule

 = Objective missed

 N/A = Not Applicable (Updated quarterly)

 = Complete

 = In jeopardy

13.0 CONTRACT DELIVERABLES STATUS

The following itemizes the contract deliverables due to RL in March 2020, and also provides a look ahead through April 2020.

Table 12-1. March 2020 – April 2020 Contract Deliverables

CDRL	Deliverable	Responsible	Date Due	Date Submitted to DOE	RL Action	Response Time	Date Due from DOE	Date Approved by DOE
CD0123	Monthly Billing Reports for DOE Services - Feb	Eckman / Combs	03/05/20	03/02/20	Information	N/A		
CD0144	Monthly Performance Report - Jan	Millikin / Benham	03/10/20	03/10/20	Review	None		
CD0036	Hanford Site Prescribed Fire Plan	Walton / Kuhman	03/30/20	03/05/20	Approve	30 days	04/04/20	
CD0037	Hanford Fire Needs Assessment	Walton/Kuhman	03/30/20	01/28/20	Approve	45 days	03/13/20	
CD0084	Bonneville Power Administration (BPA) Power and Transmission Service invoice verification and breakdown of site contractor costs - Jan	Synoground / Caudill	03/30/20	03/26/20	Review	30 days		
CD0020	Transmitter Review	Walton / Palmer	03/31/20	03/19/20	Approve	60 days	05/27/20	
CD0123	Monthly Billing Reports for DOE Services - Mar	Eckman / Combs	04/05/20	03/26/20	Information	N/A		
CD0124	Quarterly Service Level Report	Eckman / Combs	04/10/20	04/08/20	Information	N/A		
CD0144	Monthly Performance Report - Feb	Millikin / Benham	04/10/20	04/08/20	Review	None		
CD0178	Quarterly Manpower Reports and Budget Forecasts	Walton / Giulio	04/12/20	03/31/20	N/A	N/A		
CD0023a	National Security System (NSS) - Quarterly Status Report	Walton / Bernard	04/20/20	04/07/20	Review	N/A		
CD0030	HAMMER Strategic Plan	Bates/Vandevent	04/30/20		Review	30 days		
CD0084	Bonneville Power Administration (BPA) Power and Transmission Service invoice verification and breakdown of site contractor costs - Feb	Synoground / Caudill	04/30/20		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.



13.1 GOVERNMENT-FURNISHED SERVICES/INFORMATION AND DOE DECISIONS

Due to a change to the Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement), Government-Furnished Services and Information (GFS/I) items will no longer be due to MSA this year. Previously, two GFS/I items had been due to MSA:

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

However, the Lifecycle Report has been placed on a three-year cycle to align with the Tank Waste system-planning schedule. As such, the next Hanford Lifecycle Report is now to be submitted by January 31, 2022.



14.0 SELF-PERFORMED WORK

Table 13-1. Mission Support Contract Socioeconomic Reporting.

Through March 2020

Plan Category	MSA Goal	FY 2020 Actual To-Date	Cumulative %
Small Business	50.0%	78.1%	83.4%
Small Disadvantaged Business	10.0%	18.1%	20.1%
Small Women-Owned Business	6.8%	26.0%	16.4%
HubZone	2.7%	12.3%	7.0%
Small Disadvantaged, Service Disabled	2.0%	9.4%	7.7%
Veteran-Owned Small Business	2.0%	9.9%	8.9%

Prime Contract Targets:

- At least 40% contracted out beyond MSA, LLC = 35.8% (\$1.647B/\$4.602B)
- Small Business 25% of Total Mission Support Contract (MSC) Value = 30.0% (\$1.373B/\$4.602B)

Disclaimer: A correction of previously reported large business subcontract costs has been incorporated as of August 2019 per MSA Letter MSA-1902252A R3. However, a dispute currently exists regarding the categorization of certain costs as subcontractor costs versus self-performed costs. MSA maintains the costs are accurate as reported but understands DOE may dispute the categorization of costs. See DOE OIG Draft Report issued May 31, 2019. MSA reserves all rights and remedies related to its subcontractor/self-performance reporting.



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