

# MISSION SUPPORT ALLIANCE

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



# Monthly Performance Report

## April 2020

**R. E. Wilkinson**  
**President**

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



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# ACRONYMS LISTING



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

## TERMS

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 April 2020.

### 1.1 KEY ACCOMPLISHMENTS

**MSA Coronavirus (COVID-19) Response** – MSA, as a part of the Hanford Site, continued to operate in an essential mission-critical operations posture during April. In response to the COVID-19 pandemic, and in support of the ensuing DOE directives for keeping the Hanford Site safe and secure, MSA's notable COVID-19-related actions included the following:

- An integrated COVID-19 Site tracking tool was created for use by the Hanford Site. The tool, with instructions, was distributed to the other Hanford contractors for review. The integrated Site data supported development of a Hanford Portfolio Remobilization Plan for DOE.
- MSA held remobilization briefings with more than 150 managers, directors and employees to help prepare for MSA's eventual, phased, return to work approach.
- MSA is maintaining an accurate accounting of costs for COVID-19 planning, training, associated absent labor hours and other pandemic related activities. Applicable costs identified in the COVID-19 Advance Agreement for cost allowability will be incorporated into a Request for Equitable Adjustment under the Prime Contract, in accordance with the Change Order Accounting requirements of FAR 52.243-6.
- The Volpentest HAMMER Federal Training Center remobilization planning has included identifying a course that can be delivered virtually, setting up all classrooms that may be used to incorporate social distancing, adding custodial staff for regular daily cleaning, and performing a deep cleaning of the facility every other week.
- MSA's SAS Central Badging Office recently arranged to have special parking signs installed on the north side of the Central Badging Office facility. This will allow Site personnel to remain in their vehicles as they wait to tend to their



badging needs, which will limit the number of personnel inside of the badging office as an additional social distancing enhancement.

- Additional notification scripts were developed for inclusion in HNF-IP-0858, *Public Health/Hanford Site Notifications – COVID-19*.

During April, despite the restrictions associated with COVID-19, MSA made good progress in a number of work areas. Some of these accomplishments included:

**Expressions of Interest Sought for Water Treatment Plant** – On April 24, 2020, MSA posted an Expression of Interest (EOI) on the System Application Management System (previously, Fed Biz Ops) for the Project L-897, *Central Plateau Water Facility*. The EOI is inviting expressions of interest from vendors to build a new 10,000-square-foot microfiltration membrane water treatment plant. The plant would be located in the 200 West Area of Hanford. Along with construction of the facility, the project will include site grading, connecting underground utilities, installation of a new transformer and backup generator, water main extensions, and development of paved parking areas and systems for storm water collection system and fire suppression. A formal request for proposals (RFP) is anticipated later this spring.

**Safe Work Hours Achieved** – MSA achieved over one million safe work hours between December 14, 2019 and April 30, 2020, without a days away from work injury.

**Conversion of Site Forms for Electronic Signature** – MSA is converting 3,700 site forms to allow approval via electronic signature. To support the Hanford Site’s telecommuting workforce, the Service Catalog Team is expediting “Rush” requests for revising site forms and completing revisions by the customer’s requested completion date. One example: MSA Interface Management staff supported Washington River Protection Solutions LLC (WRPS) personnel in submitting a Service Catalog request to update a key Hanford Fire Department Site Form, making the form approvable electronically, rather than the previously mandated hard copy signature.

**Personal Protective Equipment Shipments to Federal Emergency Management Agency (FEMA)** – In April, MSA Property and Warehouse Management (P&WM) staff coordinated the gathering and shipment of 100 boxes of latex and nitrile gloves, and of 650 Tyvek<sup>1</sup> suits to a FEMA warehouse in Louisville, Kentucky. These requirements were transmitted separately by DOE-RL to MSA on April 24, 2020, and April 28, 2020,

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<sup>1</sup> Tyvek is a brand of flashspun high-density polyethylene fibers, a synthetic material; the name is a registered trademark of the DuPont Company, headquartered in Wilmington, DE.

but both cargo sets were prepared for shipping and shipped out the same afternoon each of the requests was received.

Approval for New 1.1 Million-Gallon Water Tank – Washington State Department of Health (WDOH) provided approval for Project L-850, *Replace 200W 1.1M-gal PW Tank*, to replace a potable water storage tank in the 200 West (200W) Area. The WDOH approval process for Project L-850 began in October 2019 and was completed in April 2020, after multiple review comment/disposition periods and meetings with DOE and WDOH. Project L-850 serves a critical role in the future water system upgrades to support the forecasted sanitary water demands on the Hanford Site. The new tank will serve as the dedicated clearwell for the new Central Plateau Water Treatment Facility, providing storage for both the sanitary water distribution system and the fire suppression water supply.

**Decommissioning of Lift Station** – In March 2020, MSA Water and Sewer Utilities (W&SU) workers were notified of a sewer system backup at the MO-159 trailer, which supports WRPS Tank Farms personnel. Upon investigation, it was discovered that the level controls of the lift station had failed. W&SU staff evaluated the situation, determining that the sewer line from the facility could be re-routed to bypass the lift station, and then re-connected downstream, enabling a complete gravity flow of the wastewater. This bypass allowed for the decommissioning of the existing lift station, which provided future cost avoidances of maintaining that equipment. On April 22, 2020, MSA W&SU and Maintenance teams excavated, installed new collection piping, and made tie-ins to the existing trailer discharge point to the downstream gravity collection line. The new line passed the leak inspection tests, was backfilled, and put into service by the end of the day. The existing lift station will now be planned for closure at a future date.



*Excavation to reroute sewer line*

**Mitigating Nesting in Cranes** – In April, the MSA Crane & Rigging staff worked closely with the MSA Biological Controls organization to mitigate migratory bird

nesting in Site mobile cranes. In the past, numerous bird nests have been discovered in cranes, resulting in the cranes being out of service for six to eight weeks at a time. There are also safety concerns if a nest should be located next to an engine's exhaust, which could create a fire hazard. There are a couple of avenues for mitigating nesting in these cranes: one, simple periodic movement (birds tend not to nest in a piece of equipment that is frequently being moved), and two, to coat the equipment with a bird deterrent solution.



*Moving and coating cranes with bird deterrent discourages nesting*

**Spring Assessment of Weirs in Evaporate Sewer Lagoon** – In April, W&SU operators lowered the levels of the 6608 Evaporate Sewer Lagoon in order for pipefitters to assess and make repairs to any weirs (low dam walls) affected by the previous winter's cold weather freezing conditions. The 6608 Lagoon consists of two redundant treatment trains, each containing a series of three treatment lagoons. As wastewater traverses through each of the lagoons, the weirs on the outgoing pipes of each lagoon play an integral role in controlling flow rates of water from one lagoon to the next. Assessing the weirs is a key activity each spring.



*Weirs in evaporate sewer lagoon*

**Budget Formulation Support to DOE-RL**– At the request of DOE-RL, Portfolio Management (PFM) Budget Formulation staff began evaluating an approach to automate the General Plant Projects (GPP) Checklist. The evaluation included reviewing the DOE-provided upper level business flow for consistency with the written instructions; reviewing GPP Checklist examples provided by DOE-RL; and initiating the development of a detailed work flow chart (currently in

internal review). Additionally, PFM and the DOE-RL point of contact discussed progress on the effort to convert the GPP Checklist into an automated program. PFM is now involving its Information Management staff in determining the best path forward for automation.

**Storage Solution for Washington River Protection Solutions, LLC (WRPS) – MSA**  
P&WM staff worked with WRPS’ Effluent Treatment Facility (ETF) personnel to resolve a storage issue for 43 large empty “totes.” ETF did not have room to store them at the facility, so they will be stored in MSA’s laydown storage Yard #4 in the 200 Area. The totes are to be used for storing a brine byproduct of the ETF process, as a part of a pilot project to allow ETF overall quicker material throughput.



*Carriers loaded with totes to be stored by MSA*

**Offsite Waste Shipment** – MSA Environmental Compliance & Sustainability personnel supported mission essential critical operations by supporting two offsite waste shipments from the HS-0034 Central Accumulation area in April. The first shipment consisted of two containers of previously unknown waste from the 181B facility. A 30-day extension to the 90-day accumulation time limit was granted by the State of Washington, Department of Ecology due to the timeline for sampling, waste characterization and designation, as well as the subsequent shipment to Perma-Fix Environmental Services in Kingston, Tennessee for treatment. The second shipment was for three hazardous waste containers that were sent to Clean Harbors Environmental Services at Aragonite, Utah.



*Hazardous waste containers loaded for shipment.*

**Central Badging Implements Improvements** – The Central Badging Office (CBO) is making continuous improvements in response to the Hanford Site’s change to essential mission critical activities. In order to enforce social distancing, changes have been made to processes for obtaining credentials for both physical and logical access to the Hanford Site and applicable systems. Changes include offering a curbside

*Badging Curbside Service signage*





service, electronic verification of training, remote servicing of Logical Access Control System and Personal Identity Verification credentials, all while maintaining the integrity of the badge process.

**Hanford Mobile Application Upgrade** – The custom-developed mobile application *Mobile-Hanford.gov* delivers information related to the Hanford.gov website, such as weather alerts, Emergency Operations Center information, employee advisories, and an employee look-up function. Recently, MSA Software Engineering Services (SES) personnel coordinated with the MSA President’s Office,, and company presidents of the other Hanford contractors to make data more widely available on the Hanford mobile application, and better in communicating crucial, yet extremely dynamic, COVID-19 information. Making this data available on the Hanford mobile app allows for better distribution of critical information to the Hanford workforce.

**Support to Hanford Advisory Board (HAB)** – During April, MSA External Affairs’ staff support to the HAB included the following activities:

- Reviewed and edited the Hanford Advisory Board Process Manual by converting the 30-page document to Associated Press style guide, editing numerous bulleted lists, and cutting redundancies.
- Participated in the kick-off meeting with DOE to discuss the upcoming HAB Committee of the Whole (COTW) meeting planned for October. Efforts included scheduling the meeting, developing a meeting agenda and taking notes.
- Collaborated with DOE on responses to the HAB and provided details of ongoing public comment periods. In addition, MSA personnel took extensive notes, completed follow-up actions and drafted the meeting summary for the DOE senior management.

**Time Information System (TIS) Automation Implemented** – In March, when employees were ordered home due to the COVID-19 pandemic, there were many employees who had no access to TIS, and their managers had to create and submit timecards for them to ensure they were paid. After a combined effort on the part of MSA Disbursements Accounting and MSA Information Management functional analysts and programmers, the project to automate TIS time card reporting was implemented. Within one month -- in time for April’s time card reporting – the TIS timecard automation program successfully created, filled out, and submitted 1,104 timecards in just 6 minutes and 3 seconds. Normally a process that would take several



hours, this automation effort proved to be a tremendous time and error-saver over a manager filling out timecards and passing them on to another manager to approve.

**Benefits Plan Updates** – During the month of April, there were several large pieces of benefit-related Federal and State legislation. Among these was the 2020 Coronavirus Aid, Relief, and Economic Security Act (CARES). This act modifies the IRS 213d eligible expense list to include over the counter drugs and medications not prescribed by a physician. MSA Human Resources worked with MSA’s legal staff to understand the impacts, with the other Hanford contractors to communicate workplace impacts, and with MSA’s health care providers to make sure that necessary updates were made to MSA’s plans.



## 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 following recommended best practices from National Institute of Standards and Technology (NIST), 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 for completion of Phase 1, the “Active Directory” component, currently the main focus. The project is progressing, not significantly impeded by COVID-19 impacts. Phase 2 (“Database Service Accounts”), and Phase 3 (“Legacy Applications”) are being worked concurrently, but with different resources and different likely end dates.

**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	\$126.5	\$28.3
RL-0020	Safeguards & Security	\$91,005.3	\$60,184.3	\$46,769.2	\$13,415.1
RL-0040	GSI and Spares Inventory	\$1,708.5	\$1,708.5	\$204.7	\$1,503.8
RL-0201	Reliability Projects, HAMMER, B-Reactor	\$98,707.9	\$54,541.5	\$25,964.2	\$28,577.3
SWS	Site-Wide Services	\$229,296.7	\$170,698.1	\$117,066.7	\$53,631.4
<b>Total</b>		<b>\$420,873.2</b>	<b>\$287,287.2</b>	<b>\$190,131.3</b>	<b>\$97,155.9</b>

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 896, dated May 18, 2020.

Based upon FY20 forecast the remaining uncosted balance will fund SWS through July 14, 2020, RL-20 through June 22, 2020, and HAMMER through July 8, 2020.



## 3.0 SAFETY PERFORMANCE

During the month of April, there were no reported incidents that classified as a “Recordable” injury. Therefore, the fiscal year 2020 total recordable case (TRC) rate is 0.41 and the days away restricted or transferred (DART) rate is 0.33. Both rates are below the DOE performance measurement baseline of 1.1 and 0.60, respectively. Two First Aid cases were recorded, which is below the average for a given month. First Aid cases are closely monitored to determine emerging trends and implement awareness activities, as warranted.

MSA revised and issued Management Directive MSC-OTHER-SP-120039, *MSA General Hazard Analysis*, and other management directives that address epidemic/pandemic related concerns. These documents address the potential hazard, related control measures, and administrative actions to actively monitor the guidance from federal, state and local agencies, and take the most feasible and practical approach to each situation. Timely communications continue to be distributed 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.

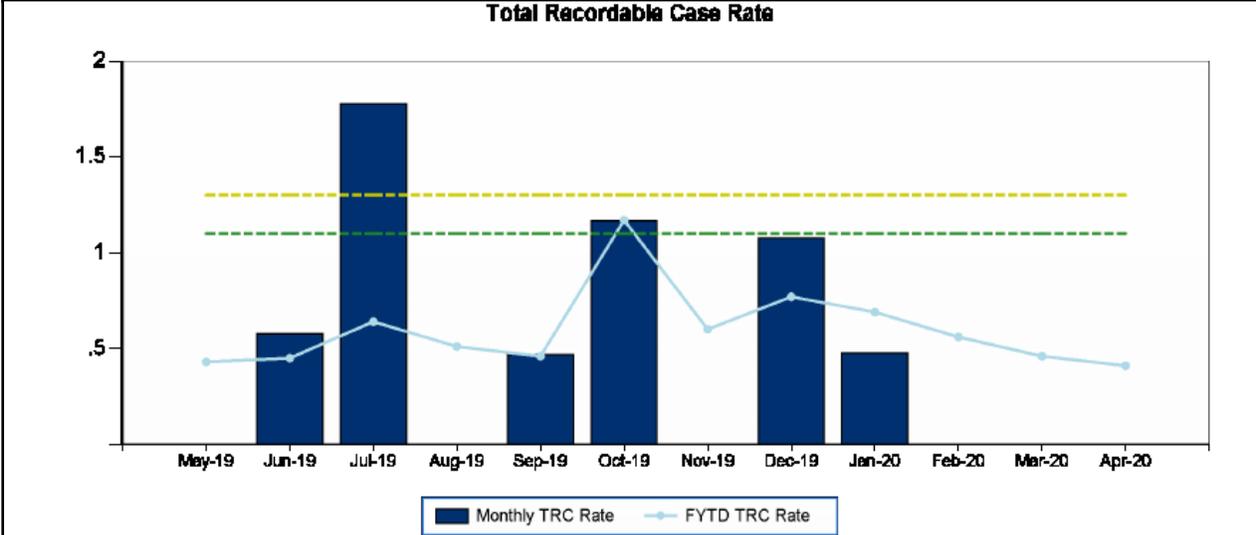


Table 3-1. Total Recordable Case Rate, (TRC)

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	2019-05	2019-06	2019-07	2019-08	2019-09	2019-10	2019-11	2019-12	2020-01	2020-02	2020-03	2020-04
Monthly TRC Rate	0	.58	1.78	0	.47	1.17	0	1.08	.48	0	0	0
FYTD TRC Rate	.43	.45	.64	.51	.46	1.17	.6	.77	.69	.56	.46	.41
CYTD TRC Rate	.45	.47	.79	.55	.48	.59	.55	.59	.48	.26	.18	.14
Monthly Recordable Cases	0	1	3	0	1	2	0	2	1	0	0	0

**Analysis**  
During the month of April, 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 0.41.

- 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:

- Continued communicating details on the revision of MSC-OTHER-SP-1200369, MSA General Hazard Analysis, that incorporates the hazard and controls for the COVID-19 pandemic
- Issued several senior leadership communications focused on social distancing and personal hygiene protocols
- Provided extensive remobilization training and guidance to management in preparation of eventual notice to return to work
- Maintained expanded telecommuting policy for MSA personnel
- Issued General Delivery notice to alert workers of increased deer and elk activity along Hanford roadways
- Highlighted the following 24/7 safety topics in Weekly Safety Starts: (1) General Hazard Analysis which discusses the most recent hazard, COVID-19; (2) COVID-19 Scam, focused on recognizing scams, hoaxes and phishing emails; (3) Earth Day; and (4) 2020 safety goals established to concentrate on areas that could be improved throughout the calendar year



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

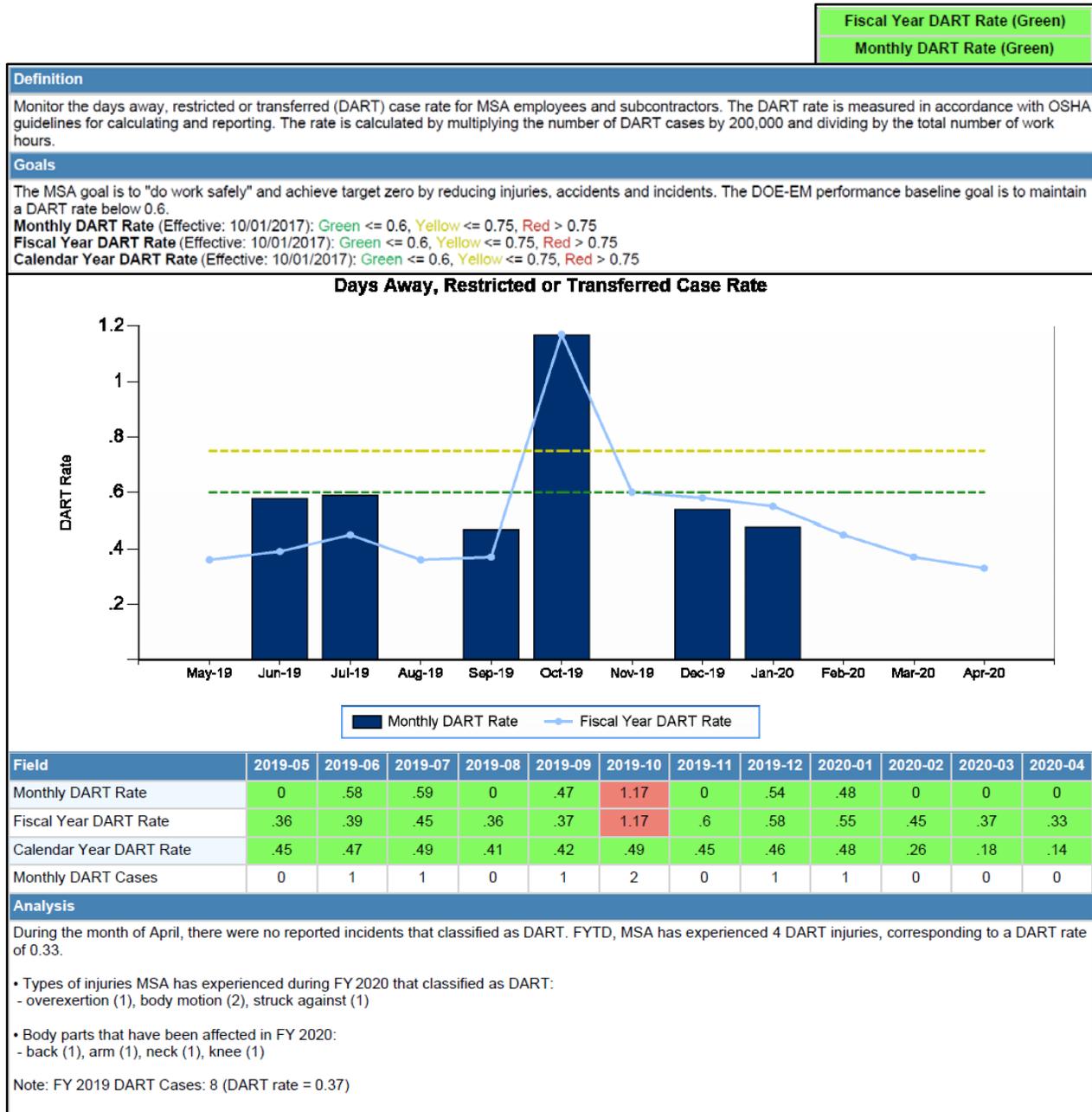
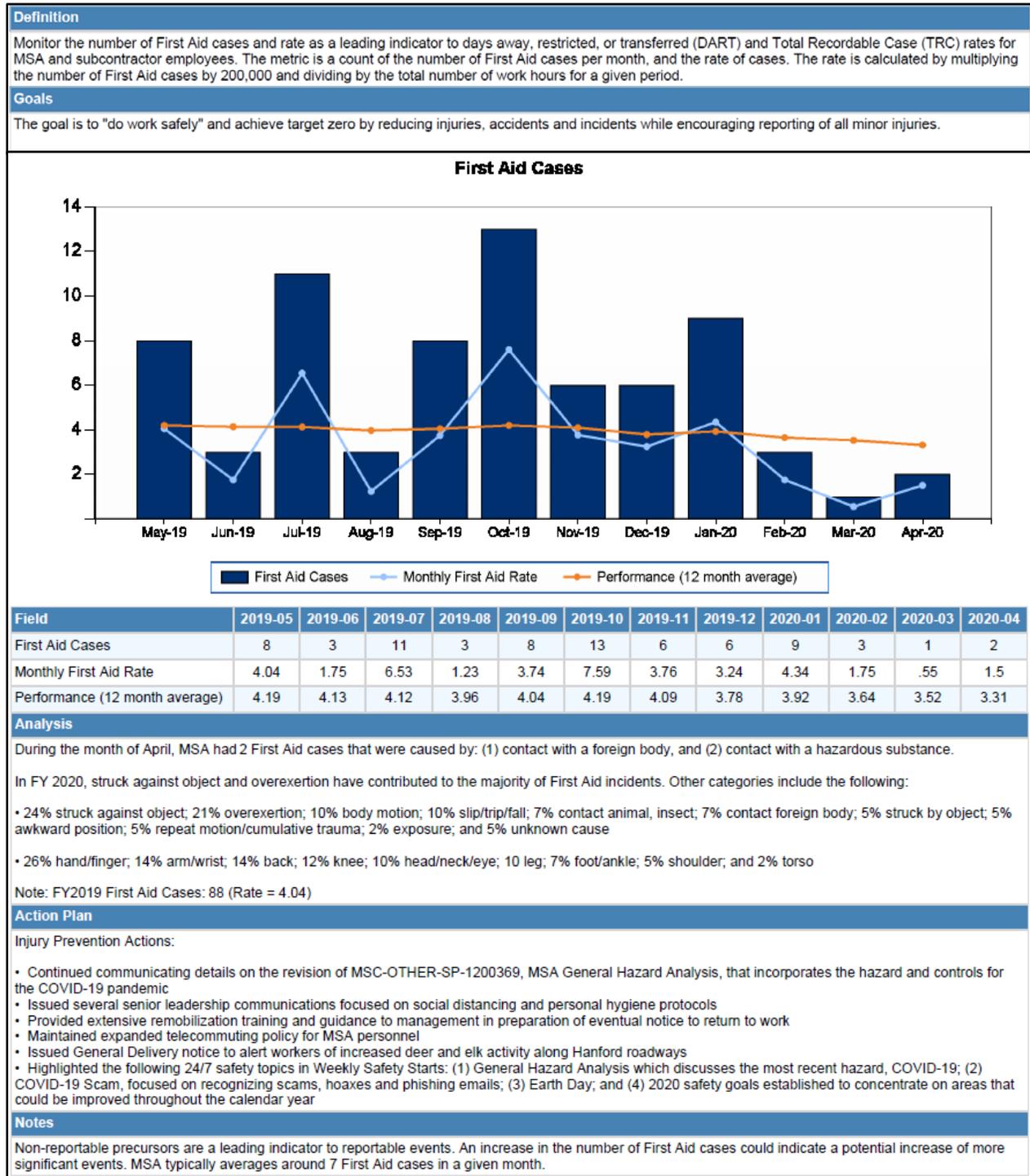




Table 3-3. First-Aid Case Rate





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

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

CONTRACT PERFORMANCE REPORT												DOLLARS IN Thousands			FORM APPROVED OMB No. 0704-0188	
FORMAT 1 - WORK BREAKDOWN STRUCTURE																
1. Contractor		2. Contract			3. Program			4. Report Period								
a. Name		a. Name			a. Name			a. From (2020/03/23)								
Mission Support Alliance		Mission Support Contract			Mission Support Contract											
b. Location (Address and Zip Code)		b. Number			b. Phase			b. To (2020/04/26)								
Richland, WA 99352		RL14728			Operations											
c. TYPE		d. Share Ratio			c. EVMS ACCEPTANCE											
CPAF					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	\$4,505,822		N/A	N/A		N/A			
6. ESTIMATED COST AT COMPLETION																
				CONTRACT BUDGET BASE (2)		VARIANCE (3)		7. AUTHORIZED CONTRACTOR REPRESENTATIVE								
								a. NAME (Last, First, Middle Initial)				b. TITLE				
								Wilkinson, Robert E				MSC Project Manager				
								SIGNATURE				d. DATE SIGNED				
												5/21/2020				
8. PERFORMANCE DATA																
Item (1)	Current Period					Cumulative to Date					At Completion					
	Budgeted Cost		Actual Cost Work Performed (4)	Variance		Budgeted Cost		Actual Cost Work Performed (9)	Variance		Budgeted (12)	Estimated (13)	Variance (14)			
	Work Scheduled (2)	Work Performed (3)		Schedule (5)	Cost (6)	Work Scheduled (7)	Work Performed (8)		Schedule (10)	Cost (11)						
a. WORK BREAKDOWN STRUCTURE ELEMENT																
3001.01.01 - Safeguards and Security	6,932	6,932	5,316	0	1,616	658,161	658,161	648,698	0	9,462	663,933	652,911	11,022			
3001.01.02 - Fire and Emergency Response	3,899	3,899	3,453	0	446	290,833	290,833	290,589	0	245	293,952	293,437	514			
3001.01.03 - Emergency Management	467	467	407	0	60	48,048	48,048	47,823	0	225	48,415	48,184	231			
3001.01.04 - HAMMER	1,011	1,011	394	0	617	82,130	82,130	78,185	0	3,946	82,945	78,589	4,356			
3001.01.05 - Emergency Services Management	193	193	73	0	120	17,493	17,493	17,219	0	274	17,646	17,312	334			
3001.02.01 - Site-Wide Safety Standards	175	175	63	0	112	9,480	9,480	10,215	0	(735)	9,579	10,278	(699)			
3001.02.02 - Environmental Integration	355	355	331	0	24	59,385	59,385	58,122	0	1,263	59,678	58,411	1,267			
3001.02.03 - Public Safety & Resource Protection	1,217	1,217	657	0	560	80,928	80,928	78,723	0	2,206	81,907	79,915	1,992			
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	136	136	145	0	(9)	34,297	34,297	33,549	0	747	34,407	33,663	744			
3001.03.02 - Information Systems	760	760	623	0	137	126,502	126,502	124,507	0	1,995	127,102	126,437	665			
3001.03.03 - Infrastructure / Cyber Security	773	773	1,011	0	(238)	52,188	52,188	50,948	0	1,240	52,832	51,735	1,097			
3001.03.04 - Content & Records Management	528	528	576	0	(49)	74,137	74,137	73,480	0	657	74,684	73,958	725			
3001.03.05 - IR/CM Management	179	179	274	0	(95)	16,255	16,255	16,433	0	(177)	16,400	16,596	(196)			
3001.03.06 - Information Support Services	168	168	145	0	23	15,760	15,760	15,778	0	(19)	15,897	15,901	(4)			
3001.04.01 - Roads and Grounds Services	412	412	100	0	311	35,482	35,482	35,841	0	(359)	36,186	36,412	(226)			
3001.04.02 - Biological Services	383	383	279	0	103	41,126	41,126	40,821	0	305	41,432	41,079	353			
3001.04.03 - Electrical Services	1,812	1,812	912	0	900	136,026	136,026	134,771	0	1,254	137,518	135,496	2,022			
3001.04.04 - Water/Sewer Services	1,870	1,870	1,124	0	747	145,106	145,106	143,269	0	1,837	146,708	144,233	2,475			
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	37	37	12	0	25	11,019	11,019	10,947	0	72	11,048	10,957	91			



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

CONTRACT PERFORMANCE REPORT													DOLLARS IN Thousands			FORM APPROVED OMB No. 0704-0188	
FORMAT 1 - WORK BREAKDOWN STRUCTURE																	
1. Contractor		2. Contract			3. Program			4. Report Period									
a. Name Mission Support Alliance		a. Name Mission Support Contract			a. Name Mission Support Contract			a. From (2020/03/23)									
b. Location (Address and Zip Code) Richland, WA 99352		b. Number RL14728			b. Phase Operations			b. To (2020/04/26)									
c. TYPE CPAF		d. Share Ratio			c. EVMS ACCEPTANCE No X Yes												
Item (1)	Current Period			Variance		Budgeted Cost		Actual Cost Work Performed		Variance		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 (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	11	11	3	0	7	776	776	682	0	94	785	687	98				
3001.04.10 - Technical Services	691	691	487	0	203	53,979	53,979	55,182	0	(1,203)	54,427	55,610	(1,183)				
3001.04.11 - Energy Management	146	146	105	0	41	13,280	13,280	12,820	0	460	13,398	12,913	486				
3001.04.12 - Hanford Historic Buildings Preservation	241	241	66	0	175	27,550	27,550	26,176	0	1,374	27,741	26,244	1,497				
3001.04.13 - Work Management	248	248	200	0	48	17,688	17,688	19,103	0	(1,415)	17,913	19,282	(1,370)				
3001.04.14 - Land and Facilities Management	880	880	397	0	483	53,858	53,858	50,801	0	3,057	54,311	51,168	3,143				
3001.04.15 - Mail & Courier	59	59	51	0	8	7,638	7,638	7,681	0	(43)	7,694	7,727	(33)				
3001.04.16 - Property Systems/Acquisitons	713	713	345	0	368	66,802	66,802	66,236	0	565	67,545	66,517	1,028				
3001.04.17 - General Supplies Inventory	92	92	115	0	(23)	2,604	2,604	1,554	0	1,051	2,678	1,679	999				
3001.04.18 - Maintenance Management Program Implementation	89	89	79	0	10	11,170	11,170	11,119	0	51	11,243	11,187	55				
3001.06.01 - Business Operations	1,031	1,031	778	0	254	66,754	66,754	24,837	0	41,916	68,291	25,534	42,757				
3001.06.02 - Human Resources	382	382	265	0	118	29,828	29,828	27,468	0	2,360	30,146	27,693	2,453				
3001.06.03 - Safety, Health & Quality	1,927	1,927	1,364	0	563	195,655	195,655	192,464	0	3,191	197,221	193,628	3,593				
3001.06.04 - Miscellaneous Support	425	425	350	0	75	56,402	56,402	57,045	0	(643)	56,748	57,330	(582)				
3001.06.05 - Presidents Office (G&A nonPMB)	0	0	1	0	(1)	516	516	92	0	424	823	92	731				
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	313	313	197	0	116	62,188	62,188	60,790	0	1,398	62,436	61,006	1,430				
3001.08.01 - Water System	851	1,021	997	169	24	49,779	48,233	35,405	(1,546)	12,828	50,707	38,197	12,511				
3001.08.02 - Sewer System	0	0	11	0	(11)	17,321	17,071	21,248	(250)	(4,177)	17,321	21,924	(4,603)				
3001.08.03 - Electrical System	1,287	200	335	(1,087)	(135)	31,834	29,030	29,569	(2,805)	(539)	32,844	34,545	(1,701)				
3001.08.04 - Roads and Grounds	69	31	14	(38)	17	10,136	10,053	9,468	(83)	584	10,218	9,626	593				
3001.08.05 - Facility System	434	40	140	(394)	(100)	13,410	12,996	13,423	(414)	(427)	14,186	14,757	(570)				
3001.08.06 - Reliability Projects Studies & Estimates	873	873	994	0	(121)	29,487	29,487	31,127	0	(1,639)	30,192	31,889	(1,698)				
3001.08.07 - Reliability Project Spare Parts Inventory	47	47	11	0	35	5,101	5,101	3,677	0	1,424	5,148	3,704	1,443				
3001.08.08 - Network & Telecommunications System	367	273	505	(94)	(232)	34,055	33,423	35,982	(632)	(2,559)	34,460	36,974	(2,513)				
3001.08.09 - Capital Equipment Not Related to Construction	639	0	0	(639)	0	15,769	15,126	13,713	(643)	1,413	15,769	15,131	638				
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	0	125				
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)																	
	33,121	31,037	23,706	(2,084)	7,331	2,891,519	2,885,021	2,800,557	(6,498)	84,464	2,942,482	2,855,909	86,573				



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 (2020/03/23)							
Mission Support Alliance		Mission Support Contract			Mission Support Contract											
b. Location (Address and Zip Code)		b. Number			b. Phase				b. To (2020/04/26)							
Richland, WA 99352		RL14728			Operations											
c. TYPE		d. Share Ratio			c. EVMS ACCEPTANCE											
CPAF					No X Yes											
Item (1)	Current Period						Cumulative to Date				At Completion					
	Budgeted Cost		Actual Cost Work Performed (4)	Variance		Budgeted Cost		Actual Cost Work Performed (9)	Variance		Budgeted (12)	Estimated (13)	Variance (14)			
	Work Scheduled (2)	Work Performed (3)		Schedule (5)	Cost (6)	Work Scheduled (7)	Work Performed (8)		Schedule (10)	Cost (11)						
a2. WORK BREAKDOWN STRUCTURE ELEMENT																
3001.01.04 - HAMMER	1,727	1,727	794	0	933	158,134	158,134	156,847	0	1,287	159,493	157,504	1,989			
3001.02.04 - Radiological Site Services	1,010	1,010	655	0	355	72,893	72,893	72,189	0	705	73,694	72,836	857			
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	327	327	333	0	(6)	11,355	11,355	11,185	0	170	11,614	11,459	155			
3001.03.04 - Content & Records Management	85	85	82	0	3	3,402	3,402	3,431	0	(29)	3,473	3,504	(32)			
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	3,180	3,180	1,977	0	1,203	122,147	122,147	121,586	0	561	129,504	129,230	274			
3001.04.05 - Facility Services	1,138	1,138	555	0	583	92,256	92,256	91,428	0	828	93,213	91,893	1,320			
3001.04.06 - Transportation	957	957	177	0	780	57,145	57,145	55,947	0	1,198	57,638	56,128	1,510			
3001.04.07 - Fleet Services	1,773	1,773	677	0	1,096	159,490	159,490	159,608	0	(118)	160,914	160,554	360			
3001.04.08 - Crane and Rigging	1,234	1,234	146	0	1,088	131,841	131,841	130,218	0	1,622	132,835	130,358	2,478			
3001.04.10 - Technical Services	317	317	208	0	109	11,290	11,290	10,732	0	559	11,538	10,917	621			
3001.04.13 - Work Management	74	74	69	0	5	4,784	4,784	4,727	0	58	4,843	4,786	57			
3001.04.14 - Land and Facilities Management	958	958	568	0	390	79,802	79,802	79,569	0	233	80,642	80,185	457			
3001.04.15 - Mail & Courier	23	23	7	0	16	1,870	1,870	1,845	0	24	1,888	1,853	35			
3001.06.01 - Business Operations	1,174	1,174	894	0	280	120,229	120,229	120,271	0	(41)	121,178	121,115	63			
3001.06.02 - Human Resources	415	415	281	0	135	34,495	34,495	34,165	0	330	34,830	34,388	442			
3001.06.03 - Safety, Health & Quality	165	165	168	0	(3)	16,944	16,944	15,924	0	1,020	17,065	15,999	1,066			
3001.06.04 - Miscellaneous Support	390	390	1,991	0	(1,602)	20,548	20,548	22,921	0	(2,373)	20,860	24,560	(3,700)			
3001.06.05 - Presidents Office (G&A nonPMB)	365	365	304	0	61	30,390	30,390	30,319	0	71	30,689	30,577	112			
3001.06.06 - Strategy	25	25	21	0	4	3,243	3,243	3,155	0	88	3,263	3,177	86			
3001.A1.01 - Transfer - CHPRC	8,505	8,505	2,942	0	5,563	762,231	762,231	754,573	0	7,658	768,968	756,903	12,065			
3001.A1.02 - Transfer - WRPS	5,667	5,667	2,498	0	3,169	369,730	369,730	365,453	0	4,277	374,219	367,431	6,788			
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	58	58	62	0	(3)	3,798	3,798	3,891	0	(93)	3,844	3,940	(96)			
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	66	66	43	0	23	3,750	3,750	3,842	0	(92)	3,802	3,876	(74)			
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	41	41	28	0	13	1,575	1,575	1,460	0	115	1,607	1,482	125			
3001.A4.01 - Request for Services	715	715	603	0	111	121,061	121,061	121,780	0	(718)	121,627	122,258	(630)			
3001.A4.02 - HAMMER RFS	172	172	359	0	(187)	37,151	37,151	35,988	0	1,164	37,287	36,272	1,015			
3001.A4.03 - National Guard RFS	0	0	0	0	0	1,550	1,550	1,550	0	0	1,550	1,550	0			
3001.A4.04 - PNNL RFS	60	60	23	0	37	11,587	11,587	12,809	0	(1,222)	11,635	12,827	(1,192)			
3001.A5.01 - RL PD	29	29	2	0	27	6,859	6,859	6,703	0	156	6,889	6,725	165			
3001.A5.02 - ORP PD	91	91	50	0	40	8,961	8,961	8,872	0	89	9,040	8,932	108			



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 (2020/03/23)									
b. Location (Address and Zip Code)	b. Number				b. Phase				b. To (2020/04/26)									
Richland, WA 99352	c. TYPE				c. EVMS ACCEPTANCE													
Item (1)	Current Period			Variance		Cumulative to Date			Variance		At Completion							
	Budgeted Cost		Actual Cost	Schedule (5)	Cost (6)	Budgeted Cost		Actual Cost	Schedule (10)	Cost (11)	Budgeted (12)	Estimated (13)	Variance (14)					
	Work Scheduled (2)	Work Performed (3)	Work Performed (4)			Work Scheduled (7)	Work Performed (8)	Work Performed (9)										
3001.A5.03 - RL Project Funded	526	526	478	0	48	20,894	20,894	19,117	0	1,777	21,419	19,630	1,789					
3001.A5.04 - ORP Project Funded	170	170	107	0	63	9,078	9,078	8,501	0	576	9,217	8,615	602					
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	(2,851)	(2,851)	(1,840)	0	(1,011)	(238,849)	(238,849)	(235,918)	0	(2,931)	(241,132)	(237,522)	(3,610)					
3001.A7.02 - DLA Liquidations	(2,507)	(2,507)	(687)	0	(1,820)	(164,302)	(164,302)	(160,486)	0	(3,816)	(166,083)	(161,076)	(5,008)					
3001.A7.03 - Variable Pools Revenue	(9,980)	(9,980)	(4,677)	0	(5,303)	(787,436)	(787,436)	(785,930)	0	(1,506)	(800,290)	(790,365)	(9,925)					
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											5,364		5,364					
e2. SUBTOTAL (Non - Performance Measurement Baseline)	16,099	16,099	9,898	0	6,201	1,401,146	1,401,146	1,390,215	0	10,931	1,419,390	1,409,811	9,579					
f. MANAGEMENT RESERVE											2,355		2,355					
g. TOTAL	49,219	47,135	33,604	(2,084.3)	13,532	4,292,665	4,286,167	4,190,772	(6,498)	95,395	4,364,227	4,268,075	96,152					
9. RECONCILIATION TO CONTRACT BUDGET BASE																		
a. VARIANCE ADJUSTMENT																		
b. TOTAL CONTRACT VARIANCE																		



5.0 FORMAT 3, DD FORM 2734/3, BASELINE

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

CONTRACT PERFORMANCE REPORT																	
FORMAT 3 - BASELINE														DOLLARS IN Thousands		FORM APPROVED OMB No. 0704-0188	
<b>1. Contractor</b>		<b>2. Contract</b>				<b>3. Program</b>				<b>4. Report Period</b>							
a. Name		a. Name				a. Name				a. From (2020/03/23)							
Mission Support Alliance		Mission Support Contract				Mission Support Contract											
<b>b. Location (Address and Zip Code)</b>		<b>b. Number</b>				<b>b. Phase</b>				b. To (2020/04/26)							
Richland, WA 99352		RL14728				Operations											
c. TYPE		d. Share Ratio				c. EVMS ACCEPTANCE											
CPAF						No X Yes											
<b>5. CONTRACT DATA</b>																	
a. ORIGINAL NEGOTIATED COST			b. NEGOTIATED CONTRACT CHANGES		c. CURRENT NEGOTIATED COST (a+b)		d. ESTIMATED COST OF UNAUTHORIZED UNPRICED WORK			e. CONTRACT BUDGET BASE (C+D)		f. TOTAL ALLOCATED BUDGET		g. DIFFERENCE (E - F)			
\$2,854,966			\$1,509,261		\$4,364,227		\$0			\$4,364,227		\$4,364,227		\$0			
h. CONTRACT START DATE			i. CONTRACT DEFINITIZATION DATE			j. PLANNED COMPLETION DATE			k. CONTRACT COMPLETION DATE		l. ESTIMATED COMPLETION DATE						
2009/05/24			2009/05/24			2020/05/25			2020/05/25		2020/05/25						
<b>6. PERFORMANCE DATA</b>																	
ITEM  (1)	BCWS CUMULATIVE TO DATE (2)	BCWS FOR REPORT PERIOD (3)	BUDGETED COST FOR WORK SCHEDULED (BCWS) (Non-Cumulative)													UNDISTRIBUTED BUDGET (15)	TOTAL BUDGET (16)
			Six Month Forecast By Month						Remaining Forecast By Month								
			MAY FY20 (4)	JUN FY20 (5)	JUL FY20 (6)	AUG FY20 (7)	SEP FY20 (8)	OCT FY21 (9)	NOV FY21 (10)	DEC FY21 (11)	JAN FY22 (12)	FEB FY21 (13)	MAR FY21 (14)				
a. PERFORMANCE MEASUREMENT BASELINE (Beginning of Period)	2,858,398	33,121	28,578	0	0	0	0	0	0	0	0	0	0	0	22,384	2,942,482	
b. BASELINE CHANGES AUTHORIZED DURING REPORT PERIOD	33,120	(33,121)	0	0	0	0	0	0	0	0	0	0	0	0	0	(0)	
c. PERFORMANCE MEASUREMENT BASELINE (End of Period)	2,891,519	0	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 (2020/03/23)								
b. Location (Address and Zip Code) Richland, WA 99352		b. Number RL14728			b. Phase Operations					b. To (2020/04/26)								
c. TYPE CPAF		d. Share Ratio			c. EVMS ACCEPTANCE No <input checked="" type="checkbox"/> 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)
			MAY FY20 (4)	JUN FY20 (5)	JUL FY20 (6)	AUG FY20 (7)	SEP FY20 (8)	OCT FY21 (9)	NOV FY21 (10)	DEC FY21 (11)	JAN FY22 (12)	FEB FY21 (13)	MAR FY21 (14)					
a2. NON - PERFORMANCE MEASUREMENT BASELINE (Beginning of Period)	1,385,048	16,099	12,745	0	0	0	0	0	0	0	0	0	0	0	5,499	1,419,390		
b2. BASELINE CHANGES AUTHORIZED DURING REPORT PERIOD	16,099	(16,099)	135	0	0	0	0	0	0	0	0	0	0	0	(135)	0		
c2. NON - PERFORMANCE MEASUREMENT BASELINE (End of Period)	1,401,146	0	12,880	0	0	0	0	0	0	0	0	0	0	0	5,364	1,419,390		
7. MANAGEMENT RESERVE																2,355		
8. TOTAL	4,292,665	0	41,458	0	0	0	0	0	0	0	0	0	0	0	27,748	4,364,227		



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

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

1. Contractor	2. Contract		3. Program	4. Report Period
a. Name Mission Support Alliance	a. Name Mission Support Contract		a. Name Mission Support Contract	a. From (2019/03/23)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2020/04/26)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NO X YES	
5. Evaluation				

**Explanation of Variance /Description of Problem:**

**Current Month Cost Variance (CV):**

**3001.01.01 Safeguards and Security** – A favorable CM CV is primarily due to labor underruns resulting from implementation of COVID-19 procedures, attrition and rate variances. Fleet is underrun due to time phasing of Patrol vehicles acquisition.

**3001.01.02 Fire and Emergency Response** – The favorable CM CV is primarily due to labor underruns resulting from COVID-19 pandemic impacts, firefighter attrition, short-term disability and open positions. Partially offset by an overrun of materials due to additional purchases needed for the Hanford Fire Department’s COVID-19 response.

**3001.01.04 HAMMER** – The favorable CM CV is because HAMMER maintenance and construction projects are on hold due to craft personnel and subcontractors not at work due to COVID-19.

**3001.02.03 Public Safety and Resource Protection** – The favorable CM CV is primarily labor related due to staff attrition, COVID-19 impacts, and personnel supporting other projects. Material underruns resulted from delays in field sampling materials and ABCASH O&M software purchases, while subcontracts experienced reduced support, delayed lab analysis and other schedule delays due to COVID-19.

**3001.04.01 Roads and Grounds Services** – The favorable CM CV is primarily due to the COVID-19 stop work and "essential mission critical operations" posture.

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 (2019/03/23)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2020/04/26)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NOX YES	
<b>5. Evaluation</b>				
<p><b>3001.04.03 Electrical Services</b> – The favorable CM CV is primarily due to the COVID-19 stop work and "essential mission critical operations" posture.</p> <p>3001.04.04 Water/Sewer Services – The favorable CM CV is primarily due to the COVID-19 stop work and "essential mission critical operations" posture.</p> <p><b>3001.04.14 Land and Facilities Management</b> – The favorable CM CV is because of the WYE Generator installation delayed start.</p> <p><b>3001.04.16 Property Systems/Acquisitions</b> – The favorable CM CV is due to "essential mission critical operations" posture through the month that resulted in Storekeeper and Teamster costs well below plan.</p> <p>3001.06.01 Business Operations – The favorable CM CV is primarily due to labor underruns for pending new hires, personnel supporting other projects, and the Site "essential mission critical operations" posture resulting in labor costs below plan</p> <p><b>3001.06.03 Safety, Health &amp; Quality</b> – The favorable CM CV is primarily due to COVID-19 stop work and "essential mission critical operations" posture.</p> <p><b>3001.A1 – 3001.B1 Non-PMB</b> – The favorable CM CV is primarily due to a reduction in Variable Services provided to CHPRC because of an asbestos issue that halted work for several days. Both CHPRC and WRPS support were impacted by a site-wide Stop Work related to COVID-19.</p> <p><b>Variable Service Pools - Non-PMB</b> – The WBS elements 3001.01.04 – 3001.06.06 represent the usage-based pool, General and Administrative (G&amp;A), and Direct Labor Adder (DLA) accounts. Offsetting liquidation of service to customers occur with WBS 3001.A7.01 - 3001.A7.03.</p> <p><b>Impacts – Current Month Cost Variance:</b> No significant impacts associated with this CM CV.</p>				





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

<b>1. Contractor</b>	<b>2. Contract</b>		<b>3. Program</b>	<b>4. Report Period</b>
a. Name Mission Support Alliance	a. Name Mission Support Contract		a. Name Mission Support Contract	a. From (2019/03/23)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2020/04/26)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NOX YES	
<b>5. Evaluation</b>				

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

**Current Month Schedule Variance:**

**3001.08.01 Water System** – The favorable CM SV resulted from project L-895 “Fire Protection Infrastructure for PRW.” The favorable CM SV is primarily due to schedule recovery relating to procurement of a backup generator. The construction subcontractor accrued for the backup generator in prior fiscal months. Taking current period performance also contributed to the favorable cost variance.

**3001.08.03 Electrical System** – The unfavorable CM SV resulted because of project L-789 “Prioritize T&D Sys Wood PP Test & Replace” work impacted by in-process Design Change Notices (DCNs) prepared by the construction support Architect/Engineer (A/E). Additionally, a line drop resulted in a suspension of electrical hot work and was an impact to the schedule. The current "essential mission critical operations" posture at the Hanford site related to the COVID-19 pandemic also affected field work progress.

**Project L-861**, “Single-Circuit Distribution Pole Replace” variance due to not beginning development of the 30% design in April as planned. The subcontracted A/E informed MSA that they experienced difficulties relating to teleworking, specific to providing team members documentation necessary to getting started and becoming informed about the project. Additionally, the A/E has acknowledged resources working on the design for L-612, as well as supporting construction for L-789, contributed to resource constraints, affecting L-861. In addition, MSA awarded the design contract later than planned, due in part, to additional information requested from the A/E (Best and Final Offer) prior to the award in support of the sole source justification.



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 (2020/03/23)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2020/04/26)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NOX YES	
5. Evaluation				

**3001.08.05 Facility System** – The unfavorable CM SV resulted from projects:

- L-796 “Key Facilities Roof Replacements” unfavorable CM SV is primarily due to the HAMMER closure on March 16, 2020 (related to COVID-19) that prevented essential training of contractor personnel prior to field work execution.
- L-798 “2101M HVAC Replacement” unfavorable CM SV is due to field work impacts (material delivery on site) associated with the current "essential mission critical operations" posture at the Hanford site related to the COVID-19 pandemic.

**3001.08.08 Network & Telecommunications System** – The unfavorable CM SV resulted from two projects. Both L-921 “Telecom Hut at Met Tower,” and L-919 “Emergency Radio Upgrade” experienced unfavorable CM SVs due to being behind schedule on the Services Contract Award due to COVID-19 delayed the start on the System Design of the Core.

**3001.08.09 Capital Equipment Not Related to Construction** – The unfavorable CM SV resulted from the Crane and Rigging delivery being delayed until September.

**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 implementation of



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 (2020/03/24)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2020/04/26)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NOX YES	
5. Evaluation				

COVID-19 procedures, attrition, rate variances and R-Time for hazardous roads; 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.

**3001.08.01 Water System** - Favorable CTD CV is because of completed projects:

- 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.

**3001.A1 – 3001.B1 Non-PMB** – The favorable CTD CV is primarily due to a reduction in Variable Services provided to CHPRC that were impacted because of an asbestos issue that halted work for several days, and a site-wide Stop Work related to COVID-19 that impacted both CHPRC and WRPS.

**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.

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 (2019/03/23)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728	b. Phase - Operations	b. To (2020/04/26)
	c. Type CPAF	d. Share Ratio	

**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.

**Cumulative Schedule Variance:**

**3001.08.01 Water System** – Unfavorable CTD SV is primarily due to Project L-895 “Fire Protection Infrastructure for PRW” having delays in several construction & procurement activities that were scheduled to complete in prior fiscal months, including pulling and terminating new fiber, anchoring and wiring of several major components, & the third party integrator Program Logic Controller procurement and pre-programming subcontract. The COVID-19 Stop Work and procurement related inefficiencies also affected field progress.

**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. The site closure, which ceased construction activities, due to the current "essential mission critical operations" posture at the Hanford site related to the COVID-19 pandemic also affected field work.

**3001.08.03 Electrical System** – Unfavorable CTD SV is because of Project L-789 “Prioritize T&D Sys Wood PP Test & Replace” in-process DCNs prepared by the construction support A/E affected field work. Additionally, the line drop resulted in a suspension of electrical hot work and affected the schedule. In addition, the field work has been affected by the current "essential mission critical operations" posture at the Hanford site related to the COVID-19





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 (2019/03/23)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2020/04/26)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NOX YES	
5. Evaluation				

pandemic. Project H-006 "10 CFR 851" encountered breaker maintenance outage challenges with scheduling the actual outage in the field. The project cannot determine these operation changes in advance. A Baseline Change Request (BCR) approved last month added additional outages for April and May inside contract. Variance is also due to field work impacts (outages) associated with the current "essential mission critical operations" posture at the Hanford site related to the COVID-19 pandemic.

**3001.08.05 Facility System** – The unfavorable CTD SV is because:

- L-796 "Key Facilities Roof Replacements" unfavorable CTD SV is primarily due to the HAMMER closure on March 16, 2020 (related to COVID-19), which prevented essential training of contractor personnel prior to field work execution.
- L-798 "2101M HVAC Replacement" unfavorable CTD SV is due to field work impacts (material delivery on site), associated with the current "essential mission critical operations" posture at the Hanford site related to the COVID-19 pandemic.

**3001.08.08 Network Telecommunication System** – Unfavorable CTD SV is because of Project L-905 "FARS & RFARS Replacement & Upgrade" delayed approval on both the Facility Management Plan and final review of the Statement of Work resulting in an eight-month schedule slip. The Request for Proposal was stopped by the COVID-19 pandemic.

**3001.08.09 - Capital Equipment Not Related to Construction** – The unfavorable CTD SV resulted from the Crane and Rigging delivery delay until September.

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 (2020/03/23)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2020/04/26)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NOX YES	

**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 moves the remaining budget to SWS-Undistributed Budget.

**Impacts - Cumulative Schedule Variance:** Impacts to Reliability Projects are minimal because most reliability projects are independent stand-alone projects. Projects L-789 and 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. The current “essential mission critical operations” posture at the Hanford site related to the COVID-19 pandemic also affected field work activities.
- Project L-854, “200E Sewer Consolidations” “200E Sewer Consolidations” schedule impact is immature planning and work being more complex than planned and the site closure that stopped construction activities due to the current “essential mission critical operations” posture at the Hanford site related to the COVID-19 pandemic.

**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





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 (2020/03/23)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2020/04/26)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NO X YES	
5. Evaluation				

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 caused by a pause on hot work and 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.

**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 and FY 2020.

**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 on May 25, 2020. During March 2020, MSA re-submitted the FY 2019 Cost Variance Credit Proposal based on comments from DOE-RL. The COVID-19 Pandemic resulted in the current “essential mission critical operations” posture for MSA that began on March 23 and continued through fiscal month April 2020. MSA is currently assessing FY 2020 work scope impacts that will need to be performed outside the contract period of performance and the increase cost of continuing the current “essential mission critical operations” posture. The current result is an overstated positive cost variance due to work scope delays forced into the period past May 25, 2020.



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

<b>1. Contractor</b>	<b>2. Contract</b>		<b>3. Program</b>	<b>4. Report Period</b>
a. Name Mission Support Alliance	a. Name Mission Support Contract		a. Name Mission Support Contract	a. From (2020/3/23)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2020/04/24)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NO X YES	
<b>5. Evaluation</b>				

**Negotiated Contract Changes:**

The Negotiated Contract Cost for April 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 remained at zero.

**Changes in Estimated Price:**

The Estimated Price for April 2020 decreased \$20.8M from \$4,526.6M to \$4,505.8M. The primary reason for the decrease was due to COVID 19 Pandemic reducing MSA to the current “essential mission critical operations” posture near the end of fiscal month March 2020 and continuing through fiscal month April 2020. MSA is currently assessing FY 2020 work scope impacts that will need to be performed outside the contract period of performance and the increase cost of continuing the current “essential mission critical operations” posture. The decrease is a direct result to work scope delays forced into the period past May 25, 2020 contract end date. The Estimated Price includes the Most Likely Management Estimate at Completion (MEAC) of \$4,268.0M and fee of \$237.8M.

**Changes in Undistributed Budget:**

The Undistributed Budget (UB) for this reporting period decreased by \$0.1M from \$27.9M to \$27.8M. The reduction in Usage Based Services UB was to plan multiple DOE Directed Work Scope (DDWS) until the end of the contract extension.



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 (2020/3/23)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728	b. Phase - Operations	b. To (2020/04/24)
	c. Type CPAF	d. Share Ratio NO X YES	
<b>5. Evaluation</b>			

The following BCR changed the UB:

- VRFS-20-002 – Move UBS-UB to Multiple DDWS WBSs Budgeted through May 25, 2020

**Changes in Management Reserve:**

The MR for this reporting period remained the same at \$2.4M.

**Differences in the Performance Measurement Baseline:**

This reporting period the Performance Measurement Baseline did not change from \$2,942.5M.

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

This reporting period the non-PMB remained the same at \$1,419.4M.

The following BCR adjusted time phasing, but did not change the non-PMB:

- VRFS-20-002 – Move UBS-UB to Multiple DDWS WBSs Budgeted through May 25, 2020

**Best/Worst/Most Likely Management Estimate at Completion (MEAC):**

- The Best Case MEAC assumes the completion of the approved work scope at the current negotiated contract value consistent with the Contract Budget Base. The Most Likely MEAC reflects the EAC including MR. The Worst Case Scenario assumes a 5 percent increase to the Most Likely MEAC case scenario.



**7.0 USAGE-BASED SERVICES/DIRECT LABOR ADDER SUMMARY**

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

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

Fiscal Year 2020 to Date – April 2020					
Account Description	BCWS	BCWP	ACWP	CV	Liquidation
<b>Direct Labor Adder</b>					
Software Engineer Services DLA (3001.03.02.03)	\$1,829.4	\$1,829.4	\$1,775.1	\$54.3	(\$1,693.3)
Content & Records Management DLA (3001.03.01.04)	\$501.0	\$501.0	\$499.4	\$1.6	(\$492.0)
Transportation DLA (3001.04.06.02)	\$3,820.0	\$3,820.0	\$3,010.3	\$809.7	(\$3,239.7)
Maintenance DLA (3001.04.05.02)	\$5,939.6	\$5,939.6	\$5,528.7	\$410.9	(\$4,721.1)
Janitorial Services DLA (3001.04.05.03)	\$804.3	\$804.3	\$906.6	(\$102.3)	(\$748.1)
<b>Total Direct Labor Adder</b>	<b>\$12,894.3</b>	<b>\$12,894.3</b>	<b>\$11,720.1</b>	<b>\$1,174.2</b>	<b>(\$10,894.2)</b>

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 – April 2020					
Account Description	BCWS	BCWP	ACWP	CV	Liquidation
<b>Usage Based Services</b>					
Training (3001.01.04.02)	\$9,602.5	\$9,602.5	\$8,687.1	\$915.4	(\$8,036.2)
HRIP (3001.02.04.02)	\$2,557.6	\$2,557.6	\$2,293.2	\$264.4	(\$1,908.9)
Dosimetry (3001.02.04.03)	\$3,220.0	\$3,220.0	\$3,004.3	\$215.7	(\$3,350.5)
Information Technology Services (3001.03.07.01)	\$16,672.5	\$16,672.5	\$15,529.2	\$1,143.3	(\$19,180.3)
Work Management (3001.04.13.01)	\$416.7	\$416.7	\$402.6	\$14.1	(\$387.9)
Courier Services (3001.04.15.02)	\$130.4	\$130.4	\$118.8	\$11.6	(\$109.8)
Occupancy (3001.04.14.06)	\$5,909.8	\$5,909.8	\$5,773.9	\$135.9	(\$6,023.6)
Crane & Rigging (3001.04.08.02)	\$7,018.7	\$7,018.7	\$5,925.8	\$1,092.9	(\$5,897.2)
Fleet (3001.04.07.02)	\$10,066.2	\$10,066.2	\$9,329.4	\$736.8	(\$9,035.3)
<b>Total UBS</b>	<b>\$55,594.4</b>	<b>\$55,594.4</b>	<b>\$51,064.3</b>	<b>\$4,530.1</b>	<b>(\$53,929.7)</b>
<b>Total DLA/ UBS</b>	<b>\$68,488.7</b>	<b>\$68,488.7</b>	<b>\$62,784.4</b>	<b>\$5,704.3</b>	<b>(\$64,823.9)</b>

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 \$5.7M - The fiscal year to date favorable cost variance is driven by the impacts of the Site Essential Mission Critical Operations status in response to the COVID19 pandemic during the fiscal month of April. The Site posture reduced service requests and subsequent costs across nearly all of the pool accounts.



8.0 RELIABILITY PROJECT STATUS

Activity in April 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 Completion Date	Baseline Completion Date	Schedule at Completion
L-850, Replace 200W 1.1M-gal PW Tank	1,084.5	992.1	1,266.2	(92.4)	(274.1)	0.91	0.78	1,172.5	1,475.9	(303.4)	85%	11/19/20	5/21/20	R
L-849, Replace 200E 1.1M-gal PW Tank	623.3	575.1	683.5	(48.3)	(108.5)	0.92	0.84	689.7	721.9	(32.2)	83%	6/23/20	5/21/20	Y
L-894, Raw Water Cross Connection Isolation 200E/W	8,007.4	7,909.7	6,673.0	(97.6)	1,236.7	0.99	1.19	8,015.6	7,106.4	909.2	99%	9/21/20	5/24/20	R
L-895, Fire Protection Infrastructure for Plateau Raw Water	8,300.1	7,103.2	7,494.6	(1,196.9)	(391.4)	0.86	0.95	8,651.7	8,968.3	(316.6)	82%	5/04/21	5/21/20	R
L-357, Replace 12" Potable Water Line to 222-S Lab	1,654.4	1,643.5	1,693.5	(10.9)	(50.0)	0.99	0.97	1,654.4	1,716.2	(61.8)	99%	9/30/20	7/15/19	R
L-534, Overlay Interior 200 East Roads	29.8	9.1	5.3	(20.7)	3.8	0.31	1.70	52.7	48.6	4.1	17%	8/05/20	5/21/20	R
L-603, Chip Seal Route 3N (Route 11A to Route 3)	30.1	10.0	4.9	(20.1)	5.1	0.33	2.05	47.8	39.4	8.4	21%	8/04/20	5/21/20	R
L-781, 181D Vertical Turbine Pumps	559.8	509.9	393.7	(49.9)	116.2	0.91	1.30	667.7	523.3	144.4	76%	6/17/20	5/21/20	Y
L-897, Central Plateau Water Treatment Facility	2,903.5	2,882.4	2,874.5	(21.1)	7.9	0.99	1.00	3,051.1	3,022.5	28.6	94%	8/06/20	5/21/20	R
L-826, 181B Vertical Turbine Pumps	400.0	370.8	353.1	(29.1)	17.7	0.93	1.05	507.9	504.7	3.3	73%	7/29/20	5/21/20	R
L-839, 12" Potable Water Loop Line to WTP	260.2	260.4	178.8	0.2	81.6	1.00	1.46	310.5	209.7	100.8	84%	6/03/20	5/25/20	Y
L-853, 200E Sewer Flow Equalization Facility	6,054.1	6,008.1	6,601.4	(46.0)	(593.4)	0.99	0.91	6,054.2	6,847.8	(793.7)	99%	11/11/20	4/10/19	R
L-854, 200E Sewer Consolidations	5,960.6	5,756.6	6,145.8	(204.0)	(389.1)	0.97	0.94	5,960.7	6,331.7	(371.0)	97%	12/02/20	4/16/19	R
L-789, Prioritize T&D Sys Wood PP Test & Replace	8,035.4	6,076.5	6,830.8	(1,958.9)	(754.3)	0.76	0.89	8,552.1	9,452.1	(900.0)	71%	9/29/20	5/21/20	R
L-801, Upgrade SCADA	1,374.0	1,239.4	1,257.4	(134.6)	(18.1)	0.90	0.99	1,380.3	1,397.1	(16.8)	90%	9/15/20	5/21/20	R
L-791, RFL Transfer Trip Upgrades	1,005.9	975.9	772.2	(30.0)	203.7	0.97	1.26	1,023.3	923.4	99.9	95%	9/01/20	5/21/20	R

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.)

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 Completion Date	Baseline Completion Date	Schedule at Completion
L-720, Outdoor Lighting Reconfiguration and Repl	203.0	192.1	335.7	(10.9)	(143.6)	0.95	0.57	203.0	348.3	(145.3)	95%	8/19/20	5/29/19	R
H-006, 10 CFR 851	2,728.5	2,398.3	2,332.0	(330.2)	66.4	0.88	1.03	2,877.3	2,749.4	127.8	83%	9/14/20	5/21/20	R
L-861, Single Circuit Distribution Pole Replacement	173.9	13.3	8.3	(160.6)	5.0	0.08	1.60	283.1	445.0	(161.8)	5%	7/06/20	5/25/20	Y
L-612, 230kV Trans Sys Recon & Sustainability	1,616.7	1,437.4	791.2	(179.3)	646.2	0.89	1.82	1,828.3	970.6	857.7	79%	1/26/21	5/21/20	R
L-879, Overlay Cypress Street	30.5	9.4	5.0	(21.1)	4.4	0.31	1.87	48.9	43.1	5.8	19%	8/04/20	5/21/20	R
L-883, Chip Seal Rt 10, SR-240 to WYE Barricade	30.5	9.3	4.9	(21.3)	4.3	0.30	1.88	54.2	46.4	7.7	17%	8/04/20	5/21/20	R
L-888, 400 Area Fire Station	1,517.3	1,516.9	1,465.1	(0.4)	51.8	1.00	1.04	1,528.1	1,478.3	49.8	99%	5/21/20	5/21/20	G
L-796, Key Facilities Roof Replacements	2,324.0	2,088.5	2,172.6	(235.6)	(84.1)	0.90	0.96	2,670.1	2,262.1	407.9	78%	5/06/21	5/25/20	R
L-798, 2101M HVAC Replacement	221.5	44.1	48.5	(177.4)	(4.4)	0.20	0.91	258.8	236.5	22.3	17%	6/29/20	5/18/20	Y
L-797, Key Facilities HVAC Replacements	24.9	36.3	41.2	11.4	(4.8)	1.46	0.88	401.4	398.9	2.5	9%	7/23/20	5/21/20	R
L-905, FARS & RFARS Replacement & Upgrade	641.9	160.4	207.7	(481.5)	(47.4)	0.25	0.77	641.9	530.2	111.6	25%	10/21/20	11/25/19	R
L-907, Fleet Complex Site Development	18.2	6.3	1.4	(11.9)	5.0	0.35	4.58	24.1	13.6	10.5	26%	7/14/20	5/21/20	Y
L-921, Telecom Hut at Met Tower	149.3	89.0	133.1	(60.3)	(44.0)	0.60	0.67	231.2	280.5	(49.3)	39%	7/29/20	5/21/20	R
L-919, Emergency Radio Upgrade	3,957.8	3,877.4	4,191.8	(80.4)	(314.4)	0.98	0.92	4,079.0	4,389.2	(310.3)	95%	7/28/20	5/21/20	R
H-001, BMS Upgrade	765.2	755.2	674.2	(10.0)	81.0	0.99	1.12	879.3	828.7	50.6	86%	6/22/20	5/25/20	Y
<b>Total</b>	<b>60,686.5</b>	<b>54,956.8</b>	<b>55,641.4</b>	<b>(5,729.8)</b>	<b>(684.6)</b>	<b>0.91</b>	<b>0.99</b>	<b>63,800.6</b>	<b>64,310.1</b>	<b>(509.4)</b>	<b>86%</b>			

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*: CTD unfavorable schedule variance is primarily due to delays in several construction & procurement activities scheduled to complete in prior fiscal months including pulling and terminating new fiber, anchoring and wiring of several major components, and the third party integrator programmable logic controller procurement and pre-programming subcontract. In addition, COVID-19 Pandemic impacting field work when DOE-RL placed the Hanford Site into an "essential mission critical operations" status.
- L-789, *Prioritize T&D Sys Wood PP Test & Replace*: CTD unfavorable schedule variance is, in part, due to work being impacted by in-process Design Change Notices prepared by the construction support Architect/Engineer. Additionally, a line drop resulted in a suspension of electrical hot work. In addition, COVID-19 Pandemic impacting field work when DOE-RL placed the Hanford Site into an "essential mission critical operations" status.
- H-006, *10CFR 851*: Unfavorable CTD SV is due to encountering breaker maintenance outage challenges because COVID-19 Pandemic impacting field work when DOE-RL placed the Hanford Site into an "essential mission critical operations" status.
- L-905, *FARS & RFARS Replacement & Upgrade*: Unfavorable CTD SV is due to delayed approval of both the Facility Management Plan, final review of the Statement of Work, and COVID-19 Pandemic impacting fieldwork when DOE-RL placed the Hanford Site into an "essential mission critical operations" status.

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

- L-894, *Raw Water Cross Connection Isolation 200E/W*: CTD favorable CV is due to the Engineering Study report costing less than planned (\$176K); conceptual design utilizing less resources than originally planned (\$110K); the Definitive Design cost underrun (\$256K); the firm fixed price construction contract being awarded at less than the planned value (\$695K); and COVID-19 pandemic impacting fieldwork when DOE-RL placed the Hanford Site into an "essential mission critical operations" status.



- *L-853, 200E Sewer Flow Equalization Facility*: CTD unfavorable CV is driven by MSA labor overruns specific to engineering & professional administrator disciplines, related to effort expended on change orders (over 50 on this job), compliance requirements, and/or other work associated with project execution. Design Change Notices resulted in unplanned subcontract costs in the form of change orders to execute the construction work associated with each change. In addition, the project experienced unplanned training & material costs, and COVID-19 pandemic impacting fieldwork when DOE-RL placed the Hanford Site into an "essential mission critical operations" status.
- *L-789, Prioritize T&D Sys Wood Test & Replace*: CTD unfavorable CV is due to higher than anticipated costs for the lineman supporting the project, as well as minimal work performed in March due to the pause on all hot work; standby costs were realized due to the work pause. During late winter, the contractor was pulled onto their mutual aid agreement in support of the Public Utility District restoration work north of Seattle. The Architect/Engineer worked on several new Design Change Notices. COVID-19 pandemic impacted fieldwork when DOE-RL placed the Hanford Site into an "essential mission critical operations" status.
- *L-612, 230kV Trans Sys Recon & Sustainability*: CTD favorable CV is due to the contract award for substantially less than the planned 30% Design Contract.

## **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 awarded at less than the planned value, and Architectural/Engineering lower than planned. The current execution plan, based on the Facilities Management Plan, identifies construction fieldwork to install the Reduced-Pressure Back-flow Pressure Assembly, and partially offsets this favorable VAC.
- *L-853, 200E Sewer Flow Equalization Facility*: Unfavorable VAC is driven by MSA labor overruns specific to engineering & professional administrator disciplines, related to effort expended on change orders (over 50 on this job), compliance requirements, and/or other work associated with project execution. Design Change Notices resulted in unplanned subcontract costs in the form of change orders to execute the construction work associated with each change. In addition, the project experienced unplanned training & material costs.



- L-789, *Prioritize T&D Sys Wood PP Test & Replace*: Unfavorable VAC is primarily due to fieldwork being affected with the current "essential mission critical operations" posture at the Hanford site related to the COVID-19 pandemic.
- L-612, *230kV Trans Sys Recon & Sustainability*: Favorable VAC is due to the contract award for substantially less than the planned 30% Design Contract.

Table 8 -2. Reliability Projects Schedule

RL-40RP CU-apr - RL-40 Reliability Projects - Current - Apr 20 Layout: MSA - Summ RP Schedule - PMB CU		Mission Support Alliance				Page 1 of 2			
Activity Name	OO	RD	Forecast Start	Forecast Finish	Baseline Start	Baseline Finish	2019	2020	2021
H-001, BMS Upgrade - Phase II	278	40	20-May-19 A	22-Jun-20	20-May-19	25-May-20			
H-006, 10 CFR 851	391	78	01-Oct-18 A	14-Sep-20	01-Oct-18	21-May-20			
L-357, Replace 12-in. Potable Water Line to 222-S Lab	650	88	29-Jun-17 A	30-Sep-20	03-Jul-17	15-Jul-19			
L-534, Inlay Interior 200 East Roads	77	57	02-Mar-20 A	05-Aug-20	02-Mar-20	21-May-20			
L-603, Overlay Route 3N (Route 11A to Route 3)	76	56	02-Mar-20 A	04-Aug-20	02-Mar-20	21-May-20			
L-612, 230kV Transmission System Reconditioning and Sustainability Upgrades - MSA	219	151	01-Oct-19 A	26-Jan-21	30-Sep-19	21-May-20			
L-720, Outdoor Lighting Reconfiguration and Replacement	466	81	01-Oct-18 A	19-Aug-20	15-Oct-18	29-May-19			
L-781, 181D Pump House Vertical Turbine Pump Design	1949	37	01-Oct-12 A	17-Jun-20	01-Oct-12	21-May-20			
L-789, Prioritized T&D System Wood Power Poles Testing & Replacement (DFLAW Priority)	1295	109	10-Aug-15 A	29-Sep-20	10-Aug-15	21-May-20			
L-791, RFL Transfer Trip Upgrades	587	90	07-May-18 A	01-Sep-20	07-May-18	21-May-20			
L-796, Key Facilities Roof Replacements	587	208	29-May-18 A	06-May-21	04-Jun-18	25-May-20			
L-797, Key Facilities HVAC replacements	70	50	24-Feb-20 A	23-Jul-20	24-Feb-20	21-May-20			
L-798, 2101M HVAC Replacement	83	36	23-Jan-20 A	29-Jun-20	03-Feb-20	18-May-20			
L-801, Upgrade SCADA	406	79	05-Sep-18 A	15-Sep-20	04-Sep-18	21-May-20			
L-826, 181 B Vertical Turbine Pumps, Header, Instrumentation, Commission	366	53	01-Oct-18 A	29-Jul-20	01-Oct-18	21-May-20			
L-839, 12in Potable Water Loop-Line to WTP	239	27	24-Jun-19 A	03-Jun-20	24-Jun-19	25-May-20			

Summary  
 Baseline

**MSC - Reliability Projects**  
**Summary Schedule**  
**Data Date: 26-Apr-20**

Table 8 -2. Reliability Projects Schedule Cont.

RL-40RP CU-apr - RL-40 Reliability Projects - Current - Apr 20 Layout: MSA - Summ RP Schedule - PMB CU		Mission Support Alliance					Page 2 of 2		
Activity Name	OO	RD	Forecast Start	Forecast Finish	Baseline Start	Baseline Finish	2019	2020	2021
L-849, Replace 200E 1.1M-gal PW Tank	966	33	10-Aug-15 A	23-Jun-20	24-Aug-15	21-May-20			
L-850, Replace 200W 1.1M-gal PW Tank	1329	146	29-Jul-15 A	19-Nov-20	10-Aug-15	21-May-20			
L-853, 200E Sewer Flow Equalization Facility	1321	140	17-Aug-15 A	11-Nov-20	17-Aug-15	10-Apr-19			
L-854, 200E Sewer Consolidations	1059	122	17-Aug-15 A	02-Dec-20	17-Aug-15	16-Apr-19			
L-861, Single Circuit Distribution Pole Replacement	113	49	07-Jan-20 A	06-Jul-20	13-Jan-20	25-May-20			
L-879, Overlay Cypress Street	76	56	02-Mar-20 A	04-Aug-20	02-Mar-20	21-May-20			
L-883, Chip Seal Rt 10, SR-240 to WYE Barric	76	56	02-Mar-20 A	04-Aug-20	02-Mar-20	21-May-20			
L-888, 400 Area Fire Station	621	19	30-Apr-18 A	21-May-20	30-Apr-18	21-May-20			
L-894, Raw Water Cross Connection Isolation 200E/W	1023	103	29-Aug-16 A	21-Sep-20	29-Aug-16	24-May-20			
L-895, Fire Protection Infrastructure for Plateau Raw Water	1050	258	09-Jan-17 A	04-May-21	09-Jan-17	21-May-20			
L-897, 200 Area Water Treatment Plant	678	72	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	444	100	06-Aug-18 A	21-Oct-20	06-Aug-18	25-Nov-19			
L-907, Fleet Complex Site Development	64	44	24-Feb-20 A	14-Jul-20	24-Feb-20	21-May-20			
L-919, Emergency Radio Upgrades	234	52	29-Apr-19 A	28-Jul-20	29-Apr-19	21-May-20			
L-921, Telecom Hut at Met Tower	276	53	18-Mar-19 A	29-Jul-20	18-Mar-19	21-May-20			

Summary Baseline	<b>MSC - Reliability Projects</b> <b>Summary Schedule</b> <b>Data Date: 26-Apr-20</b>
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## 9.0 BASELINE CHANGE REQUEST LOG (BCR)

### Baseline Change Request Log for April 2020.

Four Baseline Change Requests (BCRs) were processed in April.

One BCR related to Reliability Projects:

- VMSA-20-038 – Reliability Project CAPN/WBS Alignment and P6 Activity Coding Corrections

Three BCRs were Administrative in Nature:

- VMSA-20-004 Rev 6 – Administrative BCR – Create Lower Level Task Order (LLTO) WBSs for Cost Collection Established in the Month of April
- VMSA-20-041 – Administrative BCR – Mod 886 – Update Section C.2.4.2 Communications to Align with Section J.3 in the Technical Baseline
- VRFS-20-002 – Move UBS-UB to Multiple DDWS WBSs Budgeted through May 25, 2020

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
<b>Prior PMB Total</b>	<b>Mar 2020</b>	1,230,506		1,230,506	1,230,506	243,023		1,711,976		2,942,481	2,942,481
VMSA-20-004 Rev 6						0		0		0	2,942,481
VMSA-20-038						0		0		0	2,942,481
VMSA-20-041						0		0		0	2,942,481
<b>Revised PMB Total</b>	<b>Apr 2020</b>	1,230,506		1,230,506	1,230,506	243,023		1,711,976		2,942,481	
<b>Prior Non-PMB Total</b>	<b>Mar 2020</b>	604,007		604,007		108,154		815,384		1,419,390	1,419,390
VMSA-20-041						0		0		0	1,419,390
VRFS-20-002						0		0		0	1,419,390
<b>Revised Non-PMB Total</b>	<b>Apr 2020</b>	604,007		604,007		108,154		815,384		1,419,390	
<b>Total Contract Performance Baseline</b>	<b>Apr 2020</b>	1,834,513		1,834,513	1,834,513	351,177		2,527,360		4,361,872	
<b>Management Reserve</b>	<b>Mar 2020</b>		0	0			2,355		2,355	2,355	2,355
<b>Revised Management Reserve</b>	<b>Apr 2020</b>		0	0			2,355		2,355	2,355	
<b>Total Contract Budget Base</b>	<b>Apr 2020</b>			1,834,513				2,529,715		4,364,227	
<b>Prior Fee Total</b>	<b>Mar 2020</b>	109,961		109,961		18,212		127,786		237,747	237,747
<b>Revised Fee Total</b>	<b>Apr 2020</b>	109,961		109,961		18,212		127,786		237,747	
<b>Change Log Total</b>	<b>Apr 2020</b>			1,944,473				2,657,501		4,601,974	



## 10.0 RISK MANAGEMENT

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

- Mission Risk Management:
  - Due to the continued teleworking directive, Mission risk reviews were performed via Teams and email communication. Mission risks were reviewed by their risk owners. As a result, there were two Site Services and Interface Management (SS&IM) mission level risks that increased in risk priority score from a Level 3 to a Level 4. Both were approved by their Vice Presidents, and will be sent out via electronic Risk Management Board (RMB) approval correspondence, instead of an in-person RMB.
- 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.
  - Eight Project Risks were closed:
    - All eight for Project L-707, *Advanced Electrical Metering*
  - Six Project Risks were re-characterized:
    - Four for Project L-707, *Advanced Electrical Metering*
    - One for Project L-826, *181B Vertical Turbine Pump*
    - One for Project L-850, *Replace 200W 1.1M-gal PW Tank*
  - 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:
  - Contract Extension Planning/ Baseline Change Request Support
  - Safran Risk Analysis Software:
    - Continuous testing is underway, including testing of the new Alpha version that has additional analytical capabilities, such as



Probabilistic Cash Flow (PCF). Updates and improvements are also being made to the draft desktop instructions and import templates.

- 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 scheduled to be implemented in the spring.



## 11.0 DASHBOARD SUMMARY

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

April Fiscal Year 2020 PEMP Mod 876		YTD	Apr
Deliverables			
<b>1.0 Effective Site Cleanup - Achievement of cleanup contractors' key milestones and regulatory commitments</b>			
	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		
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		
j	Fire Systems - Priority 1 Emergency Impairments ≤3 open Emergency Impairments at month end		
1.1 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

N/A = Not Applicable (Updated quarterly)

= Complete

= In jeopardy



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

April Fiscal Year 2020 PEMP Mod 876			Deliverables		YTD	Apr
<b>1.0 Effective Site Cleanup - Achievement of cleanup contractors' key milestones and regulatory commitments</b>						
1.2	Water	Demonstrate effective management of electric, water and sewer utilities to maximize reliability and redundancy				
		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				
	Sewer	Quarterly System Health Report by Engineering submitted one calendar month after each quarter				
		Perform Preventative maintenance at 90% or better each month				
		Maintain backlog corrective maintenance average age of open work packages to 450 days or less				
	Electric	Quarterly System Health Report by Engineering submitted one calendar month after each quarter				
		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	
1.3	Maximize efficient MSA use of resources to meet the other Hanford contractors' changing project needs.					
<b>2.0 Efficient Site Cleanup - Align resources and capabilities to support the site cleanup mission</b>						
2.1	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.					
	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.c.1, Electrical Power Availability – Yellow for April, Green Overall.** Electrical power was impacted in late April by a bird strike affecting 14 transformers. EU will continue to implement Corrective Maintenance bird guards to prevent future events.



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

April Fiscal Year 2020 PEMP Mod 876			YTD	Apr
Deliverables			YTD	Apr
<b>2.0 Efficient Site Cleanup - Align resources and capabilities to support the site cleanup mission</b>				
	Demonstrate consolidation of the Hanford Site infrastructure footprint.			
2.2	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		On Hold
	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.		
	Demonstrate effective development and management of reliability projects that ensure mission milestones and regulatory commitments are met.			
2.3	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
<b>3.0 Comprehensive Performance</b>				
	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 management			
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.			

**LEGEND**

= On Schedule

= Objective missed

N/A = Not Applicable (Updated quarterly)

= Complete

= In jeopardy

12.0 CONTRACT DELIVERABLES STATUS

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

Table 12-1. April 2020 – May 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 - Mar	Eckman / Combs	04/05/20	03/26/20	Information	N/A	N/A	
CD0124	Quarterly Service Level Report	Eckman	04/10/20	04/08/20	Information	N/A	N/A	
CD0144	Monthly Performance Report - Feb	Millikin	04/10/20	04/08/20	Review	None	N/A	
CD0178	Quarterly Manpower Reports and Budget Forecasts	Walton	04/12/20	03/31/20	N/A	N/A	N/A	
CD0023a	National Security System (NSS) - Quarterly Status Report	Walton	04/20/20	04/07/20	Review	N/A	N/A	
CD0030	HAMMER Strategic Plan	Bates	04/30/20	04/14/20	Review	30 days	05/14/20	
CD0084	BPA Power and Transmission Service invoice verification and breakdown of site contractor costs - Feb	Synoground	04/30/20	04/27/20	Review	30 days	05/27/20	
CD0123	Monthly Billing Reports for DOE Services - Apr	Eckman	05/05/20	05/04/20	Information	N/A	N/A	
CD0144	Monthly Performance Report - Mar	Millikin	05/10/20	05/07/20	Review	None	N/A	
CD0035	Hanford Site Wild Land Fire Plan	Walton	05/15/20	05/12/20	Approve	30 days	06/11/20	
CD0084	BPA Power and Transmission Service invoice verification and breakdown of site contractor costs - Mar	Synoground	05/30/20		Review	30 days		

<b>Key:</b>
Approved
Awaiting Approval
Not Submitted
Submitted

NOTES: Areas shaded in gray indicate delivery to DOE, and when the "Date Approved by DOE" is shaded, approval has been received in return. "Review" responses from DOE are not documented with dates, but shaded when complete.

IAMIT = Interagency Management Integration Team. TPA = Tri-Party Agreement.  
 N/A = No action.



## 12.1 GOVERNMENT-FURNISHED SERVICES/INFORMATION AND DOE DECISIONS

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.



## 13.0 SELF-PERFORMED WORK

Table 13-1. Mission Support Contract Socioeconomic Reporting.

Through April 2020

Plan Category	MSA Goal	FY 2020 Actual To-Date	Cumulative %
Small Business	50.0%	79.2%	83.4%
Small Disadvantaged Business	10.0%	18.6%	20.1%
Small Women-Owned Business	6.8%	25.9%	16.5%
HubZone	2.7%	12.3%	7.0%
Small Disadvantaged, Service Disabled	2.0%	10.2%	7.7%
Veteran-Owned Small Business	2.0%	9.4%	8.9%

### Prime Contract Targets:

- At least 40% contracted out beyond MSA, LLC = 36.0% (\$1.657B/\$4.602B)
- Small Business 25% of Total Mission Support Contract (MSC) Value = 30.0% (\$1.382B/\$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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