

MISSION SUPPORT ALLIANCE

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



Monthly Performance Report

July 2020

R. E. Wilkinson
President

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



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

TERMS

A&E	Architecture and Engineering
ALARA	As Low as Reasonably Achievable
AMB	Assistant Manager for Business and Financial Operations
AMMS	Assistant Manager for Mission Support
AMRP	Assistant Manager for River and Plateau
AMSE	Assistant Manager for Safety and Environment
ATP	Acceptable Test Procedures
BCR	Baseline Change Request
BPA	Bonneville Power Administration
BIO	Business Integration & Operations
CAS	Contractor Assurance Systems
CHRP	Cultural and Historic Resource Program
CHPRC	CH2MHILL Plateau Remediation Company
COVID-19	Coronavirus disease 2019
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

ACRONYMS LISTING



HAMMER	Volpentest Hazardous Materials Management and Emergency Response Training and Education Center
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
PPF	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

ACRONYMS LISTING



PW	Public Works
RES	Real Estate Services
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



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 (MSC) 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 July 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 July. 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:

- MSA Communications continues to push out sitewide messages regarding the upcoming site posture. Communications also worked closely with DOE Communications to send a message to MSA employees about the importance of face coverings as a safety mechanism and sharing information about the “myths” related to face coverings. The message was also shared with other contractor and DOE Communication directors to use as needed.
- MSA hosted a meeting of the Chief Engineers with each of the prime contractors. Topics discussed included the potential for adjustments to building ventilation systems to address COVID-19 concerns, and the continued functioning of the work teams responsible for the Sitewide safety programs (e.g., Hoisting and Rigging, Electrical Safety).
- MSA is preparing the implementation plan for segregating all COVID-19 charges to a separate final cost objective/control point as directed by the Department of Energy, Richland Operations Office (20-FIN-0034). The implementation plan identifies the fiscal year (FY 2020) Integrated Investment Portfolio (IIP) cost impact of this direction with discretionary funding sources.
- The Hanford Internal Dosimetry Program, in effort to support the site in returning to normal processing of whole body counts, has added additional counts to the daily schedule. This will allow site contractors to identify counts not conducted while site was in the essential mission critical operations posture



for COVID-19. The new schedule should allow all missed counts to be completed by end of September.

- In an effort to re-establish and pioneer new company outreach initiatives which have been recently impacted by the COVID-19 health pandemic, the MSA Human Resources organization met with WorkSource Columbia Basin on July 29, 2020, to collaborate on the development and delivery of a comprehensive job search and career development program. The curriculum will be available to local and non-local participants, and will integrate multi-faceted and fundamental elements of the career development model. The organization will successfully pivot and alter its delivery platform to meet the challenges associated with social distancing restrictions. Each course will be offered to attendees looking for employment opportunities, or whose employment status was affected by the pandemic. The organization's cooperative and concerted partnership with WorkSource will strengthen outreach objectives while cultivating and developing labor resources for the next generation. Development and alteration of the curriculum is underway and implementation of the program is tentatively scheduled for mid-August.

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

Headquarters DOE Accountability Drill – MSA Emergency Management Program (EMP) staff participated in the DOE Office of the Chief Human Capital Officer Accountability Drill on Thursday, July 9, 2020. The drill included sending messages to DOE RL/Office of River Protection (DOE-ORP) and MSA Continuity of Operations Program Emergency Response Group members and tracking the results. One hundred percent accountability was achieved.

Emergency Electrical Utilities Repairs – When the CH2M HILL Plateau Remediation Company (CHPRC) expressed concern that an unplanned electrical outage would cause delays at the Pump & Treat facility, MSA Electrical Utilities (EU) took emergency actions to excavate, diagnose, and repair damaged ground rod and arrestors.



Excavation uncovers ground rod issues and blown arrestors/cutouts

Contracts Support – Activities in July included:

- MSA received Contract Modification 913 for review. The Modification increases contract value to \$268.0M for the period of May 26, 2020, to November 25, 2020, as negotiated with DOE-RL. In addition, MSA received Contract Modification 914 for review, which extends the partial stop work order an additional 70 days, through September 30, 2020.
- Transmitted the Contract/Baseline Alignment Guidance (CBAG), Revision 3, FY 2020 IIP and the Draft FY 2021 IIP to the DOE-RL on July 15, 2020, as scheduled.
- Finalized the Hanford Life-Cycle Cleanup Baseline (HLCCB) Rev. 0, and submitted initial draft to MSA Senior Management for review.

MSA Project Honored by DOE - The Hanford Site Data Center Modernization & Closure Project received an honorable mention for the 2020 Department of Energy DOE Sustainability award in the New Data Center category. A virtual award ceremony will be conducted on August 20, 2020.

Hanford Patrol Rattlesnake Barricade - Hanford Patrol's Rattlesnake Barricade Replacement Project successfully completed the removal and installation of a new barricade in July.



Removal of Hanford Patrol's Old Rattlesnake Barricade



Hanford Patrol's New Rattlesnake Barricade

Scaffolding Provides Safety for HVAC Repairs – Timely response is crucial to heating, ventilation, and air conditioning (HVAC) systems that are not working properly during triple digit weather. To ensure the health and safety of Hanford Patrol at the Wye Barricade, MSA teams from Refrigeration Equipment Services, Crane & Rigging, and Motor Carrier Services worked together to make required repairs of the HVAC system for the Wye Barricade Guard Shack. Scaffolding was assembled and placed to allow safe access to the roof area.



Scaffolding at the Wye Barricade Guard Shack

182D Reservoir Cleanout – As part of periodic draining and cleaning of the reservoirs at the 182D facility, MSA Crane & Rigging Services worked with Water & Sewer Utilities to lift equipment down into the basins. This included two loaders that were used to load dirt/mud/tumbleweeds into a skip that would then be dumped above the

reservoir. The 182D reservoir is one of two reservoirs near the river that stores and supplies all water to the Central Plateau, with most of the water being pumped to the 283W Water Treatment Facility. As this is an open-air reservoir, tumbleweeds and other debris are frequently blown in. Periodic draining and cleaning of these reservoirs keeps debris out of the pumping system and pipelines, allowing for a more efficient treatment process.



Crane lowered in basin for tumbleweed removal

Modification of Crack Sealing Equipment – Improving safety and efficiency was key for the MSA Roads & Grounds crew in collaboration with Fleet Services and Engineering. Together they constructed a device to prevent the hose from dragging behind the compressor used to blow debris from road cracks prior to sealing activities, which dramatically decreases the effort by the operator and in turn provides a more secure environment during this process.



Equipment modification improves safety and efficiency

Dashboards – DOE Office of River Protection (ORP) requested MSA add the capability for ORP to use the current Decision Management platform for their change management decisions. The current Hanford Contract Alignment Board (HCAB) was developed for DOE-RL. A tiger team was established to review the short-term and



long-term approaches for onboarding ORP and potential to link to other existing and proposed systems.

Portfolio Management (PFM) continued support for the new DOE Key Performance Goal (KPG) 2020 Dashboard, and based upon several discussions with the customer, several enhancements are underway. PFM is reviewing the approach to be used for transition from FY 2020 to FY 2021 KPGs.

The Direct-Feed Low-Activity Waste (DFLAW) dashboard enhancements made in July included changes to the project page displays, taking off “Due” and “Float” columns and updating the Cost Performance Indicator / Schedule Performance Indicator (CPI/SPI) calculations changes were pushed to test for customer review.

Monthly Newsletter Rereleased - MSA led the design and distribution of the What’s Happening @Hanford monthly newsletter. Due to COVID-19, this was the first newsletter since February, and included updates from March through June. Featured articles included start-up testing at the Waste Treatment Plant, a 25-year cleanup milestone at the Effluent Treatment Facility and DOE-RL/ORP Manager Brian Vance meeting with staff at the Volpentest HAMMER Federal Training Center (HAMMER) to discuss new safety protocols. The newsletter was distributed to an audience of more than 10,000. The distribution list includes elected officials, Hanford workers, community members, stakeholders, and educational individuals.

Development of Unmanned Aerial Vehicle System – MSA received direction from DOE-RL to continue development of an Unmanned Aerial System (UAS) program at Hanford. Because MSA Real Estate Services (RES) will lead the effort, a project team was formed to initiate the transfer of knowledge from previously involved personnel. Remaining key activities include develop/revise project schedule; finalize Flight Management Model; develop process/procedure; complete software application development; secure approvals from DOE-RL, DOE-Headquarters, and the Federal Aviation Administration (FAA); identify offsite vendors; and continue routine project review meetings.

July Status: RES completed a summary of the benchmarking efforts to solicit more information from other DOE Site UAS program experts. In addition, RES completed the draft Project Execution Plan (PEP) with management review, and will be formalizing the document. A monthly meeting has been scheduled to bring MSA IPT members up to speed with the project. RES and Aviation Safety is working on a Scope



of Work (SOW) to bring an expert subcontractor on to help with the process and procedure development.

Local Area Network for Emergency Services Project – Work to implement the new Essential Services Local Area Network (ESLAN) servers, storage and backbone network continues with MSA Information Management completing moving legacy equipment from both 1220 and 2220E network telecommunication rooms, in preparation for installing the Emergency Services network equipment starting Monday, August 24, 2020. In addition, the team has completed configuring the core components for the hosting domain and is working on the last remaining tasks. Initial server/laptop setup for the Computer Automated Dispatch (CAD) software install is underway and is scheduled for completion Thursday, August 20, 2020.

July progress: Removal of all the legacy 5ESS equipment is all but complete as part of the new ESLAN. The final cabinet installations, to include both shore as well as Uninterruptible Power Supply (UPS) power, is underway. There is now space for over 10 cabinets per location for implementation/consolidation of critical infrastructure systems such as 911, two-way radio, dispatch, and SCADA/ICS.

1.2 LOOK AHEAD

Hanford Site Emergency Alerting System (HSEAS) Upgrade Project - The HSEAS upgrade project will procure and install a new CentrAlert siren control system used at the Hanford site and at Benton County Emergency Management, and Franklin County Emergency Management. The project will upgrade the siren control stations (5 workstations and 2 mobile), the siren voice boards on 43 sirens, and the siren communications interface on 43 sirens. Recently, the team completed the bill of materials for additional equipment and the approved procurement of materials from Safety Services is completed. Work is ready to begin at the 825 Jadwin facility to install the Ethernet circuit between the Emergency Operations Center (EOC) and the penthouse. This work continues to be on hold due to only essential services being performed; however, software documentation efforts are continuing in preparation for the new CentrAlert activation system.



Network Technicians remove 5ESS Legacy Equipment

Password Complexity Revamp – Current Hanford Local Area Network (HLAN) password requirements are not following recommended best practices from the 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. MSA has a September 1, 2020 planned date for site-wide communication to let HLAN users know about the new passphrase requirements and how it will roll out (based on user's current



password expiration date). The site-wide communication will be a brief one-page email including links to website pages with additional cyber-related information. Additionally, a one-page informational sheet has been created for Help Desk employees to have on hand once this project is implemented.

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	\$85.2	\$69.6
RL-0020	Safeguards & Security	\$91,005.3	\$82,378.1	\$65,649.2	\$16,728.9
RL-0040	GSI and Spares Inventory	\$1,708.5	\$1,708.5	\$428.4	\$1,280.1
RL-0201	Reliability Projects, HAMMER, B-Reactor	\$93,861.9	\$63,671.2	\$36,223.2	\$27,448.0
SWS	Site-Wide Services	\$234,142.7	\$212,226.2	\$166,112.0	\$46,114.2
Total		\$420,873.2	\$360,138.8	\$268,498.0	\$91,640.8

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 Mod 921 dated August 17, 2020.

Based upon FY20 forecast the remaining uncosted balance will fund SWS through September 23, 2020 and RL-20 through September 30, 2020. Excludes any impacts to COVID-19.



3.0 SAFETY PERFORMANCE

During the month of July, MSA had no reported incidents that classified as “Recordable.” Therefore, the fiscal year 2020 Total Recordable Case (TRC) rate is 0.35 and the DART rate is 0.30. Both rates are below the DOE performance measurement baseline of 1.1 and 0.60, respectively. Four First Aid cases were recorded, which is lower than the average for a given month. First Aid cases are closely monitored to determine emerging trends and implement awareness activities, as warranted. High-heat weather conditions have presented a challenge and pre-work conversations regarding hydration and recognizing the symptoms of heat related illnesses and injuries have risen to the forefront. Safety communications have been continuous to remind employees of hazard controls that can be applied, such as maintaining situational awareness, assessing physical or mental capabilities, using the correct personal protective equipment, and to be mindful of changing work environments.

Additionally, MSA continues to aggressively pursue alternative processes and practices that effectively address the hazard and controls for the COVID-19 pandemic. A revision to the General Hazard Analysis incorporating additional COVID-19 symptoms and criteria for wearing face coverings was published, and various employee messages are in process to ensure all employees understand the change in requirements.



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

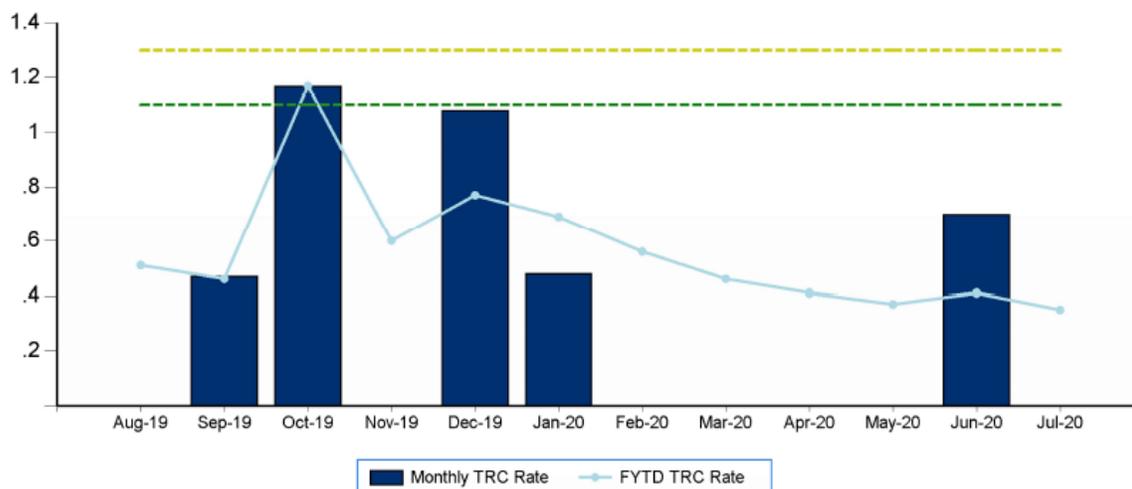
The MSA goal is to "do work safely" and achieve target zero by reducing injuries, accidents and incidents. The DOE-EM goal is to maintain a TRC rate below 1.1.

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

Total Recordable Case Rate



Field	2019-08	2019-09	2019-10	2019-11	2019-12	2020-01	2020-02	2020-03	2020-04	2020-05	2020-06	2020-07
Monthly TRC Rate	0	.47	1.17	0	1.08	.48	0	0	0	0	.7	0
FYTD TRC Rate	.51	.46	1.17	.6	.77	.69	.56	.46	.41	.37	.41	.35
CYTD TRC Rate	.55	.48	.59	.55	.59	.48	.26	.18	.14	.12	.21	.17
Monthly Recordable Cases	0	1	2	0	2	1	0	0	0	0	1	0

Analysis

During the month of July, there were no reported incidents that classified as a "Recordable" injury. FYTD, MSA has experienced 6 OSHA Recordable injuries, corresponding to a TRC rate of 0.35.

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

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



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

Fiscal Year DART Rate (Green)
 Monthly DART Rate (Green)

Definition

Monitor the days away, restricted or transferred (DART) case rate for MSA employees and subcontractors. The DART rate is measured in accordance with OSHA guidelines for calculating and reporting. The rate is calculated by multiplying the number of DART cases by 200,000 and dividing by the total number of work hours.

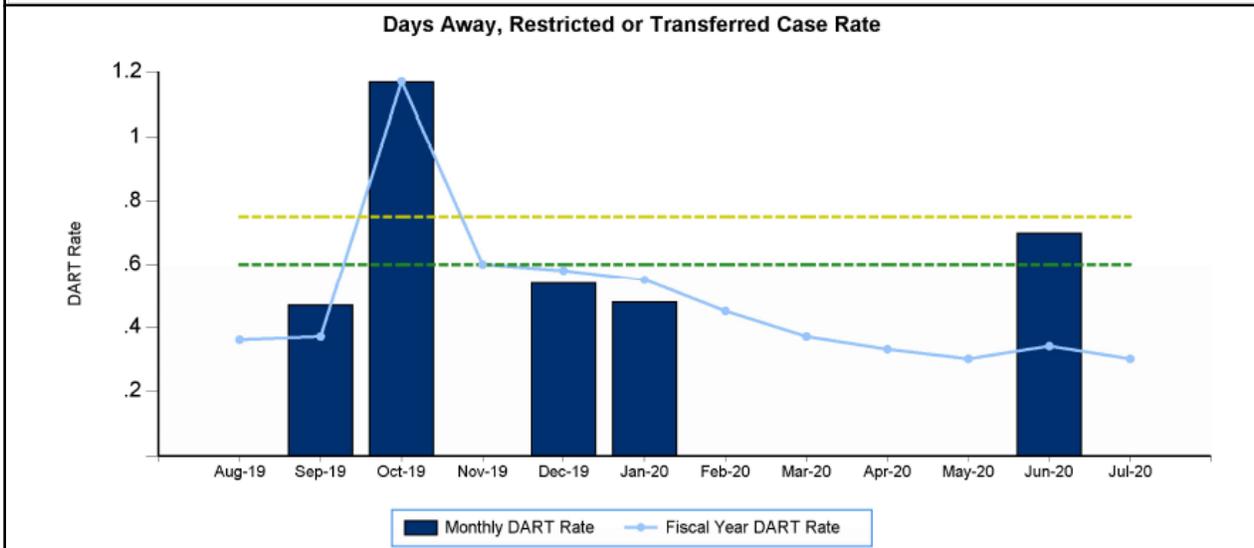
Goals

The MSA goal is to "do work safely" and achieve target zero by reducing injuries, accidents and incidents. The DOE-EM performance baseline goal is to maintain a DART rate below 0.6.

Monthly DART Rate (Effective: 10/01/2017): Green <= 0.6, Yellow <= 0.75, Red > 0.75

Fiscal Year DART Rate (Effective: 10/01/2017): Green <= 0.6, Yellow <= 0.75, Red > 0.75

Calendar Year DART Rate (Effective: 10/01/2017): Green <= 0.6, Yellow <= 0.75, Red > 0.75



Field	2019-08	2019-09	2019-10	2019-11	2019-12	2020-01	2020-02	2020-03	2020-04	2020-05	2020-06	2020-07
Monthly DART Rate	0	.47	1.17	0	.54	.48	0	0	0	0	.7	0
Fiscal Year DART Rate	.36	.37	1.17	.6	.58	.55	.45	.37	.33	.3	.34	.3
Calendar Year DART Rate	.41	.42	.49	.45	.46	.48	.26	.18	.14	.12	.21	.17
Monthly DART Cases	0	1	2	0	1	1	0	0	0	0	1	0

Analysis

During the month of July, there were no injuries that were classified as DART. FYTD, MSA has experienced 5 DART injuries, corresponding to a DART rate of 0.30.

• Types of injuries MSA has experienced during FY2020 that classified as DART:

- overexertion (1), body motion (2), struck against (1); struck-by object (1)

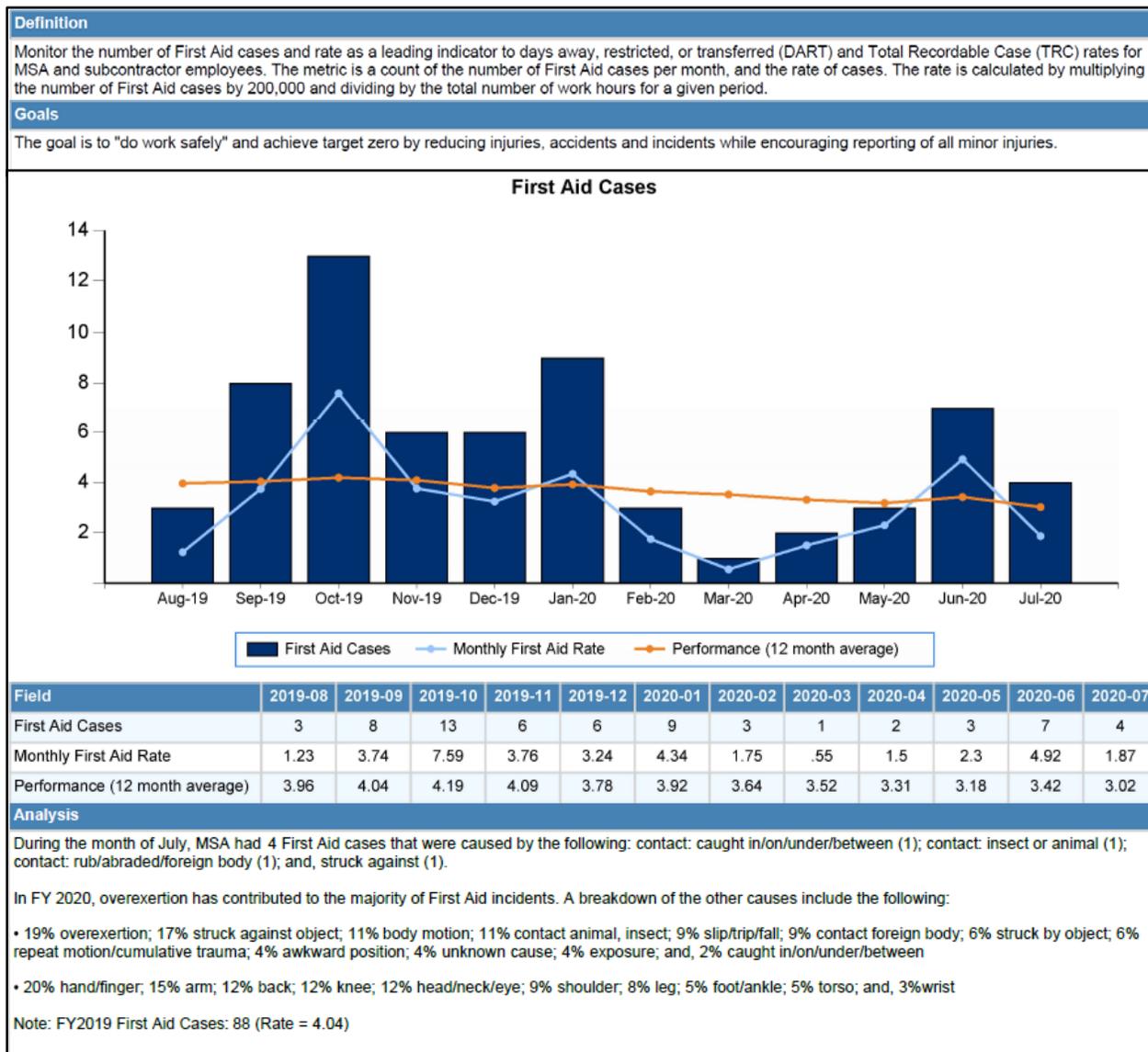
• Body parts that have been affected in FY2020:

- back (1), arm (1), neck (1), knee (1); hand (1)

Note: FY2019 DART Cases: 8 (DART rate = 0.37)



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 FORMAT 1 - WORK BREAKDOWN STRUCTURE													DOLLARS IN Thousands		FORM APPROVED OMB No. 0704-0188	
1. Contractor			2. Contract			3. Program			4. Report Period							
a. Name Mission Support Alliance			a. Name Mission Support Contract			a. Name Mission Support Contract			a. From (2020/06/22)							
b. Location (Address and Zip Code) Richland, WA 99352			b. Number RL14728			b. Phase Operations			b. To (2020/07/26)							
c. TYPE CPAF			d. Share Ratio			c. EVMS ACCEPTANCE No X Yes										
5. CONTRACT DATA																
a. QUANTITY		b. NEGOTIATED COST		c. ESTIMATED COST OF AUTHORIZED UNPRICED WORK		d. TARGET PROFIT/FEE		e. TARGET PRICE		f. ESTIMATED PRICE		g. CONTRACT CEILING		h. ESTIMATED CONTRACT CEILING	i. DATE OF OTB/OTS	
N/A		\$4,620,227		\$0		\$249,747		\$4,869,974		\$4,744,638		N/A		N/A	N/A	
6. ESTIMATED COST AT COMPLETION						7. AUTHORIZED CONTRACTOR REPRESENTATIVE										
			CONTRACT BUDGET BASE (2)			VARIANCE (3)			a. NAME (Last, First, Middle Initial) Wilkinson, Robert E			b. TITLE MSC Project Manager				
a. BEST CASE			\$4,620,227						c. SIGNATURE <i>[Signature]</i>			d. DATE SIGNED 8/20/2020				
b. WORST CASE			\$4,719,636													
c. MOST LIKELY			\$4,494,891			4,620,227			125,336							
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	Estimated	Variance				
	Work Scheduled (2)	Work Performed (3)		Schedule (5)	Cost (6)			Schedule (10)	Cost (11)							
a. WORK BREAKDOWN STRUCTURE ELEMENT																
3001.01.01 - Safeguards and Security	6,365	6,365	6,241	0	123	675,289	675,289	663,944	0	11,345	699,903	688,894	11,009			
3001.01.02 - Fire and Emergency Response	3,619	3,619	3,675	0	(56)	300,517	300,517	299,884	0	633	313,969	313,854	115			
3001.01.03 - Emergency Management	420	420	406	0	14	49,179	49,179	48,953	0	226	50,857	50,657	200			
3001.01.04 - HAMMER	968	968	921	0	47	84,709	84,709	80,150	0	4,559	87,992	84,943	3,048			
3001.01.05 - Emergency Services Management	177	177	189	0	(13)	17,967	17,967	17,686	0	282	18,629	18,646	(17)			
3001.02.01 - Site-Wide Safety Standards	120	120	94	0	26	9,802	9,802	10,429	0	(627)	10,256	10,823	(567)			
3001.02.02 - Environmental Integration	328	328	322	0	6	60,278	60,278	58,984	0	1,294	61,538	60,281	1,257			
3001.02.03 - Public Safety & Resource Protection	1,119	1,119	890	0	229	83,950	83,950	81,542	0	2,408	88,808	86,395	2,413			
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	125	125	130	0	(5)	34,636	34,636	33,910	0	726	35,129	34,409	719			
3001.03.02 - Information Systems	769	769	1,220	0	(451)	129,868	129,868	128,154	0	1,714	135,703	132,702	3,001			
3001.03.03 - Infrastructure / Cyber Security	717	717	778	0	(61)	54,149	54,149	52,966	0	1,182	56,872	56,421	451			
3001.03.04 - Content & Records Management	509	509	564	0	(54)	75,664	75,664	74,993	0	671	79,058	78,868	190			
3001.03.05 - IR/CM Management	165	165	427	0	(262)	16,701	16,701	17,251	0	(550)	18,791	19,691	(901)			
3001.03.06 - Information Support Services	160	160	146	0	14	16,186	16,186	16,151	0	35	16,856	16,777	79			
3001.04.01 - Roads and Grounds Services	715	715	599	0	116	37,586	37,586	37,456	0	130	40,436	40,560	(124)			
3001.04.02 - Biological Services	353	353	383	0	(30)	42,073	42,073	41,838	0	235	43,451	43,249	202			
3001.04.03 - Electrical Services	1,791	1,791	1,319	0	472	140,759	140,759	137,785	0	2,974	147,509	144,492	3,017			
3001.04.04 - Water/Sewer Services	1,738	1,738	1,672	0	66	149,929	149,929	146,927	0	3,002	156,513	153,627	2,887			
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	34	34	27	0	7	11,110	11,110	10,998	0	112	11,234	11,130	103			



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

CONTRACT PERFORMANCE REPORT															
FORMAT 1 - WORK BREAKDOWN STRUCTURE												DOLLARS IN Thousands		FORM APPROVED OMB No. 0704-0188	
1. Contractor		2. Contract			3. Program				4. Report Period						
a. Name Mission Support Alliance		a. Name Mission Support Contract			a. Name Mission Support Contract				a. From (2020/06/22)						
b. Location (Address and Zip Code) Richland, WA 99352		b. Number RL14728			b. Phase Operations				b. To (2020/07/26)						
c. TYPE CPAF		d. Share Ratio			c. EVMS ACCEPTANCE No X Yes										
Item (1)	Current Period					Cumulative to Date					At Completion				
	Budgeted Cost		Actual Cost Work Performed (4)	Variance		Budgeted Cost		Actual Cost Work Performed (9)	Variance		Budgeted (12)	Estimated (13)	Variance (14)		
	Work Scheduled (2)	Work Performed (3)		Schedule (5)	Cost (6)	Work Scheduled (7)	Work Performed (8)		Schedule (10)	Cost (11)					
a. WORK BREAKDOWN STRUCTURE ELEMENT (Cont'd)															
3001.04.07 - Fleet Services	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	10	10	4	0	6	802	802	693	0	110	834	727	107		
3001.04.10 - Technical Services	516	516	558	0	(42)	55,364	55,364	56,713	0	(1,349)	58,285	59,758	(1,472)		
3001.04.11 - Energy Management	162	162	129	0	33	13,685	13,685	13,156	0	528	14,216	13,702	514		
3001.04.12 - Hanford Historic Buildings Preservation	221	221	127	0	94	28,142	28,142	26,474	0	1,668	28,966	28,073	892		
3001.04.13 - Work Management	230	230	166	0	64	18,348	18,348	19,664	0	(1,317)	19,214	20,497	(1,283)		
3001.04.14 - Land and Facilities Management	616	616	357	0	259	55,355	55,355	51,819	0	3,537	57,614	54,236	3,378		
3001.04.15 - Mail & Courier	58	58	52	0	6	7,807	7,807	7,836	0	(29)	8,027	8,052	(24)		
3001.04.16 - Property Systems/Acquisitions	650	650	599	0	51	68,788	68,788	67,393	0	1,395	71,486	70,407	1,078		
3001.04.17 - General Supplies Inventory	85	85	53	0	32	2,832	2,832	1,739	0	1,093	3,045	2,129	916		
3001.04.18 - Maintenance Management Program Implementation	82	82	84	0	(2)	11,392	11,392	11,327	0	65	11,702	11,648	54		
3001.06.01 - Business Operations	895	895	862	0	33	69,254	69,254	27,004	0	42,250	73,048	31,319	41,729		
3001.06.02 - Human Resources	425	425	334	0	92	30,878	30,878	28,290	0	2,587	32,206	29,626	2,581		
3001.06.03 - Safety, Health & Quality	1,894	1,894	1,820	0	74	200,660	200,660	196,771	0	3,889	207,021	203,929	3,092		
3001.06.04 - Miscellaneous Support	406	406	420	0	(14)	57,478	57,478	58,045	0	(567)	59,435	59,989	(554)		
3001.06.05 - Presidents Office (G&A nonPMB)	0	0	2	0	(2)	516	516	102	0	413	1,350	925	425		
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	288	288	265	0	23	62,958	62,958	61,400	0	1,558	63,841	62,301	1,540		
3001.08.01 - Water System	793	1,027	641	234	385	51,572	50,941	37,276	(630)	13,665	57,288	43,728	13,559		
3001.08.02 - Sewer System	52	191	157	139	34	17,192	17,628	21,680	436	(4,052)	18,199	22,186	(3,988)		
3001.08.03 - Electrical System	277	951	946	674	5	32,679	30,277	31,000	(2,402)	(723)	35,391	36,216	(824)		
3001.08.04 - Roads and Grounds	(54)	14	18	68	(4)	10,117	10,093	9,514	(24)	579	12,027	11,445	582		
3001.08.05 - Facility System	230	378	175	148	203	13,944	13,869	13,976	(75)	(107)	18,366	18,205	160		
3001.08.06 - Reliability Projects Studies & Estimates	787	787	949	0	(162)	31,640	31,640	33,805	0	(2,165)	33,471	36,852	(3,381)		
3001.08.07 - Reliability Project Spare Parts Inventory	47	47	(9)	0	56	5,241	5,241	3,715	0	1,526	5,601	4,684	918		
3001.08.08 - Network & Telecommunications System	369	321	285	(47)	36	34,382	34,080	36,567	(302)	(2,487)	43,750	45,584	(1,834)		
3001.08.09 - Capital Equipment Not Related to Construction	0	534	519	534	15	15,769	15,670	14,232	(98)	1,438	18,561	17,138	1,423		
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	0	0	0	0	0	0	0	0		
3001.90.04 - MSA Transition	0	0	0	0	0	5,868	5,868	5,868	0	0	5,868	5,868	0		
3001.B1.06 - Projects	0	0	0	0	0	(0)	(0)	0	0	(0)	(0)	0	(0)		
b. COST OF MONEY															
c. GENERAL AND ADMINISTRATIVE															
d. UNDISTRIBUTED BUDGET															
e. SUBTOTAL (Performance Measurement Baseline)															
	29,230	30,979	29,519	1,749	1,460	2,970,605	2,967,509	2,873,168	(3,095)	94,341	3,122,375	3,022,752	99,622		



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

CONTRACT PERFORMANCE REPORT FORMAT 1 - WORK BREAKDOWN STRUCTURE														DOLLARS IN Thousands			FORM APPROVED OMB No. 0704-0188	
1. Contractor		2. Contract			3. Program			4. Report Period										
a. Name Mission Support Alliance		a. Name Mission Support Contract			a. Name Mission Support Contract			a. From (2020/06/22)										
b. Location (Address and Zip Code) Richland, WA 99352		b. Number RL14728			b. Phase Operations			b. To (2020/07/26)										
c. TYPE CPAF		d. Share Ratio			c. EVMS ACCEPTANCE No X Yes													
Item (1)	Current Period					Cumulative to Date					At Completion							
	Budgeted Cost		Actual Cost	Variance		Budgeted Cost		Actual Cost	Variance		Budgeted	Estimated	Variance					
	Work Scheduled (2)	Work Performed (3)	Work Performed (4)	Schedule (5)	Cost (6)	Work Scheduled (7)	Work Performed (8)	Work Performed (9)	Schedule (10)	Cost (11)	(12)	(13)	(14)					
a2. WORK BREAKDOWN STRUCTURE ELEMENT																		
3001.01.04 - HAMMER	1,602	1,602	1,582	0	20	162,370	162,370	160,506	0	1,865	168,281	166,424	1,857					
3001.02.04 - Radiological Site Services	1,054	1,054	727	0	327	75,502	75,502	73,762	0	1,740	78,948	77,136	1,813					
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	301	301	273	0	28	12,160	12,160	12,015	0	145	13,216	12,975	241					
3001.03.04 - Content & Records Management	79	79	76	0	4	3,621	3,621	3,637	0	(17)	3,927	3,951	(24)					
3001.03.06 - Information Support Services	0	0	0	0	0	4,043	4,043	4,043	0	(0)	4,043	4,043	0					
3001.03.07 - Information Technology Services	2,301	2,301	2,585	0	(284)	133,657	133,657	133,870	0	(213)	143,655	144,663	(1,008)					
3001.04.05 - Facility Services	1,087	1,087	701	0	386	95,213	95,213	93,139	0	2,075	99,225	96,856	2,368					
3001.04.06 - Transportation	574	574	286	0	288	58,677	58,677	56,732	0	1,945	61,100	58,961	2,139					
3001.04.07 - Fleet Services	1,659	1,659	1,072	0	586	163,915	163,915	161,795	0	2,120	170,157	167,243	2,914					
3001.04.08 - Crane and Rigging	1,144	1,144	578	0	565	134,922	134,922	131,316	0	3,607	139,250	135,175	4,075					
3001.04.10 - Technical Services	295	295	210	0	85	12,076	12,076	11,292	0	784	13,036	12,182	854					
3001.04.13 - Work Management	69	69	68	0	1	4,968	4,968	4,905	0	63	5,210	5,152	59					
3001.04.14 - Land and Facilities Management	914	914	826	0	88	82,371	82,371	81,690	0	681	85,786	85,232	554					
3001.04.15 - Mail & Courier	21	21	17	0	4	1,927	1,927	1,877	0	50	2,007	1,957	50					
3001.06.01 - Business Operations	1,049	1,049	1,099	0	(50)	122,984	122,984	122,920	0	63	126,945	126,583	362					
3001.06.02 - Human Resources	384	384	327	0	56	35,536	35,536	34,998	0	538	37,021	36,328	693					
3001.06.03 - Safety, Health & Quality	160	160	143	0	18	17,339	17,339	16,304	0	1,035	17,842	16,859	983					
3001.06.04 - Miscellaneous Support	364	364	434	0	(69)	21,522	21,522	24,993	0	(3,471)	22,685	26,232	(3,548)					
3001.06.05 - Presidents Office (G&A nonPMB)	336	336	362	0	(26)	31,304	31,304	31,241	0	64	32,801	32,571	230					
3001.06.06 - Strategy	23	23	26	0	(3)	3,305	3,305	3,214	0	91	3,379	3,274	105					
3001.A1.01 - Transfer - CHPRC	7,836	7,836	4,454	0	3,382	783,159	783,159	764,409	0	18,749	810,665	788,551	22,114					
3001.A1.02 - Transfer - WRPS	5,221	5,221	4,052	0	1,169	383,674	383,674	374,643	0	9,031	402,770	392,630	10,140					
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	54	54	95	0	(41)	3,941	3,941	4,099	0	(158)	4,128	4,299	(172)					
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	61	61	56	0	4	3,912	3,912	3,994	0	(82)	4,145	4,219	(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	37	37	38	0	(1)	1,675	1,675	1,544	0	131	1,805	1,664	141					
3001.A4.01 - Request for Services	658	658	515	0	143	122,820	122,820	123,406	0	(586)	125,379	126,043	(665)					
3001.A4.02 - HAMMER RFSS	158	158	169	0	(11)	37,574	37,574	36,506	0	1,067	38,198	37,240	958					
3001.A4.03 - National Guard RFSS	0	0	0	0	0	1,550	1,550	1,550	0	0	1,550	1,550	0					
3001.A4.04 - PNNL RFSS	56	56	19	0	36	11,736	11,736	12,849	0	(1,114)	11,922	12,986	(1,065)					
3001.A5.01 - RL PD	27	27	32	0	(5)	6,938	6,938	6,772	0	166	7,026	6,858	168					
3001.A5.02 - ORP PD	84	84	42	0	42	9,192	9,192	8,998	0	194	9,472	9,234	237					



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

CONTRACT PERFORMANCE REPORT FORMAT 1 - WORK BREAKDOWN STRUCTURE													DOLLARS IN Thousands		FORM APPROVED OMB No. 0704-0188	
1. Contractor		2. Contract			3. Program			4. Report Period								
a. Name		a. Name			a. Name			a. From (2020/06/22)								
b. Location (Address and Zip Code)		b. Number			b. Phase			b. To (2020/07/26)								
Richland, WA 99352		c. TYPE			d. Share Ratio			c. EVMS ACCEPTANCE								
Item (1)	Current Period			Cumulative to Date			At Completion									
	Budgeted Cost		Actual Cost	Budgeted Cost		Actual Cost	Budgeted		Estimated	Variance						
	Work Scheduled (2)	Work Performed (3)	Work Performed (4)	Schedule (5)	Cost (6)	Work Scheduled (7)	Work Performed (8)	Work Performed (9)	Schedule (10)	Cost (11)	Budgeted (12)	Estimated (13)	Variance (14)			
3001.A5.03 - RL Project Funded	737	737	393	0	343	22,923	22,923	20,354	0	2,569	25,554	22,368	3,186			
3001.A5.04 - ORP Project Funded	137	137	105	0	31	9,465	9,465	8,801	0	664	10,421	9,545	877			
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	(2,612)	(2,612)	(2,364)	0	(248)	(245,775)	(245,775)	(241,658)	0	(4,117)	(255,417)	(251,520)	(3,897)			
3001.A7.02 - DLA Liquidations	(2,041)	(2,041)	(1,535)	0	(506)	(169,815)	(169,815)	(163,617)	0	(6,198)	(177,613)	(170,531)	(7,081)			
3001.A7.03 - Variable Pools Revenue	(8,763)	(8,763)	(7,378)	0	(1,385)	(816,108)	(816,108)	(803,270)	0	(12,838)	(849,770)	(836,595)	(13,175)			
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											0	0	0			
e2. SUBTOTAL (Non - Performance Measurement Baseline)	15,065	15,065	10,086	0	4,978	1,441,479	1,441,479	1,421,531	0	19,948	1,495,955	1,470,241	25,714			
f. MANAGEMENT RESERVE											1,897	1,897	0			
g. TOTAL	44,295	46,044	39,605	1,748.8	6,439	4,412,084	4,408,988	4,294,699	(3,095)	114,289	4,620,227	4,494,891	125,336			
9. RECONCILIATION TO CONTRACT BUDGET BASE																
a. VARIANCE ADJUSTMENT																
b. TOTAL CONTRACT VARIANCE																



5.0 FORMAT 3, DD FORM 2734/3, BASELINE

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

CONTRACT PERFORMANCE REPORT															FORM APPROVED			
FORMAT 3 - BASELINE															OMB No. 0704-0188			
DOLLARS IN Thousands																		
1. Contractor			2. Contract			3. Program			4. Report Period									
a. Name Mission Support Alliance			a. Name Mission Support Contract			a. Name Mission Support Contract			a. From (2020/06/22)									
b. Location (Address and Zip Code) Richland, WA 99352			b. Number RL14728			b. Phase Operations			b. To (2020/07/26)									
c. TYPE CPAF			d. Share Ratio			c. EVMS ACCEPTANCE No X Yes												
5. CONTRACT DATA																		
a. ORIGINAL NEGOTIATED COST \$2,854,966			b. NEGOTIATED CONTRACT CHANGES \$1,765,261		c. CURRENT NEGOTIATED COST (a+b) \$4,620,227		d. ESTIMATED COST OF UNAUTHORIZED UNPRICED WORK \$0			e. CONTRACT BUDGET BASE (C+D) \$4,620,227		f. TOTAL ALLOCATED BUDGET \$4,620,227			g. DIFFERENCE (E - F) \$0			
h. CONTRACT START DATE 2009/05/24			i. CONTRACT DEFINITIZATION DATE 2009/05/24			j. PLANNED COMPLETION DATE 2020/11/25			k. CONTRACT COMPLETION DATE 2020/11/25		l. ESTIMATED COMPLETION DATE 2020/11/25							
6. PERFORMANCE DATA																		
ITEM (1)	BCWS CUMULATIVE TO DATE (2)	BCWS FOR REPORT PERIOD (3)	BUDGETED COST FOR WORK SCHEDULED (BCWS) (Non-Cumulative)															
			Six Month Forecast By Month							Remaining Forecast By Month							UNDISTRIBUTED BUDGET (15)	TOTAL BUDGET (16)
			AUG FY20 (4)	SEP FY20 (5)	OCT FY21 (6)	NOV FY21 (7)	DEC FY21 (8)	JAN FY22 (9)	FEB FY21 (10)	MAR FY21 (11)	APR FY21 (12)	MAY FY21 (13)	JUN FY21 (14)					
a. PERFORMANCE MEASUREMENT BASELINE (Beginning of Period)	2,941,374	29,127	25,732	52,618	26,044	33,127	0	0	0	0	0	0	0	0	(114,616)	2,993,407		
b. BASELINE CHANGES AUTHORIZED DURING REPORT PERIOD	29,230	(29,127)	1,566	2,832	(922)	(1,697)	0	0	0	0	0	0	0	0	127,086	128,967		
c. PERFORMANCE MEASUREMENT BASELINE (End of Period)	2,970,605	0	27,297	55,450	25,122	31,430	0	0	0	0	0	0	0	0	12,470	3,122,374		



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

FORM APPROVED
OMB No. 0704-0188

DOLLARS IN Thousands

1. Contractor		2. Contract		3. Program			4. Report Period										
a. Name Mission Support Alliance		a. Name Mission Support Contract		a. Name Mission Support Contract			a. From (2020/06/22)										
b. Location (Address and Zip Code) Richland, WA 99352		b. Number RL14728		b. Phase Operations			b. To (2020/07/26)										
c. TYPE CPAF		d. Share Ratio		c. EVMS ACCEPTANCE No X Yes													
6. PERFORMANCE DATA																	
ITEM (1)	BCWS CUMULATIVE TO DATE (2)	BCWS FOR REPORT PERIOD (3)	BUDGETED COST FOR WORK SCHEDULED (BCWS) (Non-Cumulative)													UNDISTRIBUTED BUDGET (15)	TOTAL BUDGET (16)
			Six Month Forecast By Month						Remaining Forecast By Month								
			AUG FY20 (4)	SEP FY20 (5)	OCT FY21 (6)	NOV FY21 (7)	DEC FY21 (8)	JAN FY22 (9)	FEB FY21 (10)	MAR FY21 (11)	APR FY21 (12)	MAY FY21 (13)	JUN FY21 (14)				
a2. NON - PERFORMANCE MEASUREMENT BASELINE (Beginning of Period)	1,426,414	15,065	12,861	18,554	10,210	12,851	0	0	0	0	0	0	0	0	(52,033)	1,443,922	
b2. BASELINE CHANGES AUTHORIZED DURING REPORT PERIOD	15,065	(15,065)	0	0	0	(0)	0	0	0	0	0	0	0	0	52,033	52,033	
c2. NON - PERFORMANCE MEASUREMENT BASELINE (End of Period)	1,441,479	0	12,861	18,554	10,210	12,851	0	0	0	0	0	0	0	0	0	1,495,955	
7. MANAGEMENT RESERVE																1,898	
8. TOTAL	4,412,084	0	40,158	74,004	35,333	44,281	0	0	0	0	0	0	0	0	12,470	4,620,227	



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 (2019/06/22)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2020/07/26)
	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):

3001.03.02 Information Systems – The unfavorable CM CV is primarily due to the payment of the Microsoft PowerApps procurement. The project time phased the budget for September, but the contract award was ahead of the original schedule.

3001.03.05 IR/CM Management – The unfavorable CM CV is primarily due to an overrun in computer hardware/software due to various procurements from IM Buy-Back plans, as well as an overrun in labor due to support on various IM software projects (508 Compliance, etc.)

3001.04.03 Electrical Services – The favorable CM CV is primarily due to the COVID-19 stop work and "essential mission critical operations" posture and less lineman than are normally on site.

3001.04.14 Land and Facilities Management – The favorable CM CV is primarily due to the COVID-19 stop work and "essential mission critical operations" posture.

3001.08.01 Water System – The favorable CM CV is primarily Project L-895, "Fire Protection Infrastructure for PRW" primarily due to early remobilization of construction fieldwork delayed by the COVID-19 stop work. Due to this early remobilization, the construction subcontractor's COVID-19 labor and equipment standby costs were six weeks less than the planned amount.

3001.A1 – 3001.B1 Non-PMB – The favorable CM CV is primarily due to a reduction in Variable Services 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 (2019/06/22)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2020/07/26)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NO X YES	
5. Evaluation				

Variable Service Pools - Non-PMB – The WBS elements 3001.01.04 – 3001.06.06 represent the usage-based pool, General and Administrative (G&A), and Direct Labor Adder (DLA) accounts. Offsetting liquidation of service to customers occur with WBS 3001.A7.01 - 3001.A7.03. The primary driver for the underrun of the variable pool revenue in June is the time-phased plan for Information Technology (IT) revenue projections. The IT variable pool revenue baseline planned for a high liquidation in July in conjunction with the high level of costs for the Microsoft license procurement; however, the actual IT liquidation performance is a level burn rate over twelve months, thus the July liquidation plan spike was set higher than actual performance level.

Impacts – Current Month Cost Variance: No significant impacts associated with this CM CV. The COVID-19 related underruns are currently under review for possible future contract action.

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” due to early remobilization of construction fieldwork delayed by the COVID-19 stop work. Remobilization of the 200W construction fieldwork, planned to start mid-August, started early on July 6th due to close coordination with the construction subcontractor and MSA Field Execution. Due to this early remobilization, the planned duration for the construction subcontractor's COVID-19 labor and equipment standby completed six weeks earlier than planned. Additionally, remobilization has allowed for schedule recovery of fieldwork activities originally planned to complete prior to or during the COVID-19 stop work period. These activities include draining the 200W Pump House reservoir, installing the reservoir gate valves, and continuing installation of the electrical equipment in the 282W Pump House.



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 (2019/06/22)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2020/07/26)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NO X YES	
5. Evaluation				

3001.08.02 Sewer System – Contracts, field execution and the construction subcontractor supporting efforts to perform tie-in and decommissioning fieldwork earlier than planned resulted in a favorable CM SV on Project L-854 “200E Sewer Consolidations”.

3001.08.03 Electrical System – The favorable CM SV resulted because project L-789 “Priorit T&D Sys Wood PP Test & Replace” had a schedule recovery related to construction performance on all corridors. The project expects the schedule to recover after nearly four-months of COVID-19 related schedule delay and expects completion by 9/30/2020.

3001.08.04 Roads and Grounds – The favorable CM SV resulted from the implementation of Baseline Change Request (BCR) VMSA-20-047, which introduced a point adjustment in the current period on both Project L-883 “Chip Seal Rt 10, SR-240 to WYE Barricade” and L-534 “Overlay Interior 200 East Roads”. Initial COVID-19 schedule impacts delayed subcontract solicitation issuance due to the need to perform a bid walk. Performing the bid walk occurred when staff returned to work following the “essential mission critical operations” posture. Delays to issuing the solicitation resulted in a delay to the subcontract award and follow-on construction fieldwork activities. (A BCR implemented in Fiscal Month May incorporated these anticipated COVID-19 cost and schedule impacts). Additionally, due to the ongoing COVID-19 “essential mission critical operations” posture and anticipated requirements for returning to work, MSA developed a remobilization plan for fieldwork. Based on this remobilization plan, field work for Projects L-534 and L-883 will not be able to start in the timeframe necessary to be performed this construction season and will need to be postponed until 2021. The project implemented BCR VMSA-20-047 during Fiscal Month July to align the project baseline with the new execution plan resulting in a point adjustment in the current period.



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 (2019/06/22)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2020/07/26)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NO X YES	
5. Evaluation				

3001.08.05 Facility System – The favorable CM SV resulted from Project L-797 “Key Facilities HVAC Replacements” performing work scheduled in a prior period. The last half of the HVAC units arrived in July. In the original schedule, the units were due to arrive in May. The project placed the shipment on hold in April due to COVID-19 impacts.

3001.08.09 Capital Equipment Not Related to Construction – The favorable CM SV resulted from “Transportation System – CENRTC” ER16, Replace Caterpillar D-8 Dozer HO 63-05582, Dozer, planned for September, but received in July.

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 FY 2019 year-end variance distributions; labor underruns resulting from implementation of 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 a Project L-894 “Raw Water Cross Connect Isolation 200E/W” Engineering Study report costing less than planned, conceptual design utilizing less resources than originally planned, the Definitive Design cost underrun, and due to the firm fixed price construction contract being awarded at less than the planned value.

In addition, completed projects:



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 (2019/06/22)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2020/07/26)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NO X YES	
5. Evaluation				

- 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. The underruns in the liquidations/revenue accounts (3001.A7.01 – 3001.A7.03) are primarily due to labor underruns in FY 2020 resulting from implementation of COVID-19. These COVID-19 related underruns are currently under review for possible future contract action.

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. The COVID-19 related underruns are currently under review for possible future contract action.



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 (2019/06/22)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2020/07/26)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NO X YES	
5. Evaluation				

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” delays in several construction and 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. The COVID-19 stop work and procurement related inefficiencies also contributed to the unfavorable SV.

3001.08.02 Sewer System – Favorable CTD SV is due to both Project L-853 “200E Sewer Flow Equalization Facility” and Project L-854 “200E Sewer Construction” being driven by Contracts, field execution and the construction subcontractor supporting efforts to remobilize for field work earlier than planned.

3001.08.03 Electrical System – Unfavorable CTD SV is primarily due to 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). The DCNs were necessary to provide contractor support and training due to the COVID-19 pandemic. In addition, the line drop resulted in a suspension of electrical hot work and was an impact to the schedule. The fieldwork has also been affected with the current "essential mission critical operations" posture at the Hanford site related to the COVID-19 pandemic. The partial shutdown of construction due to COVID-19 resulted in a four-month schedule delay that may not be recoverable.

3001.08.08 Network Telecommunication System – The unfavorable CTD SV is primarily from the Project L-919 “Emergency Radio Upgrade”. The current procurement strategy has changed to split this contract into two parts, causing a delay to the originally planned award of the services contract. The project expects award of the Services contract in August and the Construction contract in October.



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 (2019/06/22)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728		b. Phase - Operations	b. To (2020/07/26)
	c. Type CPAF	d. Share Ratio	c. EVMS Acceptance NO X YES	
5. Evaluation				
<p>Impacts - Cumulative Schedule Variance: Impacts to Reliability Projects are minimal because most reliability projects are independent stand-alone projects.</p> <p>Corrective Action – Cumulative Schedule Variance: No corrective action is required because most of these projects are stand-alone. Projects impacted by the COVID-19 pandemic are evaluating the need to implement changes to the baseline as needed.</p> <p>Variance at Complete:</p> <p>The favorable VAC in the Performance Measurement Baseline (PMB) and non-PMB is primarily due to current fiscal year to date underruns (primarily due to the COVID-19 pandemic), fiscal year 2019 underruns pending definitization of the cost variance credit proposal and affiliate credits on the IT scope and training on overtime.</p> <p>The current MSC EAC does not reflect the impact of charging COVID-19 costs direct to an end-objective WBS. MSA submitted an implementation plan for this cost change. Upon DOE-RL approval of the implementation plan, MSA will incorporate the COV cost change and reflect this action in the appropriate WBS EAC during August 2020.</p> <p>Impacts – At Complete Variance: None.</p> <p>Corrective Action - At Complete Variance:</p> <p>MSA does not anticipate resolution of the affiliate credit on IT scope prior to the end of the MSA contract on November 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 July 2020. The project expects the variance to decrease in August 2020 once DOE-RL approves the direct charging of the COVID-19 indirect costs.</p>				



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

1. Contractor	2. Contract	3. Program	4. Report Period
a. Name Mission Support Alliance	a. Name Mission Support Contract	a. Name Mission Support Contract	a. From (2019/06/22)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728	b. Phase - Operations	b. To (2020/07/26)
	c. Type CPAF	d. Share Ratio NO X YES	
5. Evaluation			
<p>During July 2020, MSA received Contract Modification 913, “Revises Section J-4-L Extension 3 PEMP (MAY 26, 2020 THRU NOVEMBER 25, 2020)” allowing work to be detailed planned an additional six months. The definitization of the contract extension eliminated the credit to UB.</p> <p><u>Negotiated Contract Changes:</u></p> <p>The Negotiated Contract Cost for July 2020 increased \$181.0M from \$4,439.2M to \$4,620.2M due to a contract modification 913 definitizing the contract extension to November 25, 2020.</p> <p><u>Changes in Estimated Cost of Authorized Unpriced Work:</u></p> <p>The Authorized Unpriced Work (AUW) for the reporting period remained at zero.</p> <p><u>Changes in Estimated Price:</u></p> <p>The Estimated Price for July 2020 is \$4,774.6M. The June 2020 monthly performance report overstated the Estimated Price by including a forecast for Undistributed Budget that was also included in the baseline forecast. The correct June Estimated Price was \$4,733.7M. The primary change during July 2020 was due to incorporating fee for the extension. The Estimated Price includes the Most Likely Management Estimate at Completion (MEAC) of \$4,494.9M and fee of \$249.7M.</p> <p><u>Changes in Undistributed Budget:</u></p> <p>The Undistributed Budget (UB) for this reporting period changed by \$179.1M from \$(166.6M) to \$12.5M. The primary reason for the change was the definization of the extension to November 25, 2020, which removed the UB credit used to allow for June 2020 detail planning with an initial increase in contract value of \$75.0M.</p> <p>The following BCRs changed the UB:</p>			

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

1. Contractor	2. Contract	3. Program	4. Report Period
a. Name Mission Support Alliance	a. Name Mission Support Contract	a. Name Mission Support Contract	a. From (2019/06/22)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728	b. Phase - Operations	b. To (2020/07/26)
	c. Type CPAF	d. Share Ratio NO X YES	
5. Evaluation			

- VMSA-20-53 - Mod 913 - Definitize Contract Extension of May 26, 2020, to Nov 25, 2020 and Increases Unallocated Budget & Fee
- VMSA-20-047 - Move L-534 & L-883 Road Projects Procurement/Construction Work Scope to Post-Contract and Move Budget to SWS-UB
- VSWs-20-007 - Move SWS-UB to SWS PMB for Items on the Buy-Back List

Changes in Management Reserve:

The MR for this reporting period remained the same at \$1.9M.

Differences in the Performance Measurement Baseline:

This reporting period the Performance Measurement Baseline increased \$129.0M from \$2,993.4M to \$3,122.4M primarily due to definitization of the contract extension to November 25, 2020 that eliminated the temporary credit to UB.

The following BCRs changed the PMB:

- VMSA-20-052 – Mod 913 - Definitize Contract Extension of May 26, 2020, to Nov 25, 2020 and Increases Unallocated Budget & Fee

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

- VMSA-20-052 – Mod 913 - Definitize Contract Extension of May 26, 2020, to Nov 25, 2020 and Increases Unallocated Budget & Fee
- VSWs-20-007 – Move SWS-UB to SWS PMB for Items on the Buy-Back List
- VMSA-20-047 – Move L-534 & L-883 Road Projects Procurement/Construction Work Scope to Post-Contract and Move Budget to SWS-UB





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

1. Contractor	2. Contract	3. Program	4. Report Period
a. Name Mission Support Alliance	a. Name Mission Support Contract	a. Name Mission Support Contract	a. From (2019/06/22)
b. Location (Address and Zip Code) Richland, WA 99352	b. Number - RL14728	b. Phase - Operations	b. To (2020/07/26)
	c. Type CPAF	d. Share Ratio NO X YES	
5. Evaluation			

The following BCRs were Administrative in Nature and did not change the PMB:

- VMSA-20-004 Rev 9 – Administrative BCR – Create Lower Level Task Order (LLTO) WBSs for Cost Collection Established in the Month of July

Differences in the Non-Performance Measurement Baseline:

This reporting period the non-PMB increased \$ 52.1M to \$1,496.0M from \$1,443.9M due to definitization of the contract extension to November 25, 2020 that eliminated the temporary credit to UB.

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

- VMSA-20-052 – Mod 913 - Definitize Contract Extension of May 26, 2020, to Nov 25, 2020 and Increases Unallocated Budget & Fee.

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 – July 2020					
Account Description	BCWS	BCWP	ACWP	CV	Liquidation
Direct Labor Adder					
Software Engineer Services DLA (3001.03.02.03)	\$2,634.1	\$2,634.1	\$2,605.2	\$28.9	(\$2,465.6)
Content & Records Management DLA (3001.03.01.04)	\$720.0	\$720.0	\$705.6	\$14.4	(\$737.3)
Transportation DLA (3001.04.06.02)	\$5,352.2	\$5,352.2	\$3,795.2	\$1,557.0	(\$3,995.9)
Maintenance DLA (3001.04.05.02)	\$8,546.8	\$8,546.8	\$6,893.9	\$1,652.9	(\$5,730.2)
Janitorial Services DLA (3001.04.05.03)	\$1,154.4	\$1,154.4	\$1,251.9	(\$97.5)	(\$1,096.1)
Total Direct Labor Adder	\$18,407.5	\$18,407.5	\$15,251.8	\$3,155.7	(\$14,025.1)

ACWP = Actual Cost of Work Performed

BCWP = Budgeted Cost of Work Performed

CV = Cost Variance

BCWS = Budgeted Cost of Work Scheduled

BAC = Budget at Completion

FYTD = Fiscal Year to Date



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

Fiscal Year 2020 to Date – July 2020					
Account Description	BCWS	BCWP	ACWP	CV	Liquidation
Usage Based Services					
Training (3001.01.04.02)	\$13,838.7	\$13,838.7	\$12,345.9	\$1,492.8	(\$10,095.1)
HRIP (3001.02.04.02)	\$3,682.3	\$3,682.3	\$2,939.6	\$742.7	(\$2,560.8)
Dosimetry (3001.02.04.03)	\$4,704.1	\$4,704.1	\$3,931.2	\$772.9	(\$4,185.4)
Information Technology Services (3001.03.07.01)	\$28,182.4	\$28,182.4	\$27,812.8	\$369.6	(\$27,276.1)
Work Management (3001.04.13.01)	\$600.0	\$600.0	\$581.0	\$19.0	(\$560.6)
Courier Services (3001.04.15.02)	\$187.8	\$187.8	\$151.0	\$36.8	(\$150.3)
Occupancy (3001.04.14.06)	\$8,478.8	\$8,478.8	\$7,894.0	\$584.8	(\$8,605.1)
Crane & Rigging (3001.04.08.02)	\$10,100.5	\$10,100.5	\$7,023.0	\$3,077.5	(\$6,511.7)
Fleet (3001.04.07.02)	\$14,491.9	\$14,491.9	\$11,516.2	\$2,975.7	(\$11,324.5)
Total UBS	\$84,266.5	\$84,266.5	\$74,194.7	\$10,071.8	(\$71,269.6)
Total DLA / UBS	\$102,674.0	\$102,674.0	\$89,446.5	\$13,227.5	(\$85,294.7)

ACWP = Actual Cost of Work Performed.

CV = Cost Variance

BAC = Budget at Completion.

BCWP = Budgeted Cost of Work Performed.

BCWS = Budgeted Cost of Work Scheduled.

FYTD = Fiscal Year to Date

Variance \$13.2M - The fiscal year to date favorable cost variance is driven by the impacts of the Site Essential Mission Critical Operations and Phase 1 status in response to the COVID19 pandemic during the fiscal months of April through July. The Site posture reduced service requests and subsequent costs across all of the pool accounts, with the exception of an increased need of Custodial services.



8.0 RELIABILITY PROJECT STATUS

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

Table 8-1. Current Active Reliability Project Summary

Projects to be Completed (\$000's)														
Work Scope Description (Reliability Projects)	Contract to Date - Performance							PMB Project Baseline				PMB Completion Dates		
	BCWS	BCWP	ACWP	SV	CV	SPI	CPI	BAC	EAC	VAC	% Complete	Forecast Date	Baseline Complete Date	PMB Schedule at Complete
L-850, Replace 200W 1.1M-gal PW Tank	1,237.8	1,174.7	1,468.0	(63.1)	(293.3)	0.95	0.80	2,612.4	3,080.1	(467.7)	45%	1/25/21	11/20/20	R
L-849, Replace 200E 1.1M-gal PW Tank	752.5	752.7	745.2	0.2	7.5	1.00	1.01	1,163.2	1,110.4	52.8	65%	11/19/20	11/19/20	G
L-894, Raw Water Cross Connection Isolation 200E/W	8,107.0	8,100.8	6,889.6	(6.2)	1,211.2	1.00	1.18	8,315.2	7,116.7	1,198.5	97%	12/09/20	11/19/20	Y
L-895, Fire Protection Infrastructure for Plateau Raw Water	8,994.3	8,472.5	8,404.6	(521.7)	68.0	0.94	1.01	10,361.4	10,250.8	110.6	82%	6/01/21	11/19/20	R
L-357, Replace 12" Potable Water Line to 222-S Lab	1,654.4	1,649.0	1,709.0	(5.3)	(59.9)	1.00	0.96	1,654.4	1,710.1	(55.8)	100%	8/11/20	7/15/19	R
L-781, 181D Vertical Turbine Pumps	601.9	601.9	443.0	0.1	159.0	1.00	1.36	999.4	921.7	77.6	60%	2/10/21	11/19/20	R
L-897, Central Plateau Water Treatment Facility	3,304.4	3,252.6	3,164.4	(51.8)	88.2	0.98	1.03	4,775.1	4,595.2	179.9	68%	6/14/21	11/21/20	R
L-826, 181B Vertical Turbine Pumps	497.6	495.2	385.0	(2.4)	110.2	1.00	1.29	921.1	832.3	88.8	54%	1/04/21	11/19/20	Y
L-839, 12" Potable Water Loop Line to WTP	435.9	455.9	273.4	19.9	182.5	1.05	1.67	499.3	316.9	182.3	91%	11/11/20	11/19/20	G
L-853, 200E Sewer Flow Equalization Facility	6,032.0	6,220.1	6,759.1	188.1	(539.0)	1.03	0.92	6,371.6	6,934.2	(562.6)	98%	12/21/20	11/19/20	Y
L-854, 200E Sewer Consolidations	5,853.2	6,101.2	6,420.5	248.0	(319.3)	1.04	0.95	6,520.4	6,751.4	(231.0)	94%	9/21/20	11/19/20	G
L-789, Prioritize T&D Sys Wood PP Test & Replace	8,564.5	6,622.7	7,366.9	(1,941.8)	(744.2)	0.77	0.90	8,726.0	9,474.2	(748.3)	76%	11/19/20	11/19/20	G
L-898, 100 Area Mission Crit. Dist. Feeders Repl	0.0	15.2	0.3	15.2	14.9	0.00	45.42	166.1	30.5	135.5	9%	11/17/20	11/20/20	G
L-801, Upgrade SCADA	1,380.3	1,303.0	1,325.4	(77.3)	(22.5)	0.94	0.98	1,380.3	1,423.2	(42.9)	94%	1/11/21	11/04/20	R

*** Excludes Level-of-Effort work scopes

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 Date	Baseline Complete Date	PMB Schedule at Complete
L-791, RFL Transfer Trip Upgrades	1,024.0	984.0	808.1	(40.0)	175.9	0.96	1.22	1,112.1	941.7	170.4	88%	3/04/21	11/19/20	R
L-720, Outdoor Lighting Reconfiguration and Repl	203.0	193.1	365.4	(9.9)	(172.3)	0.95	0.53	368.2	412.3	(44.1)	52%	12/21/20	11/19/20	Y
L-707, Advanced Electrical Metering	8.3	7.0	10.5	(1.4)	(3.6)	0.84	0.66	1,030.4	1,030.4	(0.0)	1%	2/17/21	9/30/20	R
H-006, 10 CFR 851	2,912.9	2,671.3	2,478.0	(241.7)	193.2	0.92	1.08	3,347.7	3,016.9	330.8	80%	11/19/20	11/19/20	G
L-861, Single Circuit Distribution Pole Replacement	111.7	112.8	162.5	1.2	(49.7)	1.01	0.69	437.1	630.9	(193.8)	26%	11/19/20	11/19/20	G
L-612, 230kV Trans Sys Recon & Sustainability	1,777.5	1,671.2	1,240.9	(106.3)	430.3	0.94	1.35	2,126.5	2,013.9	112.6	79%	4/21/21	11/19/20	R
L-603, Chip Seal Route 3N (Route 11A to Route 3)	39.4	29.0	22.9	(10.4)	6.1	0.74	1.27	958.6	948.0	10.6	3%	10/20/20	11/19/20	G
L-879, Overlay Cypress Street	40.5	29.0	20.3	(11.5)	8.6	0.72	1.42	1,029.4	1,025.3	4.1	3%	11/03/20	11/19/20	G
L-883, Chip Seal Rt 10, SR-240 to WYE Barricade	11.1	10.1	11.1	(1.0)	(1.1)	0.91	0.90	12.2	11.4	0.8	83%	8/03/20	7/30/20	Y
L-534, Overlay Interior 200 East Roads	10.9	9.9	11.7	(1.0)	(1.9)	0.91	0.84	12.0	12.0	(0.0)	82%	8/03/20	7/30/20	Y
L-888, 400 Area Fire Station	1,709.8	1,677.7	1,650.4	(32.1)	27.4	0.98	1.02	1,776.1	1,752.4	23.7	94%	12/15/20	11/19/20	Y
L-796, Key Facilities Roof Replacements	2,091.4	2,090.4	2,241.0	(1.0)	(150.6)	1.00	0.93	2,092.1	2,242.2	(150.1)	100%	9/28/20	8/20/20	Y
L-907, Fleet Complex Site Development	29.9	26.1	3.9	(3.8)	22.2	0.87	6.64	295.5	54.3	241.1	9%	11/19/20	11/19/20	G
L-798, 2101M HVAC Replacement	265.3	262.2	147.7	(3.1)	114.5	0.99	1.78	265.3	152.1	113.2	99%	8/27/20	7/06/20	R
L-797, Key Facilities HVAC Replacements	409.1	389.1	226.6	(20.0)	162.5	0.95	1.72	409.5	243.4	166.1	95%	9/21/20	7/29/20	Y

*** Excludes Level-of-Effort work scopes

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

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 Date	Baseline Complete Date	PMB Schedule at Complete
L-933, Install Mobile Office Trailers - 200E	51.2	35.1	12.3	(16.1)	22.8	0.69	2.86	1,511.6	1,462.7	48.9	2%	12/22/20	11/19/20	Y
L-934, MSC Office Space Gap Reduction - 200E	31.9	0.0	0.0	(31.9)	0.0	0.00	N/A	1,508.0	1,449.0	59.0	0%	12/30/20	11/19/20	Y
H-008 EVOG Track Resurfacing	51.8	85.0	0.5	33.3	84.5	1.64	173.49	1,203.5	1,155.0	48.5	7%	11/19/20	11/19/20	G
L-905, FARS & RFARS Replacement & Upgrade	160.0	160.0	220.7	0.0	(60.6)	1.00	0.73	244.8	315.2	(70.3)	65%	11/19/20	11/19/20	G
L-921, Telecom Hut at Met Tower	235.5	183.8	220.2	(51.6)	(36.4)	0.78	0.83	931.4	907.6	23.8	20%	11/19/20	11/19/20	G
L-919, Emergency Radio Upgrade	4,090.0	3,911.7	4,308.5	(178.4)	(396.8)	0.96	0.91	5,941.3	6,198.5	(257.2)	66%	1/21/21	11/19/20	R
H-002, Enterprise Health Record System	3,739.8	3,683.7	3,525.8	(56.0)	157.9	0.99	1.04	4,054.0	3,677.1	376.9	91%	11/24/20	11/19/20	Y
H-003, ABCASH	1,973.6	1,985.3	2,354.8	11.8	(369.4)	1.01	0.84	1,994.4	2,380.3	(385.9)	100%	8/06/20	8/06/20	G
H-001, BMS Upgrade	1,016.6	1,014.1	794.1	(2.5)	220.1	1.00	1.28	3,602.4	3,277.9	324.6	28%	12/22/20	11/19/20	Y
L-819, High Capacity Fiber Optic (300 Area)	3.0	0.0	0.0	(3.0)	0.0	0.00	N/A	1,003.6	1,000.2	3.4	0%	11/03/20	9/30/20	Y
IT & IM Infrastructure Upgrade and Improvement	40.8	18.6	38.5	(22.2)	(19.9)	0.46	0.48	2,725.7	2,593.7	132.0	1%	10/07/20	9/23/20	Y
Crane & Rigging System - CENRTC	6,071.3	5,439.1	5,695.8	(632.2)	(256.7)	0.90	0.95	8,329.6	8,586.4	(256.8)	65%	9/23/20	4/15/20	R
Hanford Fire Department - CENRTC	5,026.7	5,026.7	1,988.2	(0.0)	3,038.5	1.00	2.53	5,026.7	1,988.2	3,038.5	100%	4/28/20	10/17/19	R
Transportation System - CENRTC	946.6	1,480.4	2,028.9	533.8	(548.5)	1.56	0.73	1,480.4	2,043.8	(563.4)	100%	7/23/20	9/30/20	G
Total	81,499.4	78,403.9	75,943.6	(3,095.5)	2,460.3	0.96	1.03	109,296.00	106,070.80	3,225.21	72%			

*** Excludes Level-of-Effort work scopes

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: +/- \$500K):

- L-895, *Fire Protection Infrastructure for Plateau Water*: Unfavorable CTD SV 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. The COVID-19 stop work and procurement related inefficiencies also contributed to the CTD SV.
- L-789, *Prioritize T&D Sys Wood PP Test & Replace*: Unfavorable CTD schedule variance is, in part, due to work being impacted by in-process Design Change Notices (DCN) prepared by the construction support Architect/Engineer. The DCN's were necessary to provide contractor support and training due to the COVID-19 pandemic. Additionally, a line drop resulted in a suspension of electrical hot work. In addition, COVID-19 Pandemic impacted field work when DOE-RL placed the Hanford Site into an "essential mission critical operations" status. The partial shutdown of construction due to COVID-19 has resulted in about four-months of schedule delay that is not fully recoverable.
- Crane & Rigging System – CENRTC: The contract to date unfavorable schedule variance is due to the 30-Ton Crane arriving in September (\$632K), instead of when originally planned in April.

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

- L-894, *Raw Water Cross Connection Isolation 200E/W*: Favorable CTD CV is due to the Engineering Study report costing less than planned (\$176K), conceptual design utilizing 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 and associated labor efficiencies (\$669K), and COVID-19 Pandemic impacting field work when DOE-RL placed the Hanford Site into an "essential mission critical operations" status.
- L-853, *200E Sewer Flow Equalization Facility*: The contract to date unfavorable CTD 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 (DCN) have resulted in unplanned subcontract costs in the form of change orders to execute the construction work associated with each change. In addition, the project has experienced unplanned training & material costs.

- *L-789, Prioritize T&D Sys Wood Test & Replace*: The unfavorable CTD 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. In addition, during late winter, the contractor was pulled on to their mutual aid agreement in support of the PUD restoration work north of Seattle. The A/E worked on several new DCNs. MSA staff continued to support work on and charge to the project during this period.
- *Hanford Fire Department – CENRTC*: The favorable CTD CV is due to Replace Ambulance MED-94 costing less than planned (\$1,334.0K) and Replace MED-92, 68G-3979 (2000) that also cost less than planned (\$1,396.5K). These procurements were completed back in 2010 and 2011.
- *Transportation System – CENRTC*: The unfavorable CTD CV is due to Front End Loader/Water Truck/Trailer costing more than planned (\$459.5K). This procurement was completed back in 2010 and 2011.

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

- *L-894, Raw Water Cross Connection Isolation 200E/W*: Favorable VAC is primarily 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), and the firm fixed price construction contract being awarded at less than the planned value (\$699K).

Table 8 -2. Reliability Projects Schedule

RL-40RP CU-july - RL-40 Reliability Projects - Current - Jul 20 Layout: MSA - Summ RP Schedule - PMB CU		Mission Support Alliance				Page 1 of 3		
Activity Name	DO	RO	Forecast Start	Forecast Finish	Baseline Start	Baseline Finish	2019	2020
EC02, Replace Regulated 30-Ton Crane with an 30-Ton Crane - HO 17T-19986 (1993)	123	3	20-Feb-20 A	23-Sep-20	18-Feb-20	15-Apr-20		
EF32, Replace Hazmat 92, (Re-chassis only), HO 68D-3892 (1990) HO 68D-3892 (1990)	8	0	27-Apr-20 A	28-Apr-20 A	07-Oct-19	17-Oct-19		
ER16, Replace Caterpillar D-8 Dozer HO 63-05580 (1985)	7	0	06-Jul-20 A	23-Jul-20 A	21-Sep-20	30-Sep-20		
H-001, BMS Upgrade - Phase II	403	104	20-May-19 A	22-Dec-20	20-May-19	19-Nov-20		
H-002, Enterprise Health Record System	69	69	22-Jun-20 A	24-Nov-20	17-Jun-20	19-Nov-20		
H-003, ABCASH	55	9	15-Jun-20 A	06-Aug-20	10-Jun-20	06-Aug-20		
H-006, 10 CFR 851	430	67	01-Oct-18 A	19-Nov-20	01-Oct-18	19-Nov-20		
H-007, IT & IM Infrastructure and Improvement	52	42	06-Jul-20 A	07-Oct-20	06-Jul-20	23-Sep-20		
H-008, EVOC Track Resurfacing	79	67	06-Jul-20 A	19-Nov-20	06-Jul-20	19-Nov-20		
L-357, Replace 12-in. Potable Water Line to 222-S Lab	622	10	29-Jun-17 A	11-Aug-20	03-Jul-17	15-Jul-19		
L-534, Inlay Interior 200 East Roads	129	5	02-Mar-20 A	03-Aug-20	02-Mar-20	30-Jul-20		
L-603, Overlay Route 3N (Route 11A to Route 3)	164	61	02-Mar-20 A	20-Oct-20	02-Mar-20	19-Nov-20		
L-612, 230kV Transmission System Reconditioning and Sustainability Upgrades - MSA	312	149	01-Oct-19 A	21-Apr-21	30-Sep-19	19-Nov-20		
L-707, Advanced Electrical Metering	908	113	15-Jun-20 A	17-Feb-21	26-May-20	30-Sep-20		
L-720, Outdoor Lighting Reconfiguration and Replacement	551	103	01-Oct-18 A	21-Dec-20	15-Oct-18	19-Nov-20		

 Summary  Baseline	MSC - Reliability Projects Summary Schedule Data Date: 26-Jul-20
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Table 8 -2. Reliability Projects Schedule Cont.

RL-40RP CU-july - RL-40 Reliability Projects - Current - Jul 20 Layout: MSA - Summ RP Schedule - PMB CU		Mission Support Alliance				Page 2 of 3		
Activity Name	OB	RD	Forecast Start	Forecast Finish	Baseline Start	Baseline Finish	2019	2020
L-781, 181D Pump House Vertical Turbine Pump Design	2105	137	01-Oct-12 A	10-Feb-21	01-Oct-12	19-Nov-20		
L-789, Prioritized T&D System Wood Power Poles Testing & Replacement (DFLAW Priority)	1367	83	10-Aug-15 A	19-Nov-20	10-Aug-15	19-Nov-20		
L-791, RFL Transfer Trip Upgrades	712	152	07-May-18 A	04-Mar-21	07-May-18	19-Nov-20		
L-796, Key Facilities Roof Replacements	579	45	29-May-18 A	26-Sep-20	04-Jun-18	20-Aug-20		
L-797, Key Facilities HVAC replacements	118	32	24-Feb-20 A	21-Sep-20	24-Feb-20	29-Jul-20		
L-798, 2101M HVAC Replacement	117	20	23-Jan-20 A	27-Aug-20	03-Feb-20	06-Jul-20		
L-801, Upgrade SCADA	469	32	05-Sep-18 A	11-Jan-21	04-Sep-18	04-Nov-20		
L-819, High Capacity Fiber Optic ((300 Area - Central Plateau)	71	71	27-Jul-20	03-Nov-20	22-Jun-20	30-Sep-20		
L-826, 181 B Vertical Turbine Pumps, Header, Instrumentation, Commission	451	88	01-Oct-18 A	04-Jan-21	01-Oct-18	19-Nov-20		
L-839, 12in Potable Water Loop-Line to WTP	280	62	24-Jun-19 A	11-Nov-20	24-Jun-19	19-Nov-20		
L-849, Replace 200E 1.1M-gal PW Tank	1050	67	10-Aug-15 A	19-Nov-20	24-Aug-15	19-Nov-20		
L-850, Replace 200W 1.1M-gal PW Tank	1374	125	29-Jul-15 A	25-Jan-21	10-Aug-15	20-Nov-20		
L-853, 200E Sewer Flow Equalization Facility	1347	103	17-Aug-15 A	21-Dec-20	17-Aug-15	19-Nov-20		
L-854, 200E Sewer Consolidations	1301	40	17-Aug-15 A	21-Sep-20	17-Aug-15	19-Nov-20		
L-861, Single Circuit Distribution Pole Replacement	176	67	07-Jan-20 A	19-Nov-20	13-Jan-20	19-Nov-20		

 Summary
 Baseline

MSC - Reliability Projects
Summary Schedule
Data Date: 26-Jul-20

Table 8 -2. Reliability Projects Schedule Cont.

RL-40RP CU-july - RL-40 Reliability Projects - Current - Jul 20 Layout: MSA - Summ RP Schedule - PMB CU		Mission Support Alliance				Page 3 of 3		
Activity Name	CO	RO	Forecast Start	Forecast Finish	Baseline Start	Baseline Finish	2019	2020
L-879, Overlay Cypress Street	174	71	02-Mar-20 A	03-Nov-20	02-Mar-20	19-Nov-20		
L-883, Chip Seal Rt 10, SR-240 to WYE Barric	87	5	02-Mar-20 A	03-Aug-20	02-Mar-20	30-Jul-20		
L-888, 400 Area Fire Station	664	99	30-Apr-18 A	15-Dec-20	30-Apr-18	19-Nov-20		
L-894, Raw Water Cross Connection Isolation 200E/W	1078	95	29-Aug-16 A	09-Dec-20	29-Aug-16	19-Nov-20		
L-895, Fire Protection Infrastructure for Plateau Raw Water	1109	214	09-Jan-17 A	01-Jun-21	09-Jan-17	19-Nov-20		
L-897, 200 Area Water Treatment Plant	892	223	29-Nov-17 A	14-Jun-21	29-Nov-17	21-Nov-20		
L-898, 100 Area Mission Critical Distribution Feeders Replacement	602	81	01-Oct-18 A	17-Nov-20	02-Jul-18	20-Nov-20		
L-905, Fire Alarm Report System (FARS) and Radio Fire Alarm Reporter (RFAR) Replacement and	461	29	06-Aug-18 A	19-Nov-20	06-Aug-18	19-Nov-20		
L-907, Fleet Complex Site Development	223	67	24-Feb-20 A	19-Nov-20	24-Feb-20	19-Nov-20		
L-919, Emergency Radio Upgrades	348	99	29-Apr-19 A	21-Jan-21	29-Apr-19	19-Nov-20		
L-921, Telecom Hut at Met Tower	340	67	18-Mar-19 A	19-Nov-20	18-Mar-19	19-Nov-20		
L-934, MSC Office Space Gap Reduction - 200E	86	86	27-Jul-20	30-Dec-20	22-Jun-20	19-Nov-20		
L-933, Installation of Mobile Office Trailers - 200E	83	83	22-Jun-20 A	22-Dec-20	22-Jun-20	19-Nov-20		

Summary
 Baseline

MSC - Reliability Projects
 Summary Schedule
 Data Date: 26-Jul-20



9.0 BASELINE CHANGE REQUEST LOG (BCR)

Baseline Change Request Log for July 2020

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

Two BCRs were authorized by a Contract Modification or RL Direction:

- VMSA-20-052 – Mod 913 - Definitize Contract Extension of May 26, 2020, to Nov 25, 2020 and Increases Unallocated Budget & Fee
- VSWS-20-007 – Move SWS-UB to SWS PMB for Items on the Buy-Back List

One BCR related to Reliability Projects:

- VMSA-20-047 – Move L-534 & L-883 Road Projects Procurement/Construction Work Scope to Post-Contract and Move Budget to SWS-UB

One BCR was Administrative in Nature:

- VMSA-20-004 Rev 9 – Administrative BCR – Create Lower Level Task Order (LLTO) WBSs for Cost Collection Established in the Month of July

Table 9-1. Consolidated Baseline Change Log

Consolidated Baseline Change Log											
\$ in thousands											
						POST CONTRACT BUDGET					
PBS / Other	Reporting Baseline	Contract PMB	Contract PMB Mgmt Reserve	Contract Performance Budget (CPB)	Cum Contract Period	FY20 Budget	FY20 Management Reserve	Post Contract Budget	Post Contract Mgmt Reserve	Total Lifecycle	Cum Lifecycle Budget
Prior PMB Total	Jun 2020	1,230,506		1,230,506	1,230,506	234,777		1,762,902		2,993,407	2,993,407
VMSA-20-004 Rev 9						0		0		0	2,993,407
VMSA-20-047						2,619		0		0	2,993,407
VMSA-20-052						128,967		128,967		128,967	3,122,375
VSWS-20-007						0		0		0	3,122,375
Revised PMB Total	Jul 2020	1,230,506		1,230,506	1,230,506	366,364		1,891,869		3,122,375	
Prior Non-PMB Total	Jun 2020	604,007		604,007		109,625		839,916		1,443,922	1,443,922
VMSA-20-004 Rev 9						0		0		0	1,443,922
VMSA-20-052						52,033		52,033		52,033	1,495,955
Revised Non-PMB Total	Jun 2020	604,007		604,007		161,657		891,949		1,495,955	
Total Contract Performance Baseline	Jul 2020	1,834,513		1,834,513	1,834,513	528,021		2,783,817		4,618,330	
Management Reserve	Jun 2020		0	0			1,898		1,898	1,898	1,898
Revised Management Reserve	Jul 2020		0	0			1,898		1,898	1,898	
Total Contract Budget Base	Jun 2020			1,834,513				2,785,715		4,620,227	
Prior Fee Total	Jun 2020	109,961		109,961		18,212		127,786		237,747	237,747
VMSA-20-052						8,400		12,000		12,000	249,747
Revised Fee Total	Jul 2020	109,961		109,961		26,612		139,786		249,747	
Change Log Total	Jul 2020			1,944,473				2,925,501		4,869,974	



10.0 RISK MANAGEMENT

July 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 Teams¹ and email communication. Mission risks were reviewed by their risk owners. As a result, the only changes made to Mission risks were Administrative in nature and did not affect the overall risk posture. Due to this, no Risk Management Board (RMB) meeting was held. The RMB Presentation will be sent out via electronic RMB approval correspondence, instead of by way of an in-person meeting.
- 2101M risks discussion and draft risks development.

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.
 - All Risk Registers are in the process of being reviewed and updated to encompass a consistent Risk Management approach across all Reliability Projects.
 - Risk elicitation for L-934 was completed along with its respective draft project risk register development. Register approval is expected in early August.
- Risk Management staff reviewed the monthly Operations Project Reports for each Reliability Project, and any related Key Risks for monthly reporting to DOE-RL.

Other Support:

- Baseline Change Request Support
- Annual review of Risk Management mentions in Plan and Procedures for other MSA functional service areas.

¹ Microsoft Teams (also known just as “Teams”) is a unified communication and collaboration software that combines workplace chat, video meetings, and file storage. Developed by Microsoft Corporation Redmond, WA..



- A crosswalk of other MSA procedures and plans, mentioning risk, was started in June and completed in July in efforts to ensure consistency.
- 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, as well as future items.
 - User testing and documentation review began in late June and was completed in mid-July to precede the release of the new Sprint.
 - The development is finalized enhancements to allow for more in depth realization and recovery action tracking for realized risks. Testing for these features was completed in July.
 - Release of Sprint 13 is planned in August. The development team will then release test cases for regression testing, prior to the Sprint 14 push.
- Safran² Risk Analysis Software:
 - Continuous testing is still currently underway, including testing of the new Alpha version that has additional analytical capabilities; such as Probabilistic Cash Flow (PCF). Updates and improvements are continuously being made to the draft desktop instructions and import templates, based on previous webinars and trainings.

² Safran software, a quantitative risk analysis software, is a product of Safran Software Solutions AS, headquartered in Stavenger, Norway.



11.0 DASHBOARD SUMMARY

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

July Fiscal Year 2020 PEMP, Rev 3 Mod 913					
Deliverables			YTD Jul		
1.0 Effective Site Cleanup - Achievement of cleanup contractors' key milestones and regulatory commitments					
1.1	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	Contractor Assurance - Causal Analysis ≥80% causal analysis completed within 45 days			
	e	Contractor Assurance - Issues Resolved ≥90% of issues screened within 5 days of initiation			
	f	Crane and Crew Support: ≥85% 2-business-day turnaround time and ≥85% 1-business-day turnaround time (emergency requests)			
	g	Facilities Maintenance ≥85% on-time completion			
	h	Fire Protection System Maintenance ≥90% of annual goal of 2,639 activities			
	i	Fire Systems - Priority 1 Emergency Impairments ≤3 open Emergency Impairments at month end			
	j	Fire Systems - Priority 2 System Restrictions ≤18 total System Restrictions Priority 2 (SR-2) at end of each month			
	k	Fire Systems - Priority 3 System Restrictions ≤40 total System Restrictions Priority 3 (SR-3) at end of each month			
	l	Fleet Services – Heavy Equipment Cranes; ≥70% in service - Cranes			
	m	Fleet Services – Heavy Equipment Excavators ≥90% in service - Excavators			
	n	Fleet Services – Heavy Equipment General Purpose; ≥90% in service			
	o	Fleet Services – Light Equipment Hanford Patrol; ≥90% in-service			
	p	Fleet Services – Light Equipment Hanford Fire; ≥85% in-service			
	q	Fleet Services – Light Equipment Special Purpose; ≥90% in-service			
r	IT-Cyber Security – System Patching: ≥97% 7-business-day turnaround time (desktops) and ≥97% 14-business-day turnaround time (databases/servers)				
s	RSS - Dosimetry External Services: ≥95% 10-business-day turnaround time (routine exchanges) and ≥95% 30-business-day turnaround time (annual exchanges)				
t	RSS - Instrumentation Calibration ≥90% 10-day turnaround time				

LEGEND

= On Schedule

= Objective missed

= Not Applicable (Updated quarterly)

= Complete

= In jeopardy

Performance Notes:

1.1h Red due to access availability in customer controlled facilities due to Site essential mission critical posture and shortage of MSA resources. Backlog continues to grow and will be challenging even if Site opens fully due to resource issue. With COVID related numbers excluded this metric to the plan is 82%, green

1.1k Red due to access availability in customer controlled facilities due to Site essential mission critical posture. MSAs to return to green as the site opens.



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

July Fiscal Year 2020 PEMP, Rev 3 Mod 913				
Deliverables			YTD Jul	
1.0 Effective Site Cleanup - Achievement of cleanup contractors' key milestones and regulatory commitments				
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		
		Zero regulatory permit violations that result from a failure to complete permit required work package.		
		Ensure all water quality samples are completed on time		
	Quarterly System Health Report by Engineering submitted one calendar month after each quarter			
	Sewer	Perform Preventative maintenance at 90% or better each month		
		Zero regulatory permit violations that result from a failure to complete permit required work package.		
		Quarterly System Health Report by Engineering submitted one calendar month after each quarter		
	Electric	Electrical power availability		
		Perform Preventative maintenance at 90% or better each month		
Zero regulatory permit violations that result from a failure to complete permit required work package.				
Quarterly System Health Report by Engineering submitted one calendar month after each quarter				
1.3	Maximize efficient MSA use of resources to meet the other Hanford contractors' changing project needs.			
2.0 Efficient Site Cleanup - Align resources and capabilities to support the site cleanup mission				
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	Update the Hanford Site 5 Year Plan, as Hanford budgets are confirmed		
	b	Issue the Hanford Life-Cycle Cost Baseline (HLCCB) Rev. 0.		
	c	Establish an HLCCB Rev. 0 Dashboard		
2.2	Demonstrate consolidation of the Hanford Site infrastructure footprint.			
	a	Implementation of a Coarse Wave Division Multiplexing (CWDM) system between the North Richland 1220 Network and Telecommunications facility and the 2220E Central Plateau Network and Telecommunications facility		
	b	Implement a new Essential Services Local Area Network (ES-LAN) as the major hosting and data transport solution.		
	c	Modernize Virtual Desktop Infrastructure		

LEGEND

= On Schedule

= Objective missed

= N/A = Not Applicable (Updated quarterly)

= Complete

= In jeopardy



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

July Fiscal Year 2020 PEMP, Rev 3 Mod 913					
Deliverables			YTD Jul		
2.0 Efficient Site Cleanup - Align resources and capabilities to support the site cleanup mission					
2.3	Demonstrate effective development and management of reliability projects that ensure mission milestones and regulatory commitments are met.				
	a	Project L-897, "200 Area Water Treatment Plant," Award construction contract {Schedule ID L897-5060}			
	b	Project L-853, "200E Sewer Flow Equalization Facility" and L-854, "200E Sewer Consolidation," Sewer system fully operational			
	c	Route 2S/4S Road Study, Brief DOE-RL on completed 2S/4S Road Study and recommendation			
	d	Project L-801, "Upgrade SCADA," 100% design from A&E approved.			
	e	Project L-861, "Single Circuit Distribution Pole Replacement," Initiate 60% (definitive) design			
	f	Project L-888, "400 Area Fire Station," MSA completes Design Revision/Cost Estimate			
3.0 Comprehensive Performance					
Execute the balance of contract work scope within the contract requirements, terms, and conditions, demonstrating excellence in quality, schedule, management, cost control, small business utilization, and regulatory compliance.					
Provide leadership to improve management effectiveness and collaborate and participate proactively with customers.					
Work with DOE and the other Hanford contractors in a spirit of cooperation to demonstrate operational excellence to include, but not limited to, the following areas:					
a	Business and financial management using approved purchasing, estimating, property, budget, planning, billing, labor, accounting, and performance measurement systems, providing visibility and transparency to DOE with respect to each of the foregoing				
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				
Perform work safely and in a compliant manner that assures the workers, public, environment, and national security assets are adequately protected while meeting the performance expectations of the contract. This element includes the Contractor's responsiveness to the novel coronavirus pandemic. Complete Essential services and COVID 19 Planning as defined by the COVID 19 Partial Stop Work Execution Plan and through interaction with DOE and OHC Leadership. Coordinate and integrate the Hanford Site response to both COVID 19 Partial Stop Work services and Implementation of the Hanford Site Remobilization Plan.					
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.					
Demonstrate effective subcontract management, including award of subcontracts as scheduled, inclusion of all requirements, subcontractor audits, and subcontract administration. Contractor will monitor subcontractor performance to ensure compliance with all requirements including small business subcontracting plans, Buy American Act, and applicable labor statutes.					

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 July 2020, and provides a look ahead through August 2020.

Table 12-1. July 2020 – August 2020 Contract Deliverables

CDRL	Deliverable	Responsible	Date Due	Date Submitted to DOE	RL Action	Response Time	Date Due from DOE
CD0088	Electrical Metering Plan Progress Report	Synoground	07/01/20	06/30/20	Review	30 days	07/30/20
CD0123	Monthly Billing Reports for DOE Services - May	Eckman	07/05/20	05/27/20	Information	N/A	N/A
CD0144	Monthly Performance Report - May	Millikin	07/10/20	06/09/20	Review	N/A	N/A
CD0178	Quarterly Manpower Reports and Budget Forecasts	Walton	07/14/20	07/14/20	N/A	N/A	N/A
CD0023a	National Security System (NSS) - Quarterly Status Report	Walton	07/21/20	07/08/20	Review	N/A	N/A
CD0084	BPA Power and Transmission Service invoice verification and breakdown of site contractor costs - May	Synoground	07/30/20	07/29/20	Review	30 days	08/28/20
CD0034	Annual Training Needs Forecast and Plan	Bates	07/31/20	07/29/20	Review	30 days	08/28/20
CD0123	Monthly Billing Reports for DOE Services - June	Eckman	08/05/20	08/04/20	Information	N/A	N/A
CD0144	Monthly Performance Report - June	Millikin	08/10/20	08/05/20	Information	N/A	N/A
CD0007	Patrol Training Plan	Walton	08/15/20	08/13/20	Approve	45 days	09/27/20
CD0026	Site Safeguards and Security Plan (SSSP)	Walton	08/30/20		Approve	120 days	
CD0084	BPA Power and Transmission Service invoice verification and breakdown of site contractor costs - May	Synoground	08/30/20		Review	30 days	

Key:
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 July 2020

Plan Category	MSA Goal	FY 2020 Actual To-Date	Cumulative %
Small Business	50.0%	82.0%	83.5%
Small Disadvantaged Business	10.0%	19.6%	20.2%
Small Women-Owned Business	6.8%	24.4%	16.6%
HubZone	2.7%	10.3%	7.0%
Small Disadvantaged, Service Disabled	2.0%	14.1%	8.1%
Veteran-Owned Small Business	2.0%	14.2%	9.3%

Prime Contract Targets:

- At least 40% contracted out beyond MSA, LLC = 34.8% (\$1.696B/\$4.870B)
- Small Business 25% of Total Mission Support Contract (MSC) Value = 29.0% (\$1.417B/\$4.870B)

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.