

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. Contract ID Code
Cost Plus Fixed Fee

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2. Amendment/Modification No. P00091	3. Effective Date 2014MAR19	4. Requisition/Purchase Req No. SEE SCHEDULE	5. Project No. (If applicable)
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6. Issued By U.S. ARMY CONTRACTING COMMAND YULANDA BEE WARREN, MICHIGAN 48397-5000 HTTP://CONTRACTING.TACOM.ARMY.MIL EMAIL: YULANDA.BEE@US.ARMY.MIL	Code W56HZV	7. Administered By (If other than Item 6) DCMA CHICAGO 1523 WEST CENTRAL ROAD BLDG 203 ARLINGTON HEIGHTS IL 60005-2451	Code S1403A
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8. Name And Address Of Contractor (No., Street, City, County, State and Zip Code) NAVISTAR DEFENSE LLC 2701 NAVISTAR DRIVE LISLE, IL 60532-3637	<input type="checkbox"/>	9A. Amendment Of Solicitation No.
	<input type="checkbox"/>	9B. Dated (See Item 11)
	<input checked="" type="checkbox"/>	10A. Modification Of Contract/Order No. W56HZV-10-C-0011
	<input type="checkbox"/>	10B. Dated (See Item 13) 2009OCT27
Code 338X5	Facility Code	

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in item 14. The hour and date specified for receipt of Offers

is extended, is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods: (a) By completing items 8 and 15, and returning _____ copies of the amendments; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. **FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER.** If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. Accounting And Appropriation Data (If required) Payment will be made by Electronic Funds Transfer
SEE SECTION G (IF APPLICABLE)

**13. THIS ITEM ONLY APPLIES TO MODIFICATIONS OF CONTRACTS/ORDERS
It Modifies The Contract/Order No. As Described In Item 14.**

<input type="checkbox"/>	A. This Change Order is Issued Pursuant To: The Contract/Order No. In Item 10A.	The Changes Set Forth In Item 14 Are Made In
<input type="checkbox"/>	B. The Above Numbered Contract/Order Is Modified To Reflect The Administrative Changes (such as changes in paying office, appropriation data, etc.) Set Forth In Item 14, Pursuant To The Authority of FAR 43.103(b).	
<input checked="" type="checkbox"/>	C. This Supplemental Agreement Is Entered Into Pursuant To Authority Of:	MUTUAL AGREEMENT OF BOTH PARTIES
<input type="checkbox"/>	D. Other (Specify type of modification and authority)	

E. IMPORTANT: Contractor is not, is required to sign this document and return _____ copies to the Issuing Office.

14. Description Of Amendment/Modification (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

SEE SECOND PAGE FOR DESCRIPTION

Except as provided herein, all terms and conditions of the document referenced in item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. Name And Title Of Signer (Type or print)	16A. Name And Title Of Contracting Officer (Type or print) RICHARD HARRIS RICK.HARRIS3@US.ARMY.MIL (586)282-8040		
15B. Contractor/Offeror _____ (Signature of person authorized to sign)	15C. Date Signed	16B. United States Of America By _____ /SIGNED/ (Signature of Contracting Officer)	16C. Date Signed 2014MAR19

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MOD/AMD P00091

Name of Offeror or Contractor: NAVISTAR DEFENSE LLC

SECTION A - SUPPLEMENTAL INFORMATION

Buyer Name: YULANDA BEE
 Buyer Office Symbol/Telephone Number: CCTA-ADE/(586)282-4258
 Type of Contract: Cost Plus Fixed Fee
 Kind of Contract: Service Contracts
 Type of Business: Large Business Performing in U.S.
 Surveillance Criticality Designator: A
 Weapon System: No Identified Army Weapons Systems
 Contract Expiration Date: 2014DEC31

*** End of Narrative A0000 ***

The purpose of Modification P00091, Contract W56HZV-10-C-0011 is:

1. This modification exccercises 19,836 STS LOE hours for Work Directive MP14-0130-R0 (Maxx Pro LWB Ambulance Full Sustainment) on the following CLIN:

CLIN	Prior	This Change	Total CLIN 0501
0501AG Engineering - Option 5			
WD: MP14-0130-R0 (Maxx Pro LWB Ambulance Full Sustainment)			
Hours	50,491	19,836	70,327
Estimated Cost	\$5,569,157.30	\$2,187,910.80	\$7,757,068.10
Materials/ODCs (w/G&A)	\$ 0.00	\$ 0.00	\$ 0.00
Total Cost	\$5,569,157.30	\$2,187,910.80	\$7,757,068.10
Labor Fee	\$ 473,605.58	\$ 186,061.68	\$ 659,667.26
Materials/ODCs Fee	\$ 0.00	\$ 0.00	\$ 0.00
Total Fee	\$ 473,605.58	\$ 186,061.68	\$ 659,667.26
Total CPFF	\$6,042,762.88	\$2,373,972.48	\$8,416,735.36

2. This modification exccercises 15,259 STS LOE hours for Work Directive MP14-0130-R0 (Maxx Pro LWB Ambulance Full Sustainment) on the following CLIN:

CLIN	Prior	This Change	Total CLIN 0503
0503AG Logistics - Option 5			
WD: MP14-0130-R0 (Maxx Pro LWB Ambulance Full Sustainment)			
Hours	29,626	15,259	44,885
Estimated Cost	\$2,711,964.04	\$1,396,808.86	\$4,108,772.90
Materials/ODCs (w/G&A)	\$ 0.00	\$ 0.00	\$ 0.00
Total Cost	\$2,711,964.04	\$1,396,808.86	\$4,108,772.90
Labor Fee	\$ 230,490.28	\$ 118,715.02	\$ 349,205.30
Materials/ODCs Fee	\$ 0.00	\$ 0.00	\$ 0.00
Total Fee	\$ 230,490.28	\$ 118,715.02	\$ 349,205.30
Total CPFF	\$2,942,454.32	\$1,515,523.88	\$4,457,978.20

3. This modification acquires \$24,679.61 of travel in support of Work Directive MP14-0130-R0 (Maxx Pro LWB Ambulance Full Sustainment) on the following CLIN:

CLIN	Prior	This Change	Total CLIN 0507
0507AJ Travel - Option 5			
WD: MP14-0130-R0 (Maxx Pro LWB Ambulance Full Sustainment)			
Estimated Cost	\$ 558,678.20	\$ 24,679.61	\$ 583,357.81
Total Fee	\$ 0.00	\$ 0.00	\$ 0.00
Total CPFF	\$ 558,678.20	\$ 24,679.61	\$ 583,357.81

4. This modification acquires \$2,159,400.40 of ODC's/Material for Work Directive MP14-0130-R0 (Maxx Pro LWB Ambulance Full Sustainment) on the following CLIN:

CLIN	Prior	This Change	Total CLIN 0508
0508AG ODC's - Option 5			
WD: MP14-0130-R0 (Maxx Pro LWB Ambulance Full Sustainment)			
Estimated Cost	\$4,198,068.56	\$ 1,990,230.78	\$6,188,299.34
Total Fee	\$ 356,999.06	\$ 169,169.62	\$ 526,168.68
Total CPFF	\$4,555,067.62	\$ 2,159,400.40	\$6,714,468.02

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5. This modification changes the option year exercised hours as follows:
- a. The total contract hours exercised for Year 1 was 43,243. The total contract hours exercised for Year 2 was 79,622. The total contract hours exercised for Year 3 was 121,973. The total contract hours currently exercised for Year 4 was 376,574. The total contract hours currently for Year 5, including this modification is 234,332. The total contract hours exercised to date is 855,744.
 - b. The hours exercised to date for Year 5 is 234,322 leaving 202,557 hours available (reduced from 436,889).
 - c. The STS LOE hours and agreed upon Labor and Overhead rates exercised under Modification P00091 are detailed below:
 - d. The composite rate of \$119.68 (\$110.30 plus the contractor's fixed fee of \$9.38) was applied to Engineering Labor Hours.
 - e. The composite rate of \$99.32 (\$91.54 plus the contractor's fixed fee of \$7.78) was applied to Logistic Labor Hours.
 - f. The composite rate of \$59.20 (\$54.56 plus the contractor's fixed fee of \$4.64) was applied to OCONUS FSRs.
 - g. This modification impacts the contract amount. This contractual action increases the total contract amount by \$5,601,870.77 from the prior amount of \$82,952,096.98 to a total of \$88,553,967.75.
 - h. The total Material/ODC/Travel dollars ceiling for FY 2014 is \$12,472,720.96. The total Material/ODC/Travel dollars used for Option Year 5, including Modification P00091, is \$7,262,238.80. The total Material/ODC/Travel dollars remaining for Option Year 5 is \$5,210,482.16.
6. Reduce CLIN 0505AB by -\$471,705.60 from \$4,009,497.60 to \$3,537,792.00, as a result of the drawn down of two (2) FSRs in Afghanistan (WDMP14-0134-R0).
7. Update Section C Description/Specifications/Work Statement to add the following sections: C.5.15, C.10.3.4, C.10.3.5 and C.12.2.
8. Update Section J, Exhibit AA, to include CDRLs A0123 - A135.
9. Update Section J, to add attachments 0081-0086.

	Prior	This Change	Total
Estimated Cost	\$76,703,117.10	\$ 5,164,895.97	\$81,860,013.07
Fixed Fee	\$ 6,248,979.88	\$ 436,974.80	\$ 6,895,954.68
Total Contract Value	\$82,952,096.98	\$ 5,601,870.77	\$88,553,967.75

*** END OF NARRATIVE A0091 ***

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Name of Offeror or Contractor: NAVISTAR DEFENSE LLC

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
	Administrative Fund Swop Estimated Labor Cost: \$ -434,734.08 Materials/ODCs(w/G/A): \$ 0.00 Total Cost: \$ -434,734.08 Labor Fee: \$ -36,971.52 Materials/ODCs Fee: \$ 0.00 Total Fee: \$ -36,971.52 CPFF: \$ -471,705.60 Updated Costs and fees for CLIN 0505AB Estimated Labor Cost: \$3,695,239.68 Materials/ODCs(w/G/A): \$ 0.00 Total Cost: \$3,695,239.68 Labor Fee: \$ 314,257.92 Materials/ODCs Fee: \$ 0.00 Total Fee: \$ 314,257.92 CPFF: \$4,009,497.60 LEVEL OF EFFORT: 75,696 HRS - 7,968 HRS Equals 67,728 HRS Remaining CLIN 0505AB MOD: P00091 START OF WORK: 01 MARCH 2014 COMPLETION DATE: 31 December 2014 Draw Down two FSRs (Afghanistan) Estimated Labor Cost: \$3,695,239.68 Materials/ODCs(w/G/A): \$ 0.00 Total Cost: \$3,695,239.68 Labor Fee: \$ 314,257.92 Materials/ODCs Fee: \$ 0.00 Total Fee: \$ 314,257.92 CPFF: \$4,009,497.60 Estimated Labor Cost: \$ -434,734.08 Materials/ODCs(w/G/A): \$ 0.00 Total Cost: \$ -434,734.08 Labor Fee: \$ -36,971.52 Materials/ODCs Fee: \$ 0.00 Total Fee: \$ -36,971.52 CPFF: \$ -471,705.60 Updated Costs and fees for CLIN 0505AB Estimated Labor Cost: \$3,260,505.60 Materials/ODCs(w/G/A): \$ 0.00 Total Cost: \$3,260,505.60 Labor Fee: \$ 277,286.40 Materials/ODCs Fee: \$ 0.00 Total Fee: \$ 277,286.40 CPFF: \$3,537,792.00 LEVEL OF EFFORT: 67,728 HRS - 7,968 HRS Equals 59,760 HRS Remaining CLIN 0505AB				

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Name of Offeror or Contractor: NAVISTAR DEFENSE LLC

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
	(End of narrative B001)				
	<u>Inspection and Acceptance</u> INSPECTION: Destination ACCEPTANCE: Destination <u>Deliveries or Performance</u> DLVR SCH PERF COMPL REL CD QUANTITY DATE 001 1 31-DEC-2014 \$ 3,537,792.00				
0507	TRAVEL				
0507AJ	MP14-0130-R0 MAXXPLO LWB AMBULANCE FULL <u>SUSTAINMENT</u> SERVICE REQUESTED: TRAVEL CLIN CONTRACT TYPE: Cost No Fee PRON: 2M4SME15Q7 PRON AMD: 01 ACRN: CP Mod P00091 START OF WORK: Date 19 MAR 14 COMPLETION DATE: 31 DEC 14 LEVEL OF EFFORT: n/a CLIN 0507AJ Estimated Travel Cost: \$24,679.61 Total Fee: N/A CPFF: \$24,679.61 (End of narrative B001)	1	LO		\$ 24,679.61
	<u>Inspection and Acceptance</u> INSPECTION: Destination ACCEPTANCE: Destination <u>Deliveries or Performance</u> DLVR SCH PERF COMPL REL CD QUANTITY DATE 001 1 31-DEC-2014 \$ 24,679.61				

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Name of Offeror or Contractor: NAVISTAR DEFENSE LLC

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT									
0508	OTHER DIRECT COSTS													
0508AH	<p>MP14-0130-R0 MAXXPLO LWB AMBULANCE FULL SUSTAINMENT</p> <p>SERVICE REQUESTED: OTHER DIRECT COSTS CLIN CONTRACT TYPE: Cost Plus Fixed Fee PRON: 2M4SME15Q7 PRON AMD: 01 ACRN: CP</p> <p>Mod P00091</p> <p>START OF WORK: Date 19 MAR 14</p> <p>COMPLETION DATE: 31 DEC 14</p> <p>LEVEL OF EFFORT: N/A CLIN 0508AH</p> <p>(End of narrative B001)</p> <p><u>Inspection and Acceptance</u> INSPECTION: Destination ACCEPTANCE: Destination</p> <p><u>Deliveries or Performance</u></p> <table border="0"> <tr> <td>DLVR SCH</td> <td></td> <td>PERF COMPL</td> </tr> <tr> <td><u>REL CD</u></td> <td><u>QUANTITY</u></td> <td><u>DATE</u></td> </tr> <tr> <td>001</td> <td>1</td> <td>31-DEC-2014</td> </tr> </table> <p>\$ 2,159,400.40</p>	DLVR SCH		PERF COMPL	<u>REL CD</u>	<u>QUANTITY</u>	<u>DATE</u>	001	1	31-DEC-2014	1	LO	Estimated Cost Fixed Fee Not to Exceed (Funding)	\$ 1,990,230.78 \$ 169,169.62 \$ 2,159,400.40
DLVR SCH		PERF COMPL												
<u>REL CD</u>	<u>QUANTITY</u>	<u>DATE</u>												
001	1	31-DEC-2014												

Name of Offeror or Contractor: NAVISTAR DEFENSE LLC

SECTION C - DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

Table of Contents:

C.1 General

C.2 Management and Administration

C.3 Engineering Design Support for 2D-3D Models, Indentured Bill of Materials (IBOMs), and Drawings

C.4 System/Subsystem Design Engineering Support

C.5 General Configuration Management System/Subsystem/Design Engineering Support

C.6 ILSC and Logistical Support Services

C.7 Provisioning

C.8 Support for Government Furnished Property (GFP)

C.9 Packaging, Handling, Storage and Transportation (PHS&T)

C.10 Technical Manuals and Publications

C.11 Quality Engineering and Quality Assurance Support Services

C.12 Technical Training and Training Support Services

C.13 Contractor Field Service Representatives (CFSRs) Support and Services

C.14 Deployment

C.15 Item Unique Identification (IUID)

C.1 General

C.1.1 The Contractor, as an independent Contractor, and not as an agent of the Government, shall provide Systems Technical Support (STS)/System Sustainment Technical Support (SSTS) for Mine Resistant Ambush Protected (MRAP) Vehicle systems. Any reference in this section to MRAP Family of Vehicles (FOVs) applies specifically to the MRAP MaxxPro FOVs.

C.1.2 The baseline products for select deliverables under this contract will be provided as Government Furnished Information (GFI) by the Government. Baseline products for these deliverables will be provided at the time of related Work Directive(s) award.

C.1.3 The Contractor may be required to address issues and provide analysis on a total MRAP fleet basis to include other Original Equipment Manufacturer (OEM) Vehicles.

C.1.4 All efforts described in this Statement of Work will be initiated by the issuance of Work Directives (WDs). The contractor is not entitled to any payment unless the work is pursuant to a WD approved by the Procuring Contracting Officer (PCO). For purposes of application of the Order of Precedence Clause, FAR 52.215-8, work directives shall be considered Government instructions under the contract.

C.2 Management and Administration:

C.2.1 Preparation of WDs

C.2.1.1 Upon award of this contract, the Government will issue a WD to execute management and administration as outlined in the paragraphs below.

C.2.1.2 Work directives will be initiated by the Government by issuing to the Contractor a proposed/preliminary draft of work to be accomplished. All new work directives shall have a cost estimate prepared by the contractor to support the proposed work. The Government may issue a work directive for the Contractor to provide information and expertise in the development of a new work directive to be approved by the Government prior to issuance. Each work directive will define the frequency, format and fidelity of information to be delivered. The contractor shall notify the Government immediately of any work directive that duplicates or appears to duplicate work

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previously contracted for under United States Marine Corps (USMC) or Army Contracts. The Contractor is not authorized to proceed to do work on any work directive unless specifically authorized by the PCO in writing.

C.2.1.3 Revisions to WDs shall be accomplished using the same methods. The Contractor may propose a revision to a WD while work is in progress in an effort to advance technology, reduce cost or schedule or take the requirement in a new direction. The contractor is not authorized to proceed to do work on any revision to a WD unless specifically authorized by the PCO in writing.

C.2.2 The Contractor shall comply with the terms of this statement of work in strict accordance with applicable local policies (installation/command), documents and policies, Department of Defense (DoD) Regulations and all updates/changes to this statement of work during the performance period. The Contractor shall immediately bring to the attention of the PCO, for final resolution, any conflict between compliance with the directives, policies, rules and regulations cited in any WD issued.

C.2.3 The Contractor shall have sole responsibility and discretion for the manner and method of performing tasks as specified herein. The Contractor shall be responsible for the administration, operation and conduct of all persons they employ to provide services under the WD to include: arranging for travel, passports, and obtaining installation and facility clearances with the assistance of the Government when necessary.

C.2.4 During performance of the Management and Administration WD the contractor shall, at a minimum, perform the following:

C.2.4.1 The Contractor shall manage and control the resources necessary to ensure timely achievement of all the requirements of the contract in a manner that is the most economical and beneficial to the Government. Management and control of subcontractor performance is implicitly part of this requirement.

C.2.4.2 The Contractor shall coordinate management and control of subcontractor activity with the Government. This requirement is not intended to provide the Government opportunity for subcontractor direction. Rather, the requirement is advisory. The Contractor is solely responsible for direction of, and interface with, subcontractors.

C.2.4.3 The Contractor shall provide administrative support to the MRAP Program Manager in support of Government briefings and presentations. This support shall include the preparation and delivery of color photograph productions, posters, color brochures, viewgraph transparencies and electronic media IAW CDRL A116.

C.2.4.4 Reserved

C.2.4.5 Program Meetings/Conferences/Meetings/In-Process Reviews

C.2.4.5.1 Agendas: The content and location of each meeting shall be coordinated with and agreed upon by the Contractor and the Government. The Contractor shall submit an agenda, briefing charts and supporting documentation ten business days prior to each meeting identified under C.2.4.5. All agendas shall be in Contractor format in accordance with (IAW) Contract Data Requirements List (CDRL) A001 and shall include, as a minimum: the location, date(s) and duration of each meeting, a daily chronological listing of each topic to be discussed, the time allotted for each topic, the name of the presenter and a status (or list) of action items/problems identified at previous meetings IAW CDRL A001.

C.2.4.5.2 Minutes: The Contractor shall prepare and submit minutes to include open and new action items within five business days after each of the meetings. All minutes shall be in Contractor format IAW CDRL A002 and shall include, as a minimum: meeting location, date(s) and duration, list of attendees, a status of open action items/problems, list of new action items/problems, and required resolution dates, summary of discussions and assigned action officer.

C.2.4.5.3 Reserved

C.2.4.5.3.1 Contract Start of Work Meeting

The Contractor shall conduct a Contract Start of Work Meeting at the contractor's facility within 30 days after Contract award.

C.2.4.5.3.2 Work Directive Start of Work Meetings

A WD Start of Work meeting shall be held in (location TBD) at the Governments request following a negotiated and agreed upon Statement of Work for each WD issued. The site locations must be mutually agreed upon. Discussions at the meeting shall include: the Contractor's Program Management plan, the Governments initial Integration Plan, risk areas and mitigation plans, and other technical area requirements as specified in the work directive.

Contractor shall present the following documents at the Start of Work meeting which shall be delivered IAW their respective CDRLs:

C.2.4.5.3.2.1 The contractor shall deliver an Integrated Master Schedule (IMS) IAW CDRL A027 for each work directive.

C.2.4.5.3.2.2 The contractor shall deliver a Work Breakdown Structure (WBS) IAW CDRL A119 for each work directive.

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C.2.4.5.3.3 Quarterly Meetings: The Contractor shall also conduct the meetings listed below, quarterly.

C.2.4.5.3.3.1 Management Review

C.2.4.5.3.3.2 Technical Review

C.2.4.5.3.3.3 Integrated Logistics Support (ILS) Program Status Review

C.2.4.5.3.3.4 Integrated Logistics Support Management Team (ILSMT)

C.2.4.5.3.3.5 Logistics Management Review (LMR)

C.2.4.5.3.3.6 Field Problem Review Board (FPRB)

C.2.4.5.4 In-Process Reviews (IPRs): The IPRs shall be held with the Contract Start of Work meeting, and, at the Governments discretion, at quarterly intervals thereafter through the life of the contract. At a minimum, the Contractor shall discuss cost, schedule, and performance to include the analysis of problem areas, evaluation of schedules, all risk areas and mitigation efforts. CDRL A001, CDRL A002

C.2.4.5.5 Project Status Meetings: The Contractor shall conduct project status meetings with the Contracting Officer Representative (COR) on a monthly basis unless otherwise directed by the COR. The purpose of the meetings shall be to review status and progress of all projects. The Contractor shall prepare electronic, written or visual presentations for such meetings IAW CDRL A003.

C.2.4.5.6 Test Readiness Reviews:

A start of test meeting shall be held at a mutually agreed location within 30 calendar days of the start of any applicable Developmental Test (DT) or Operational Test (OT) phase. Discussions at the meeting shall include, at a minimum, the Contractors overall test support plan, the Contractors schedule for delivery of test assets, risk areas and mitigation plans and other logistical support requirements including the overall parts delivery and parts installation IAW CDRL A001.

C.2.5 Rough Order of Magnitude (ROM) Estimates.

C.2.5.1 ROM requests are used by the Government to obtain an estimate of the labor/man-hours and material dollars a particular effort may require. ROMs may only be requested by the PCO. The ROM estimate is developed based on history of the same or similar efforts previously conducted. Once the activity is completed the overall cost may be lower or higher than estimated in the ROM. The ROM is used as a planning estimate only.

C.2.5.2 The Contractor shall provide ROMs throughout the contract to the PCO. All ROMs shall be submitted within five business days from the date of the ROM request unless otherwise indicated by the Government. The ROM shall include the ROM Request Number, Contract Line Item Number (CLIN), estimated dollar value for the effort and a brief explanation of the ROM estimate and submitted IAW CDRL A004.

C.2.6 WD and WD Matrix

C.2.6.1 All work under this contract is completed IAW WDs and WD Matrices (see Paragraph C.2.6.6) agreed to by the Government and Contractor. The Government shall issue a statement of objectives (SOO) or statement of work (SOW) to the Contractor. The Contractor shall assist with the preparation of proposed WDs revisions, as required, or requested by the PCO, which are subject to Government acceptance. The Contractor shall have a single centralized Point of Contact (POC) to submit proposed WDs to the PCO for review and assure that WDs comply with the statement of work. The proposed WD shall be written with the purpose of providing the PCO a suitable draft document, for review, editing, and approval, which will enable the Contractor to perform specific tasks within associated performance periods upon execution. The contractor shall rely on MIL-HDBK-245D, Handbook for Preparation of Statement of Work (SOW) as amended, and MIL-STD-881, Work Breakdown Structure, as amended, as guidance. Language that includes unexplained acronyms shall not be used. The proposed WD shall clearly and simply state the requirements with reference to Section C but without merely reiterating the language in Section C. The contractors format for the proposed WD document is acceptable, but it shall be uniform for all proposed WDs submitted to the Government for review. The information below shall be included at a minimum:

C.2.6.1.1 Reference to the specific requirement(s), by Clause of Section C, with applicable CDRL sequence numbers (the Contractor shall only submit WDs within the scope of the contract)

C.2.6.1.2 Objective of the work to be performed

C.2.6.1.3 Number of hours and material dollars to accomplish the work

C.2.6.1.4 Estimated completion date as applicable. The Contractor shall specify delivery dates for data items required by the WD.

C.2.6.1.5 Identification of the CLIN under which the work is to be performed.

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C.2.6.2 The PCO will establish priorities for contractor performance on WDs and will review with the contractor the priorities and ranking on all active WDs as required. The Contractor shall redirect all work on any and all WDs within the available funding limits of the contract when so directed in writing by the PCO.

C.2.6.3 Reserved

C.2.6.4 The PCO has the option to modify or cancel WDs, in whole or in part, and change the relative priorities assigned. Active WDs may be canceled at any time by the PCO, and the contractor will be notified in writing of the reason(s) therefore. If additions, deletions or revisions to a WD are necessary, the WD will be modified to reflect the addition, deletion or revision or reduce the authorized hours and/or material dollars by the residual amounts as required. A supplement which revises the scope or increases hours or material shall also be completed. The Supplemental WD denoting the addition, deletion or revision shall be assigned the original WD number with a suffix to denote the revision. Supplemental WDs to reduce hours or material dollars shall be submitted to the PCO for review, editing, and approval at the earliest possible date, but not later than 60 days after completion of work on the basic WD. The contractor will be notified in writing.

C.2.6.5 The Contractor is not authorized to incur hours, materials or subcontracting costs that exceed the estimate on each executed WD. Any hours, materials or subcontracting in excess of that authorized is at the contractors risk and the Government has no obligation to accept the cost of hours, materials or subcontracting above that authorized. Anytime the contractor has reason to believe that the hours, materials or subcontracting that it expects to incur in the performance of a WD shall exceed the authorized hours, materials or subcontracting on the WD, the Contractor shall immediately notify the PCO in writing.

C.2.6.6 The parties agree that the processes for control of WDs may be streamlined. Towards that end, the parties agree to an alternative STS WD Matrix. The parties agree to use this procedure to manage hours, material dollars and subcontract dollars authorized for CLINs having multiple WDs using the same type funding. The contractor shall prepare and submit a Work Directive Matrix IAW CDRL A005.

C.2.7 Disposal of Hardware

C.2.7.1 The Contractor shall repair any Government hardware in its possession IAW C.8. If the repair is not within the contractors capability of the contractor the contractor shall notify the Government for disposition of the hardware.

C.2.7.2 The Contractor shall identify excess hardware in National Stock Number (NSN) sequence via letter to the PCO requesting disposition instructions, copy furnished to MRAP Logistics. Nonstandard and obsolete hardware shall be identified as such. The Contractors request for disposition shall include the following information for each item: NSN, Part Number (P/N), Nomenclature, and Condition of the Item (serviceable or unserviceable). NSNs may not be available for some items early in the contract. If this is the case, as much of the required data as is available shall be provided. The Government will provide disposition instructions within 60 days unless there is a mutually agreed upon extension.

C.2.7.3 No parts shall be reported to the Defense Contract Management Agency (DCMA) Plant Clearance Officer unless so directed by the PCO. The disposition letter identifying items to be reported to Defense Contract Management Agency Operations (DCMAO) shall be referenced on the Inventory Schedule B submitted to DCMAO.

C.2.7.4 The Contractor shall provide a written request for disposition of all excess residual Government-owned hardware within 30 days after work under this contract has ended unless there is a mutually agreed upon extension. Parts listed shall be consolidated to include residual hardware from all contractor departments/organizations and from all WDs.

C.2.7.5 No WD shall be closed until disposition instructions on excess residual hardware have been implemented and completed, unless the contractor can utilize hardware on future work under the contract.

C.2.7.6 Mandatory replacement parts with a recovery code of Z shall be discarded IAW Federal, State, and Local Policies with Government disposition instructions. Hazardous materials shall be disposed of utilizing Contractor procedures with related costs to be charged to the contract.

C.2.8 CDRL

C.2.8.1 Except for those items that specifically require hard copy submission, all data specified in this Contract shall be provided to the Government electronically. A CDRL Data Item number shall be established for each data deliverable and such data items shall be prepared and submitted IAW the CDRL to be set forth in Exhibit A of the contract. CDRLs will be added to the contract by contract modification as determined necessary by the Government.

C.2.8.2 Tailored and non-standard Data Item Descriptions (DIDs) unavailable through normal channels will be furnished with this contract.

C.2.9 Reports and Data

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C.2.9.1 The Contractor shall prepare technical data in the format and scope specified in the applicable DIDs (DD Form 1664) included in Exhibit A. This information shall be furnished IAW the requirements, quantities, and schedules set forth in the CDRL (DD Form 1423) also in Exhibit A. Data shall be submitted in an electronic format compatible with Microsoft programs (such as Word, Access, Excel, Power Point, etc.) in contractor format unless otherwise specified in the WD. All data deliverables required under this contract that are updates to previously existing documents shall have change bars in the margin where revisions or updates were made by the contractor.

C.2.9.1.1 Digital documents of standard DIDs called for under this contract can be ordered by going to the Acquisition Streamlining and Standardization Information System (ASSIST) at <https://assist.daps.dla.mil/online/start/>.

C.2.9.1.2 Although a DID for this effort may make reference to a military standard or specification, that standard or specification is to be used by the contractor for guidance only, IAW current Army policy. The only exception shall be for military specifications and standards specifically called out as required within this statement of work, or WD, and then only to the extent described. All reports are to be submitted in contractor format at the frequency described for each report.

C.2.9.2 Monthly Performance Report: The contractor shall submit a monthly Contract Performance Report (CPR) for each active work directive IAW CDRL A117.

C.2.9.2.1 Monthly Cost Report: The Contractor shall submit a Monthly Cost Report identifying each WD. The report shall include, but not be limited to, the following categories: Period of Performance of reported data, total CLIN value, total CLIN hours, total material dollars and total subcontractor dollars where applicable. Within each category, the following shall be reported: percent of CLIN expended, actuals reported during the report period and cumulative actuals expended. The required data will be required by WD on a WD basis. The Monthly Cost Reports shall be submitted no later than the 25th calendar day of the month following the report period IAW, CDRL A006.

C.2.9.3 Bi-Weekly (every two weeks) WD Percent Expended Report: The Contractor shall submit a weekly WD Percent Expended Report for each funded CLIN. The report shall include, but not be limited to, identification of the CLIN and the WDs initiated under that CLIN. The WD reporting shall include the following categories: WD Number, WD Manager, WD Title, Hours Authorized, Actual Hours Expended (cumulative), Hours Remaining on WD, Percent Expended and Date estimated hours will be expended CDRL A007.

C.2.9.4 WD STS Weekly Authorization versus Actuals Report: The Contractor shall submit a WD STS Weekly Authorization versus Actuals Report for each funded CLIN IAW CDRL A007. The report shall include, but not be limited to, identification of the CLIN and the WDs initiated under that CLIN. The WD reporting shall include the following categories: WD Number, WD Manager, Number of Heads Authorized, Weekly Actuals, and Variance.

C.2.9.5 Contractor Manpower Reporting (CMR)

C.2.9.5.1 The Office of the Assistant Secretary of the Army (Manpower & Reserve Affairs) operates and maintains a secure Army data collection site where the contractor shall report ALL contractor manpower (including subcontractor manpower) required for performance of this contract. The contractor, IAW CDRL A009, is required to completely fill in all the information in the format using the following web address: [://contractormanpower.army.pentagon.mil](http://contractormanpower.army.pentagon.mil).

The required information includes:

C.2.9.5.1.1 Contracting Office, PCO, Contracting Officers Technical Representative

C.2.9.5.1.2 Contract number, including task and delivery order number

C.2.9.5.1.3 Beginning and ending dates covered by reporting period

C.2.9.5.1.4 Contractor name, address, phone number, email address, identity of contractor employee entering data

C.2.9.5.1.5 Estimated direct labor hours (including subcontractors)

C.2.9.5.1.6 Estimated direct labor dollars paid this reporting period (including subcontractors)

C.2.9.5.1.7 Total payments (including subcontractors)

C.2.9.5.1.8 Predominant Federal Service Code (FSC) reflecting services provided by contractor (and separate predominant FSC for each subcontractor if different.)

C.2.9.5.1.9 Estimated data collection cost

C.2.9.5.1.10 Organizational title associated with the Unit Identification Code (UIC) for the Army Requiring Activity (the Army Requiring Activity is responsible for providing the contractor with its UIC for the purposes of reporting this information)

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C.2.9.5.1.11 Locations where contractor and subcontractor perform the work (specified by zip code in the United States and nearest city, country, when in an overseas location, using standardized nomenclature provided on website)

C.2.9.5.1.12 Presence of deployment or contingency contract language

C.2.9.5.1.13 Number of contractor and subcontractor employees deployed in theater this reporting period (by country).

C.2.9.5.2 As part of the CMR submission, the contractor shall also provide the estimated total cost (if any) incurred to comply with this reporting requirement. Reporting period shall be the period of performance not to exceed 12 months ending 30 September of each Government Fiscal Year and must be reported by 31 October of each Calendar Year. Contractors may use a direct XML data transfer to the database server or fill in the fields on the website. The XML direct transfer is a format for transferring files from a contractors system to the secure website without the need for separate data entries for each required data element at the website. The specific formats for the XML direct transfer may be downloaded from the web site. (.

C.2.10 In performance of this contract, the Contractor may request on-line access to certain Government systems. Prior to receiving access, the Contractor must ensure that the personnel assigned to these tasks have been cleared to have such access through a Government security investigation. The investigation must be completed prior to the assignment of individual(s) to the sensitive duty associated with these positions. Foreign nationals shall not be granted authorization. Contractor access to the on-line systems shall be revoked if actions of the personnel assigned to these tasks are found to be clearly in conflict with the interests of the Government.

C.3 Engineering Design Support for Two-Dimensional/Three-Dimensional (2D-3D) Models, IBOMs, and Drawings

C.3.1 The Contractor shall possess computer aided design (CAD) capabilities to produce 3D models and associated 2D drawings and lists and simulation capabilities to produce CAD Model simulations under this contract. The Contractor shall identify the CAD system and software version they are using at the contract Start of Work Meeting.

C.3.1.1 The Contractor shall maintain engineering drawings and models, specifications and other technical data comprising the configuration baselines for the vehicle systems as identified in C.1 to include all Engineering Change Proposals (ECP)/Request for Deviations (RFD) (see Para. C.5 for ECP & RFD requirements) modifying the vehicle system and/or baseline, in compliance with DI-SESS-81000, MIL-STD-31000 (Technical Data Packages), Attachment 0010 TDP Worksheet-Vehicle, and Attachment 0014-Metadata Attributes. The use of government standard is preferred the Use of Best Commercial Practice may be requested by the contractor for Government approval which will be determined on a Work Directive basis.

C.3.1.1.1 The Contractor shall work with outside organizations or agencies to incorporate the capabilities insertions, Mission and Support Equipment (see paragraph C.4.3), and other post-production changes into their variant baseline(s).

C.3.1.1.2 The contractor shall maintain interface control documentation of the Mission and Support Equipment, Contractor Furnished items, capability insertions, and other post-production changes for each variant configuration.

C.3.1.1.3 The contractor shall maintain a drawing tree reflecting the top/down generation breakdown for each configuration in Government-approved contractor format. The drawing tree shall include all the major subassemblies that define each variant configuration and go to the lowest reparable unit or lowest component as defined in the work directive. The drawing tree shall include a drawing number, title, and revision under configuration control as defined in C.5. The use of government standard is preferred the Use of Best Commercial Practice may be requested by the contractor for Government approval which will be determined on a Work Directive basis.

C.3.1.2 The contractor shall prepare for individual variants or variant configurations IBOMs, matching 3D models, and/or associated interface control documentation and drawing tree. The Government is not seeking the Contractors production or process detail and the information shall not be used for production or reverse engineering of the Contractors proprietary data. A limited design disclosure or cosmetic model may be used to prevent disclosure of proprietary information and allow the Government unlimited rights to the data. This data shall be used for (but not limited to) future design considerations and defining the as-maintained or fielded configurations and delivered in the format and frequency defined in CDRL A010.

C.3.1.3 All product data, including 3D solid models and associated 2D drawings and lists, created under this contract shall be in compliance with DI-SESS-81000, MIL-STD-31000 (Technical Data Packages), Attachment 0011 TDP Worksheet-STC Hardware, and Attachment 0014-Metadata Attributes and shall provide the necessary design, engineering, manufacturing, and quality assurance requirements information necessary to enable the Government to procure or manufacture an interchangeable item that duplicates the physical, mechanical, electrical, software, human, and performance characteristics of the original product, without additional design engineering effort or recourse to the original design activity. The TDP shall reflect the level of design maturity, revision level, and baseline design that the item has attained at the appropriate configuration item lifecycle phase IAW CDRL A100.

C.3.1.4 Technical data prepared with funds of this contract or any other Government contract by the Contractor or his subcontractors are property of the Government and shall be provided with unlimited rights to the extent permitted under Defense Federal Acquisition Regulation Supplement (DFARS) 252.227-7013, DFARS 252.227-7014, and DFARS 252.227-7015. The Contractor shall present the list of

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exceptions, existing technical data (models, drawings, etc.) developed at private expense.

C.3.1.5 The contractor is responsible for all original document files in their possession (this includes but is not limited to 3D models, 2D drawings, associated lists, technical documentation, etc.).

C.3.1.5.1 For technical data created under this contract which the Contractor is designated the Document Custodian Activity (see C.3.1.5.3), the Contractor shall prepare and maintain TDPs, IBOMs and 3D models to ensure they are current, legible and readily available to the Government. The contractor shall not transfer any Government drawing files unless required by the work directive or by written approval from the Government.

C.3.1.5.1.1 3D Models

C.3.1.5.1.2 Associated CAD 2D line drawings

C.3.1.5.1.3 Associated PDF 2D line drawings

C.3.1.5.1.4 Associated STEP Neutral File Format ISO 10303-203

C.3.1.5.1.5 All associated sheet images in PDF format

C.3.1.5.2 The Government shall retain change control authority and the Contractor shall only make changes as authorized and provide the Government with compliant data as part of the change control process (ECP/VECP/RFD/RFV), in accordance with the Engineering Release Record (ERR) requirements of this contract, and provide copies of the changed document files to co-users and upon request.

C.3.1.5.3 Drawing Custodianship List the Contractor shall prepare and submit a drawing custodianship list IAW CDRL A114.

C.3.1.6 All technical data created and delivered under this contract shall have the appropriate DoD Technical Distribution Statement and Export Control Warning as required by Department of Defense Directives (DoDD) 5230.24 and 5230.25. In order to protect and limit transmission of proprietary information not owned by the Government e.g. commercial technical data (developed at private expense) that is protected by the Contractors limited rights statement IAW DFARS, and is marked accordingly, the Contractor shall apply DoD Technical Distribution Statement D IAW DoDD 5230.24. Configuration items (developed at Government expense) and associated existing technical data with Government Purpose Rights or Unlimited Rights shall have DoD Technical Distribution Statement D IAW DoDD 5230.24.

C.3.1.7 TDPs are subject to inspection and verification IAW MIL-STD-31000. The 3D solid models shall successfully pass model check in the Government's system the Product Data Checklist is at Attachment 0018). Product data not in compliance with the requirements of this contract will be returned to the contractor for correction. 2D drawings shall be based on the 3D models and be sourced from the 3D model.

C.3.1.8 Warranty of Technical Data DFARS 252.246-7001 Warranty of Data.

C.3.1.9 The electronic interchanges of the 3D solid model and 2D drawings between the Contractors and Governments PDM systems shall maintain fidelity to assure there is no conflict in data. If conflicts are found, the Contractor will work with the Government to ensure accurate, up-to-date data is reflected in both systems. The Government will insure appropriate access control to protect the contractors data from unauthorized access. The Government is willing to provide the contractor with a review of the access control system used in our PDM and Configuration Management (CM) systems.

C.3.1.10 At any time the proper storage and configuration control of the product data will be subject to a Government audit (see Paragraph C.5.9 Configuration Status Accounting).

C.3.1.11 The Contractor shall provide and update (in revision cycle) a geometry and drawing/CAD creation standard for 3D models and associated 2D drawings for the Government to determine if the Contractors application and disclosure of product data definition set elements is useable and in alignment with set standards. The data standard shall contain identification of data format types, application of geometric tolerances, materials, surface finishes, annotations, notes, attributes, part relationships and associations, default datum, file and part/document naming conventions, views, planes, layers, parameters, units reference objects, line weights, symbols, quality assurance information, rights in data, security markings, export control notices, engineering notes and part to file structuring.

C.3.1.12 All CAD product data export services and reporting activities as specified in this SOW shall follow the format and data elements identified in a ISO 10303-124 data exchange export PDM Schema compliant file. The Contractor shall provide support to ensure the delivered CAD is transferred and uploaded correctly into the Government PDM system.

C.3.2 Drawing Part Number Assignment, Assignment Report and Drawing/Part Number Engineering Support

C.3.2.1 For items, components, or processes (ICPs) developed or modified under this contract, the Contractor shall assign Government-issued Ordnance Part Numbers (OPN) to all product data created under this contract. Product data shall use the OPN as both the drawing

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number and base Part or Identifying Number (PIN), along with TACOM CAGE code 19207 as the original design activity to establish unique item identification. The Contractor shall request Army Ordinance Part Numbers (AOPNs) from the designated Government CM Representative. The contractor shall request additional blocks of numbers on an as needed basis via e-mail to the CM representative.

C.3.2.2 Drawing Part Numbers for Privately Developed Items - The Contractor is prohibited from assigning AOPNs to privately developed items prior to our approval. If an item is approved for incorporation into the design, the Contractor shall prepare data in accordance with contract requirements for AOPNs, source control, and vendor items.

C.3.2.3 The PIN, in combination with the CAGE, establishes unique item identification of items in the product data. The NSN for items may be cited in the product data in addition to the PIN-CAGE; however, NSNs do not establish unique item identification and shall not be cited within the product data in lieu of the PIN-CAGE. NSNs placed within the product data either in lieu of a PIN-CAGE or that conflict with the PIN/CAGE provisioning data found in WebFLIS will be reason for Government rejection of the product data containing the conflicting data, and will be returned to the Contractor for correction and resubmittal.

C.3.2.4 Standard Part Numbers - the Contractor shall use standardization document PINs as the preferred definition of technical data.

C.3.2.4.1 In lieu of contractor, OEM, supplier or other commercial and vendor part numbers, the Contractor shall use, in accordance with 5.3.1 and 5.3.1.1 of MIL-STD-31000, the military, industry, or specification-identified part numbers in the product data for all fasteners, standard hardware, bulk material, and other items that can be defined by Government and non-Government standardization documents, and international or foreign standardization documents adopted by the American National Standards Institute (ANSI) for use in the U.S.

C.3.2.4.2 The Contractor shall investigate and convert all vendor/supplier/commercial part numbers to the standardization document PINs prior to submitting product data to the Government for approval. The Contractor may utilize the on-line tool called WEBFLIS (<http://www.dlis.dla.mil/webflis/>) for researching part numbers, or contact the Defense Logistics Agency (DLA) customer service at: <http://www.dlis.dla.mil/cust.asp> for assistance with web access, accounts, or assistance in finding part numbers for standard items.

C.3.2.4.3 The Contractor shall model certain standard parts or include existing models in 3D model assemblies, but shall not create 2D drawings for parts that are defined by existing Government or non-Government standardization documents.

C.3.2.5 Drawing Number Assignment - The Contractor shall provide to the Government a Drawing Part Number Assignment Report per DI-SESS-81011 and include the contractors part name, address, contract number, and manufacturers part number. A cross-reference list shall be provided showing the Government part number and all corresponding current and historical vendor part number from Contractors first production to current production IAW CDRL A101.

C.3.3 Technical Data Back-up Storage: The Contractor shall have a back-up and recovery process for all source digital data in the Contractors computer software application.

C.3.4 Technical Data Package (TDP) Revision Services: The Contractor shall provide part Configuration Management/Data Management (CM/DM) revisioning services and provisioning for Foreign Military Sales (FMS). Re-visioning services are to include copies of ECPs and respective ERRs and to comply with all CM/DM TDP data management practices defined in the STS for domestically or U.S. based Contractor Family of Vehicle (FOV) models provided. All requests for Technical Data Package Revision Services and reporting activities shall be in format and contain the data elements as specified in the work directive.

C.3.5 3D Modeling and Design Services: The Contractor shall provide engineering support with 3D modeling, design, simulation or Computer-Aided Engineering (CAE) analysis capabilities necessary to technically conduct or support systems analysis, tests and evaluation, manufacturing (prototyping and kitting) integration, technical meetings, and design or field reviews of failure.

C.3.6 Source Control and Vendor Item 3D Model and 2D Drawing Engineering Support: The Contractor shall prepare Source Control and Vendor Item Control Drawings, associated with the Contractors vehicle system(s) Attachment 0012 TDP Worksheet-Source Control Drawings (SCD), and Attachment 0014-Metadata Attributes. Source Control and Vendor Item Control Drawings shall have listed two or more sources of supply. The Contractor will look for parts, components, sub assembly or assemblies of currently existing sources of supply in the Governments supply system to determine if the Government part already exists. The Contractor when choosing these design solutions of utilizing items that already have an established NSN, shall validate that the solution chosen meets all design specification reliability, performance and space requirements required. The drawings and models will provide complete form, fit, function, and interface information as well as detailed performance data for acceptance of material and to allow the Government the ability to test and qualify additional vendors or sources. All source control and vendor item drawings and model shall be provided with unlimited rights to the extent permitted under DFARS 252.227-7013, DFARS 252.227-7014, and DFARS 252.227-7015 IAW CDRL A100. The Contractor shall present the list of exceptions with the data submission.

C.3.7 Source Control Drawings (SCDs) and Vendor Item Control Drawings for new designs and changes to current designs created under this contract shall conform to Paragraph C.3.1.3 and the following:

C.3.7.1 Maximum use of commercially developed components is essential. First design choice should be the use of an existing Government item readily available in the Government supply system. No part, component or assembly shall be developed under this contract when it is

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known that an existing design in industry will satisfy the intended purpose or can reasonably be adapted to a militarized design in a cost effective manner.

C.3.7.2. In order to assure life cycle competition for Non-Developmental Items (NDIs), use of SCDs shall be minimized. When it becomes apparent to the Contractor that a Source Control drawing or 3D Model is in the best interest of the Government, a recommendation will be made to the Contracting Officers CM Representative IAW DI-SESS-81010 including the results of a market survey which led to the recommended selection. No SCD shall be prepared by the Contractor, nor shall the Contractor assume that the Government will accept the source control recommendation, unless specific written approval is provided by the Contracting Officers Representative.

C.3.7.3 Recommendation for use of Source Control Data shall not be submitted to the Government until a repairable/consumable analysis has been made.

C.3.7.4. Non-Developmental Items shall not be fully detailed unless it can be demonstrated by the Contractor that such detailing does not impair the life cycle competitiveness of the item.

C.3.7.5 Provisioned parts for Source Controlled Items shall be depicted on the 3D Models metadata attributes after a Maintenance Evaluation has been completed and repair part selection validated. In the event such Maintenance Evaluation has not been prescribed within the scope of this contract, even though the component is known to be repairable, no provisioned parts listing will be shown on the drawings or 3D Models.

C.3.7.6 All Source Control Drawings and 3D Models shall contain will provide complete form, fit, function, and interface information as well as detailed performance data for the Government to procure and accept a part or component which is functionally interchangeable with the original part or component under a secondary item procurement contract and to qualify additional vendors or sources. Acceptance criteria and processes on any SCD and 3D Models will, to the extent practical, be similar to what that supplement accomplishes when the item is purchased by other commercial or military agencies.

C.3.7.7 All source control and vendor item drawings and model shall be provided with unlimited rights to the extent permitted under DFARS 252.227-7013, DFARS 252.227-7014, and DFARS 252.227-7015. The Contractor shall present the list of exceptions.

C.3.8 Procedures for Transferring Original Drawings, CAD files, and supporting documentation - The Contractor shall comply with the following sequential procedures at the end of the performance period of this contract.

C.3.8.1 At 60 days before end of contract shall IAW CDRL A102:

C.3.8.1.1 Provide a list of drawings, CAD files and supporting documents, prepared under this contract, in your custody to Contracting Officers Representatives for record verification.

C.3.8.1.2 Identify and provide a list of pending and outstanding approved ECPs (i.e. where no ERR/drawing/file updates have occurred) and cross-reference to drawings/files/documents affected by those ECPs and provide status and anticipated completion date.

C.3.8.1.3 Provide lists of the following information: (1) Obsolete and superseded drawings, CAD files, and supporting documents and (2) unreleased drawings, CAD files, and supporting documents, created under this contract.

C.3.8.2 At 30 days before end of contract, transfer and document the transfer of (by using letter of transmittal forms) all drawings, CAD files, and supporting documents created under this contract. Attach related inventory lists to each DD Form 250. Submit to the Government representative for signature and verification of receipt. Data to be transferred shall accompany the transmittal letter. Data transfer is to be electronic or CD-ROM or DVD. The Government reserves the right to be present during the drawing / file inventory process IAW CDRL A103.

C.4 System/Subsystem Design Engineering Support

C.4.1 Reserved

C 4.2 General System/Subsystem Engineering Support

C.4.2.1 The Contractor shall perform System/Subsystem Engineering Support to the extent described herein. The Contractor shall provide robust solutions to design problems, design improvement requirements and Government directed design investigations in response to field problems to include visits to Government Continental United States (CONUS) and Outside the Continental United States (OCONUS) operational facilities or Contractors sub-Contractors or supply chain partners. The Contractor shall supply robust solutions that maintain compatibility of all physical, functional, and technical interfaces with the established system/subsystem design and definition, while coping satisfactory with variation in its operating environment with minimal damage, alteration or loss of functionality. The Contractor shall use their scientific and engineering investigations to ensure compatibility of all physical, functional and technical program interfaces in alignment with the established design and definition.

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C.4.2.2 The contractor shall comply with the plans and specifications listed below or may be asked to either rewrite the plan or provided engineering services to assist the Government in re-writing the plans for all solutions to design problems, design improvement investigations and responses to field problems. The Contractor shall prepare and update each plan on an as required basis. Plans may include information such as the following:

C.4.2.2.1 To assess change impacts that will require modification or the new creation of the Human Factors Engineering Program Plan, CDRL A015.

C.4.2.2.2 Contractor shall assess change impacts that will require modification of the MRAP System Safety Management Plan.

C.4.2.2.3 To assess change impacts that will require modification or the new creation of the Parts Management Plan using DO-SDMP-81748, DI-PACK-80120B, DI-SDMP-81748, DI-MISC-80071E and DI-SAFT-80105B, as guidance.

C.4.2.2.4 To assess change impacts that will require modification or the new creation of Electromagnetic Interference (EMI)/Electromagnetic Compatibility (EMC) Program Plan.

C.4.2.2.5 Reserved

C.4.2.2.6 To assess change impacts that will require modification or new testing required of the Contractor to establish and maintain a database of allocated EMI/EMC requirements and test results to evaluate the effect of engineering changes on the overall MRAP system EMI and EMC.

C.4.2.2.7 To provide, perform Reliability, Availability, Maintainability-Durability (RAM-D) Program Plan assessments and testing activities

C.4.2.2.8 To provide, perform or analyze test data to implement conformance to overall system specifications.

C.4.2.2.9 To provide, perform system effectiveness studies on proposed modifications relative to the overall system performance in combat and peace time environments.

C.4.2.2.10 To provide, perform scientific programming and simulation model analysis in support of resolution for field and production problems.

C.4.2.2.11 To provide, perform, create or maintain a Contractor FOV current database of all part, component, sub assembly or assembly weight data of all Contractor, sub-Contractor or other Contractor or Government supply chain partners.

C.4.2.2.12 Contractor shall identify Hazardous materials and system information to support the Governments Environmental Assessment of the MRAP FoV IAW the National Environmental Policy Act (NEPA), CDRL A017.

C.4.2.2.13 To provide, perform, create, maintain or support the Governments fire, accident and hazard tracking systems IAW CDRL A014.

C.4.2.2.14 Reserved

C.4.2.2.15 To provide, perform, create or conduct trade-off evaluations and risk analysis to select and document a preferred approach to meeting technical requirements, evaluating design approaches and evaluating feasibility, predictability or Manufacturability and production capability evaluation for any design changes made within Government, the Contractor or sub-Contractors and supply chain partners of either organization.

C.4.2.2.16 To incorporate into the current or new FOV configurations design of components and systems to allow the Government to implement the latest state-of-the art technology which provides for the highest level of corrosion protection capable of withstanding operation in an environment of high salt concentration, high humidity and high temperature (tropical).

C.4.2.2.17 To provide engineering analysis, CAD Model CAE, Simulations to allow the Government to utilize or generate new design practices for the selection of materials, coatings, surface treatments, system geometry, material limitations, environmental extreme, and storage, packaging and preservation requirements, that reflect realistic product usage environments so the Contractor can identify and highlight to the Government, if the design chosen is border line, the designs ability to meet the Government specified environmental operating ranges.

C.4.2.2.18 Provide engineering analysis and recommendations of the use of Radioactive Material. Radioactive Material shall not be utilized unless it has been determined that military operational requirements cannot be achieved with such use. Items furnished under this contract, including but not limited to, optical elements/lenses, and other optic items used near the eyes shall contain no thorium, or other source material as defined by Title 10, Code of Federal Regulations, Part 40, in excess of 0.05 percent by weight or any other intentionally added radioactive material, unless expressly required by the specifications. If required by specification to have thorium, source material as defined by Title 10, Code of Federal Regulations, Part 40, in excess of 0.05 percent by weight or any other intentionally added radioactive material, the Contractor shall provide a list of all radioactive material including chemical and

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physical form and activity of the finished item as early as possible to the PCO for approval of the use of these materials. All Contractor recommendations or Government request for the usage of these types of materials, the Contractor will be required to establish procedural controls of this material to include but not limited to training, necessary protective equipment, required inspections, decontamination procedures, etc. The Contractor shall make every design effort possible so Radioactive material shall not be utilized under this contract. If radioactive material is to be furnished beyond that specified above, the Contractor shall provide a statement that the Government requested use of radioactive materials and shall provide the minimum information:

C.4.2.2.18.1 Reason the Government furnished radioactive material is to be incorporated into the system

C.4.2.2.18.2 Listing of the radioactive materials and their quantities

C.4.2.2.18.3 Subsystem location of the radioactive material

C.4.2.2.18.4 Purpose of the radioactive material

C.4.2.2.18.5 Provide the Nuclear Regulatory Commission License Number for each of the radioactive material used in the system

C.4.2.2.18.6 To assess change impacts that will require modification or the new creation of or to assist the Government in ensuring that the Nuclear Regulatory Commission (NRC) mandatory protection requirements for the purchase, control and installation of all radioactive materials used for the production and logistic support of the MRAP System is being followed as described in Title 10, Code of Federal Regulations (CFR).

C.4.2.2.19 To assess change impacts and provide engineering design services that will require modification or the new creation of design information that will require the Contractor to prepare required new specifications and proposed Specification Change Notice (SCN) in a Government and Contractor agreed to defined SCN requirements tracking system.

C.4.2.2.20 To assess change impacts and provide engineering design services that will require modification or the new creation of information that will require the Contractor to prepare or help the Government prepare and perform Risk Assessment and System Safety Hazard Analysis using DI-SAFT-80101B as a guide to identify safety hazards associated with the system changes and prepare and furnish a System Safety Hazard Analysis and Risk Assessment analysis for each planned change.

C.4.2.2.21 To assess change impacts and provide engineering design services, recommend changes for all engineering activities that may require modification of the Contractor FOV to eliminate or reduce significant safety hazards by appropriate design change, material selection or testing. The Contractor shall at the Governments, request develop a Safety Assessment Report.

C.4.2.2.22 To assess change impacts and provide engineering design services, recommend changes for all engineering activities to allow the Government to perform MANPRINT and Human Factors Engineering (HFE) Evaluation on any design changes initiated during this effort.

C.4.2.2.23 To assess change impacts and provide engineering design services, recommend changes or provide impact reviews for all engineering activities related to Government release changes to Military or Material or Performance Specifications or clauses and determine their impact on the vehicle or production contract. All engineering design services shall provide recommendations to resolve any conflicts in stated document changes above.

C.4.2.2.24 To assess change impacts and provide engineering design services, recommend changes, or provide impact reviews for all engineering activities related to Government request to investigate and resolve problems (Software or hardware pertaining to production or testing.)

C.4.2.2.25 To assess change impacts and provide engineering design services, recommend changes or provide impact reviews for all engineering activities related to materials or FOV vehicle functionality that will impact the Government Class 1 Ozone-Depleting Substances (CIODS) reporting guidelines and shall provide the services needed to test and validate Contractor or sub-Contractor adherence to Government Class 1 Ozone-Depleting Substances specifications and standards. These specifications and standards still have automated clauses not indicated in TDPL: MIL-S-8660, MIL-S-46163, and MILSTD- 889. In the engineering design support activities the Contractor should insure the design or recommended changes do not include the use of ASTM-ES24, MIL-M-12218 (Halon), or any other equivalent CIODS extinguishing agent which is prohibited for the duration of the contract. In the event the design requires the use of either, the contractor shall coordinate with the MRAP Environmental POC to develop a request for use of the material for submission to the PCO. A separate memo from the PCO be processed and obtained prior to allowance of this type of material to be use in this contract.

C.4.2.2.26 To assess change impacts and provide engineering design services, recommend changes or provide impact reviews for all engineering activities related to the population of the Governments MANPRINT system which is a system and process that integrates the full range of Manpower, Personnel, Training (MPT), Human Factors Engineering (HFE), Health Hazards using MIL-STD-882E as a guide, System Safety and Soldier Survivability throughout material development and acquisition phases of proposed engineering changes. The Contractor shall integrate and populate these MANPRINT domains in the development and component selection process, as applicable, to ensure the greatest influence on final configuration. The primary goal of MANPRINT shall be to enhance soldier-system performance and optimize Soldier-Machine Interface (SMI) for ease of operation and maintenance by designated users under all required operational conditions. MANPRINT design related issues, accomplishment and crew performance validations, and demonstrations shall be addressed

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during STS project status meetings, as appropriate.

C.4.2.2.27 To assess change impacts and provide engineering design services, recommend changes or provide impact reviews for all engineering activities related to the creation, modification or updating of Computer Software Documentation per Commercially accepted standards including but not limited to IEEE/EIA 12207: The Contractor shall be requested to generate/modify all operational computer software under this contract IAW the Contractors Corporate Software Development Standards, Software Development Plan and Contractors Software Configuration Management Control Plans. Each of these plans will be provided to the Government for review and may become the subject of a Government audit of Contractor compliance to the issued plans. The Contractor shall practice software quality assurance IAW the Contractors corporate quality standards and an agreed upon Contractor and Government end user acceptance test procedure. The Contractor shall use a high level programming language that has been previously utilized within the MRAP vehicle software source code. This high level programming language shall meet applicable industry and Contractors corporate Software Development Standards such that the source code is readily maintained by the Contractor. The Government recommends the use of the latest Military standard or commercially accepted standards for the development of all Contractor generated software. The Contractor and the Government shall agree on the software program and coding systems to be used to insure total system integration and software compatibility can be obtained with a wide arrangement of both Contractor and Government furnished equipment. The agreed upon high level programming languages between the Government and the Contractor shall be documented accordingly. Any deviation to existing source codes programming language shall require Government approval via a formal ECP/RFD/Request for Waiver (RFW)/Notice of Revision (NOR)/ERR process.

C.4.2.2.28 To assess change impacts and provide engineering design services, recommend changes or provide impact reviews for all engineering activities related to the creation, modification or updating of Software Quality Assurance activities. The Contractor shall maintain a Software Quality Assurance Program (SQAP) to meet, as a minimum, the requirements of IEEE/EIA 12207 for software developed under this Contract. The Contractors Organizational Divisional Procedures (ODP) or equivalent, requiring tailoring to meet the needs of a particular software development effort, will be submitted to the Government prior to the start of that specific software development effort via the Government specified data repository storage location.

C.4.2.3 Reserved

C.4.2.4 For each proposed change to covered vehicle system end item, major item, and/or secondary item, the contractor shall first determine vehicle system or component "ownership" in order to prevent conflicting requirements and/or undesirable changes for items in common use with other vehicle systems.

C.4.2.5 Reserved

C.4.2.6 When "ownership" is, in fact, covered by another supplier it is incumbent on the contractor to notify the PCO of the potential impact.

C.4.2.7 If a cross-system conflict is discovered the contractor shall notify the Government. The Government will resolve the conflict issue and provide appropriate direction by PCO direction.

C.4.3 Engineering Support for Mission and Support Equipment

Mission Equipment is defined herein as items of equipment and material that are used with and attached or mounted to the vehicle system in support of operational mission requirements. These items include Associated Support Items of Equipment (ASIOE) such as radios, mounted weapons systems, and sensor packages; Basic Issue Items (BII) such as pioneer tools; Common Table of Allowance (CTA) items; and special kits developed for the vehicle system such as add-on armor and underbody kits.

Support Equipment is defined herein as items of equipment used in the service and maintenance of the vehicle system to include special tools and Test, Maintenance, and Diagnostic Equipment (TMDE).

C.4.3.1 The contractor shall provide services to assess change impacts, provide engineering design services, recommend changes or provide impact reviews for all engineering activities related to the creation, modification or updating of Mission and Support Equipment and their interface to the vehicle system.

C.4.4 Transportability Engineering Support

C.4.4.1 The contractor shall provide Transportability Engineering support and a list of Contractor, Mission and Support Equipment, or other items that may affect the transportability of the Contractor variant or FOV in a Contractor prepared Transportability Report, using DI-PACK- 80880C as a guide, for all design modifications made to their vehicles to support the implementation or removal of any requested Mission and Support Equipment modifications affecting the system's overall weight, dimensions, center of gravity or transportability capability requirements. The Contractor shall perform transportability testing for design modifications affecting vehicle transportability. The Contractor shall prepare a Transportability Test Report IAW providing data elements equal or above DI-MISC-80048 60 days before validation/verification.

C.4.5 General System/Subsystem Engineering Support for Critical Safety Items (CSI)

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C.4.5.1 The contractor shall identify Critical Safety Items (CSIs) within the TDP and shall provide engineering per DI-SAFT-80970A. Design analysis and testing services will allow the Government to assess the field concerns or issues that may surround CSI items, as in DI-HFAC-80938A. The Contractor shall perform or use their scientific and engineering investigations to ensure compatibility of all physical, functional, software, human and technical program interfaces are in alignment with the established design and definition and configuration management impacts of all vehicles. The Contractor shall provide estimated CSI design and integration services for all components, parts, sub-assemblies or assemblies. The Contractor shall provide estimated CSI design and integration service prices for all components, parts, sub-assemblies or assemblies in a Government specified Government Competitive Cost Analysis format required of the Government Acquisition functional area format to insure that of the fidelity of information is standardized and formatted to expedite the Competitive Cost Analysis requirements of the Governments Acquisition team requirements for all CSI vendor parts including piece parts, provided 60 days before parts need to be ordered. The Government applies the following definitions to Critical Safety Items:

C.4.5.1.1 Critical Safety Item: A part, assembly, installation, or production system with one or more critical characteristics that, if not conforming to the design data or quality requirements, would result in an unsafe condition. Unsafe conditions include conditions which would cause loss or serious damage to the end item or major components, loss of control, or serious injury to personnel.

C.4.5.1.2 Critical Safety Characteristics: Any feature (i.e., tolerance, finish, material composition, manufacturing, assembly or inspection process) of product, material, or process, which if nonconforming or missing would cause the failure or malfunction of the critical item.

C.4.5.2 The contractor shall perform design and engineering analysis of each CSI and assembly process so that these CSI items are clearly identified by the Contractor as such on the 3D Models, part drawing and assembly drawing in association with Contractor or Government generated Quality Assurance documentation (i.e., Quality Assurance Requirements and Quality Assurance Provisions (QAR/QAP)) that meet Government or Contractor QAR/QAP standards, whichever is more robust, and agreed upon for use by both the Contractor and the Government COR representative. The Contractor shall ensure that all critical safety characteristic(s) for each CSI are clearly identified as such on all 3D Model metadata attributes, drawings or engineering parts and assembly drawings, technical and training manuals and publications, and for all Government parts provisioning activities. The 3D Models drawing numbers, etc., shall be identified in all QARs and QAPs. Critical safety characteristics will require 100% inspection per the agreed upon QAR or QAP. The specific method for marking drawings shall be as delineated in ASME Y14.100 Engineering Drawing Practices.

C.4.5.3 The contractor shall provide CSI analysis and engineering activities to support the generation of the data sources, methods, and guidelines IAW CDRL A021 as follows:

C.4.5.3.1 The Contractor shall provide sound and robust engineering analysis and judgment IAW applicable U.S. Federal, State, and local laws/regulations.

C.4.5.3.2 Reserved

C.4.5.3.3 The Contractor shall provide Failure Modes and Effects Analysis (FMEA) IAW CDRL A013, criticality analysis ARP 5580 utilizing as a guide the latest version of MIL- HDBK-338. All FMEA Analysis shall conform to the requirements of the data elements needed to populate the Government FRACAS Risk Management Systems. Data elements of the system will be provided in the work directive. The Contractor will be provided access to this system and will be required to post all performed FMEA analysis into this system and shall notify the PCO that this action has been completed. Access to the FRACAS Risk Management System will be at the time of award of Work Directive requiring access. The contract shall provide, if not on the FRACAS system, a form and means of identification of the associated contract number, ECP number, Request for Quotation (RFQ)# or WD#, and affected FOV Vehicle Identification Number (VIN)# and configuration baseline variant associated or affected by the analysis.

C.4.5.3.4 The Contractor shall provide safety assessment and safety hazard analysis (MIL-STD-882D) as a minimum standard for providing this analysis. These individual assessments are to be delivered and loaded into the Government specific forms and format and electronically loaded by the Contractor into various Government-specified data repositories for storage retention of this information.

C.4.5.3.5 The Contractor shall provide CSI prototyping services and development testing and operational testing results of Government requested CSI. These individual assessments are to be delivered and loaded into the Government specific forms and format and electronically loaded by the Contractor in the Government data repository for storage retention of this information.

C.4.5.3.6 The Contractor shall provide RAM engineering assessments utilizing as a guide the latest version of MIL-STD-338 as a minimum standard for providing the analysis. These individual assessments are to be delivered and loaded into the Government specific forms and format and electronically loaded by the Contractor in the Government data repository for this information. The Contractor may use Government available or Contractor previous experience using like items or designs for RAM engineering assessment activities.

C.4.5.3.7 The Contractor shall provide Logistics Management Impact engineering assessments with CSI issues.

C.4.5.3.8 The Contractor shall provide engineering, logistic, safety, and software assessments or component qualification test and test results as requested by the Government on any CSI identified item.

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C.4.5.3.9 The Contractor shall provide engineering services to the Government to support requirement gathering pertaining to CSI to help the Government validate and ensure that all critical safety aspects of the design are accurately reflected, software, parts and materials operate well below fatigue limits and stress levels, and the design allows for assessment by inspection and nondestructive inspection equipment. Whenever the Contractor is asked to perform validation testing it must be based on engineering analysis or software testing of the critical safety item characteristics and should consider changes and deterioration through time or use, fatigue life, and operating and environmental conditions.

C.4.5.3.10 The Contractor shall provide a CSI drawing impact list that shall be maintained and updated throughout the life of the contract and posted on the Government specified data repository. The CSI shall also reference the vehicle class type, variant type, VIN #s affected and any related IBOM information to allow easy cross reference of CSI Items to the Engineering IBOM and 3D Model or drawings. This list shall be dynamic in nature with changes taking place as experience and knowledge is obtained and design changes are incorporated. Reports shall be developed IAW DI-SAFT-80970A as a minimum requirement. When the Contractor is performing these analyses the Government shall be permitted access to the Contractor's backup documentation whenever requested to aid and assist in the Government functional area awareness of these analyses.

C.4.5.3.11 The Contractor shall provide a list of components having a requirement for nuclear hardening as part of the CSI effort. The nuclear hardening requirement shall be highlighted as a critical safety characteristic in the TDP and CSI list. All request for Critical Safety Item Support services for all MRAP FOVs or Mission and Support Equipment and reporting activities as specified in this SOW shall follow the format, data elements and frequency of deliver as identified in DI-MGMT-80258A.

C.4.6 Environmental, Safety, & Occupational Health (ES&OH)

C.4.6.1 General: The contractor shall identify and control conditions, real or potential, that can:

C.4.6.1.1 Cause injury, illness, or death to personnel;

C.4.6.1.2 Damage to or loss of a system, subsystem, part or component, equipment, or property; or,

C.4.6.1.3 Damage to the environment occurring during operation of MRAP vehicles for the parts, component, subsystem or system, including software provided as part of this contract, including subcontractor provided parts, components, subsystems or systems.

The Contractor shall not degrade existing MRAP safety related design features. The contractor shall use the system safety methodology in MIL-STD-882D System Safety Program Requirements, as tailored in the Statement of Work C.4.6.2.1.

System design and operational procedures developed or updated by the Contractor shall incorporate the following:

C.4.6.1.4 Identifying hazards associated with the system by conducting safety analyses and hazard evaluations. Analysis shall include both operational and maintenance aspects of the vehicle along with potential interface problems with planned subsystems,

C.4.6.1.5 Eliminating or reducing significant hazards by appropriate design or material selection and software design applications,

C.4.6.1.6 Controlling or minimizing hazards to personnel which cannot be avoided or eliminated,

C.4.6.1.7 Locating equipment components and controls so that access to them by personnel during operation, maintenance or adjustments shall not require exposure to hazards such as high temperature, chemical burns, electrical shock, cutting edges, sharp points, or concentrations of toxic fumes above established threshold limit values, including all moving parts and mechanical power transmission devices,

C.4.6.1.8 Identification and safe system discharging of mechanical, electrical, pneumatic or hydraulic or liquid system designs to exhaust system components, pneumatic components and hydraulic components which are of such a nature or so located as to be a hazard to operating or maintenance personnel and the Contractor shall ensure the design solutions be either enclosed or guarded but designed so all the protective devices shall not impair operational functions,

C.4.6.1.9 The Contractor shall ensure that suitable warning and caution notes in all manuals and publications and shall specify standard Government warning labels types and placement locations as well as instructions for safe operation, maintenance, assembly and repairs and distinct markings placed on hazardous components of equipment of the Contractors FOV and various variants. This data will be shared with the Government in the Government specified format and placed into a Government specified data storage location. The Contractor shall maintain and update throughout the life of the contract and posted on the Government specified data repository. The Contractor shall provide engineering service support CONUS and OCONUS to install or update warnings labels and caution notes in previous or newly delivered technical manuals or publications or vehicles, individual parts, components, sub-assemblies or assemblies and could be sourced with the placement of the labels.

C.4.6.1.10 The Contractor shall ensure that safety is considered in the design for both operational and maintenance phases of the use of the system or vehicle.

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C.4.6.1.11 The Contractor shall notify the Government of any changes impacting the meeting of the Federal Motor Vehicle Safety Standards (FMVSS) and Federal Motor Carrier Safety Regulations (FMCSR) in their design solutions or design change solution.

C.4.6.1.12 Hazardous materials will be disposed of utilizing Contractor procedures IAW applicable local regulations with related costs to be charged to the contract.

C.4.6.2 Safety Assessment Report (SAR) Generation Engineering Support Services

C.4.6.2.1 The Contractor shall perform and document a system safety assessment to identify all safety features of the hardware and software design. The assessment shall also identify hardware, software (if applicable) and procedural related hazards that may be present in the system, sub-system, part component or equipment. This assessment shall be a comprehensive evaluation of the risk of a mishap occurring prior to testing or operation of the system. The Contractor shall identify Health Hazards associated with the system and incorporate them into the SAR. A health hazard is defined as an existing or likely condition, inherent to the operation, maintenance, transport, storage or use of material/equipment, which can cause death, injury, acute or chronic illness, disability or damage to the environment. In preparing the health hazard portion of the Safety Assessment Report, the Contractor shall provide as a minimum: Noise (steady state and Impulse), Toxic Gases, Chemical Hazards, Ionizing or non-Ionizing radiation, Heat and Cold, Shock and Vibration to crew members, Electromagnetic Radiation, generation of hazardous waste and/or Biological Hazards. As a result of any safety analyses, hazard evaluations, or Government or independent Contractor testing, the Contractor shall prepare a SAR in Contractor format. This requirement applies to the prototype and production level hardware, as well as subsequent/follow-on block upgrades and safety ECPs. The SAR shall be submitted IAW DI-SAFT-80102B and CDRL A014. The SAR shall:

C.4.6.2.1.1 Briefly describe the part, subsystem, component or system and its components including software;

C.4.6.2.1.2 Provide general physical characteristics of the system and components and describe how the software works in the system (use photos, diagrams, sketches or drawings as necessary);

C.4.6.2.1.3 Identify all safety features of the hardware, software, system design and inherent hazards;

C.4.6.2.1.4 Establish special procedures and/or precautions to be observed by Government test agencies and system operators and maintainers to ensure the safety of personnel and property;

C.4.6.2.1.5 Summarize the safety criteria/methods used to classify and rank hazards;

C.4.6.2.1.6 Summarize results of tests and analyses used to identify hazards. Include results of tests conducted to validate safety criteria or requirements;

C.4.6.2.1.7 Identify hazards that still pose a risk to users, and actions that have been taken to reduce this risk;

C.4.6.2.1.8 Categorize hazards as to whether they may be expected to occur under normal or abnormal use;

C.4.6.2.1.9 Annotate any hazardous material generated or used in the system.

C.4.6.2.1.10 Provide the appropriate procedures/precautions for packaging, handling, storage, use, transportation and disposal of the hazardous material identified in (i);

C.4.6.2.1.11 Include explosive hazard classifications for the hazardous material identified in (i);

C.4.6.2.1.12 Include applicable Material Safety Data Sheets for all chemicals used;

C.4.6.2.1.13 Identify all reference or source documents used to prepare the report; and

C.4.6.2.1.14 Include a signed statement from the Contractor indicating that identified hazards have been controlled or eliminated and the system is ready for operation/test.

C.4.6.2.2 SAR Updates: In the event the software, part, component, subsystem or system is modified or procedural changes are made, the Contractor shall update the SAR to reflect those modifications or changes. The Contractor shall submit an updated SAR IAW DI-SAFT-80102B and CDRL A014. After this second SAR delivery, the Contractor shall provide updated SAR change page notices within 30 days after any new modification or change is implemented. Extension beyond 30 days for SAR change notices requires prior Government approval. In addition, the Contractor shall immediately notify the Government (within 24 hours) via phone with immediate written follow-up (fax or e-mail) if new hazards or increased risk/hazard probability levels are identified while Government testing of the part, component, subsystem or system is ongoing.

C.4.6.3 Hazard Tracking: The Contractor shall develop a method or procedure to document and track all hazards, to include those identified through testing and other analyses, from identification until the hazard is eliminated or the associated risk is reduced to a level acceptable to the Government IAW CDRL A014. A central file or document called a "Hazard Log" shall be maintained. The Hazard Log

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shall contain as a minimum: A description of each hazard, to include cause, possible effect and hazard category; Status of each hazard; Traceability of the mitigation measures on each hazard from the time the hazard was identified to the time the risk associated with the hazard was reduced to a level acceptable to the Government.

C.4.6.3.1 HAZARD LOG: The definitions of Severity Categories and Probability Levels identified below shall apply when determining whether a hazard must be identified on the Hazard Log.

C.4.6.3.1.1 Hazard Severity Category

Catastrophic I: Death, system loss or severe environmental damage

Critical II: Severe injury, severe occupational illness or major system or environmental damage

Marginal III: Minor injury, minor occupational illness or minor system or environmental damage

Negligible IV: Less than minor injury, less than minor occupational illness or less than minor system or environmental damage

C.4.6.3.1.2 Hazard Probability Levels

Frequent A: Hazard is likely to occur. Hazard will be experienced frequently

Probable B: Hazard will occur several times in the life of the item or component

Occasional C: Hazard likely to occur sometime in the life of times the item or component

Remote D: Hazard unlikely, but could possibly occur in the life of the item

Improbable E: Hazard is so unlikely, it can be assumed not to possibly occur

C.4.6.4 Disposition and Closeout: All hazards must receive final disposition by the Government. The Government and the Contractor shall mutually agree as to whether a hazard requires a redesign; however, any redesign required due to a hazard shall be performed at no cost to the Government, and the adequacy of the design change shall remain the responsibility of the Contractor.

C.4.6.5 Safety Review Support: The Contractor shall provide support for analysis activities of Class A and Class B mishap investigations and formal safety reviews in support of the program i.e., Weapons Systems Explosives Safety Review Board (WSESRB), Laser Safety Review Board (LSRB), and Lithium Battery Review process.

C.4.7 Analysis of Field Problems Support Services

C.4.7.1 The contractor shall evaluate Test Incident Reports (TIRs), Equipment Improvement Recommendations (EIRs), Recommended Changes to Publications (DA Form 2028), Government Suggestions (DA Form 1045), Unsatisfactory Equipment Reports (UERs), and similar documents to determine whether a change is required in the MRAP Logistics Support System, to include tools, test sets, Technical Manuals (TMs), and maintenance concepts.

C.4.7.2 The Contractor shall resolve long-term problems and develop an interim containment action to field problems. The interim containment action shall provide interim solutions to field problems on an expedited basis. The resulting documentation/data shall be the minimum required to implement the action. The Contractor shall then develop the data further through testing, cost effectiveness studies, and design reviews that shall result in a change to the documentation in the system TDP.

C.4.7.3 Support Services: The Contractor shall provide support relating to the contract items and data at Government specified locations. Such services consist of training; coordination, attendance at program, technical and logistics meetings; support of Government test; and field review of deficient or defective items, as required. The Contractor shall develop special interim or work around procedures/techniques using test sets to solve MRAP field problems as appropriate.

C.4.7.4 Fielding Coordination: MRAP FOV TMs and Interactive Electronic Technical Manuals (IETMs) and Electronic Technical Manuals (ETMs): The Contractor shall coordinate the planning of draft troubleshooting changes to the MRAP FOV TMs with retrofit of fielded test set hardware/firmware to ensure their concurrent delivery to field sites.

C.4.8 TMDE Support Services

C.4.8.1 The Contractor shall maintain a continuing program for analysis of system, component, and TMDE deficiencies based upon inputs obtained by field engineers or furnished by the Government. The Contractor, where necessary, shall fabricate hardware for engineering test; conduct engineering tests, monitor user tests; prepare final designs and develop Source Data for an ECP/RFD/RFW.

C.4.8.2 Analysis of Changes: The contractor shall provide analysis of all MRAP ECP/RFD/RFWs/NOR/ERR potentially impacting TMDE to the

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appropriate TMDE Contractors. For those ECPs/RFW/RFD assessed by the Contractor as having TMDE impact, The Contractor shall comply with the Government CM and PDM system requirements defined in section C.2 and C.4 Correction/Changes to TMDE/ Vehicle Health Management System (VHMS). When the analysis determines the need for change to TMDE/VHMS to correct problems or maintain compatibility with the MRAP FOV, the Contractor shall provide the following services:

C.4.8.2.1 For Hardware Corrections/Modifications, the Contractor shall:

C.4.8.2.1.1 Investigate and analyze test set related deficiency reports to identify nature and source of each problem,

C.4.8.2.1.2 Investigate and analyze test set related operational test problems to include failure reports and the like,

C.4.8.2.1.3 Develop solutions to problems related to system operation, vehicle test, failures, hardware/firmware, performance and documentation, and

C.4.8.2.1.4 Conduct investigations, studies, or programs for TMDE hardware

C.4.8.2.2 For TMDE Physical/Function Interface Corrections/Modifications, the Contractor shall:

C.4.8.2.2.1 Provide on-site support or investigation and/or field tests upon request.

C.4.8.2.2.2 Work with the appropriate TMDE Contractor to perform functional or interface non-compatibility analysis where vehicle application adversely impacts test set physical/functional configuration baseline.

C.4.8.2.3 For Software Corrections/Modifications, the Contractor shall:

C.4.8.2.3.1 Investigate and analyze test set related deficiency reports to identify nature and source of each problem.

C.4.8.2.3.2 Develop solutions related to system operation, diagnostic failures, and message interpretation.

C.4.8.2.3.3 Conduct investigations, analysis, or programs for TMDE/VHMS Software

C.4.8.3 TMDE Software: The Contractor shall work with the appropriate TMDE Contractor to ensure the compatibility of TMDE software to the MRAP Program.

C.4.8.4 Reserved

C.4.8.5 Embedded Diagnostics/Health Management Validation: The contractor shall perform validation of proposed engineering changes and product improvements to Embedded Diagnostics and Health Management Systems. This shall apply only to changes to the MRAP peculiar applications programs and commonly shared executive program.

C.4.8.6 Software Retrofit:

C.4.8.6.1 The Contractor shall assist the Government and TMDE Prime Contractors in the coordination of all software field updates associated with the DSESTS-MRAP/FVS, Embedded Diagnostics, Prognostics and Health Management.

C.4.8.6.2 The Contractor shall recommend when a software update should be performed based on the magnitude and significance of the software corrections/modifications.

C.4.8.7 The Contractor shall follow industry standards in the efforts of software architecture, design, coding, testing, safety evaluation, software reliability and robustness, as it relates to software development efforts.

C.4.8.8 Test Maintenance and Diagnostic Equipment, (GFP) Repair: The Government will provide for the maintenance of all GFP TMDE provided for the performance of this program.

C.4.8.9 Configuration Management (CM)/Configuration Change Review: The Contractor shall review all ECPs and RFD/RFWs on TMDE hardware and software, which are furnished by the Government or TMDE Contractors. The review shall assess the compatibility of the proposed changes with the MRAP FOV Configurations, potential impact to MRAP logistic support element (i.e. Logistics Management Information (LMI), TMs, Training), and the quality aspects of change.

C.4.9 Reserved

C.4.10 Reserved

C.4.11 Reserved

Name of Offeror or Contractor: NAVISTAR DEFENSE LLC**C.4.12 Development of Improvements to Vehicle Systems**

C.4.12.1 The Contractor shall furnish the supplies and services necessary to:

C.4.12.1.1 Develop improvements to the vehicle system;

C.4.12.1.2 Integrate improvements into the system;

C.4.12.1.3 Provide technical support and interface concerning the MRAP FOV to related developmental programs

C.4.12.1.4 Support and interface to other programs is limited to providing technical information, data, and expertise on MRAP FOV, derivatives and related equipment.

C.4.12.2 The Contractor shall perform system analysis, definition, integration planning, preliminary design, and full development. Work may include engineering, manufacturability, prototyping, test (both conduct of Contractor and support to Governmental testing), RAM-D, quality assurance, configuration management, safety, MANPRINT, and integrated logistics support as certified by the applicable paragraphs of the statement of work.

C.4.12.3 During system analysis, definition, integration planning, and design, the Contractor shall ensure that logistics, producibility, quality, human factors safety, MANPRINT, test RAM-D, and environmental impact are considered. All trade-off evaluations conducted shall include consideration and an estimate of production cost and, if applicable, retrofit and further development costs in the study. The Contractor shall participate in the following:

C.4.12.3.1 Systems Requirements Review

C.4.12.3.2 System Function Review

C.4.12.3.3 System Design Review

C.4.12.3.4 Preliminary Design Review

C.4.12.3.5 Critical Design Reviews (CDR)

C.4.12.3.6 Other interim program reviews

C.4.12.4 The Contractor shall support Government demonstrations of MRAP developmental systems and components. These demonstrations of developmental systems may include but are not limited to: Army War fighting Demonstrations, Experiments and Rotations at the National Training Center. Support may include the design and documentation of the system or component improvement as well as on-site technical and logistics support to the demonstration.

C.4.12.5 All request for Analysis of Changes Support services for the MRAP FOV Vehicle or Mission and Support Equipment and reporting activities as specified in this SOW shall follow the format, data elements and frequency of delivery and shall use DI-MGMT-80995A, DI-MGMT-80933 as guidance in these documents.

C.4.13 Design Improvement Investigation Support:

C.4.13.1 The Contractor shall conduct a program of design improvement and study for the purpose of improving performance and RAM-D of the MRAP FOV System for these support services. The Contractor shall present design reviews and recommendations on the feasibility of implementation of the design improvements. The Government may direct investigations into the following areas of design:

C.4.13.1.1 Electrical Projects

C.4.13.1.2 Safety Related

C.4.13.1.3 Armament Projects

C.4.13.1.4 Auxiliary Systems Projects

C.4.13.1.5 Engine/Power Train Interface Projects

C.4.13.1.6 Structures Projects

C.4.13.1.7 Armor Projects

C.4.13.1.8 Suspension Projects

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C.4.13.1.9 Special Vehicle Equipment Projects

C.4.13.1.10 TMDE Projects

C.4.13.1.11 System Software Projects

C.4.13.1.12 Vetronic Unique Equipment Projects

C.4.13.1.13 Training Aids and Devices, Simulations, Simulators (TADSS) Projects

C.4.13.1.14 Condition Based Maintenance (CBM) Projects

C.4.13.1.15 Prognostics and Health Management Projects

C.4.13.1.16 Other Projects

C.4.14 System Test Program/ Overall Test Program Support

C.4.14.1 Contractor shall coordinate the planning, execution and evaluation of all Contractor Testing, the supply of support and services required for all Contractor and Government testing, monitoring at Government test sites and reporting requirement. The permanent relocation of Contractor technical representatives to remote field test sites is authorized to meet requirements of the contract in a manner that is both most economical and beneficial to the Government. In addition, the Contractor shall provide the necessary special test facilities and all effort and material necessary for conducting essential Contractor in-house testing, including subcontractors testing required in support of Government test and evaluation objectives.

C.4.14.2 Contractor shall correct deficiencies identified by the Government Inspectors inspecting MRAPs during initial receipt at Government test sites.

C.4.14.3 Contractor shall furnish the necessary technical management for planning and execution of support and services for conducting system tests.

C.4.14.4 Contractor shall procure and maintain state-of-the art tools, timers and counters and special test equipment in test vehicles specified in the system test schedule. Included shall be equipment and software required for the downloading of documentation, distribution, and processing of test data and reports/records.

C.4.14.5 Contractor shall provide System Support Packages (SSPs) or other maintenance and/or spare parts support for MRAP FOV and derivative test vehicles for their continued operation throughout the period of this contract. This includes repair/replacement of MRAP subsystems/components in order to bring the test vehicle(s) into satisfactory condition for test/training/logistics events.

C.4.14.5.1 The SSP is a composite package of support resources, to include spare parts, special tools, etc. SSPs shall be provided. Items not furnished in sufficient quantity shall be provided by the Contractor to the specified location within 24 hours after notification of the shortage. All items comprising an SSP shall be the same configuration and source as will be used on the MRAP production vehicles.

C.4.14.5.2 Contractor shall provide a list of the SSP items to the Government using DI-MISC-80508B as a guideline off SSP List items.

C.4.14.5.3 Contractor shall assemble, furnish, package, pack and ship the SSP to the designated site(s). The SSP shall be coordinated with the Government and shall consist of some or all of the following in C.4.14.5.4 through C.4.14.5.13.

C.4.14.5.4 Spare or repair parts and parts needed to meet the requirement arising from predicted failures, scheduled maintenance and anticipated wear out sufficient to support the test requirements. The SSP to support Logistic Demonstrations shall consist of mandatory replacement items and items most likely to be consumed or broken during a disassembly or assembly process, such as seals and gaskets.

C.4.14.5.5 Special Tools and Test Measurement and Diagnostic Equipment (TMDE): Required common tools or tool kits, equipment and TMDE identified in the Government supply catalogs shall be identified on the SSP list, but need not be physically present in the SSP. The Contractor shall identify and utilize existing Government tools and test equipment to the maximum extent feasible. Required tools and TMDE not found in the Government supply catalogs shall also be identified in the SSP list and be provided as part of the SSP. Tools and TMDE not found in the Army supply catalogs shall be designated as special tools and special TMDE.

C.4.14.5.6 Equipment Publications: The most recent version of each equipment publication shall be identified on the SSP list and shall be provided as part of the SSP. When updates are made to any publication during the course of Logistic Demonstrations or testing, those updates shall be forwarded to the appropriate site(s).

C.4.14.5.7 BII and Components of the End Item (COEI): BII as required by the specifications and COEI shall be identified in the SSP

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list. Additional BII and COEI need not be physically present in the SSP if complete BII and COEI packages are provided with the Logistic Demonstration and test vehicles.

C.4.14.5.8 Expendable Supplies: Expendable supplies such as petroleum, oils and lubricants, shall be identified in the SSP list. Only unique (not Military Standard) products shall be physically present in the SSP.

C.4.14.5.9 Personnel Requirements: The Military Operational Specialty (MOS) and skill level required to operate and maintain the vehicle system shall not be identified in the SSP list.

C.4.14.5.10 Support Equipment: Equipment already existing in the Army inventory to support the vehicle system, such as recovery vehicles and towing devices, shall be included in the SSP list, but not provided by the Contractor as part of the SSP.

C.4.14.5.11 Contractor shall prepare and/or review test plans/reports.

C.4.14.5.12 Test Support: The Contractor shall supply test hardware, software, labor, parts facilities, instrumentation and other items necessary to perform tests as directed by the Government IAW CDRL A019.

C.4.14.5.13 All request for System Test Program/ Overall Test Program Support services for the MRAP FOV Vehicle or Mission and Support Equipment and reporting activities as specified in this SOW shall follow the format, data elements and frequency and shall use DI-QCIC-81110 as a guideline for this data.

C.4.15 Special Tools and Support Equipment

C.4.15.1 Contractor shall conduct a program to support the tools, special tools and test equipment for new or redesigned components. If tools or test equipment require change as a result of design change or field identified problems, an ECP/RFW/RFD shall be prepared.

C.4.15.2 Contractor shall provide the necessary personnel, services, materials, and facilities to acquire and deliver to the Government, prototype and final configuration model tools and support equipment, along with adequate numbers of spares and support LMI data. The Contractor shall validate the redesign, and incorporate necessary changes, as part of the tool redesign/design effort. The Contractors must maintain CM Control of all Special Tools and Support Equipment types revisions levels used on each MRAP FOV variant shall directly associated these with the Contractors vehicle variant, model and affected VIN # and specific part, component, sub assembly or assembly # the STSE is used.

C.4.15.2.1 Table of Distribution and Allowance (TDA)/Table of Organization Equipment (TOEs): The most current series of TOEs shall be provided by the Government as required for use in making support equipment determinations.

C.4.15.2.2 TDA/TOEs for National Guard units shall be used to make support equipment determinations related to fielding of National Guard units.

C.4.15.2.3 All support equipment technical data shall be subject to Contractor CM control and Government modification and change approval. When a new or additional support equipment need is indicated, the Contractor shall follow the order of precedence below in submitting a suggested item:

C.4.15.2.3.1 Use of equipment available to MRAP FOV using units or MRAP support units,

C.4.15.2.3.2 The modification of already available equipment or a TOE change which authorized the recommended item at a lower level,

C.4.15.2.3.3 The use of a Federal Supply item by adding it to the units TOE as common equipment,

C.4.15.2.3.4 The use of a Federal Supply item by adding it to the MRAP FOV Repair Parts and Special Tools List (RPTSL) as a special item, and

C.4.15.2.3.5 The development of a new support item.

C.4.15.2.4 In addition to LMI, the Contractor shall maintain, and furnish to the Government as required, special tool records and documentation. These shall include, but are not limited to, drawing and print files; prototype or production procurements; implementation of Engineering Change Requests (ECRs), EIRs and field suggestions. CDRL A035

C.4.16 Specifications and Standards Service Support

C.4.16.1 The Contractor shall prepare and provide for the Government real time web based access to all of the contractor used product specifications in support of the provided Contractors MRAP FOV Variants.

C.4.16.2 New specifications shall be proposed and submitted using the standard Government Specification Change Notice Form and shall be incorporated in an ECP/RFW/RFD/NOR and submitted via the Government provided PDM Link or MEARS ECP/RFD/RFW management system for

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Configuration Control Board (CCB) action.

C.4.16.3 The application of specifications, standards and related documents shall be limited to documents specifically cited in the contract as requirements and to specified portions of documents directly referenced therein (first tier references).

C.4.17 Software/Firmware Design and Configuration Control

C.4.17.1 The contractor shall operate a software/firmware configuration control system that assures positive control of release and changes to new and existing software/firmware. At any time the Government may audit the proper storage, configuration control and use of practices as defined in Std EEE/EIA 12207 and Mil HDBK-347-NOT.

C.4.17.2 The contractor shall maintain Software development libraries using an automated configuration control tool.

C.4.18 Software Support Equipment

C.4.18.1 The contractor shall maintain the software development, software configuration management, software integration and test effort and shall include maintenance of laboratory equipment, procurement of updated hardware as the production hardware changes and operation of a system problem report data base and closed loop resolution system. The Contractor shall also maintain the MRAP computer simulators with the latest Soldier Machine Interface per the most current software version.

C.4.18.2 Reserved

C.4.18.3 Software Quality Assurance: The Contractor shall maintain a Software Quality Assurance Program (SQAP) to meet, as a minimum, the requirements of IEEE/EIA 12207.

C.4.19 Equipment Publications

C.4.19.1 The contractor shall provide the most recent version of each equipment publication. When updates are made to any publication during the course of Logistic Demonstrations or testing, those updates shall be delivered to the Government.

C.4.20 Reliability, Availability and Maintainability-Durability (RAM-D) Program

C.4.20.1 The Contractor shall update the MRAP FOV Reliability and Maintainability Program Plan(s) to reflect the current phase in the MRAP Life Cycle.

C.4.20.1.1 Reserved

C.4.20.1.2 The Contractor shall perform special RAM-D evaluation and analysis as determined necessary by the Government. Special evaluation and analysis maybe required for Product Improvement Program (PIP), rebuilt and/or Cold Region Test Center (CRTC) tests and shall report this data IAW CDRL A020.

C.4.20.1.3 Contractor shall provide analysis and support to Government scoring, aggregation and close-out conferences and provide support to corrective action meeting for the MRP Test Program. The Contractor shall be required to prepare documentation, presentations and consolidation of corrective actions in support of scoring conference for system testing.

C.4.20.1.4 Contractor shall perform RAM-D evaluation and analysis as determined necessary by the Government and shall report all RAM-D evaluation and analysis data on a format, frequency, Government repository location and data fidelity agreed to by the Government.

C.4.20.1.5 Contractor shall conduct failure analysis of failed hardware IAW the RAM-D Program Plan from field and test sites for all System Testing. Test failure analysis coverage may be deleted or substituted as authorized by the Government.

C.4.20.1.6 The contractor shall maintain a closed loop system to report, analyze and generate corrective actions for failures encountered during System Testing. Contractor shall maintain a continuous record of open and closed TIRs. The Contractor shall record the length of time and the incident by classification.

C.4.20.1.7 The contractor shall conduct failure analysis to identify the root cause for failure of items identified by the Government, studies to correct known or potential deficiencies, to accomplish product improvements, to accomplish cost reductions, and to maintain current contract item data for serviceability and intended use. Such studies may be required with respect to proposals for engineering changes and attendant processes and methods. All efforts shall consider logistics and any impact to maintainability or supportability. In performance of these efforts, the Contractor may be required to contact or coordinate with current MRAP manufacturers and major vendors in order to resolve issues, ensure continued producibility, etc. Issues affecting these other companies must be considered and related risks weighed in the performance of this contract. The Contractor shall report all failure analysis and root cause data.

C.4.20.1.8 The Contractor shall prepare cost estimates, technical reports, calculations, layouts, drawings and CAD models, sketches, schematics charts and other visual depictions (including photographs and videos documenting test results or vehicle or component

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conditions), purchase descriptions, and recommend ECPs for current and future production versions of the contract item and modifications thereof. CDRL A020.

C.4.20.1.9 The contractor shall prepare and submit technical reports identifying the results of investigations or evaluations. Include recommendations for future course(s) of action as well as the supporting rationale and documentation. The supporting documentation shall include the items with data fidelity to the extent necessary to support all conclusions made in the report. When the report recommends an ECP/RFW/RFD, the report shall also address the potential impact on ILS (initial or follow-on provisioning, technical manuals, TMDE, tools, training, etc.) as well as any anticipated cost and weight associated with the change IAW CDRL A021.

C.4.20.1.10 The contractor shall conduct trial installations of component part(s) and associated testing on the contract item, or modification thereof, and testing related to processes and methods that are required to evaluate the work. The Contractor shall provide parts, materials and supplies required to support and conduct engineering and logistic evaluations, maintenance, rebuild and restoration of the contract item or modification thereof for items undergoing such tests. To meet emergency requirements, the PCO may direct the Contractor to ship such parts by the most expeditious means available to specified destinations.

C.4.20.1.11 The Contractor shall modify existing engineering and test versions of the MRAP and fabricate subsystems, components, prototypes and mock-ups of future production versions of the vehicle.

C.4.20.1.12 The Contractor shall maintain their technical data so they are kept current, legible and available for use as a basis for design evaluation, maintenance, modification, or engineering support of the MRAP FOV.

C.4.20.2 RAM-D Controls

C.4.20.2.1 Contractor shall maintain a closed loop data base which incorporates details of each test incident, failure analysis and corrective action associated with system testing. Some failure analysis and corrective action may be excluded on a test-by-test basis. The Contractor shall report with corrective actions all test incident, failure analysis and corrective action associated with system testing IAW CDRL A013.

C.4.20.2.2 Contractor shall establish/maintain reliability and maintainability interfaces and controls with engineering, quality/product assurance, manufacturing, production, ILS and subcontractors. The Contractor shall report all maintain reliability and maintainability interfaces and controls with engineering, quality/product assurance, manufacturing, production, ILS and subcontractors.

C.4.20.2.3 Contractors RAM-D Office shall continue sign-off authority and review for all ECPs/RFD/RFW/NOR/ERR, drawings, deviations, waivers, part application and production process changes.

C.5 General Configuration Management System/Subsystem/Design Engineering Support

The Government is the Original Design Activity for all products and data developed under this contract and, as the Current Document Change Authority (CDCA), is the only entity with decision authority over the kits and respective design data.

C.5.1 The Contractor shall establish a CM program for Configuration identification, control, status accounting, verification, audit, and data management of the Contractors FOV. The Contractor shall use a robust Configuration Management system, methods and solutions to establish and maintain Configuration Control of the Contractors FOV for all variants per ANSI/EIA-649 and MIL-HDBK-61. The Contractors support requirements includes all prime Contractors, subcontractors, and Government support agencies, including but not limited to Government MRAP Joint Program Office (JPO)-PM, other PEO-PM, and sub-contractors that are Contractor/Government item provider list, to accomplish the successful establishment of a enterprise wide Configuration Management System.

C.5.2 The contractor shall perform Configuration Management System/Subsystem Engineering support to the extent described below.

C.5.2.1 The Contractor shall use a robust Configuration Management system and implement methods and solutions to establish and maintain Configuration Control of the Contractors FOV for all variants.

C.5.2.2 The Contractor shall perform Configuration Management Engineering support activities to allow the Government to develop, start-up and implement a robust Government based Configuration Management system, methods, tools, solutions, processes and to ensure the Government has the most current set of data and information as it relates to TDP, 2D-3D Models, IBOM, Configuration baselines, Configuration Status Accounting information, serialized asset information, engineering studies, engineering reports, engineering specifications, engineering standards, item and item supplier/NSN technical support data, technical operation, maintenance, repair or training manuals of the Contractor MRAP FOV.

C.5.2.3 Configuration Management support activities shall also include the data investigation, collection and revision maintenance of previous, pending, and new MRAP FOV vehicle variant Configuration Management information.

C.5.2.4 CM Support request for this information may include Contractor direct interface with other Government military branches, support agencies including those organizations or other Government PEO and PM offices managing the design and Contractor coordination of GFP,

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Government Contractors or Government integration partners of GFP current used or to be used in the Contractor MRAP FOV. Support requests may also be made to support previous/new Government Contractors or Government supply chain partners utilized in the future modification and upgrade or technical insertion of the current or new fleet of MRAP FOV variants the Contractor has currently produced and delivered to the Government or could provide to the Government in the future.

C.5.2.5 Support to the Government Configuration Control Board

C.5.3 Government PDM System(s)

C.5.3.1 Reserved

C.5.3.2 The Contractor shall provide services to the Government to perform the initial population of our Government PDM system and mapping of the Contractors MRAP FOV variant platform of vehicles.

C.5.4 Government PDM System(s) Access Passwords/Login In: The Contractor shall obtain a login and password and shall use the Government PDM system(s) for all Contractor personnel responsible for preparing ECPS, RFW,RFD,NOR, ERRS or for providing IBOM and critical TDP information required to populate these Government system.

C.5.5 Government PDM System(s) Training: The Contractor shall attend training on the Government PDM system(s) and comply with new direction and requirements of the Government PDM system(s) throughout the lifecycle of the program. The Contractor shall track and provide to the Government a specified data base list of all Contractor personnel trained and indicate to what level they have been trained.

C.5.6 Use of Contractor Existing CM System: Contractor shall participate in Configuration Control Board to provide clarification and answer question regarding documents prepared by the Contractor and submitted to the Government for approval. The contractor shall update, deliver and maintain a current Contractor based CM Plan and System IAW CDRL A115. The Contractors CM-PDM plan and system shall address configuration control processes, technical data storage, relationships with activities within and outside the Contractor (to include methods to ensure subcontractor CM processes), interface management, configuration status accounting, and any special CM requirements identified by the contract. The Contractors CM-PDM plan and system shall address any special CM requirements. The use of government standard is preferred the Use of Best Commercial Practice may be requested by the contractor for Government approval which will be determined on a Work Directive basis.

C.5.7 Configuration Identification

C.5.7.1 Requirements for Configuration Identification for the MRAP FOV are set forth below. The Contractor shall update all Contractor related TDP, 3D Models and other program technical data Configuration Identification Records to incorporate approved changes. The Government defines vehicle configuration identification information categories using the following criteria:

C.5.7.1.1 Allocated Configuration Identification (ACI): Interface Control Documentation (ICD) for Mission and Support Equipment and Contractor furnished items.

C.5.7.1.2 Production Configuration Identification (PCI): All product specifications, product drawings and related documents used for products are the Product Configuration Identification (PCI).

C.5.8 Parts Standardization Plan and Contractor-Government Parts Standardization Plan Implementation Engineering Support

C.5.8.1 The contractor shall select parts and conduct a parts management program, that first utilizes existing parts solution that already exist in the Government NSN parts database system IAW the Contractor's standard design approval procedures, and which ensures the equipment (or system) meets the specification performance requirements with the greatest level of Operational Effectiveness (described as function of performance, reliability, availability, and life cycle costs).

C.5.8.2 The Government, shall conduct audits of the Contractors parts management program, the Contractors CM and PDM Product Data Management Systems to review the effectiveness of the Contractors parts management program, CM and Product Data Management Systems control of 3D Cad Model designs and changes, parts identification, Contractor change parts inventory management control methods and the Contractors transition system for the identification of part revisions on the Contractors or sub-Contractors production floor.

C.5.8.3 The contractor shall prepare a Parts Management Plan, detailing the documented internal procedures for Engineering Change Control, parts management, parts ordering, parts packaging, parts inventory, parts identification, part delivery, and part replacement control systems.

C.5.8.4 Diminishing Manufacturing Sources and Material Shortages (DMSMS) Management Plan: The Contractor shall develop and maintain a DMSMS management plan (obsolescence of spare parts) IAW CDRL A104 for managing the loss or impending loss of manufacturers or suppliers of parts and/or material, as required by DoD 4140.1-R, DoD Supply Chain Management Material Regulation. Planning should include issues such as long-lead material, unique processes, tooling, parts and material obsolescence. The use of Business Case Analysis to support DMSMS decisions is necessary to ensure DMSMS decisions are sound. All plans shall cover the plan elements addressed within the DMSMS

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Management Plan Guidance. A proactive DMSMS Program shall be applied to insure all DMSMS issues are appropriately mitigated throughout the entire life cycle of the system. The Contractor shall alert the Government as soon as possible when a part has been identified as DMSMS or obsolete, and provide recommendation to resolve the issue. The Contractor shall evaluate other alternatives when there is an issue with DMSMS or obsolescence. Alternative resolutions such as alternate sources, replacement parts and aftermarket parts are a few resolutions that can be considered. The Contractor shall consider revising the engineering drawing, schematics and specification when it has been identified that changes have been made. The Contractor must ensure that all of the hardware is producible and maintainable throughout the life cycle of the contract. The Contractor must present updated status of DMSMS and obsolescence issues at scheduled IPR meetings and brief resolution options.

C.5.8.5 DMSMS Forecasting and Notifications: The Contractor shall establish a process for identifying and notifying the Government of forecasted and identified DMSMS issues to the Program Office. The Contractor shall use predictive tools and methods to proactively forecast and monitor parts for DMSMS. The Contractor shall provide access to all DMSMS information for Government review. A Government representative shall participate as a member of the DMSMS Management Team and have full access to all DMSMS data and information. The Contractor shall provide DMSMS updates, in Contractor format, to the PM upon request, during each IPR and ILA, immediately upon discovery that a potential DMSMS issue may severely impair system life cycle cost or readiness. The Contractor shall turn over, at no additional cost to the Government, all current and historical DMSMS data and information upon declaring to the Government of its discontinuance of production and exit from the program

C.5.9 ECP/RFW/RFD/NOR/ERR Engineering Support CDRL A024, A025, A026

C.5.9.1 The Contractor shall prepare a calculations, layouts, drawings, sketches, schematics, charts 2D-3D CAD and other visual depictions, purchase description, specifications, cost effectiveness studies or analysis and recommendations in Government standard Engineering Change Forms (DD-1692-1695) along with Government and Contractor provided standard functional area impact Check Sheets, or current/future Government PDM System metadata entry screens. All ECP/RFD/RFW/NOR/ERR submitted meet a minimum Government submittal quality criterion to ensure the Government has the fidelity of data needed to properly assess all ECP/RFD/RFW/NOR/ERR for current and future production versions of the Contractors MRAP FOV, systems and modifications thereof. The Government will work with the Contractor in establishment or revision of these submittal standards and request as a default baseline, the full population of Forms DD-1692-1693 to be submitted with each ECP/RFD/RFW/NOR/ERR whether the request is for investigative or final approval ECP/RFD/RFW/NOR/ERR.

C.5.9.1.1 ERR: The Contractor shall prepare an ERR for each approved ECP/VECP and initial release of TDP IAW DI-CMAN-80463, DD Form 2617 (Attachment 0013), and CDRL A105. The ERR number shall be the same as the ECP number. Multiple ECP releases on one ERR is not allowed.

C.5.9.2 The contractor shall provide necessary interface and a liaison as required by the Government, both CONUS and OCONUS to help coordinate, communicate, review and provide implementation support of ECP/RFD/RFW/NOR/ERR driven or implemented by a wide variety of sources including but not limited to the war fighter, support Government agencies, other military branches, field failures, development and prototyping activities, supply chain quality or delivery issues, production, Mission and Support Equipment Integration, Transportation, de-processing, whether OCONUS or CONUS or at the Contractor prototype and or production facilities.

C.5.9.3 The contractor shall provide the necessary support to conduct MRAP FOV testing, including ballistic testing.

C.5.9.4 The contractor shall provide the necessary support on the MRAP FOV for all special projects.

C.5.10 Technical Data/Configuration Management System Engineering Support Other Agencies

C.5.10.1 ECP/RFW/RFDs/NOR/ERR affecting Defense Logistics Agency (DLA) Items

C.5.10.1.1 The Contractor shall obtain electronic access and furnish all Configuration Management, part number or NSN number changes through the appropriate DLA ECARDS or other DLA systems, of all pending and approved Change Requests (CR), ECP, ERR and revised drawings to the appropriate DLA office after the ECP/RFW/RFD/NOR or ERR has been approved by the Government for implementation.

The Contractor shall provide all previous, current and new part, component, sub assembly or assembly part number information and revision level information along with all affected NSN information to the DLA Offices. The Contractor shall notify by EMAIL, the Government platform Configuration Management designee associated with the Contractors FOV and the affected DLA representative when the ECP or CR is approved and data has been updated in the DLA ECARDS, system. The Contractor shall adapt notifications via e-mail to any new process or IT system improvement implemented to further automate the DLA change notification process. The location of the DLA Offices are as follows:

S9C Defense Construction Supply Center
3990 E. Broad Street
ATTN: DSCC-VTAA
Columbus, OH 43216-5000
e-mail: terrell.carter@dla.mil

S9E Defense Construction Supply Center

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3990 E. Broad Street
ATTN: DSCC-VTAA
Columbus, OH 43216-5000
e-mail: terrell.carter@dla.mil

S9G Commander
Defense General Supply Center
Jefferson Davis Highway
ATTN: DSCR-VADA
Richmond, VA 23297-5000
e-mail: gary.riffle@dla.mil

S9I Commander
Defense Supply Center Philadelphia
700 Robbins Avenue
ATTN: DISC-JLTA
Philadelphia, PA 19111-5096
e-mail: mhughes@dscp.dla.mil

C.5.11 Physical Configuration Audit (PCA)

C.5.11.1 A PCA shall be performed by the Contractor and Government personnel to validate new or prototype hardware and/or new vehicle configurations. The PCA shall be based upon approved ERRs and the Government will provide the Contractor with an outline of the requirements for the PCA. The contractor shall submit a PCA Plan for Government approval IAW CDRL A106 and PCA agenda provided IAW CDRL A107.

C.5.11.2 The Government will provide the Contractor with a PCA findings report. The Contractor must correct errors and present corrective actions through an ECP to the Government before PCA approval is considered. ECPs which provide PCA corrective actions shall be submitted to the Government for CCB approval within 30 days of receipt of the PCA report.

C.5.11.3 PCAs shall be conducted to establish the vehicles baseline as required by the Government during the vehicles lifecycle. The selected vehicle shall be compared against the design documentation to assure the vehicle conforms to the supporting documentation. The Contractor shall support a Government PCA in order to define, verify, and validate a complete Product Baseline provided to the Government. The Government reserves the right to audit up to 100% of the vehicle configuration if discrepancies are found. Audit findings shall be submitted per CDRL A021, Technical Reports.

As part of the PCA, the Contractor shall utilize the IBOM vehicle product structure and software specifications, where applicable. After Government review of the IBOM-product structure, the Government will advise the Contractor which items they intend to audit. The Government may perform a PCA on one vehicle per variant with Contractor participation, to include incorporation of all formal testing related changes. If the Government chooses to perform a PCA, the Government will provide the Contractor the minimal requirements for the PCA. The Contractor shall provide a completed PCA Plan, per CDRL A106, for approval 30 working days after the Government provides the requirements for the PCA. All findings from the PCA will be reviewed by the Contractor and a corrective action plan for each finding will be submitted to the Government within 10 working days after Government submits the findings. Corrective actions for all findings shall be made by the Contractor within 60 days, or as agreed to under the Work Directive, of receipt of audit findings.

As part of the PCA, the Contractor shall provide required safety equipment to the PCA team. The Contractor shall provide all required measuring instruments (e.g. micrometer, measuring tape, IUID reader) to support the PCA activities. The Contractor shall provide NDAs (Non-Disclosure Agreements) to any external contractors (Government auditors) that are acting on the Government's behalf as part of the Government team. The Contractor shall provide the Engineering BOM to be utilized during the PCA. The Contractor shall provide necessary engineering support, with all support personnel having a detailed knowledge of the product(s) being audited.

C.5.12 Configuration Status Accounting Information: The contractor shall maintain and deliver:

C.5.12.1 Configuration Status Accounting Report(s) (CSAR) for changes affecting the Contractors FOV which provide a detailed description of product design data, ECP and ERR status, IAW CDRL A022

C.5.12.2 A Master Data List for the Contractors FOV. This report shall, at a minimum, include the nomenclature, number, revision, date, location, etc. of engineering drawings, 3D models and associated lists, associated documents, schematics, installations, diagrams, instructions, software configurations, UID, decals, labels, warnings, critical safety items, kits, armor, manufacturing and process specifications, and other data created for the Contractors FOV. This report shall be prepared IAW CDRL A109

C.5.13 Reserved

C.5.14 Reserved

C.5.15 RELIABILITY PREDICTIONS

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The Contractor shall provide detailed design reliability predictions based on a defined configuration and associated models for the MaxxPro M1266A1 LWB AMB with MSU. The predictions shall be allocated down to the lowest indenture level and updated each time significant design or mission profile changes significantly impact the MRAP or any of its subsystems. The reliability modeling method shall mathematically relate the reliability block diagrams of the MRAP to time-event relationships. These tasks shall be performed in consideration of the end-user operational environment including sun load thermal, shock and vibration effects. Reports shall be submitted IAW CDRL A126 (DI-RELI-81497). The Contractor shall provide a recommendation on the lowest indenture level with rationale for Government review. The Contractor shall explain what is significant about their design. The mission equipment Government Furnished Equipment (GFE) will not be part of the reliability prediction. Reliability Block Diagrams shall be submitted and can be provided at the highest level. The equipment manufacturer shall determine the level of relationship based upon their maintenance plan and provide rationale for selection of the level to the Government.

C.6 ILSC and Logistical Support Services

C.6.1 ILS Program

C.6.1.1 ILS Responsibilities: The contractor shall conduct an ILS Program in support of the MRAP Systems Program as described below. The Contractor shall integrate the efforts of its subcontractors and Government-Contractors supplying MRAP components and major items of support equipment. The Contractor is responsible for planning, managing, and ensuring ILS considerations are an integral part of the overall system. The contractor shall prepare and update an Integrated Master Schedule (IMS) IAW CDRL A027, Integrated Logistics Support Plan (ILSP) IAW CDRL A118, and Life Cycle Sustainment Plan (LCSP) IAW A028.

C.6.1.2 Pollution Prevention and Integrated Logistics Support Elements: The Contractor shall include environment, hazardous and toxic material; safety and pollution prevention in development of all ILS documentation to include the ILSP required for each milestone throughout the acquisition Life Cycle using DI-MGMT-80899 Hazardous Waste Report as a guideline for data required.

C.6.2 Logistics Management Information: LMI effort under this contract shall be the genesis for ILS. The LMI shall lead and drive the ILS effort as front-end analysis for all logistic support efforts and shall also apply to engineering change and software development efforts conducted under this contract, as well as Government approved logistics engineering changes necessary to change logistics support elements. ECRs shall not be implemented without LMI and CM coordination and concurrence. The contractor shall use DI-ALSS-81530 and DI-ALSS-81529 as guidance for reporting this information.

C.6.3 LMI Maintenance: The Contractor shall conduct, maintain and provide to the Government as requested, LMI as a result of ECPs, DA Forms 2028, approved suggestions, Supply and Maintenance Assessment Review Team (SMART) initiatives and as directed by the Government.

C.6.4 LMI Program

C.6.4.1 The contractor shall conduct a full LMI Program and maintain it with continuously updated data. LMI Data Elements shall be completed and maintained IAW CDRL A041, DD Form 1949-3 will be provided.

C.6.4.2 Supportability Analysis/Logistics Management Information (LMI): The Contractor shall conduct Supportability Analyses to develop logistics products described in this contract. The Contractor shall use GEIA-STD-0007,, Logistics Management Information (LMI), in identifying content, format, delivery and related guidance for logistics data except as otherwise identified in this contract. The Contractor shall validate all documentation prior to submittal to the Government. Government receipt of data deliverables does not constitute acceptance. Government acceptance of data deliverables hinges on the completeness, accuracy, compatibility of submitted documentation, and the applicable military standards and specifications.

C.6.4.3 Maintenance Planning: The Contractor shall analyze the maintainability characteristics of the MRAP FOV and plan maintenance supportability in accordance with the Armys Two-Level Maintenance policies outlined in Army Regulation 750-1, Army Maintenance Policy. The Contractor shall include all operational, maintenance and support functions for the system in the Maintenance Analysis Summary (Paragraph C.6.4.3.1.1).

C.6.4.3.1 Maintenance Analysis: The supportability analysis shall be documented in the Contractors format as an LMI summary entitled Maintenance Analysis, and will identify the maintenance function, level of maintenance, manpower, spare and repair parts and all support equipment required for each replaceable and repairable item. The Maintenance Analysis shall include a maintenance task file documented in the Contractors format, and will serve as source data for development of the Maintenance Allocation Chart (MAC), Provisioning Technical Documentation (PTD), TMs and Army Manpower and Requirements Criteria (MARC). The Maintenance Analysis shall be documented in end item hardware breakdown sequence (top-down breakdown), using LSA Control Numbers (LCNs).

C.6.4.3.1.1 The Maintenance Analysis Summary shall be prepared and delivered in accordance with CDRL A111 (Maintenance Analysis).

C.6.4.3.1.2 The Level of Repair Analysis (LORA) will be prepared and delivered in accordance with CDRL A032. The Contractor shall update the LORA required under the Work Directive and provide it for Government review if requested.

C.6.4.3.2 National Maintenance Work Requirement (NMWR) Candidates: The NMWR candidate list shall be product of the LMI Data identified

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in the WD. All components coded for repair at the sustainment level of maintenance with a unit price in excess of \$1000 will be a NMWR candidate. The Contractor shall annotate these components on the LMI Data identified in the WD and provide them as a separate list at each LMI review. The Government will review and approve the final list of NMWR candidates at the final LMI review.

C.6.4.3.3 NMWR Level of Repair Analysis: The Contractor shall perform supportability analysis called a NMWR Level of Repair Analysis for each component on the Government approved NMWR candidate list. The LMI summary shall be in the Contractors format, and shall be delivered in accordance with CDRL A112 (NMWR LORA). The Contractor shall also indicate for each MMWR candidate whether the item is currently available as a remanufactured, rebuilt or otherwise refurbished component. The NMWR Level of Repair Analysis shall be delivered in accordance with CDRL A032 (NMWR LORA).

C.6.5 Support Equipment LMI: The LMI for major items of support equipment such as the test sets (Simplified Test Equipment Family of Vehicles (MRAP), and DSESTS shall be conducted separately from the MRAP Vehicle LMI.

C.6.5.1 Special Equipment, Tools, and Test Equipment (STTE): The Contractor shall deliver a list of Special Equipment, Tools, and Test Equipment utilized to maintain the MRAP. The source data for this list will be the LMI data identified in the WD. The list shall be in tabular form and shall identify all special tools and Test, Measurement, and Diagnostic Equipment (TMDE) contained in, and not contained in the authorized U.S. Army Supply Catalogs. Maximum use of common tools, support equipment, and TMDE normally organic to the user is required. If a required item is not contained in the SCs then the Contractor shall provide the proposed alternative item to the Government. The Government will decide whether or not the Contractor proposed alternative item will serve as a suitable and effective replacement for the item in question. The list shall provide Nomenclature, Cage Code (CAGEC), National Stock Number (NSN), if assigned, P/N, level of maintenance, and price of each item on the list submitted IAW CDRL A035.

C.6.5.2 Test, Measurement, and Diagnostic Equipment (TMDE): New TMDE items (those not identified in U.S. Army Supply Catalogs) may require special source and calibration documentation in order to update/provide data for possible inclusion to the TMDE register (DA PAM 700-21-1). The Contractor shall provide all required data for all new TMDE.

C.6.6 Maintenance Allocation Chart (MAC)

C.6.6.1 The Contractor shall maintain a MAC and develop changes as required resulting from the LMI. The MAC shall be a product of the LMI data. Changes to the MACs shall be provided to the Government for concurrence IAW Paragraph C.6.4.3.1.1. Changes shall be incorporated as directed by the Government.

C.6.6.2 The Contractor shall not degrade the current MRAP maintenance plans documented by the MAC to include all changes thereafter, which will be provided as GFI. Additional maintenance planning necessitated from design changes, to include updates and modifications shall be based on the maintenance structure.

C.6.6.3 The Contractor shall update the current MRAP MAC, as required, to include all maintenance levels. The MAC shall be updated IAW CDRL A111 and MIL-STD-40051.

C.6.6.4 The Contractor shall update MRAP FOV Preventive Maintenance Checks and Services (PMCS) for operator, crew and unit maintenance and shall use MIL-STD-40051 as a guide. As changes to design are made, the Contractor shall analyze the reliability characteristics of the design to determine impact on scheduled maintenance and determine if scheduled maintenance will be effective in maintaining system reliability. The applicability will depend on the failure characteristics of an item and the consequences for each failure.

C.6.7 LMI Reviews: The Contractor shall facilitate a joint Government-Contractor maintenance review at the Contractors (or logistics Sub-Contractors) facility to review the maintenance planning and analysis results. Maintenance reviews shall be held as required. The Contractor shall provide participation by Logistics Managers to serve on the maintenance review team. The Contractor shall prepare conference minutes in a government-contractor agreed format for each review.

C.6.8 LMI Program Planning: The contractor shall prepare an update to the existing ISP. The ISP shall be updated to reflect changes emanating from program changes, reviews, reorganizations, and other actions affecting program logistics at the direction of the Government IAW CDRL A029.

C.6.9 LMI Plan:

C.6.9.1 Reserved

C.6.9.2 The Contractor shall consider the impact of any subcontractor or vendor changes or updates on MRAP components as part of the effort.

C.6.9.3 The Contractor shall estimate and advise the Government of the necessary quantities of dedicated hardware end items (i.e., GFP vehicles), components, repair parts, consumable supplies, tools and support equipment) to accomplish all ILS development, reviews, validations and verifications.

C.6.10 Reserved

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C.6.11 Performance Based Logistics Support Services

C.6.11.1 The contractor shall provide support for Performance Based Logistics (PBL). These efforts may include support of a performance based logistics IPTs, execution of performance based agreements, the development of PBL metrics and any additional management tools needed to support these activities.

C.6.12 Reserved

C.6.13 Depot Logistics Engineering Support Services

C.6.13.1 Depot Support Data: Essential data required for depot support activities shall be submitted IAW the WD. Examples are: (1) production salvage/rework procedures covered by waivers and deviations; (2) Specifications/details of Government-Owned Contractor Procured Production Equipment, and (3) Test/Inspection Data and Reports of Government funded tests.

C.6.13.2 Reclamation Procedures: As authorized by WD, the contractor shall assist in the identification of high dollar items in which development of reclamation procedures is considered necessary/feasible. Contractor shall provide detailed specific criteria as required in development of these procedures. Testing/verification of these procedures will be performed as necessary to ensure the validity/minimum specification requirements. Hardware for testing/verification may be provided to the Contractor as GFP.

C.6.13.3 Wear Limit Development: The contractor shall develop limits as required on those items in which like new specification requirements are identified as being stringent and relaxation of those limits shall not be restricted to the development/generation of wear specifications. Testing/validation shall be conducted on all items in which form, fit, and function is critical/controlled. Under this section of the work scope, the Contractor when tasked by WD will determine data availability, determine format/content as necessary for the purpose required and analyze, reformat and deliver the data in support of the depot logistics engineering program.

C.6.13.4 Reliability Centered Maintenance (RCM): The contractor shall provide technical assistance in the application of RCM concepts to the MRAP Depot Support Program. As part of the depot RCM Program, the Contractor shall assist in the following tasks:

C.6.13.4.1 Evaluation of component data

C.6.13.4.2 Evaluation of EIRs and DA 2028s

C.6.13.4.3 Use of Army Oil Analysis Program (AQAP) data

C.6.13.4.4 Development of Combat Vehicle Overhaul Criteria (CVOC) for the MRAP and major MRAP components

C.6.13.4.5 Conducting Level of Repair Analysis (LORA)/Economic Evaluation CDRL A032

C.6.13.4.6 Development of depot work around and alternative methods for interim and/or minor repair/maintenance program

C.6.13.5 All requests for Depot Logistics Engineering Support Services affecting the MRAP FOV Vehicle or Mission and Support Equipment and reporting activities as specified in this SOW shall follow the format, data elements and frequency of delivery identified in the WD.

C.6.14 Logistics Supply and Management Support

C.6.14.1 Reserved

C.6.14.2 Logistics Management Support

C.6.14.2.1 The Contractor shall develop and maintain a Materials Requirements List (MRL). The Book shall be delivered to the Government as directed by a WD for each fielding that will identify each Gaining Units requirements for the following categories of material:

C.6.14.2.1.1 Repairable Items List CDRL A030

C.6.14.2.1.2 Primary System and associated Basic Issue Items (BII) CDRL A033

C.6.14.2.1.3 Associated Support Items of Equipment (ASIOE)

C.6.14.2.1.4 Components of the End Item (COEI)

C.6.14.2.1.5 Battle Damage Repair List CDRL A034.

C.6.14.2.1.6 Special Tools and Test Equipment (STTE) CDRL A035

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C.6.14.2.1.7 Common Bulk Items List CDRL A036

C.6.14.2.1.8 Prescribed Load List (PLL) CDRL A037

C.6.14.2.1.9 Authorized Stock age List (ASL) CDRL A038

C.6.14.2.1.10 De-processing List CDRL A039

C.6.14.2.1.11 Technical Manuals and Publications

C.6.14.2.1.12 Special Mission Kits and Outfits

C.6.14.2.1.13 Test Measurement and Diagnostic Equipment (TMDE)

C.6.14.2.1.14 Material Handling Equipment

C.6.14.2.2 The Contractor shall prepare a draft MRL Book using the Mission Support Plan (MSP) provided by the COR, and/or Designated Representative. This MRL Book will be coordinated with the unit prior to de-processing and handoff of the vehicles.

C.6.14.2.3 Using information resulting from the MRL Book coordination meeting, the Contractor shall update the draft MRL Book and provide PM MRAP with a final draft MRL book IAW established schedules.

C.6.14.2.4 The Contractor shall update the final draft MRL Book after approval by the COR, and/or Designated Representative. The COR, and/or Designated Representative will provide funding source and direct Contractor Total Package Fielding requisitions (DI-MGMT-80503).

C.6.15 De-processing and Fielding: The Contractor shall operate a de-processing/hand-off at each post, installation, or central staging site designated to support a PM fielding.

C.6.16 Reserved

C.6.17 Reserved

C.6.18 Reserved

C.6.19 ILS Automated Data Processing (ADP) Systems Development and Deployment Support: The contractor shall provide the Government technical and engineering assistance for the Government deployment of new IT and data management computer systems.

C.6.20 Reserved

C.6.20.1 During the performance of this Contract, the Contractors staff shall be required to work with other Government Contractors and their subcontractors. These Contractors and their subcontractors have been hired to provide the JPO with a centric operational view of all theater logistics efforts associated with the MRAP program. This includes oversight and management of the individual efforts of the multiple Contractors during all activities associated with fielding, training, and sustainment operation.

C.6.20.2 The Contractor may be required to coordinate or work with the Governments Joint Logistics Integrator (JLI) Contractor. As such they may be placed at various locations, including Contractor locations to coordinate activities across the various end users (Air Force, Army, Marine Corps, Navy and SOCOM) or across Contractors.

C.7 Provisioning

C.7.1 Provisioning Guidance Conference

The Contractor shall host the Provisioning Guidance Conference (PGC) within 45 days after delivery order issue and furnish provisioning data as one product of the PGC at a mutually agreed upon interval prior to the provisioning conference(s). The Government will clarify any provisioning issues during the evolution of the data review process. The Contractor shall report all Conference Agenda and Conference Minutes using DI-ADMIN-81249A as a guide for the reporting requirements.

C.7.2 Provisioning Conference

The Contractor shall host a Provisioning Conference(s) following the Provisioning Guidance Conference at the location specified by the Government. The focus of the conference is to drill down the top level assembly to determine which level of maintenance for the Line Replaceable Unit (LRU) or maintenance tasks can be completed where and by whom. To that end the Contractor shall provide and disassemble production equipment as directed by the Government to validate and verify all provisioning documentation. The Contractor

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shall report all Conference Agenda and Conference Minutes using DI-ADMIN-81249A as a guide for the reporting requirements.

C.7.3 Provisioning Plan

The Contractor shall establish, manage, and execute a Provisioning Plan provided and approved by the Government. AMC-P 700-25, GEIA-STD-0007 and MILHDBK-502 may be used for additional guidance. The LMI shall be the basis for the integration of the logistics support element, and provide the interface between the engineering and integrated logistics effort used in the systems engineering effort. The objectives of the LMI are to provide optimum material readiness, economical logistics support, and identify/evaluate resources required to develop and manage an effective support system. All design, modification/alteration, and engineering activity shall require LMI (DI-ALSS-81529) IAW CDRL A031.

C.7.4 Provisioning and Other Procurement Screening Data

The contractor shall identify provisioning and other procurement screening data to be submitted for Government screening. Provisioning and other procurement screening data are used to identify existing NSNs for an item, validate currency of an NSN, and aid in maximum use of known assets. The Contractor shall ensure that documentation includes drawing support for each "P" coded item (items requiring an NSN), unless accompanied by a copy of the procurement screening documentation (i.e., Army Master Data File (AMDF), Parts Master List, or Defense Logistics Information System (DLIS) which indicates that the item has a valid NSN already assigned. This requirement shall be met using GEIA-STD-0007 (DI-ALSS-81529).

C.7.5 Provisioning Technical Documentation

The Contractor shall provide, update and maintain Provisioning Technical Documentation: Provisioning Parts List (PPL), Long Lead Time Items List (LLTIL), Tools and Test Equipment List (TTEL), Common and Bulk Items List (CBIL), Repairable Items List (RIL), and any Design Change Notices (DCN) IAW CDRL A041.

C.7.6 Reserved

C.7.7 Tools and Test Equipment (TTEL)

The Contractor shall provide and update the TTEL, in Contractor format IAW CDRL A035. This list, in MS Excel format, shall identify all tools and test equipment required for maintenance and calibration associated with the vehicle. The list shall additionally identify those required tools included in the Army Standard Automotive Tool Sets and corresponding Marine Corps tools sets.

C.7.8 Common and Bulk Items List (CBIL)

The Common and Bulk Items List (CBIL) contains those items that are difficult or impractical to list on a top down/disassembly sequence PPL, but for which provisioning is essential to support the operation of the end item/equipment. These items are subject to wear or failure, or otherwise required for maintenance, including planned maintenance of the end item/equipment. The Contractor shall indicate the material type, grade, class, etc. The Contractor shall submit sufficient information to enable the Government to relate the material/specification number to the pertinent item IAW CDRL A036.

C.7.9 Provisioning Parts List (PPL)

Provisioning Parts List will be delivered IAW CDRL A041. The Contractor shall provision all items in the MRAP Vehicles. The PPL shall contain the end item, component or assembly and all support items which can be disassembled, reassembled, or replaced and which, when combined, constitute the end item, component or assembly and shall include items such as parts, materials, connecting cabling, piping, and fittings required for the operation and maintenance of the end item, component, or assembly. The PPL includes all repairable Commercial Off-The-Shelf (COTS) items unless excluded by the provisioning requirements. The PPL shall include items such as parts, material and connecting cabling required for the operations and maintenance of the end item/equipment. Separate PCCNs shall be provided for systems/items listed below. The PPL shall be structured in a Top-Down Breakdown Disassembly sequence. Indenture Codes are in Alpha Character format. The Provisioning Line Item Sequence Number(s) PLISN range of a PPL will be designated by the Government. The Contractor shall submit a separate PPL for each Category of the MRAP vehicle they are providing the Government.

C.7.10 Repairable Items List (RIL)

The Contractor shall provide and update the RIL, in Contractor format IAW CDRL A030. This list shall be in MS Excel format and shall identify items to the component level with procurement lead times of more than 90 days.

C.7.11 Engineering Data for Provisioning (EDFP)

Engineering Data for Provisioning (EDFP) is technical data used to describe parts/equipment and consists of data such as specifications, standards, drawings, photographs, sketches and descriptions, and necessary assembly and general arrangement drawings, schematic drawings, schematic diagrams, wiring and cable diagrams necessary to indicate the physical characteristics, location, and/or function of the item. The Contractor shall provide drawings as required using guidance from DI-ILSS- 81289 IAW CDRL A040. Assembly drawings shall

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be delivered in accordance with DI-LSS-81289 for Government review to show full traceability of parts and quantities within that system/subsystem. The Contractor shall submit data on all parts to be provisioned that do not currently have a valid (Non-terminal coded) fully described NSN. EDFP consists of data needed to indicate the physical characteristics, location and function of the item (Form, Fit and Function). All approved vendors Commercial And Government Entity (CAGE) codes are to be cited by the Contractor (typed, stamped, or in legible writing and authorized signature and date) on drawings when furnished concurrently with each submitted increment of provisioning documentation for each P coded item.

C.8 Support for Government Property (GFP)

C.8.1

The Contractor shall provide on-site maintenance support and technical services as required by the Work Directive (WD) to restore to operable condition Government PM-owned assets prior to, during and/or subsequent to transportation to new destination. A Work Directive (WD) will define the condition vehicles are to be repaired to and maintained at IAW the -10/20 manuals under quarterly PMCS columns.

C.8.2 Reserved

C.8.3 Common Parts and Tool Support at Contractors Facilities

C.8.3.1 Common items with a made unit cost of less than \$500 shall be obtained through the Contractors procurement system. Items exceeding the \$500 threshold shall be requested via WDs from PM MRAP, Logistics IPT, who will verify the requirement and initiate a requisition if the item is available in the Government supply system. If the item is not available in the Government supply system, the Contractor shall procure the item upon notification of no availability to the PM MRAP Logistics IPT. The Contractor shall ship via commercial means and pay transportation costs, which will be reimbursable under the Contract. DI-MGMT-80259 is to be used as guidance.

C.8.4 Common Parts and Tool Support at Government Facilities

C.8.4.1 Common items will be requisitioned by Government facility personnel. If the parts and tools requirement cannot be met in this manner, the Contractor shall acquire the items in the manner as needed to support the need requirement.

C.8.4.2 The Contractor shall maintain GFP vehicles and items in their possession; perform necessary repairs and maintenance to keep items in a serviceable condition suitable for intended efforts under this contract; and return vehicles to TM-10/-20 standards IAW DI-MGMT-80440, DI-MGMT-80277, and DI-MGMT-80269,.

C.8.4.3 All request for Support for Government Furnished Vehicles and reporting efforts affecting for the MRAP FOV Vehicle or Mission and Support Equipment and reporting activities as specified in this SOW shall follow the format, data elements and frequency of deliver using DI-MGMT-80377 as guidance.

C.9. Packaging, Handling, Storage and Transportation (PHS&T)

C.9.1 Packaging Data Development: The Contractor shall develop and provide packaging data for all items identified during the provisioning process with a Source, Maintenance & Recoverability (SMR) code beginning with P. Packaging data development priority shall be given to repairable items, Line Replaceable Units, NMWR/DMWR candidate items, and any large, high cost item classified as a Special Group Item. Packaging shall be developed in IAW MIL-STD-2073-1D and all items shall be classified as a selective group item or special group item. Contractor shall provide facilities, equipment, materials, and access to the provisioned items for packaging development. The Contractor shall complete verification and provide support data with each data submittal. Validation support data shall include item drawings and copies of any applicable Material Safety Data Sheets for Hazardous Material items. Items with assigned Contractor and Government Entity (CAGE) Codes of: 1T416, 21450, 80204, 96906, 10060, 24617, 80205, 99237, 80244, 81343, 81346, 81348, 81349, 81352, 88044, 05047 are excluded from packaging data development.

C.9.1.1 Selective group: Items classified as Selective group shall not have a unit pack weight exceeding 40 pounds and shall not have a dimension greater than 40 inches. In addition, the unit pack length and girth combined will not exceed 84 inches. A Select group item must not require disassembly for packaging. Reconfiguration for packaging of Select items is limited to folding or coiling. Items will not be classified as Select if they are repairable, recoverable, contain hazardous material, or if assigned a shelf life.

C.9.1.2 Special group: Special group items often require sketches, figures, or narrative instructions to describe packaging requirements. Items excluded from the Selective group will be classified as Special group items. This includes kits, sets and items of separate parts, items requiring disassembly, repairable items, items requiring special handling or condemnation procedures, items classified as hazardous material or hazardous goods in transport, items assigned a shelf life, electrostatic discharge sensitive items, fragile, sensitive, and critical items.

C.9.1.3 Logistic Management Information (LMI) Data Products - Packaging: The contractor shall make LMI packaging data and provide for

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the entry of information to the Governments data repository. At the contractors request, the Government may provide a MS ACCESS application that provides data formatting and edit features for coding of packaging LMI data products. The Contractor shall develop, maintain and update packaging data IAW MIL-STD-2073-1D and CDRL A057 including attachments.

C.9.1.4 Special Packaging Instructions (SPI): The Contractor shall develop a SPI for each item classified as a Special group item. Figures and narrative data shall be developed to describe the form, fit, and function of packaging in sufficient detail for production. SPI format shall be IAW MIL-STD-2073-1D and CDRL A045.

C.9.1.4.1 Validation Testing of Packaging: Validation testing of Special group items shall be IAW ASTM D 4169 (Standard Practice for Performance Testing of Shipping Containers and Systems) Distribution Cycle 18, Assurance Level I, with Acceptance Criterion 3 (product is damage free and packaging is intact). Validation testing may be limited to Test Schedule A and Test Schedule F. Replicate testing and climatic conditioning are not required. Each SPI submitted shall have a validation report including photographs. Photographs shall show the product is undamaged. Validation report shall be submitted concurrently with SPI submittal and IAW CDRL A044.

C.9.1.5 Equipment Preservation Data Sheets (EPDS): Contractor shall develop Equipment Preservation Data Sheets (EPDS) for each vehicle variant. Contractor shall include requirements for disassembly procedures to meet clearance requirements for land, air, and sea shipments. Procedures shall ensure an option for drive-on/drive-off capability. Packaging requirements for BII and COEI shall be developed by the Contractor. BII shall be packed separate from COEI. HAZMAT (if applicable) will be packaged and shipped separately IAW CFR Title 49. Contractor shall ensure the stowage locations shall deter pilferage and shall not interfere with lifting, tie down or other transportation handling. The Contractor shall revise the EPDS to reflect design changes that affect the system's shipment configuration, weight, or transportability. The Contractor shall also provide revisions to the EPDS for each provisioning change affecting packaging of BII or COEI. Format of EPDS shall be IAW MIL-STD-3003 and CDRL A058.

C.9.1.5.1 Validation of EPDS: The Government will determine if all or selected portions of the Equipment Preservation Data procedures shall be validated to determine the adequacy of the vehicle preservation procedures. Primary considerations will be given to the complexity and/or uniqueness of the process and/or materials involved. Government representative may attend and witness Contractors validation. Validation report shall be IAW CDRL A044.

C.9.1.6 Reusable Containers

C.9.1.6.1 Container Design Retrieval System (CDRS): This is a management system program to provide a DoD centralized automated data base system for storing, retrieving, and analyzing existing container designs and test information concerning specialized containers. The contractor shall use this system when making search requests for DoD Long Life Reusable Container LLRC) designs.

C.9.1.6.2 Reusable Container Searches: The contractor shall identify engines, transmissions and other major repairable items, including LRUs, and items requiring special handling or condemnation procedures as possible LLRC candidates. The contractor shall make a CDRS search request for any item that TACOM approves as a LLRC candidate. The contractor shall search for new or existing commercially available reusable container designs that are suitable for LLRC candidates. Format of CDRS search request shall be IAW CDRL A059.

C.9.1.6.3 Reusable Container Assessment: The contractor shall perform assessments to determine if existing container designs are suitable. The contractor shall assess the fit and function of existing containers and compare costs of modifications with the cost of new designs. Assessment data shall include analysis of the need for a new or modified LLRC. Assessment data shall compare costs for conventional packaging and LLRC packaging.

C.9.1.6.4 Reusable Container Proposal: The contractor shall propose reusable container development for TACOM approved LLRC candidates. Each proposal shall include assessment data, cost of development, design, LLRC prototype manufacture, validation, and completion of the TDP for competitive procurement. Container proposals, testing/validation, and TDP development shall be IAW CDRL A060.

C.9.1.6.5 Development and Validation: Upon approval of a LLRC design proposal or container modification proposal, the contractor shall build a prototype and validate the design. A Government representative will witness validation. Validation report and technical data shall be IAW the approved design proposal and CDRL A044.

C.10 Technical Manuals and Publications

C.10.1 Military Standard Publications (Technical Manuals (TM), Depot Maintenance Work Requirement (DMWR), National Maintenance Work Requirements (NMWR), Modification Work Orders (MWO) as ETMs and/or IETMs), Commercial Off-The-Shelf (COTS) Manuals and New Development, Revisions, and changes.

C.10.1.1 The Contractor shall develop new and update existing COTS Manuals and Military Standard Technical Manuals to incorporate all changes, corrections, modifications and variant specific data. Revisions will be delivered IAW CDRL A046 and Attachment 0028-Publications in this SOW.

C.10.1.2 The Contractor shall develop Interactive Electronic Technical Manuals (IETM). The IETM shall be developed IAW AR 25-30, Attachment 0028-Publications of this SOW, CDRL A113 (IETM), and the approved TABLE A-XVII Functionality Matrix, MIL-STD-40051-1.

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C.10.2 Manual Development

C.10.2.1 Contractor shall develop all publications IAW Provisioning plans and LMI data in this contract. Contractor shall be responsible for incorporating all Government approved DA 2028s, Maintenance Advisory Messages (MAM), Maintenance Information Messages (MIM), Safety of Use Messages (SOUM), approved ECPs and Modification Work Orders (MWO) to all equipment technical manuals (ETMs and IETMs). A publication history file shall be maintained by the Contractor for the period of this contract. This file shall contain a record of all changes to each publication as a result of Government-approved DA Form 2028s, ECPs, MAMs, MIMs, SOUMs and MWOs. New Development, Changes and Revisions shall be IAW MIL-STD-40051-1/2, AR 25-30 and Attachment 0028-Publications.

C.10.2.1.1 Modification Work Order (MWO): The Contractor IAW MIL-PRF-63002K, AR 750-10, and CDRL A046 shall support the management, development and application of MWOs to include all reporting requirements.

C.10.2.2 The Contractor shall be responsible for the quality of the equipment publications deliverables. All delivered TM information shall be complete, technically accurate, and adequate for use by US Service members. Contractor shall develop and use a quality assurance operation in accordance with ISO 9000:2008. This operation shall include a quality assurance plan, periodic QA reviews by persons different than those preparing the TMs, maintenance of QA records, TM development process improvement, and data controls to ensure that current, accurate engineering and parts information is available to TM preparers. Government representatives have the right to review and comment on the Contractors QA plan, records, and processes.

C.10.3 The Contractor shall perform 100% publications validation for ETMs and IETMs. The Contractor shall support Government publications verification for ETMs and IETMs as specified Attachment 0028-Publications.

C.10.3.1 The contractor shall support all Publication In Progress Reviews (IPR) and Publication Start of Work Meetings (SOW).

C.10.3.2 All Technical Publication Deliverables shall be IAW CDRL A046, CDRL A113 (IETM), Attachment 0028-Publications.

C.10.3.3 Military Standard Technical Manual data shall be prepared and delivered digitally in accordance Attachment 0028-Publications, and MIL-STD-40051-1/2 in Extensible Markup Language (XML), tagged using the Document Type Definitions (DTDs) and XML Style sheet Language (XSL), or style sheets in accordance with MIL-STD-2361 and as approved by the Government.

C.10.3.4

PUBLICATION VERIFICATION:

The Contractor shall support the Government equipment publications verifications IAW CDRL A130 (MIL-STD-40051-2), the AMC-P 25-31 Verification Plan and IAW AR 25-30. The Government will perform 100% verification on all equipment publications to ensure that they are accurate, adequate for use, and error free. The Government will perform an assessment (including physical disassembly) of items and assemblies to ensure technical accuracy and adequacy of all equipment publication deliverables.

A draft PTM shall be used for verification, after the Government has deemed it suitable. The Contractor shall provide the verification draft PTM no less than 14 business days prior to the scheduled verification.

The Contractor shall develop a sequenced schedule of verification tasks by work package, including recommended method of verification (e.g., hands-on, visual inspection, simulation, desktop). The schedule shall be delivered 30 business days prior to the scheduled verification.

The Contractor shall support the Government verification by correcting and returning all tasks marked "No Go" within 24 hours for re-verification unless major task rewrite is requested. The contractor shall also provide personnel (technical and publications experts) who know the development of the equipment publication and can answer questions about the equipment operation and maintenance to support this effort.

C.10.3.5

PUBLICATIONS VALIDATION:

The Contractor shall validate the technical accuracy and adequacy of all equipment publications and provide a certification attesting to this IAW CDRL A127 (DI-TMSS-81819A) and DFARS 252.246-7001 for each PTM1 delivered to the Government.

The Contractor's validation shall be hands-on performance, desk-top review, or a combination of these methods to ensure that the draft equipment publications are fully operational so that the Government can evaluate their operation, navigation, and structure.

The Contractor shall maintain records of validation reviews that show when the material was validated, what method was used, what the findings were, and all corrective actions taken. Government representatives have the right to examine these records upon request and to witness validation work. The Contractor shall give the Government at least 7 business days notice of the time and place of their

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validation so the Government may attend.

The Contractor shall develop and utilize a validation plan for validating the equipment publication procedures. The validation plan shall specify all procedures to be validated as well as when and where the validation will occur. If the Government determines that the Contractor's validation plan will not ensure technical accuracy and adequacy of all equipment publications deliverables, the Contractor shall be required to change the plan until it can ensure that validation efforts result in an acceptable level of quality assurance. The contractor shall submit the validation plan within 21 business days after the project specific Publications Start of Work meeting, and the plan shall be updated accordingly for each Publications IPR as required IAW CDRL A127 (DI-TMSS-81818), A133 and Attachment 81: General Publications Requirements.

C.10.4 Publication Copyrights

C.10.4.1 All publications developed under this contract become the property of the Government and are not subject to copyright by the Contractor. When the Contractor uses commercial data which covers a subcontractor's components or portions thereof, and the Contractor's data contains copyright material, the Contractor shall be responsible for obtaining a copyright release from the Contractor and furnishing such release to the Government. The Contractor shall provide a copyright release letter. The letter shall be on company letterhead, dated and signed by a company officer. The letter shall certify that the Government has full copyrights from Contractor and subcontractors. Copyright letters shall state all TMs developed are free from copyright restrictions and the Government can edit, reprint and distribute information in the manual as required.

C.11 Quality Engineering and Quality Assurance Support Services

C.11.1 The Contractor shall implement and adhere to a quality assurance system acceptable to the Government (i.e., QS, ISO 9000, or any other industry-recognized and accepted quality model). The Contractor's quality system shall ensure product quality throughout all contract requirements, to include management, design, fabrication, testing, processing, shipping, storage, site installation, Failure Reporting Analysis and Corrective Action System (FRACAS) etc. The Government reserves the right to perform all required audits and surveillance inspections to assure Contractor compliance with contract requirements. Individual Plant floor level reviews of the prime Contractor and sub-Contractors of the prime Contractor may be requested by the Government.

C.11.2 The Contractor shall utilize a Government specific Quality Management System ISO9001 or equivalent and quality system for inspection, validation, control and inspection results of engineering drawings and Quality Assurance Technical Documentation (QATD) changes. This system shall also provide a means for incorporating data received from Test Incident Reports (TIRs), Quality Deficiency Reports (QDRs) and Field Reported Deficiencies. The Contractor shall ensure that all drawings and documentation submitted within the TDP Package (TDP) on major and secondary items are coordinated with all cognizant department elements within their organization and are adequate for the manufacture and acceptance of quality material and for competitive procurement. The Contractor shall ensure that data resulting from engineering efforts and any deficiency reports which may affect the adequacy and accuracy of the QATD being developed and maintained under the contract, are coordinated with its product assurance office and included in all engineering drawing packages and QATD packages submitted for Government review.

C.11.3 The Contractor shall develop and maintain the QATD at their facility until completion of contract, copies will be available for Government review upon request.

C.11.4 Quality Engineering

C.11.4.1 Reserved

C.11.4.2 The Contractor is wholly responsible for the performance of all subcontractors under their control the same or, in the opinion of the Government, equal to the quality system in C.11.1. All subcontractors utilized for parts procurement or services shall be periodically evaluated and verified to assure the material/services comply with design and quality requirements not less than semi-annually and the records of such actions shall be made available to the Government upon request.

C.11.4.3 The contractor shall assist the Government in the development of a single standardized and planned FOV inspection criteria that is a coordinated approach for each type of vehicle inspection performed at the production facility, Contractor or Government provided retro fit location, de-processing, shipping and receiving transition points.

C.11.4.4 Studies shall be undertaken to assure that the resulting recommended inspection controls are processed as part of any proposed (ECP/RFW/RFD).

C.11.4.5 The Contractor shall ensure that all sketches, contract part drawings 3D CAD models and ordnance type drawings are provided IAW prescribed specifications and standards and contain sufficient dimensional, construction or weld, functional, protective finish and material deterioration prevention requirements with which to determine the acceptability of hardware manufactured against such drawings.

C.11.4.6 The contractor shall conduct a technical review of each product engineering change action taken as a result of any Test Incident Report (TIR) or incident report made necessary as a result of Contractor and Government testing and incorporate all such

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necessary changes into the existing QATD.

C.11.4.7 Reserved

C.11.4.8 The contractor shall develop, maintain and develop and provide to the Government upon request all calculations, layouts, sketches, schematics, charts, design drawings, CAD models, and other visual depictions and the master list of inspection equipment drawings and shall maintain CM control of this information so the Government can insure that the latest and most up to date inspection devices are being used IAW ECP.

C.11.4.9 The contractor shall prepare and provide to the Government all draft and final instruction pamphlets and manuals required for the operation, maintenance, and calibration of the inspection equipment designed and for CM control IAW CDRL A014.

C.11.4.10 Reserved

C.11.4.11 The contractor shall support and development of Final Inspection Records (FIRs). FIRs shall set forth the minimum inspection characteristics deemed necessary to assure conformance to end item specifications and drawings. The FIRs shall be updated and developed using, DI-QCIC-81068 as guidance to reflect all approved configuration changes IAW CDRL A048.

C.11.4.12 The contractor shall prepare and provide all industrial and field modifications the Item Modification Inspection Requirements to include the in-process and final acceptance inspection requirements necessary for installing industrial and field modifications.

C.11.4.13 Reserved

C.11.4.14 The contractor shall prepare the Quality Assurance checks for National Maintenance Work Requirements (NMWRs) and Depot Maintenance Work Requirements (DMWRs if required) and reconditioning standards. TACOM Pamphlet DRSTA-P-702-152 and MIL-STD-400051.2 may be used as a guide. Incorporate all inspection and tests, to be performed at the place of reconditioning during the reconditioning of item(s) that are necessary to ensure that the reconditioned item meet the quality requirements of the applicable specifications and standards with guidance from DI-FNCL-80462.

C.11.4.15 The contractor shall prepare, maintain, and deliver Quality Assurance Inspection Equipment (QAIE) design, instructions, and software. TACOM Pamphlet DRSTA-RP-702-120 and Sample Drawing 78952223 may be used as a guide.

C.11.4.16 The Contractor shall perform tests and inspections to validate changes and modifications. Such test will be those necessary to evaluate the QARs for the MRAP FOV Systems. Results of all tests and inspections shall be provided to the Government for review.

C.11.4.17 The contractor shall conduct a technical review of each product engineering change action taken as a result of any Test Incident Report (TIR) made necessary by Contractor and Government testing, Product Quality Deficiency Report (IAW CDRL A047)/Quality Deficiency Report (PQDR/QDR), System Safety Risk Assessment (SSRA), SAR and incorporate all such necessary changes into the then existing Quality Assurance Technical Documentation (QATD).

C.11.4.18 When QAPs or similar separate documents are already available, the contractor shall make recommendation to the Government whether the SQAP or QAR should be updated to a QAP or deleted as no longer valid or required shall be made during ECP actions. QAPS shall be updated (only) as necessary for all applicable items, components or assemblies affected. Updating of QAPs shall be based on the recommendations of the Quality Engineering review all considerations necessary to achieve a cost-effective, quality product: limit the use of specialized test and inspection equipment to only when necessary, define test setups and test equipment only when necessary, limit use of Inspection Method Control Sheets (IMCS) to only when necessary. Deleted documents shall be maintained in a backup file for reference data. The Contractor may use DRSTA-RP-702-155, titled "Preparation and Maintenance of Quality Assurance Provisions (QAPs)" (to be provided as GFI) as a guide when updating and developing QAPs. This data shall be provided on the government specified database repository to fidelity, format and delivery frequency agreed by the contractor and the Government.

C.11.4.19 Reserved

C.11.4.20 The Contractor shall prepare the quality assurance portion of overhaul or rebuild standards for the MRAP in both draft and final form in a mutually agreeable form/format for subsequent use by the Government. This will include recommendations for all on-site inspection and tests to be performed during overhaul or rebuild of the contract item to insure that the item fulfills the quality requirements of applicable specifications and standards. This data shall be provided on the Government specified database repository to a fidelity, format and delivery frequency agreed by the contractor and the Government.

C.11.4.21 The contractor shall develop, prepare, revise/update, and maintain military and commercial specifications, test procedures/processes, and similar documentation using MIL-STD-961; MIL-STD-962; the Federal Specifications Guide; as guidance.

C.11.5 The contractor shall perform QE support to MRAP production for the resolution of manufacturing/vendor problems, interpretation of QATD, perform analysis of inspection requirements to improve vehicle quality and prepare the necessary engineering changes to correct/improve the TDP Quality Documentation.

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C.11.6 Software Quality Assurance

C.11.6.1 The contractor shall maintain a Software Quality Assurance Program (SQAP) to meet, as a minimum, the requirements of IEEE/EIA 12207 for software developed under this Contract. The Contractors Organizational Divisional Procedures (ODP) or equivalent requiring tailoring to meet the needs of a particular software development effort will be submitted to the Government prior to the start of that specific software development effort.

C.11.6.2 The Contractor shall have a design for reliability process of selecting a part or material and applying it in such a manner that results in high reliability under the worst case actual use conditions. Such an effort requires a structured approach during the part selection and design process. This process shall include:

C.11.6.2.1 Definition of operating environments

C.11.6.2.2 Establishment of lifetime requirements

C.11.6.2.3 Use of reliability models to estimate lifetime under use conditions

C.11.6.2.4 Estimates of reliability during the useful life

C.11.6.2.5 Stress derating

C.11.6.2.6 Analysis and design modifications will be performed as requested by the Government to ensure robustness. These analysis and design modifications may include derating, failure mode and effects analysis (FMEA) (with or without criticality analysis), fault tree analysis (FTA,) and finite element analysis (FEA).

C.11.7 Quality Problem Investigation

C.11.7.1 The contractor shall conduct investigations of quality problems originating from field activities, repair depots, and supplies of Mission and Support Equipment. This effort shall include the review of problem reports, evaluation of quality deficiencies, clarification of inspection requirements and similar functions. The Contractor shall develop appropriate documentation, solutions and ECPS/RFW/RFD.

C.11.8 Quality Records

C.11.8.1 The contractor shall prepare and maintain complete and up-to-date records of all Quality Engineering work performed or accomplished for the contract items(s) on this contract. These records shall be of such extent and detail as to allow the Government to determine the status and progress of all work being planned or accomplished. The Government shall have access to the Contractors working records as required for Government purposes.

C.12 Training and Training Support Services

C.12.0 Training and Training Support Services shall be provided as defined in MIL-PRF-5480G and DI-MGMT-80911.

C.12.1 The Contractor shall develop complete NET packages (IAW A052) and shall provide submissions to the NET Manager, JPO MRAP, per a schedule mutually agreed upon at the Start of Work (SOW) meeting.

There shall be two delta training courses the New Equipment Training (OPNET) and the Field Level Maintenance New Equipment Training (FLMNET) Course Delivered IAW CDRL A052. The Contractor shall deliver all documents and training materials in an editable commercial electronic format: Microsoft Word for documents and Microsoft PowerPoint for slide show presentations. Training materials shall not conflict with the content of the technical manuals.

Training materials shall be developed at the ninth grade reading and comprehension level. Format and content will be per TRADOC Regulation 350-70 and the systems approach to training (SAT). Training developers and quality assurance inspectors not familiar with SAT shall attend the U.S. Army's Systems Approach to Training Basic Course (SATBC) or an equivalent course prior to developing and reviewing the training packages.

The training courses shall consist of classroom discussions, demonstrations, practical application, and evaluation. Attaining the learning objectives takes priority over attaining a predetermined quantity of training hours. Attaining the learning objectives takes priority over attaining a predetermined ratio of hours between classroom discussion and practical application.

C.12.2

The Contractor shall provide a complete NET Package update consisting of Operator New Equipment Training (OPNET) for the MaxxPro M1266A1 LWB AMB with MSU IAW CDRL A051 (DI-ILSS-80872). The NET Package format shall be developed IAW TRADOC Regulation 350-70 and the

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Government approved Critical Task List (A132). The NET Package shall consist of a Program of Instruction (POI), Training Support Package (TSP), and a five day (40 hour) Operator including Instructor guides IAW TRADOC 350-70 and Student Guides in contractor format. A draft NET Package shall be provided by the Contractor to the NET Manager, JPO MRAP within 30 business days prior to NET Verification. The final NET Package shall be provided in an editable format to the Government within 15 business days after completion of Verification. The Government will review and approve the NET Package within 15 business days of receipt. If review and comments are not submitted to the contractor within 15 business days of receipt, then the CDRL shall default to an approved status. Any deficiencies in the NET Package that are found by the Government shall be corrected, by the Contractor within 10 business days of the Government's response.

INSTRUCTOR & KEY PERSONNEL TRAINING (I&KPT) PACKAGE:

The contractor shall develop I&KPT IAW CDRL A131 (Instructor and Key Personnel Training (I&KPT) Package and DI-ILSS-80872) for MaxxPro M1266A1 LWB AMB with MSU I&KPT shall consist of separate training for Operators. In addition, it shall include personnel from the formal schools, operating forces units and other Government nominees. A draft I&KPT package shall be provided by the contractor to the NET Manager, JPO MRAP within 30 business days prior to NET verification. The final I&KPT package shall be provided to the Government in an editable format within 15 business days after completion of verification. The Government will review and approve the I&KPT package within 15 business days of receipt. If the Government's response is not submitted to the contractor within 15 business days of receipt, then the CDRL shall default to an approved status. Any deficiencies in the I&KPT package that are found by the Government shall be corrected by the contractor within 15 business days of the Government's response.

C.13 Contractor Field Service Representatives (CFSRs) Support and Services

C.13.1 The contractor shall establish a CFSR Program. The Contractor shall provide all administrative support and site supervision for the MRAP CFSR Program. The Contractor shall provide all the necessary personnel, equipment, tools, materials, supervision and other items and services necessary to maintain and support all MRAP FOV and derivative vehicle operations. The Contractor shall provide Field Service Representatives (FSR) to provide technical repair and assistance as required and shall advise, make recommendations, to orient and instruct key Government personnel with respect to operations, maintenance, repair and parts supply for the vehicles furnished under this contract, CONUS and OCONUS. The FSRs shall be located at field sites as authorized to meet the requirements of the contract in a manner that is both economical and beneficial to the Government. The FSRs will be thoroughly experienced and qualified to advise and instruct Government personnel in the operation, maintenance, repair and parts supply of the equipment furnished under this contract. The Contractor will make available any and all information necessary to obtain a security clearance to the degree required by the installation or area in which services are to be performed. Government approval shall be limited to granting or denying security clearance for the person(s) named.

C.13.1.1 The Contractor shall provide FSRs as a liaison between Contractor/subcontractor, MRAP Operations, other Military Service organizations, U.S. Marine Corps, and FMS Customers.

C.13.1.2 The FSRs shall investigate and recommend the need for training. The FSRs shall recommend the need for Failure Analysis (FA) of specific items under other contract work scope.

C.13.1.3 The CFS support shall consist of on-site back-up engineering support and advice in the investigation and resolution of Armed Service support problems.

C.13.1.4 The FSRs work schedule shall coincide with that of associated Government personnel.

C.13.1.5 The Contractor shall also provide field support for de-processing, Stay Behind Maintenance and RESET programs.

C.13.1.6 Contractor shall prepare a Parts Usage and Maintenance Data Collection Report IAW A056.

C.13.1.7 Contractor shall submit a bi-weekly (twice a month) report on all CFS activities under this paragraph IAW CDRL A121.

C.13.1.8 Contractor shall submit a Vehicle Maintenance Service Report bi-weekly (twice a month) IAW CDRL A122.

C.13.2 Interim Contractor Logistics Support (ICLS) Forward Repair Activity (FRA). The ICLS FRA supported units will be configured to deploy using unit provided vehicles, shelters, transportation, and power-generating equipment for all Contractor operated equipment. The Contractor shall obtain a military equipment license for the equipment listed above, if necessary. All Contractor test equipment shall be capable of being operated in a forward deployed field location under combat conditions with DI-FNCL-80342 to be used as guidance.

C.13.3 Reserved

C.13.4 Additional Contract Field Services

C.13.4.1 The Contractor shall provide CFSRs to CONUS and OCONUS locations to support the fielding and sustainment of the MRAP FOV to Army, Reserve Components, U.S. Marine Corp and FMS Customers.

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C.13.4.2 The CFSR work schedule shall coincide with that of associated Government fielding personnel.

C.13.4.3 The Contractor shall provide liaison logistic assistance for the MRAP FOV and its derivatives to OCONUS and CONUS using unit personnel.

C.13.4.4 The FSRs shall perform vehicle retrofit upgrades and kit installation at various locations.

C.14 Deployment

C.14.1 Contractor personnel may be required to deploy in OCONUS areas of operation for fielding, exercises, MWO applications, etc. The Contractor acknowledges that such operations are inherently dangerous and accepts the risks associated with contract performance in this environment. Each military operation shall evolve differently depending upon mission. The Contractor shall ensure that all Contractor personnel understand and agree to comply with all operations.

C.14.1.1 Depending on the Status of Forces Agreement (SOFA) or other international agreements, all Contractor employees may be subject to the customs, processing procedures, laws agreements and duties of the country in which they are deploying to and the procedures, laws and duties of the United States upon re-entry. Contractor shall verify and comply with all requirements.

C.14.1.2 When required, the Contractor shall document their staffs technical expert status for performance in Germany. The Contractor shall coordinate with the German Labor Office prior to deployment to or traversing Germany.

C.14.2 Immigration and Customs

C.14.2.1 The Contractor is responsible and authorized for obtaining (i) all passports, visas, and other entry/exit documents necessary for Contractor personnel to transverse through and within the Area of Operation and (ii) the customs, immigration, or similar liabilities of its Contractor personnel.

C.14.2.2 Passports/Visas: The Contractor is responsible for obtaining a current passport for their personnel and visas, when required, for its employees. Contractor employees are required to carry a valid passport and LOA at all times when deployed and traveling overseas in support of military operations. Requirements for visas shall be determined by the country of deployment/travel and obtained from the appropriate embassy prior to deployment. The Government will provide assistance to the Contractor in obtaining visas to countries if requested by the Contractor and required to meet the contingency deployment schedule.

C.14.2.3 Customs and Entrance/Exit Processing: While entering and exiting a foreign country, Contractor employees shall be subject to the customs processing procedures, laws, agreements, and duties of the countries in which the contractor is deploying. Details for a Contractor employees deployment shall be fully explained during the deployment processing.

C.14.2.4 When returning, Contractor employees shall also be subject to U.S re-entry customs requirements in effect at the time of re-entry. The PCO will determine and stipulate if the payment for entry/exit duties on personal items in possession of Contractor employees per U.S. Customs Service rates and restrictions is allowable and allocable.

C.14.2.5 Upon arrival to the host country, the Contractor personnel may be required to obtain locally required identification cards. The Government representative who has cognizance for these Contractor personnel in theater will assist in the coordination of the issuance of these identification cards.

C.14.3 Contractor Support During Contingency Operations/Contractors Accompanying the Force

C.14.3.1 The Contractor shall provide all the necessary personnel, equipment, tools, materials, supervision, and other items and services necessary to maintain and support U.S. Army contingency operations. Each military operation will evolve differently depending upon mission and the combatant commanders guidance. The Contractor is obligated to request any specific information needed at the time of deployment from the Government.

C.14.4 Contractor Support during Contingency Operations Pre-Deployment

C.14.4.1 The Contractor shall enter before deployment, or if already in the designated operational area, enter upon becoming an employee under the contract, and maintain current data (including departure data) for all Contractor personnel that are authorized to accompany U.S. Armed Forces deployed outside the United States as specified in paragraph (b)(1) of Class Deviation SPOT tracker, DAR 2007-00004. The automated web-based system to use for this effort is the Synchronized Pre-Deployment and Operational Tracker (SPOT). For information on how to register and use SPOT, go to <https://spot.altess.army.mil>. The Government will provide POCs and training for personnel required to enter data into SPOT. The Contractor shall ensure that all employees in the database (SPOT) have a current DD Form 93, Record of Emergency Data Card, on file with their employer. In addition, individuals deploying to OEF will also require an Afghanistan validation Memo to authorize entry into OEF.

C.14.5 Preparation for Overseas Movement

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C.14.5.1 As part of the Preparation for Overseas Movement (POM) processing for Contractor employees, the Governments POM activities at the home station or the Deployment Center will screen Contractor personnel records, conduct theater specific briefing and training, issue theater/environmental specific clothing and individual equipment, verify that medical requirements (such as immunizations, DNA screening, HIV testing and dental examinations) for deployment have been met, and arrange for transportation to the theater of operation. While POM processing at the Deployment Center the Government will furnish lodging at the Deployment Center billeting area. Contractor personnel attending the CRC, with orders and their Common Access Card (CAC), will be provided meals at the mess hall free of charge. When Contractor personnel are training or processing and they miss the mess hall meal, they will be issued a Meal Ready to Eat (MRE) free of charge.

C.14.6 Overseas Contractor Requirements

C.14.6.1 Contractor personnel shall be available and prepared to support worldwide deployment IAW supported units deployment/readiness Standard Operating Procedure (SOP), and IAW DA Pamphlet 715-16, Contractor Deployment Guide in Theater of Operations. Contractor personnel shall be ready to deploy within 72 hours of notification by the PCO to the contractor, using military or civilian transportation by land, sea, or air after attending the deployment center. This includes completing and maintaining current the following forms and actions as a guide IAW Deployment Guide:

- Orders (Letter of Authorization, LOA)
- Passport/Visa/ID Card
- Shot Record (PHS 731)
- Physical Examination, good for 15 months from the date completed and signed by the doctor.
- Eye Prescription (if applicable)
- Emergency Data Sheet (DD 93)
- Medical/Dental (DA 4036R)
- CIF (Clothing Record)(PPE)
- Power of Attorney for financial and custodial matters
- Last Will and Testament (must bring as copy with them)
- Set of TA-50 (as required by supported units)

C.14.7 Contractor Augmentation/Backfill: Contractor personnel shall agree to abide by the rules of engagement, policies, and procedures as established by the supported unit Commander during either combat or training deployments. When tasked, the Contractor shall augment any deployment with additional personnel and provide back fill personnel to non-deployed units as necessary.

C.14.8 Contractor Support to Deployed Personnel: The Contractor shall provide sufficient resources to support their deployed personnel in the performance of their duties. This may include logistics from the Contractors CONUS location for obtaining parts for repair for the forward deployed FSRs along with providing technical assistance in determining the causes of failure and remedies of failures. The Contractor shall also provide assistance and technical support in determining and resolving issues or conditions related to or affecting safety. In addition, operations support personnel shall coordinate all international shipping as required, to support the return and receipt of new and repaired items. The Contractor shall also provide periodic detailed program status and information to the Government program office. This data shall be provided on the Government specified database repository to a fidelity, format and delivery frequency agreed by the contractor and the Government.

C.14.9 Government Assistance to Deployed Personnel: The Government will provide overview to ensure the Contractor meets deployment requirements. Specifically, but not limited to: visa; medical support; applicable accessories for each person deployed; housing and/or shelters; transportation at the deployment location; and power generating equipment will be provided as GFP. Contractors authorization to rent, lease or procure vehicles for utilization at any of the MRAP deployment locations will be establish in the Work Directive.

C.14.10 Assignment of Personnel Deployed

C.14.10.1 Contractor personnel will be administratively reported to the Logistics Support Element (LSE) for accountability, administrative support and life support. A Personnel Status Report (PERSTAT) must be submitted daily to appropriate Government personnel IAW PERSTAT Reporting SOP, 28 Oct 11, Attachment 0029.

C.14.11 Compliance of Deployed Personnel: The Contractor shall ensure that all Contractor employees including its sub-Contractors comply

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with all guidance, instructions and general orders applicable to U.S. Armed Forces and DoD civilians and issued by the Theater Commander or his/her representative. This includes any and all guidance and instructions issued based upon the need to ensure mission accomplishment, force protection, safety, and unit cohesion.

C.14.12 Deployed Personnel Resolution of Disputes: The Contractor shall promptly resolve, to the satisfaction of the PCO, all Contractor employee performance and conduct problems identified by the responsible PCO or his/her designated representative. The PCO may direct the Contractor to remove or replace any Contractor employee failing to adhere to instructions and General Orders issued by the Theater Commander or his/her designated representative.

C.14.13 Deployed Return Processing Procedures: Upon completion of the deployment or other authorized release, the Government will authorize Contractor employee transportation from the area of operations to the designated Deployment Center site. At the return processing center the Contractor shall ensure that all Government-issued clothing and equipment provided to the Contractor or the Contractors employees are returned to Government control upon completion of the deployment. The Contractor shall provide the PCO with documentation, annotated by the receiving Government official, of all clothing and equipment returns. The Contractor is responsible for transportation of all clothing and equipment returns.

C.14.14 Contractor Risk Assessments and Mitigation of Deployed Personnel: The Contractor shall:

C.14.14.1 Brief its employees regarding the potential danger, stress, physical hardships, and field living conditions. The Contractor shall require all its employees to acknowledge in writing that they understand the danger, stress, physical hardships, and field living conditions that are possible if the employee deploys in support of a contingency deployment involving military operations.

C.14.14.2 If an employee needs to be replaced for any reason (sickness, disciplinary, emergency leave, etc.) the Government requires that that employee shall be replaced as soon as possible. Designate one representative from its company team as its Contractor team lead. The team lead shall be the Governments point of contact for operational and personnel matters during deployment. Prepare plans for support of military operations in-country as required, or as directed by the PCO.

C.14.15 Deploy Personnel Pay, Tour of Duty/Hours of Work

C.14.15.1 Reserved

C.14.15.2 Tour of Duty/Hours of Work: Contractor deployment tours will be dependent on the mission requirements but may extend up to 12 months. Work hours will also be dependent on mission requirements but may be up to 7 days/week and 12 hours per day but in no case will they exceed federal and local labor law limitations. The Contractor shall comply with all duty hours and tours of duty identified by the PCO.

C.14.16 Deployed Personnel On-Call Duty: The Contractor shall be available to work (i.e. on-call) during other than regular hours to perform mission essential tasks.

C.14.17 Deployed Personnel Development Plan: The Contractor shall develop and maintain a Deployment Plan for personnel subject to deploy in support of contingency operations. The Deployment Plan will follow guidelines set forth in AMC-P 715-16 for the items provided by the Contractor. The Contractor shall certify that deploying Contractor personnel have completed all administrative requirements set forth in Tables B-1 and B-2 of DA PAM 715-16 and furnish a copy of the certified checklist to the MRAP Product Management Office.

C.14.18 Deployed Personnel Contingency Plan: The Contractor shall provide a Contingency Plan, which may be included as part of the overall Deployment Plan, describing how the Contractor will ensure the continuation of such services during crisis situations, to include performance under hostile conditions. This data shall be provided on the Government specified database repository to a fidelity, format and delivery frequency agreed by the contractor and the Government. The plan should identify which positions are performing mission essential support. The plan should also identify which Contractor personnel have a military mobilization recall commitment and provide for adequate replacement of those Contractor personnel in the event of mobilization. (The Contractor should use a reference DoD Instruction 3020.37, Continuation of Essential DOD Contractor Services during Crisis) at ://www.dtic.mil/whs/directives/.

C.14.19 Deployed Personnel Contact Information:

C.14.19.1 The Contractor shall provide the MRAP Product Management Office the contact information for its primary and backup Points of Contact who are familiar with the firms plans and operations relating to Contingency Operations. This data shall be provided on the Government specified database repository to a fidelity, format and delivery frequency agreed by the contractor and the Government.

C.14.19.2 The Deployment and Contingency Plans will be provided to the MRAP Product Management Office 15 days after award of the contract. This data shall be provided on the Government specified database repository to a fidelity, format and delivery frequency agreed by the contractor and the Government.

C.14.20 Contractor Deployment: The Contractor shall have the capability to staff and support any unit OCONUS with either a FRA capability and/or additional FRA personnel as needed in the event of a deployment, whether contingency or for training.

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C.14.21 Contractor Personnel Management

C.14.21.1 As used herein, the phrase Contractor personnel includes both prime and subcontractor personnel and the Contractor shall ensure that these requirements herein are included in all subcontracts. Each military operation shall evolve differently depending upon mission and the combatant commanders guidance.

C.14.21.2 Treaties and International Agreements (e.g. Status of Forces Agreements, Host Nation Support Agreements, and Defense Technical Agreements), applicable to Contractors supporting the U.S. Armed Forces under the facts and circumstances in the Area of Operations: The Contractor shall be thoroughly familiar with Army Regulation (AR) 715-9, Contractors Accompanying the Force, DA PAM 715-16, and Field Manual (FM) 3-100.21. In addition, the Contractor is obligated to request any specific information not provided in this language, but needed at the time of deployment for the PCO or the designated Contracting Officers Representative (COR).

C.14.21.3 The Contractor shall comply with U.S. Army and DoD regulations, directives, guidance, instructions, policies, procedures, and general orders applicable to U.S. Armed Forces and DoD civilians supporting the U.S. Armed Forces in the Area of Operation (AO) as issued by the Combatant Commander and his/her representative to ensure mission accomplishment, force protection, and safety.

C.14.21.4 Accounting for Personnel (Systems, External and Theater Support): As directed by the PCO or his/her representative, and based on instruction of the theater commander, the Contractor shall report its employees, including third country nationals, entering and/or leaving the area of operations by name, citizenship, location, Social Security Number (SSN) or other official Identity document number.

C.14.22 Contractor Personnel Risk Assessments and Mitigation: Contractor Contact Information: The Contractor will provide the Government information for its primary and backup Points of Contact who are familiar with the firms plans and operations relating to contingency operations. This data shall be provided on the Government specified database repository to a fidelity, format and delivery frequency agreed by the contractor and the Government.

C.14.23 Contractor Evacuation: As required by the operational situation, the Government may, at its discretion, relocate designated Contractor personnel (who are United States citizens, aliens in resident of the United States or third country nationals (not resident in the host nation)) to a safe area or evacuate them from the area of operations. The U.S. State Department has responsibility for evacuation of non-essential personnel.

C.14.24 Contractor Notification: The PCO may direct evacuation of Contractor employees deployed in support of contingency operations upon a determination that there is an imminent increased threat to the safety, health, or welfare of the Contractor employees and an evacuation is necessary to secure their health, safety, and/or welfare. The PCOs evacuation direction will be in writing or will be promptly confirmed in writing.

C.14.25 Contractor Requests: If the Contractor reasonably believes there to be an imminent increased threat to the safety, health, and/or welfare of the Contractor employees, the Contractor may request the PCO to direct the evacuation of those personnel. The Contractor may also request evacuation of Contractor employees in the event of medical emergency or death. These requests shall be in writing or shall promptly be confirmed in writing and shall detail the circumstances constituting an imminent increased threat the safety, health, and/or welfare of the contract employees. The PCO after discussions with the Theater Command of host nation and other Government Official(s), to the extent the PCO considers them advisable, will direct evacuation of Contractor employees or will deny the request.

C.14.26 Training of Government Personnel

C.14.26.1 For those Contractor personnel providing services deemed essential during a crisis, the Contractor shall ensure that all appropriate training required to ensure a continuation of essential services during a crisis is provided to Government personnel. The rights and remedies of the Government under this clause are in addition to any other rights and remedies provided by law or under this contract.

C.14.26.2 The PCO will inform the Contractor of all Nuclear, Biological, and Chemical (NBC) equipment and Chemical Defensive Equipment (CDE) training requirements and standards. The U.S. Government will provide the Contractor employees with CDE familiarization training commensurate with the training provided to DoD civilian employees.

C.14.26.3 The CRC/IDS will provide mission training designed to provide deploying individuals with a basic knowledge of what they can expect once they deploy into the theater of operations. Training will cover areas such as the Geneva Convention, Code of Conduct, Health and Sanitation, Legal Assistance, Customs and Courtesies for the area of deployment, applicable Status of Forces Agreement, Security, Weapons Familiarization and any additional training dictated by the special circumstances of the deployment and approved by the Theater Commander.

C.14.27 Technical Data Rights: When directed, for those Contractor provided services deemed essential during a crisis the Contractor shall ensure all applicable technical data that is required to ensure the continuation of essential services during the crisis are provided to the Government. These rights and remedies of the Government are in addition to any other rights and remedies provided by law or under this contract.

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C.14.28 Security and Background Checks: Prior to accompanying the force, the Contractor shall ensure that all Contractor security and background checks are performed.

C.14.29 Central Processing and Departure Point

C.14.29.1 The U.S. Government (USG) is responsible for providing information on all requirements necessary for deployment. The U.S. Army has created several CONUS sites for expeditiously preparing individuals for deployment to a combatant area or theater of operation. These sites are known as CONUS Replacement Centers (CRC) or Individual Deployment sites (IDS). The Contractor shall ensure that all Contractor personnel report to the designated deployment-processing site where the Contractor personnel will receive appropriate training and items (e.g. specialized clothing and equipment, identification cards and tags). For any Contractor personnel determined by the Government to be not qualified to accompany the force, the Contractor shall promptly remedy the problem. The Contractor shall ensure that all Contractor personnel re-deploy and out-process through the designated deployment processing site. Upon redeployment, the Contractor shall ensure that all issued controlled items are returned to the Government. (Medical screening requirements may be found in FM 3-100.21, Appendix D.)

C.14.29.2 General. The Government is responsible for providing information and assistance in meeting the requirements necessary for deployment. Deployment processing will include, as a minimum, all Government required procedures such as medical examinations, and immunizations. If central processing is required, the Contractor employees will be issued Letters of Authorization for processing through a specific CONUS Replacement Center/Individual Deployment Site (CRC/IDS) and for the duration of the tour of duty. The Contractor is responsible for travel to the CRC/IDS or other CONUS departure point. If a CRC/IDS CONUS departure point is not used, the Contractor will receive an equitable adjustment for all reasonable travel costs incurred in deployment of Contractor employees.

C.14.29.3 Contractor personnel, who have an established habitual relationship with a deploying military unit, may be required to prepare for deployment with the unit. For any Contractor personnel determined by the Government at the deployment/processing site to be non-deployable, the Contractor shall promptly remedy the problem. For all other Contractor personnel who do not have an established habitual relationship with a deploying military unit, the PCO will provide information regarding the appropriate deployment procedures and preparation site.

C.14.29.4 The PCO will provide Contractor their AO Government point of contact, AMC LSE, or other designated liaison, prior to their deployment with the unit to the AO. The Contractor shall be responsible for notifying the applicable Government contact of their imminent deployment. Information to be provided to the Government contact shall include their movement dates and locations with the unit within the AO, and their departure date from the AO and out-process through the original deployment processing Center.

C.14.29.5 For any Contractor employee determined by the Government at the deployment-processing site to be non-deployable for debilitating health problems or failure to have a security clearance or travel documents when required, the Contractor shall promptly remedy the problem. If the problem cannot be remedied in time for deployment, a replacement having equivalent qualifications and skills shall be provided within a mutually agreeable time period.

C.14.29.6 The PCO will provide the Contractor all mission training requirements and the Contractor shall ensure that all deploying employees receive, and successfully complete, all required mission training.

C.14.29.7 The Contractor shall not deploy its own employees unless authorized by the PCO. If authorization to deploy its own employees is provided, the Contractor is responsible to ensure all deployment requirements are met. The Contractor shall ensure all deployment requirements are coordinated with the PCO, the appropriate Army Material Command, Logistics Support Element (AMC, LSE) or other designated liaison prior to deployment.

C.14.30 Individual Readiness File: It is the Contractors responsibility to maintain the Individual Readiness File (IRF) records needed for identification and processing. Contractor personnel are responsible for having their IRF complete and with them when they arrive at their deployment processing center. In the absence of a detailed list elsewhere in the contract, see the tables in the latest revision of AR 715-9 and the Administrative Section on the deployment center as of 1 April 2012 is at Camp Atterbury, IN, Center website at <http://www.campatterbury.in.ng.mil> for details on what should be included. Note that some requirements will vary depending on the area to which Contractor personnel will be deployed. The Government will provide the contractor with any change in deployment center location.

C.14.31 Contractor Medical

C.14.31.1 It is the responsibility of the Contractor to provide qualified, capable personnel who meet the physical standards and medical requirements to perform the contracted duties in designated theater of operations.

C.14.31.2 Individual readiness files must address the following areas:

C.14.31.2.1 Medical/Dental: The contractor shall provide, via courier, one copy of the latest complete physical exams (must be less than 12 months old) and dental records with Panorex) for all personnel entering the deployment center NLT 2 weeks prior to individuals arrival entering the deployment center. In addition all contractor personnel shall bring one copy of their latest complete physical

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exams (must be less than 12 months old) and dental records with Panorex) for in processing at the deployment center.

C.14.31.2.2 DNA sample will be collected and stored at the deployment-processing center.

C.14.31.2.3 The Army Dental Care System (ADCS) will ensure dental health deployment standards by accepting only a DoD Form 2813, Active Duty/Reserve Forces Dental Examination, completed by the Contractors civilian dentist, as proof of dental deployment status.

C.14.32 Medical Screening

C.14.32.1 Deploying Contractor personnel shall carry with them a minimum of a 180-day supply of any medication they require. Military facilities will not be able to replace many medications required for routine treatment of chronic medical conditions such as high blood pressure, heart conditions, asthma and arthritis. Contractor employees will review both the amount of the medication and its suitability in the foreign area with their personal physician and make any necessary adjustments prior to deployment. Upon arrival in the area of operations, the Logistical Assistance Office (LAO) or COR will coordinate with the supporting medical unit to ensure the future availability of prescription medications and to obtain such medications.

C.14.32.2 If glasses are required contractor employees shall deploy with two pairs of glasses and a current prescription. Copies of the prescription shall be provided by the employee at the CRC so that eyeglass inserts for use in compatible chemical protective mask can be prepared. Wearing contact lenses in a field environment is not recommended.

C.14.32.3 Reserved

C.14.32.4 The Government at its discretion may provide to Contractor employees deployed in the theater of operations, on a cost reimbursable basis, emergency medical and dental care commensurate with the care provided to DoD civilians deployed in the theater of operations. This is subject to the availability of such medical and dental care.

C.14.32.5 The examining physician or physician assistant (PA) has full authority in determining Contractor personnel fitness. In making this determination he/she should consider: the specified standards of the Contractor personnel position (described on SF 78, Certificate of Medical Examination), the physical and medical condition of the Contractor personnel, the potential environment to which the Contractor personnel may deploy (for Emergency Essential Personnel, assume combat zone in the third world; for all others, consider the environment to which the Contractor is deploying). The physician/PA should be conservative in determining Contractor personnel fitness and render his/her written recommendation of SF 78.

C.14.32.6 If bio-defense vaccines are required, such as anthrax and smallpox for the Area of Operations being deployed, the vaccine will be provided to the Contractor personnel by the Government on a reimbursable basis. Generally, the vaccines will be provided at the CRC or at the nearest Medical Treatment Facility (MTF).

C.14.33 Standard Identification Cards

C.14.33.1 The Contractor shall ensure that all deploying individuals have the required identification tags and cards prior to deployment. In addition to the DD Form 489 (Geneva Convention Card), issued at the point of deployment, all Contractor employees will be issued personal identification tags and common access cards (CAC), if available before deployment. The CAC documents Contractor employee entitlements for access to installation as well as medical and PX privileges in accordance the applicable Letter of Authorization (described elsewhere in this contract). Personal identification tags will include the following information: full name, social security number, blood type and religious preference. Contractor Employees will maintain all issued cards tags on their person at all times while OCONUS. Upon redeployment, the Contractor shall ensure that all issued controlled identification cards and tags are promptly returned to the Government.

C.14.33.2 Upon arrival in theater, Contractor personnel may be required to obtain locally required identification cards. The Government Representative who has cognizance for these Contractor personnel in theater will assist in the coordination of the issuance of these identification cards.

C.14.34 Letter of Authorization: Unless prohibited by international agreement, the PCO will issue a Letter of Authorization (LOA) for Contractor personnel deployment and redeployment to and from the Area of Operation. This is the document Contractor personnel must carry with them as authorization for use of Government transportation, medical facilities, billeting, and other entitlements. Invitational travel orders shall not be issued in lieu of this Letter of Authorization. These Letters of Authorization will state the intended length of assignment in the area of operation and shall identify planned use of Government facilities and privileges in the theater of operations, as authorized by the contract.

C.14.35 Clothing and Equipment Issue

C.14.35.1 Contractor personnel accompanying the force are not authorized to wear military uniforms items, except for specific items required for safety and security. Exceptions require a Department of the Army waiver. An individuals status as Contractor personnel shall be conspicuously displayed on their clothing unless prohibited for operational reasons. Contractor personnel should wear clothing appropriate for the work being performed. Items of personal clothing and personal care, to include both casual attire and work

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clothing required by the particular assignment, are the responsibility of the individual Contractor employee and will not be issued at the deployment center. Clothing should be distinctive and unique and not imply that the Contractor is a military member, while at the same time not adversely affecting the Governments tactical position in the field. Guidelines are within Pamphlet AMC-P715 and DA PAM 715-16. It is up to the Contractor to insure that duty uniforms do not present a problem for the field commander or to be so similar to the Armed Services uniform to create confusion.

C.14.35.2 The Combatant Commander, subordinate Joint Force Commander (JFC), or Army Force (ARFOR) Commander may require that Contractor employees be issued and be prepared to wear Organizational Clothing and Individual Equipment (OCIE), to include Chemical, Biological, Radiological, Nuclear Element and High-Yield Explosive (CBRNE) defensive equipment, necessary to ensure Contractor personnel security and safety. The Contractor or Contractor personnel shall sign for all issued OCIE to acknowledge receipt and acceptance of responsibility for the proper maintenance and accountability of the OCIE.

C.14.35.3 When OCIE and/or Chemical, Biological, Radiological, Nuclear, and High-Yield Explosive (CBRNE) equipment is issued to the Contractor personnel, equipment familiarization training shall be provided to the Contractor personnel, commensurate with the training provided to DoD civilian employees, usually at the deployment processing center.

C.14.35.4 The Contractor shall ensure that all issued OCIE is returned to the Government at the place of issue unless the PCO or his representative direct otherwise.

C.14.36 Contractor Vehicle and Equipment Operation

C.14.36.1 The Contractor shall ensure that Contractor personnel possess the required licenses to operate all vehicles or equipment necessary to perform the contract in the Area of Operations.

C.14.36.2 Contractor-owned or leased motor vehicles or equipment shall meet all requirements established by the combatant command and shall be maintained in a safe operating condition.

C.14.36.3 Before operating any military owned or leased equipment, the Contractor employee shall provide proof of license (issued by an appropriate Governmental authority) to the unit or agency issuing the equipment. The Government, at its discretion, may train and license Contractor employees to operate military owned or leased equipment. The Government, at its discretion, may train and provide an Incidental Driver Permit to Contractor employees who operate military owned or leased equipment (Ref. AR 600-55).

C.14.37 Contractor Tour of Duty

C.14.37.1 The Contractor may rotate Contractor employees into and out of the theater provided there is no degradation in mission results. For employees who have deployed less than six months, the Contractor may rotate personnel. The costs for rotating employees who have deployed for longer than six months will be an allowable cost under the contract. The Contractor shall coordinate personnel changes with the PCO and the AMC, LSE or other designated liaison responsible for accounting for Contractor personnel in their Area of Operation.

C.14.37.2 The Contractor shall comply with all duty hours and tours of duty identified in this contract. These could change, however, to ensure the Governments ability to continue to execute its mission. The duty hours and tours of duty may be the same as military personnel and operation needs as directed by the Combatant Commander.

C.14.37.3 The Contractor shall be available to work extended hours to perform mission essential tasks as required by the operational situation by the Combatant Commander or his/her authorized designee, when required, to ensure the Governments ability to continue to execute its mission.

C.14.38 Contractor Reception, Staging, Onward Movement and Integration

C.14.38.1 Arrival in Area of Operation Logistics Support Element: Contractor employees shall report to the AMC LSE (or other designated liaison) and provide necessary information to the AMC LSE on the Contractors deployment and activities in the Area of Operation to facilitate the AMC LSE logistics integration function. Initial contact and coordination with the AMC LSE shall be conducted prior to deployment into the theater. Similar coordination and reporting to the AMC LSE shall occur prior to exiting the area of operation. Any additional coordination requirements with the AMC LSE shall be as defined by the PCO or COR.

C.14.38.2 Upon arrival in the Area of Operation, Contractor personnel shall receive reception, staging, onward movement and integration (RSOI), as directed by the AMC-LSE (or other designated liaison). Contractor personnel may be required to obtain additional locally required identification cards.

C.14.38.3 Use of Commercial Transportation into the Area of Operation: Unless directed by the PCO in conjunction with guidance from the combatant commander, Contractor personnel shall not obtain commercial transportation into an Area of Operation. The Government shall provide transportation into and out of the Area of Operation for Contractor personnel from the deployment-processing center.

C.14.39 Contractor Accountability/Visibility & Logistics Support Element

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C.14.39.1 The Contractor shall ensure that all Contractor personnel contact the AMC-LSE (or other designated liaison). Contractor personnel will be responsible for providing all required theater specific accountability/visibility information to the Area of Operations AMC-LSE to facilitate the logistics integration function. The specific information required to assist in accounting for these personnel when they are deployed will be identified by the Government prior to the Contractor personnel reporting to the deployment processing center. The Contractor shall ensure that all requested data is provided to the Army for inclusion in the U.S. Army's applicable personnel accountability database system.

C.14.39.2 The Contractor shall coordinate with the AMC LSE or other PCOs designated representative for logistics support, as follows: (i) upon initial entry into the Area of Operation; (ii) upon initiation of contract performance; (iii) upon relocation of contract operations within the Area of Operations; and (iv) upon exiting the Area of Operation. Any additional coordination requirements with the AMC-LSE shall be as directed by the PCO or Contracting Officer Representative.

C.14.39.3 As required by the operational situation, the Government may at its discretion relocate Contractor personnel to a safe area or evacuate them from the Area of Operation. The U.S. State Department has responsibility for evacuation of personnel as described in 22 U.S.C. 4802(b).

C.14.39.4 If Contractor personnel depart an Area of Operations without permission, the Contractor shall ensure continued performance IAW the terms and conditions of the contract. When the Contractor replaces personnel who depart the Area of Operation without permission, the replacement expense shall be borne by the Contractor and the employee must be replaced within a mutually agreeable time period. Contractor personnel who depart the Area of Operation without permission relinquish force protection.

C.14.40 Contractor Technical Support

C.14.40.1 All technical support processes and procedures (such as parts requisitioning and distribution, retrograde of material, surging technicians forward, etc.) will be integrated into the logistics plans and policies established by PM MRAP. Contractor shall ensure coordination with the Brigade of transit and status reporting for all non-standard parts.

C.14.40.2 The Contractor should be prepared to move material and equipment using U.S. Government transportation and comply with applicable transportation regulations, such as MILSTAMP for safety, packaging and tie-downs as required by the operational situation.

C.14.41 Contractor Force Protection: While performing duties IAW the terms and conditions of the contract, the Combatant Commander shall provide force protection to Contractor personnel commensurate with that given to Service/Agency (e.g. Army, Navy, Air Force, Marine Corps, and Defense Logistics Agency (DLA) civilians in the Area of Operations.

C.14.42 Contractor Weapons: The Government will provide force protection for Contractor personnel. The Government may issue side arms to Contractor employees for their personal self-defense. The issuance of such weapons must be authorized by the Theater Commander and must comply with military regulations regarding firearms training and safe handling. However, Contractor employees shall not possess personally owned firearms in the area of operations. The acceptance of self-defense weapons by a Contractor is voluntary and should be IAW the employers company policy regarding possession and/or use of weapons. When accepted, the Contractor employee is responsible for using the weapon IAW the applicable rules governing the use of force (DFARS 252.225-7995). Also, when accepted, only military issued ammunition may be used in the weapon. The Contractor employee is legally liable for any use that is not IAW the rules of engagement (DFARS 252.225-7995). The Contractor employee must be aware that they may incur civil and criminal liability, both under Host Nation Law or U.S. Criminal and Civil Law, for improper or illegal use of weapons.

C.14.43 Contractor Weapons Training: Prior to issuing any weapons to Contractor employees, the Government will provide the Contractor employees with weapons familiarization training commensurate to training provided to DoD civilian employees. The Theater Commander is responsible to ensure that armed Contractors receive training in the rules of engagement, the rule governing the use of force, and the law of war. The Contractor shall ensure that its employees adhere to all guidance and orders issued by the Theater Commander or his/her representative regarding possession, use, safety and accountability of weapons and ammunition.

C.14.44 Contractor Legal Assistance: Contractor employees supporting a contingency deployment and are accompanying the Armed Forces of the U.S. outside the U.S., will receive certain legal assistance from Army lawyers as part of their deployment support. If legal assistance is provided while Contractor employees are deployed in the theater of operations, it must be IAW applicable international or host nation agreements. The legal assistance is limited and ministerial in nature (for example, witnessing signatures on documents and providing notary services), legal counseling (to include review and discussion of legal correspondence and documents), and legal document preparation (limited to simple wills, powers of attorney, and advanced medical directives), and help retaining non-DoD civilian attorneys.

C.14.45 Contractor Living under Field Conditions

C.14.45.1 Depending on the contingency, and other factors, it may be necessary for the Government to provide deployed Contractor personnel the equivalent living conditions, subsistence, emergency medical and dental care, sanitary facilities, mail delivery, laundry service, and other available support afforded to Government employees and military personnel in the Areas of Operations unless prohibited by field conditions.. Types of logistical support provided to Contractor personnel are outlined in the Letter of

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Authorization (LOA).

C.14.45.2 The Contractor is advised of the potential danger, stress, physical hardships and field living conditions associated with the deployment. The Contractor shall be responsible for sharing this information with its employees.

C.14.45.3 The Contractor shall ensure that Contractor personnel acknowledge, in writing, that they understand the danger, stress, physical hardships, and field living conditions that are possible in support of military operations. The acknowledgement will include the impact that any austere conditions may have on any Contractor personnel chronic medical preconditions.

C.14.45.4 If subsistence and protection requirements change during the deployment (e.g. if the Combatant Commander or subordinate commander changes the authorizations), the PCO will modify the contract, and any equitable adjustments shall be negotiated under the changes clause.

C.14.45.5 Morale, Welfare, Recreation. When approved by the installation or combatant commander, the Government will provide deployed Contractor personnel with morale, welfare, and recreation services commensurate with that provided to DoD civilians and military personnel in the Area of Operations.

C.14.45.6 Morale, Welfare, Recreation (MWR) and Support Services: Contractor employees working within the theater of operations will, to the maximum extent possible, be eligible to use MWR facilities, activities, and services subject to the installation or Theater Commanders discretion and the terms of the contract. Contractor employees will be eligible for use of Army and Air Force Exchange Service (AAFES) facilities for health and comfort items. Use of these facilities will be based on installation and Theater Commanders discretion, the terms of the contract with the Government, and the terms of the applicable Status of Forces Agreement (SOFA).

C.14.46 Status of Forces Agreements (SOFA): SOFA is an international agreement between two or more Governments that provide for various privileges, immunities and responsibilities, as well as the rights and responsibilities of individual members of the sending states force. The Contractor shall adhere to all relevant provisions of applicable SOFA and other similar related agreements.

C.14.47 Uniform Code of Military Justice: Civilian and Contractor employees are subject to military law when serving with or accompanying an armed force only in time of war. The U.S. Supreme Court has ruled in time of war to mean a congressionally declared war.

C.14.48 Public Law 106-523 Military Extraterritorial Jurisdiction Act of 2000, Amended Title 18, U.S. Code, establishes Federal Jurisdiction over certain criminal offenses committed outside the United States by persons employed by or accompanying the Armed Forces, or by members of the Armed Forces who are released or separated from active duty prior to being identified and prosecuted for the commission of such offenses, and for other purposes. The Act applies to anyone who engages in conduct outside the U.S. that would constitute an offense punishable by imprisonment for more than one year, the same as the offense had been committed within the jurisdiction of the U.S. The person must be employed by or accompanying the Armed Forces outside the U.S. The term employed by the Armed Forces outside the U.S. means employed as a civilian employee of DoD, as a DoD Contractor or an employee of a DoD Contractor, who is present or residing outside the U.S. in connection with such employment, and is not a national of or ordinarily resident in the host nation. The term accompanying the Armed Forces outside the U.S. means a family member of a member of the Armed Forces, a civilian employee of the DoD, a DoD Contractor or an employee of a DoD Contractor, not a national of or ordinary resident in the host nation.

C.14.49 Contractor Health and Life Insurance: The Government has no statutory obligation to provide a Contractor employee with any health insurance. The Government may reimburse some life insurance costs as a result of overseas deployment.

C.14.50 Contract Next of Kin Notification

C.14.50.1 Before deployment, the Contractor shall ensure that each Contractor employee completes at least three DD Forms 93, Record of Emergency Data Cards. One completed form is for the CONUS Replacement Center (CRC), one copy for the Armys Casualty & Memorial Affairs Operations Center (CMAOC), and one copy for the AMC LSE Contractor Coordination Cell (CCC) or other designated liaison. Contractor personnel are responsible for providing the CRC with two copies and delivering one copy to the AMC LSE or other designated liaison upon arrival in theater. The Contractor personnel's office should also maintain this information.

C.14.50.2 As Executive Agent for Mortuary Affairs, the Army will facilitate the notification of the Next of Kin (NOK) in the event that a U.S. citizen Contractor employee accompanying the force OCONUS dies, requires evacuation due to injury, or is reported missing or captured. Notification support by the Army is dependent upon each Contractor employee completing, and updating as necessary, the DD Form 93 (Record of Emergency Card).

C.14.50.3 The Department of Army will not directly make contact with the NOK since the relationship is between the Government and employer and not directly with the employee. In some cases, an Army Notification Officer may accompany the employer's representative to facilitate the notification process, if requested by the employer. In this case, the Army Notification Officer may work with the Contractor Representative in assisting the NOK with applying for and obtaining the appropriate benefits and entitlements.

C.14.50.4 It is important to note that it is not within the Government's purview to notify the NOK or family directly. The Army does not have any other responsibility other than delivering the remains to the location specified by the NOK as reported by the employer.

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C.14.50.5 NOK Reports: The Contract shall submit in Government Defined Format, Frequency and Fidelity a bi-weekly (twice per month) status report on all deployment activities This data shall be provided on the Government specified database repository to a fidelity, format and delivery frequency agreed by the contractor and the Government.

C.14.51 Personnel Recovery (PR) Training

C.14.51.1 Personnel Recovery is the sum of diplomatic, civil, and military efforts to report, locate, support, recover, return and repatriate U.S. military, DoD civilians, DoD Contractors, and others as directed by the Secretary of Defense who are captured, detained, evading, isolated or missing, while participating in a U.S. activity or mission.

C.14.51.2 Preserving the lives of U.S. Military, DoD Civilians and DoD Contractors placed in danger of isolation, detention or capture, while in a U.S. sponsored mission, is one of the highest priorities of the U.S. Government. Personnel Recovery is the critical element for AMC to fulfill its moral obligation to protect its personnel, prevent exploitation and to reduce the potential for the capture of Personnel.

C.14.51.3 Personnel Recovery encompasses prevention training, conducting military search and rescue, combat search and rescue, recovery of isolated personnel, and repatriation of hostages, detainees, prisoners of war or persons missing or killed in action.

C.14.51.4 All Contractor Personnel conducting OCONUS missions are required to have Personnel Recovery Training IAW DoDI 3020.41. The Contracting Officers Designated Representative will make arrangements for the Contractor personnel to fulfill the PR requirements.

C.14.51.5 Contractor personnel accompanying the forces in AOR will receive their PR Training at CRC. However, the Synchronized Personnel Operational Tracker and Civilian Personnel Verification Data Card should be completed at home station and provide to the PM MRAP to hold as backup for the theater. CRC will also require the Contractor personnel to complete this data.

C.14.51.6 Contractor personnel conducting OCONUS missions (other than AOR) will also require PR Training. The Contractor will be informed of the requirements for each mission. The Contractor personnel will complete the following pre-deployment home station training through the U.S. Army Aviation & Missile Command, Personnel Recovery Program website
https://redstoneappsrv1.redstone.army.mil/prp/prp_home:

C.14.51.6.1 Survival, Evasion, Resistance, and Escape (SERE) Level B unclassified training videos (Hostage Introduction, Hostage Survival Policy/Surviving a Hostage Detention, Hostage Communication, Hostage Resistance Exploitation, Hostage Effecting Release, and Level B Hostage Summary)

C.14.51.6.2 Review Code of Conduct Briefing

C.14.51.6.3 At-Risk Briefing

C.14.51.6.4 Review of Foreign Clearance Guidance Guide

C.14.51.6.5 Antiterrorism Level 1 Training

C.14.51.6.6 High-Risk-of-Capture Briefing

C.14.51.6.7 Complete Civilian Personnel Data Verification Card

C.14.51.6.8 Register in SPO Tracking System Training completion will be validated by TACOM, G-2 and MRAP Project Manager.

C.14.52 Korea Operations: United States Forces Korea Regulation 525-40 (USFK Reg. 525-40) and Army in Korea Regulation 95-33 (AK Reg. 95-33) are incorporated by reference. USFK Reg. 525-40 and AK Reg. 95-33 can be accessed at <http://8tharmy.korea.army.mil> under the publications link.

C.14.53 Contractor Verification System

C.14.53.1 The Under Secretary of Defense for Personnel and Readiness (USD (P&R)) has mandated the Contractor Verification System (CVS) as the authoritative source for secure, reliable Contractor identification data. Effective 27 October 2006, the web-based CVS application will be the only means which Contractor data may be added to the Defense Enrollment Eligibility Reporting system (DEERS). CVS replaces the manually prepared paper DD Form 1172-2 (Application for DoD Common Assess Card (CAC)).

C.14.53.2 CVS requires the Contractor to:

C.14.53.2.1 Notify the Trusted Agent (TA) to initiate a Contractor CAC Request;

C.14.53.2.2 Register for an Army Knowledge Online (AKO) account;

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C.14.53.2.3 Enter and edit contract information in CVS

C.14.53.2.4 Submit completed applications via CVS and maintain records on approved/rejected applications

C.14.53.2.5 Manage requests for a new or renewed CAC cards to allow sufficient time to commence performance under a contract.

C.15 Item Unique Identification (IUID) Marking: The Contractor shall implement specific IUID markings, IAW and as defined in MIL-STD-130N and DFARS clause 252.211-7003

C.15.1 Contractor shall submit an IUID Production report IAW CDRL A108.

C.15.2. Contractor shall submit an IUID Embedded Items Data Maintenance Report IAW CDRL A110.

*** END OF NARRATIVE C0002 ***

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SECTION G - CONTRACT ADMINISTRATION DATA

LINE	PRON/ AMS CD/ MIPR/ GFEBs ATA	OBLG STAT	JO NO/ ACCT ASSIGN	ACRN	PRIOR AMOUNT	INCREASE/ DECREASE	CUMULATIVE AMOUNT
0501AG	2M4SME15Q7	2	S.0019585.2.1.4	CP \$	0.00 \$	2,373,972.48 \$	2,373,972.48
0503AG	2M4SME15Q7	2	S.0019585.2.1.4	CP \$	0.00 \$	1,515,523.88 \$	1,515,523.88
0505AB	2M4MXL01Q7	2	S.0019213.2.3.1	CG \$	4,009,497.60 \$	-471,705.60 \$	3,537,792.00
0507AJ	2M4SME15Q7	2	S.0019585.2.1.4	CP \$	0.00 \$	24,679.61 \$	24,679.61
0508AH	2M4SME15Q7	2	S.0019585.2.1.4	CP \$	0.00 \$	2,159,400.40 \$	2,159,400.40
NET CHANGE						\$ 5,601,870.77	

ACRN	ACCOUNTING CLASSIFICATION	INCREASE/ DECREASE
CG	021 201420142020 A5XDU 114018VFRE 252G L035143908 S.0019213.2.3.1	021001 \$ -471,705.60
CP	021 201420162035 A5XDU D03002ARJT7 2571 L035691670 S.0019585.2.1.4	021001 \$ 6,073,576.37
NET CHANGE		\$ 5,601,870.77

NET CHANGE FOR AWARD:	PRIOR AMOUNT OF AWARD	INCREASE/DECREASE AMOUNT	CUMULATIVE OBLIG AMT
\$	82,952,096.98	\$ 5,601,870.77	\$ 88,553,967.75

LINE	ACRN	EDI/SFIS	ACCOUNTING CLASSIFICATION	CUMULATIVE OBLIG AMT
0501AG	CP	021 201420162035	A5XDU D03002ARJT7 2571 L035691670 S.0019585.2.1.4	021001
0503AG	CP	021 201420162035	A5XDU D03002ARJT7 2571 L035691670 S.0019585.2.1.4	021001
0505AB	CG	021 201420142020	A5XDU 114018VFRE 252G L035143908 S.0019213.2.3.1	021001
0507AJ	CP	021 201420162035	A5XDU D03002ARJT7 2571 L035691670 S.0019585.2.1.4	021001
0508AH	CP	021 201420162035	A5XDU D03002ARJT7 2571 L035691670 S.0019585.2.1.4	021001

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SECTION J - LIST OF ATTACHMENTS

<u>List of</u> <u>Addenda</u>	<u>Title</u>	<u>Date</u>	<u>Number</u> <u>of Pages</u>	<u>Transmitted By</u>
Exhibit AB	CONTRACT DATA REQUIREMENTS LIST (CDRLS) A0123-A0135	11-MAR-2014	010	EMAIL
Attachment 0081	GEN PUBS REG LWB AMBULANCE	11-MAR-2014	003	EMAIL
Attachment 0082	LMI SUMMARY WORKSHEET -MAINTENANCE ANALYSIS	11-MAR-2014	003	EMAIL
Attachment 0083	SAMPLE PUBLICATIONS OUTLINE	11-MAR-2014	002	EMAIL
Attachment 0084	ATTACHMENT B	11-MAR-2014	003	EMAIL
Attachment 0085	LEVEL OF REPAIR ANALYSIS (LORA)	11-MAR-2014	002	EMAIL
Attachment 0086	ATTACHMENT A			